

6-30-1977

Annual Report of the University, 1976-1977, Volumes 1-4

University of New Mexico

Follow this and additional works at: https://digitalrepository.unm.edu/unm_annual_reports

Recommended Citation

University of New Mexico. "Annual Report of the University, 1976-1977, Volumes 1-4." (1977). https://digitalrepository.unm.edu/unm_annual_reports/20

This Annual Report is brought to you for free and open access by the Campus Publications at UNM Digital Repository. It has been accepted for inclusion in UNM Annual Reports by an authorized administrator of UNM Digital Repository. For more information, please contact disc@unm.edu.

ANNUAL REPORTS
1976-77

CONTENTS
Volume I

	page
<u>The President</u>	1
Intercollegiate Athletics	
<u>The Provost</u>	
Continuing Education (includes Gallup and Northern Branch)	11
Ethnic Studies	
Afro American Studies	116
Chicano Studies (no report submitted)	
Native American Studies (no report submitted)	
Graduate School (includes Los Alamos and Santa Fe)	150
Institute for Applied Research Services	201
Women Studies (no report submitted)	
<u>Associate Provost/Dean of Faculties</u>	
School of Architecture and Planning	212
College of Arts and Sciences	233
American Studies	291
Anthropology (includes Contract Archeology and Maxwell Museum)	301
Journal of Anthropological Research	351
Biology	355
Chemistry	371
Communicative Disorders	443
Economics	458
English	478
Geography	504
Geology	521
Institute of Meteoritics	598
History	619
New Mexico Historical Review	650
Journalism	654
Linguistics	657
Mathematics and Statistics	669
Modern and Classical Languages	691
Philosophy	718
Physics and Astronomy	730
Political Science	746
Psychology	755
Sociology	785
Speech Communication	796
Inter-American Affairs (1975-77)	831
Latin American Center (includes Andean Center)	836
Robert O. Anderson Schools of Business and Administrative Sciences	867

THE REPORT OF THE DEPARTMENT OF
INTERCOLLEGIATE ATHLETICS

July 1, 1976 - June 30, 1977

Lavon McDonald, Athletic Director

THE REPORT OF THE DEPARTMENT OF
INTERCOLLEGIATE ATHLETICS

July 1, 1976 - June 30, 1977

Lavon McDonald, Athletic Director

The University of New Mexico again fielded intercollegiate teams in 13 sports in 1976-77 school year. Two individuals won national championships. One athlete won an NCAA Postgraduate scholarship and seven Lobo athletes were accorded All America status.

The total of all varsity athletics at UNM drew 411,906 spectators to home events. The basketball team ranked second in the nation in home attendance. Football attendance increased 18 per cent and season ticket sales for football jumped almost 50 per cent. The Lobo football team generated additional revenue by appearing on an ABC telecast against Brigham Young in Albuquerque in November.

The University hosted the 1977 Western Athletic Conference Gymnastics Championships in March and lost the championship by only hundredths of a point. UNM also hosted an exhibition gymnastics meet against Japan in January and an exhibition basketball game against Yugoslavia in November. Pushing the scope of UNM athletics further still, UNM golfers competed in the Pan American Tournament in Guadalajara, Mexico in January.

New Mexico finished a strong fourth in the WAC in All Sports Competition. Arizona State, Brigham Young and Arizona finished ahead of the Lobos. For the third straight year no Lobo team won a WAC Championship, but the UNM ski team won its sixth straight Central Intercollegiate Alpine League team championship.

The breakdown by sport:

CROSS COUNTRY--Coach Bill Silverberg's team finished fifth in the WAC Championships. Senior Lionel Ortega was 23rd individually, quite a slip from seventh the year before. The Lobos were 3-3 in head to head competition prior to the WAC meet. Peter Butler, a freshman, won in a triangular with BYU and Arizona State and Ortega pulled a big surprise by beating UTEP's amazing stable of runners for a win in the two school's meeting in September. No Lobos qualified for the NCAA meet.

FOOTBALL--It started out with lots of promise, but ended in disappointment for Lobo football players. Season ticket sales set an alltime high, reaching the 9,000 mark prior to the start of the season. The Texas Tech game drew 28,501, the third largest crowd to ever see a Lobo home game. A total of 108,441 fans saw the Lobos at home in 1976. New Mexico won three of the first four games, then lost six of the final seven to finish 4-7. The conference record was 3-4, tied for fifth in the WAC. As in the previous year, the losses were heartbreakers--four of the losses were by four points or less. Defensive end Robin Cole was a first team All-American pick by the Football News, second All-American in a row for UNM. And Center Dave Green was an All American selection of Time magazine. Cole, Green, Preston Dennard, Tom Morris and Mike Williams were All-WAC selections. That's the most All-WAC picks on a non-championship team in league history. Williams ran away with the conference rushing title, 1240 yards, shattering the school record. He was tenth in the entire country and he was but a sophomore. Dennard became the top pass receiver ever at UNM. Quarterback Noel Mazzone was ninth in the nation in total offense and cornerback Max Hudspeth led the WAC in interceptions.

WRESTLING--Butch Escalante, at 142 pounds, reached the finals of the WAC Championships before losing, thus finishing second. Escalante won the Rocky Mountain Championship and pretty much was the lone bright spot in the wrestling year. The team finished 3-11 in dual competition and seventh in the conference. Escalante was eliminated in the first round of the NCAA Championships as was Gary Hines, who finished fourth in the WAC at his weight. Escalante ended up 18-4-1 and Hines was 25-10.

SWIMMING--New Mexico was a surprising third in the conference championships despite having almost no depth to speak of. Sophomore Tom Smith won both the 200 and 400 yard individual medley championships and the Lobos won the 800 freestyle relay title. Larry Farrar won the 100 yard freestyle. That relay team made it to the finals at the NCAA Championships, finishing 11th. Smith and Larry Farrar were voted All-Americans. The team finished 3-1 in dual competition.

WATER POLO--An abbreviated season left the Lobos with a 4-4 record. The team reached the District 7 finals, but was beaten twice by Air Force. Tom Daulton was selected All District 7.

GYMNASTICS--Perhaps the most successful athlete at UNM in 1976-77 was gymnast Chuck Walter. His accomplishments are legion; second in the WAC, champion of the Odessa Open, the Midwest Open and the UCLA Invitational National Collegiate Champion in the pommel horse, NCAA Postgraduate Scholarship Winner, Joseph P. Daley Award winner, WAC Scholar Athlete of the Year Award. Walter won them all. He won his national title by hitting a career best in the pommel horse on his final try. Teammate Steve Ortiz was third at the NCAAAs in the high bar. Ortiz put on the most incredible one man show in WAC history at the conference meet. He won five of a possible eight events and ran away with the All Around championship. That's comparable to playing four positions on a winning football team--no one has ever done it. The Lobos were 4-6 in dual competition and were that very narrow second at the WAC meet. John Eberle won the pommel horse at WAC, giving UNM six individual champions. But Arizona State's depth was enough to edge the Lobos by half a point for the team title. Walter, Ortiz and Eberle were All-Americans.

INDOOR TRACK--UNM's other national champion came here, when senior Michael Solomon won the 600 meters at Detroit. He was third in the 440 yard dash and anchored a fourth place relay team. Thus he was the highest individual scorer at the NCAA Championships. Solomon also won the WAC Championship in the 600, the fourth year in a row he won that race, an unequalled accomplishment in the WAC. Teammate Sammy Kipkurgat, a freshman, doubled at the WAC, winning the 880 and the 1000 meters. The Lobos were third in the conference meet behind NCAA champ UTEP and Arizona State. Solomon was picked as an All-American as was 10,000 meter ace Lionel Ortega who was eighth at the NCAAAs.

SKIING--The Lobos again won the CIAL Championship, the sixth year in a row. Lobo Bill Nara won the downhill at the CIAL as well as at Flagstaff and was selected as an All American at the NCAA Championships.

OUTDOOR TRACK—The Lobos put on impressive individual displays all year, but team depth hurt. New Mexico finished fourth at the WAC meet but won two championships--the mile relay and Sammy Kipkurgat's title in the 800 meters. Michael Solomon was second in the 440 for the third year. Jeremiah Ongwae was second in the steeplechase. Freshman Peter Butler stunned the track world by winning the 10,000 meters at the Drake Relays and Lionel Ortega did the same by winning the 10,000 at the Texas Relays. A mistake in scheduling prevented the team from competing in the NCAA Championships.

BASKETBALL—A late season losing streak knocked the surprising basketball team out of a postseason invitation. The team finished 19-11 and was third in WAC play, contending to the final weekend. And only one senior was on the team. The Lobos won the Lobo Invitational Championship and made a run at eventual WAC champ Utah. Guard Michael Cooper was first team All-WAC and All District 7 in the NCAA. Forward Marvin Johnson, third in the league in scoring, was second team All-WAC and All District 7. Johnson had the third best scoring season in UNM history, averaging 19.8 points per game. Basketball drew 283,865, a school record and second only to Kentucky in the nation. The 283,000 broke the NCAA attendance record. Five of the crowds for the 1976-77 were among the top six crowds in UNM basketball history. Cooper was MVP of the Lobo Invitational and teammates Billy Reid and Johnson made the All-Tourney team.

BASEBALL—Vince Cappelli's first season ended with a third place finish in WAC Southern Division play. It was the ninth straight year the Lobos had finished third. Two Lobos, outfielder Steve Muccio and designated hitter Mike Delmonico made All-WAC. The Lobos went 32-20 overall and 7-11 in league play. That was the best WAC record in six seasons. The 32 wins was the third largest total in school history.

TENNIS—The Lobos were again fifth in the WAC Championships. A shoulder injury to WAC champ and All-American Tim Garcia severely hurt the team. Garcia, the winningest player in UNM history, was unable to defend his WAC single title that he has won twice. Senior Gary Wheeler advanced to the finals at his position, but had to settle for second place. Garcia was invited to the NCAA Championships, but was eliminated in the first round. The Lobos were 13-7 overall and champions of the Panhandle Invitational Tournament.

GOLF--The Lobos were again third in the WAC under Coach Dick McGuire, in his final season as head coach. Mitch Mooney, a sophomore, lost the WAC individual title by only one shot. He was All-WAC. Mooney also made All American. The Lobos did not make the cut at the NCAA Championships, although they were invited. Top individual finish for any Lobo was Mooney's second at the WAC.

There were other honors and accomplishments for UNM athletics. Athletic Director Lavon McDonald was selected to the Board of Directors of the College Football Association, a prestigious position with the powers of college football on the board. Gymnastics Coach Rusty Mitchell coached the U.S. team in the World University Games. Basketball player Dan Davis was picked to play on an international basketball team that travelled to South America. Sports Information Director Don McGuire won awards for Best Football Brochure and Best Football Program from the national sportswriters. The Lobo football pressbox was voted Best in the Nation by the Football Writers Association of America. Trainer Tow Diehm was selected the Citizens Savings Hall of Fame and was accorded the Legion of Honor Award by the National High School Coaches Association.

Plans were underway for the construction of the Lobo Tennis Club on the University's South Campus. UNM facilities continued to see heavy usage--over one million persons used UNM athletic facilities or viewed activities in athletic facilities in the school year 1976-77. Summary of UNM Athletic facilities use is attached and made part of this Annual Report.

WOMEN'S ATHLETICS

The University of New Mexico fielded nine women's intercollegiate athletic teams in the following sports; basketball, skiing, golf, gymnastics, swimming, tennis, track, volleyball and field hockey. The women's teams compete in the Intermountain Conference, which is composed of all eight WAC schools plus six other universities in the same geographical area.

The basketball team under Coach Kathy Marpe finished with an 18-6 record and 11-4 in the conference. The Lobo women qualified for the regional play-offs where they finished fourth. The young Lobos broke every offensive record in the book and scored over 100 points for the first time in the school's history.

The ski team, made up of both men and women, continued to dominate the Central Intercollegiate Ski League as the Lobos won their sixth straight team title. In the AIAW women's competition, UNM finished third in Regionals and sixth in the nation. Next year UNM will host the women's college nationals.

In coach Henry Sandles rookie year with the golf team the Lobo women took third place in Regionals. The Lobo team qualified for Nationals in Hawaii, but failed to place among the top teams.

The 1976-77 season was the first for the women gymnasts in Class I competition. It was an up and down year for Coach Claudia Thomas and the Lobos as they earned a 4-2 meet record, but failed to place in Regionals. The future looks bright for the Lobos however, as talented freshmen led the team. In the Western Hemisphere Games Dianne Frew and Joann Jost combined to place UNM second out of 18 teams invited from the western half of the United States.

Under Coach Rick Klatt the UNM swimmers battled their way to a fifth place finish in the Regionals.

It was a good year for the UNM tennis team as they defeated the University of Arizona for the first time in the school's history and went on to finish fourth in the Regionals. The Intermountain conference has long been dominated by Arizona schools. Playing some of her best tennis top seeded Therese Sullivan, the only Lobo to qualify for nationals, finished fifth, coming through the consolation bracket.

The first year cross-country team took fifth in the combined Intermountain-Big Eight Regionals and then went on to place tenth at Nationals. The track team finished second in the WAC Championships under Coach Barbara Butler.

The Lobo volleyball team continued to find competition in the Inter-mountain league tough. The UNM women were 1-10 in conference play, but the young team lost several close matches due to their inexperience.

This was the final year for field hockey as a lack of interest and competition forced UNM to drop this sport. Next year UNM will start a softball program, one of the most popular participation and spectator sports in the Southwest.

Although progress has been made in the effort to provide equal opportunities for women in athletics at UNM, the women's program still lags far behind the men's program, especially in the critical areas of scholarships, the provision of coaches and assistant coaches, salaries and travel funds.

Unless more aggressive action is taken to provide equality for women in athletics, UNM will be in serious trouble with the federal government because the deadline for compliance with Title IX is only one year away, July 1, 1978.

APPOINTMENTS TO STAFF

Bartosh, Gil	- Asst. Football Coach	-Jan. '77
Dykes, Spike	- Asst. Football Coach	-Mar. '77
Ford, Robert	- Asst. Football Coach	-Mar. '77
Griffin, Gary	- Grad. Asst. Football	-Apr. '77
King, Pat	- Asst. Basketball Coach	-Sept. '76
Klinker, Walt	- Asst. Football Coach	-Jan. '77
Knight, Dwaine	- Golf Coach	-June '77
Schimmer, Dorothy	- Sports Information	-Sept. '76

SEPARATION FROM STAFF

Anderson, Jim	- Asst. Football Coach	-Jan. '77
Hackett, Hugh	- Track Coach (Retired)	-June '77
Herrman, Charlene	- Sports Information	-Sept. '76
Huey, Eugene	- Asst. Football Coach	-Mar. '77
Klatt, Rick	- Swimming Coach	-May '77
McCray, Bob	- Asst. Football Coach	-Jan. '77
Newman, Jim	- Asst. Basketball Coach	-July '76
Quinlan, Beverly	- Women's Field Hockey Coach	-June '77
Wight, Del	- Asst. Football Coach	-Feb. '77
Wiley, Wanda	- Football	-June '77

UNM ATHLETIC FACILITIES
USE OF FACILITIES
May 1976 - June 1977

9

<u>FACILITY</u>	<u>EVENT</u>	<u>TOTAL PARTICIPANTS</u>	<u>TOTAL SPECTATORS</u>
Stadium	UNM Football - 5 games	850	108,441
Arena	UNM Basketball - 18 games	756	283,865
Lobo Field	UNM Baseball - 20 dates	1200	4,260
Tennis Courts	UNM Tennis - 8 dates	96	980
Swimming Pool	UNM Swimming - 2 dates	69	220
Stadium	UNM Track - 4 meets	250	5,290
Johnson Gym	UNM Wrestling - 7 matches	210	2,250
Johnson Gym	UNM Gymnastics - 4 matches	106	5,150
Arena	Japan Gymnastics - once	38	10,150
Arena	WAC Gymnastics - once	226	15,230
Golf Course	Tucket Tournament - once	280	1,450
Golf Course	NCAA Golf Championships - once	320	10,211
Golf Course	UNM Cross Country meet - once	30	50
Arena	UNM Women's Basketball - 12 games	320	1,011
Johnson Gym	UNM Women's Gymnastics - 4 meets	150	420
Johnson Gym	UNM Women's Volleyball - 14 games	420	350
JG Fields	UNM Women's Field Hockey - 13 games	780	2,000
Johnson Gym	All Indoor Intramural Sports		
JG Fields	All Outdoor Intramural Sports	46,956	11,500
Stadium	Intramural Track Championships - once	420	3,800
Stadium	NROTC Drills - many times	8,000	550
Arena	Lawrence Welk Concert	150	7,250
Arena	Albuquerque Symphony Orchestra	170	5,380
Arena	Sports Car Club races - many times	2,500	2,500
Arena	State High School Basketball - Tourney	1,020	55,780
Stadium	State High School Football Semis & Finals	250	14,950
Swimming Pool	Open use for swimming & Johnson Gym recreational use	239,942	7,000
South Fields	YAFL Games	6,500	11,600
Arena	Harlem Globetrotters	65	6,250
Arena	State Drill Team Championships	900	1,050
Arena	Cheerleading Clinic	600	2,000
Stadium	Special Olympics	750	2,500
Stadium	Handicapped Olympics	150	1,000
Arena	Youth Religious Conference	70	10,500
Arena	High School Graduations - 3	4,000	16,500
Stadium	American Legion July 4th	150	22,500
Stadium	AAA National Jr. Track	1,500	9,900
Arena	P.E.C. Concerts - 3	250	31,000
Donated Land	Little League Baseball	8,000	10,500
Lobo Field	Amateur Baseball	2,500	6,000
Arena	USA-Russia Basketball	75	6,800
South Fields	Youth Soccer	3,000	3,000
South Fields	Amateur Softball Practices	800	---
Stadium	UNM Women's Track - 3	180	2,500
Stadium	Women's High School Track - 3	220	4,000
Stadium	State High School Women's Track	190	8,500
Stadium	State High School Men's Track	215	11,900
Stadium	State H.S. All-Star Football Game	150	9,500
Arena	State H.S. All-Star Basketball Game	60	6,500
Arena	NMAA Board meetings - several	200	50
Arena	NMHS Coaches Assn.	75	---
Stadium	YAFL Playoffs	350	3,500

<u>FACILITY</u>	<u>EVENT</u>	<u>TOTAL PARTICIPANTS</u>	<u>TOTAL SPECTAT</u>
Johnson Gym	High School Graduations - 5	6,000	18,000
Arena	State Press Sportswriters Assn.	35	---
Arena	Training - Albq. Fire Dept. - several	500	---
Tennis Courts	Open Tennis to public	10,000	500
Tennis Courts	N.M. Open Tennis Championships	70	250
Golf Course	Albq. City Women's Golf Tourney	100	1,500
Golf Course	Albq. City Men's Golf Tourney	300	3,000
Golf Course	N.M. Motor Carriers' Assn. Tourney	200	100
Stadium	Track - jogging, etc.	2,000	---
Complex	Paddle Ball Courts - open public	500	50
Complex	Weight Room - non-UNM users	2,000	---
McDavid Room	APS Counsellors	70	---
" "	UNM Admission office	250	---
" "	Alumni Board	70	---
" "	BCMC Administration	50	---
" "	Medical School Alumni	20	---
" "	Purchasing - Bid Openings	20	---
Johnson Gym	P.E.C. Concerts - 3	150	10,500
Golf Course	Open to public play	40,000	---

TOTALS	470,118	780,488
UNM Athletic Dept.	6,281	452,828
Non-UNM Athletic Dept.	463,737	327,660
#Non-UNM Use	176,385	270,310

AVERAGE DAILY USE

Total	1287.99	2138.3
UNM Athletic Dept.	17.2	1240.6
Non-UNM Athletic Dept.	1270.5	897.6
#Non-UNM Use	483.2	740.6

PERCENTAGE USAGE

Total	100.0%	100.0%
UNM Athletic Dept.	1.0%	58.0%
Non-UNM Athletic Dept.	99.0%	42.0%
#Non-UNM Use	56.9%	34.6%

#usage by groups totally unconnected to UNM

DIVISION OF CONTINUING EDUCATION
AND
COMMUNITY SERVICES

Annual Report

1976 - 1977

DR. RUPERT A. TRUJILLO
DEAN



THE UNIVERSITY OF NEW MEXICO
Albuquerque, New Mexico 87131
Phone: (505) 277-2931

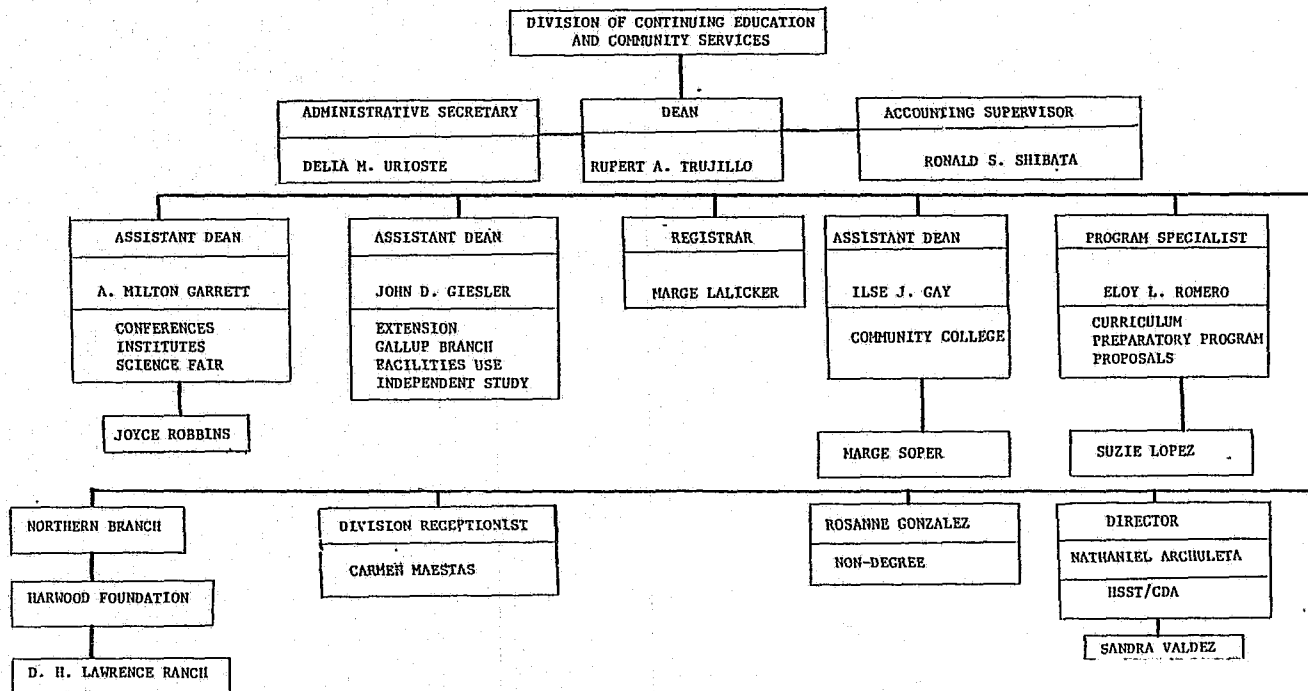
T A B L E O F C O N T E N T S

	Page
DEAN'S OFFICE REPORT	1
Organizational Chart	1
Personnel	2
University Continuing Education Committee	4
Student Enrollment (Past Four Years - Charts)	6
Office of Development	8
Branch Colleges	9
Harwood Foundation	12
Community Services and Technical Assistance On-Campus	13
Core City and Heights Continuing Education Programs	14
College Preparatory Program	15
University Center Program - BARC	16
Continuing Education in Nursing	16
UNM Law School	17
College of Engineering	17
Certification in Bilingual Education	18
Teacher Corps	18
Teacher Training for Two Year Colleges	19
Regional and Community Affairs	19
Community Services and Technical Assistance Off-Campus	20
New Mexico Department of Health and Social Services	20
Northern Consortium of Schools	20
Peanut Butter and Jelly School	21
Los Alamos Lab	21
Minority Groups	21
National Activities	22
New Direction	22
Reorganization	22
Non-Credit Programs (Certificate Programs)	23
Community College Issue	24
Gallup Branch College Accreditation	24
Facilities for the Division	24
Continuing Education Mathematics, Science and Engineering	24
COMMUNITY COLLEGE	25
BUREAU OF CONFERENCES, INSTITUTES AND SHORT COURSES	32

TABLE OF CONTENTS (continued)

	Page
GALLUP BRANCH	38
HEAD START SUPPLEMENTARY TRAINING/CHILD DEVELOPMENT ASSOCIATE PROJECT	58
NON-DEGREE STATUS	63
NORTHERN BRANCH	66
OFF-CAMPUS INSTRUCTION	69
Credit Classes	69
Independent Study Courses	75
Resident Credit Centers	80
NORTHWESTERN NEW MEXICO REGIONAL SCIENCE AND ENGINEERING FAIR	84
HARWOOD FOUNDATION	87

DEAN'S OFFICE REPORT



Personnel

Changes in personnel for 1976-77 are as follows:

New Employees, Replacements and/or Changes

Nathaniel Archuleta replacing Adrian Bustamante, August 1, 1976

Deborah Foster replacing Anita Navarrete, June 20, 1977

Carol Guerrero replacing Linda Webb, April 28, 1977

Patricia Hauser, Program Specialist III, August 2, 1976 changed to Program Specialist IV, September 6, 1976

Suzie Lopez replacing Patricia Spencer, October 1, 1976

Ann Nelson, Program Specialist III, August 23, 1976

Sylvia Ortiz, Administrative Aid, July 1, 1976 changed to Program Specialist III, October 6, 1976

Joyce Robbins replacing Danielle Johnston, June 20, 1977

Ronald Shibata changed from Administrative Coordinator to Accounting Supervisor, November 1, 1976

Marge Soper replacing Karen Schueler, June 6, 1977

Sandra Valdez, Clerical Specialist IV, August 1, 1976

Terminations and/or Resignations

Margaret Babcock, Clerical Specialist III, March 11, 1977

John Benton, Program Director, Civil Defense Program, September 30, 1976

Adrian Bustamante, Coordinator, Head Start Program, September 30, 1976

Maria Esquibel, Staff Secretary, May 13, 1977

Rebecca Greer, Clerical Specialist V, February 25, 1977

Danielle Johnston, Conference Coordinator, June 10, 1977
 Raelyn Leifeste, Clerical Specialist III, December 17, 1976
 Anita Navarrete, Clerical Specialist III, February 4, 1977
 Karen Schueler, Clerical Specialist V, June 3, 1977
 Phyllis Scott, Clerical Specialist III, October 15, 1976
 Patricia Spencer, Clerical Specialist IV, September 24, 1976
 Linda Webb, Clerical Specialist IV, April 15, 1977

D I V I S I O N S T A F F

Effective July 1, 1977, Division personnel consists of the following:

Rupert A. Trujillo
 Dean

Milton Garrett
 Assistant Dean

Ilse Gay
 Assistant Dean

John Giesler
 Assistant Dean

Nathaniel Archuleta
 Director, HSST/CDA

Marijo Fink
 Clerical Specialist III

Deborah Foster
 Clerical Specialist III

Rosanna Gonzalez
 Clerical Specialist III

Carol Guerrero
 Clerical Specialist IV

Patricia Hauser
 Program Specialist IV

Marge Lalicker
 Division Registrar

Suzie Lopez
 Clerical Specialist IV

Carmen Maestas
 Clerical Specialist III

Ann Nelson
 Program Specialist III

Sylvia Ortiz
 Program Specialist III

Joyce Robbins
 Conference Coordinator

Eloy Romero
 Program Specialist V

Ronald Shibata
 Accounting Supervisor

Marge Soper
Clerical Specialist IV

Delia M. Urioste
Administrative Secretary

Sandra Valdez
Clerical Specialist IV

Eva Valenzuela
Clerical Specialist III

UNIVERSITY CONTINUING EDUCATION COMMITTEE

The membership of the Continuing Education Committee comes from various academic departments. The functions and duties of the Committee, which are found in the Faculty Handbook, are as follows:

The Continuing Education Committee has responsibility for formulating and maintaining the general policies regarding branch campuses, continuing education programs throughout the state, the non-degree program, the independent study program, and the Community College. The Committee is specifically charged with the study of proper objectives of junior college level academic programs which are or may in the future be conducted by the University of New Mexico, and the kinds of academic curricula needed to achieve these objectives. The Committee shall also be concerned with the policy and scope of the community services programs of the University, as well as the operational policies of the University properties associated with the continuing education and community services programs, and other matters worthy of attention pertaining to the operation of the division. The Committee evaluates budgetary policy and operation of the division and advises the Vice President for Academic Affairs on these matters. It is also a function of the Committee to advise the President in regard to any new appointment of a Dean of the Division of Continuing Education and Community Services.

Membership for the 1976-77 Fiscal Year consisted of the following:

Phoebe Beckett - Nursing

Charles Biebel - American Studies

Laura Cameron - Mathematics

Mary Ellen Hanson - General Library

Patricia Murphy - Modern and Classical Languages

William Runge - Secondary Education

Don Schlegel - Architecture

Roland Watkins - Pharmacy

Ex-Officio

Paul Vassallo, Dean - Library Services

Robert Weaver, Dean - Admissions and Records

Karen Glaser, Vice President - Student and
Campus Affairs

John Perovich, Vice President - Business and
Finance

Rupert A. Trujillo, Dean - Continuing Education

Ilse Gay, Assistant Dean - Continuing Education

John Giesler, Assistant Dean - Continuing
Education

Milton Garrett, Assistant Dean - Continuing
Education

CHAIRMAN: Dr. R. Wayne Pace - Speech Communications

STUDENTS ENROLLED IN CONTINUING EDUCATION

TABLE I

1973 - 1974

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	5226		
Non-Degree	5374		
Gallup Branch	1616	1616	1616
Northern Branch	1804	1804	1804
Extension Classes Program	3118	3118	
Contract Extension Classes Program	210	210	
Conferences, Institutes & Short Courses	700		
Independent Study Program	456	456	
*U.S.A.F. Institute	200	200	
TOTALS:	18,704	7404	3420

*Contract expired June 30, 1976. No new enrollees as of June 30, 1974.

TABLE II

1974 - 1975

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	5644		
Non-Degree	6125		
Gallup Branch	2275	2275	2275
Northern Branch	2241	2241	2241
Extension Classes Program	2943	2943	
Head Start Training	295	295	
Conferences, Institutes & Short Courses	965		
Independent Study Program	356	356	
TOTALS:	20,844	8110	4516

TABLE III

1975 - 1976

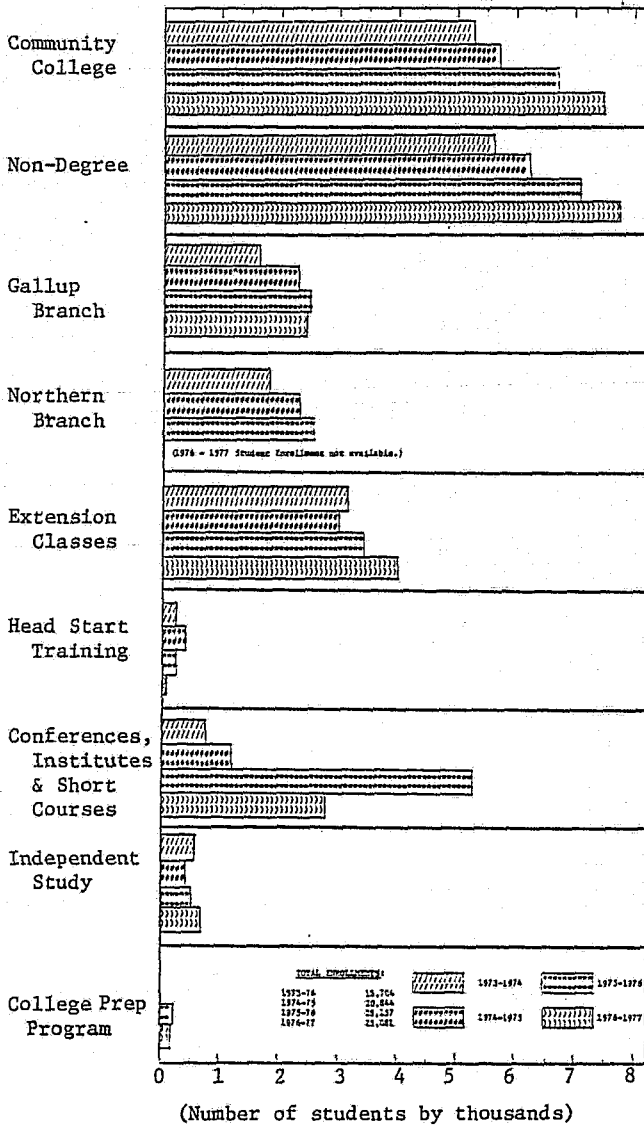
	# Students	# Off-Campus Students	# Branch Campus Students
Community College	6721		
Non-Degree	7165		
Gallup Branch	2495	2495	2495
Northern Branch	2489	2489	2489
Extension Classes Program	2988	2988	
Head Start Training	211	211	
Conferences, Institutes & Short Courses	5345		
Independent Study Program	400	400	
College Preparatory Program	343		
TOTALS:	28,157	8583	4984

TABLE IV

1976 - 1977

	# Students	# Off-Campus Students	# Branch Campus Students
Community College	7410		
Non-Degree	7667		
Gallup Branch	2377	2377	2377
Northern Branch	NOT AVAILABLE		
Extension Classes Program	3909	3909	
Head Start Training	56	56	
Conferences, Institutes & Short Courses	2750		
Independent Study Program	644	644	
College Preparatory Program	268		
TOTALS:	25,081	6986	2377

TABLE V



DEAN'S OFFICE REPORT

Since assuming the position of chief administrative officer of the Division of Continuing Education and Community Services a primary goal has been the development of a responsive posture to the non-traditional educational needs of the community through quality educational programs.

The Division had a number of well established programs: Community College providing non-credit courses, avocational and recreational courses; Extension and Independent Study providing credit courses; and Conferences and Institutes responding to the continuing education needs of professional members of our community. These programs provide the bulk of educational services requested by the community and generate the major portion of the revenue necessary to make the Division fiscally self-sustaining. These functions are adequate but not sufficient to respond to the ever-expanding number of requests for educational services, technical assistants, program development and increasing administrative responsibilities of the Division. The Office of Development under the dean was formed to expand administrative, developmental, programmatic, technical assistance and community service activities.

Staff assigned to the Development Office include one senior program specialist whose responsibilities are program development, grant writing, and administering newly developed programs; one program specialist serving as coordinator of developmental and

special programs; and one secretary working for the Business and Developmental offices. The Office of Development staff along with the business manager and the assistant deans report directly to the Dean who functions as chief administrative officer providing programmatic leadership and serving as primary interface with UNM administration colleges and departments.

The activities emanating from the Dean's office in consort with the Office of Development for the 1976-77 fiscal year are as follows:

BRANCH COLLEGES

The Division is administratively responsible for the University Branch Colleges. The Gallup and Northern Branch Colleges are scheduled for accreditation site visits by North Central in 1979. An initial review of the accreditation process and criterion utilized for accreditation revealed that both branch colleges had administrative and programmatic deficiencies. The following activities were initiated or conducted by this office to remedy these deficiencies.

Institutions of higher education are evaluated for accreditation on the basis of their stated mission. This office, working closely with administrators from the branch colleges and the University, drafted a document defining the role and function of the UNM Branch Colleges. The document was approved by the UNM General Faculty and by the respective Branch College Advisory Boards, and adopted by the UNM Board of Regents.

The accreditation process requires that the institution seeking

accreditation conduct and submit a self-study of the institution. Although the official self-study will not be conducted until Summer 1978, this office felt that it was necessary to conduct a preliminary self-study to determine major deficiencies. A preliminary self-study was conducted by Eloy L. Romero, Program Specialist. On-site evaluations were conducted by graduate students from the College of Education, Department of Secondary Education. The results disclosed deficiencies in administrative procedures, record keeping procedures, and in programs.

For example, the admission policy of the branch colleges was inconsistent with their stated mission. Utilizing the authority granted by the Board of Regents under the Role and Function of the Branch Colleges, a new admission policy for Gallup Branch College was written.

Complete faculty and student records were not available at the branch colleges because the official records were kept on main campus in Albuquerque. A new procedure for registration and record keeping has been established at Gallup.

The curriculum and programs offered at the branch colleges were found to be insufficient to meet their stated mission. The core curriculum necessary to complete the first two years of a transfer program was not available. All of the AA Degree Programs offered at the branch colleges were restricted to special populations and were offered by colleges on main campus under federal contracts. A core curriculum was identified and the Gallup Branch College

has expanded their offerings to include the recommended core curriculum.

The Role and Function of the Branch Colleges authorizes the Branches to offer existing UNM AA and AS Degree Programs upon approval by the appropriate college department. Permission was obtained for the Gallup Branch College to offer AA Degree Programs in Education, Recreation, Secretarial Studies and Community Services. These programs are scheduled to be offered during the 1977-78 academic year. Gallup had prior approval to offer the Physicians Assistance AA.

Adequate facilities for the programs being offered by the institution are of major importance in the accreditation process. The self-study pointed out that the available facilities at the branch colleges were inadequate.

The 1975 New Mexico State Legislature appropriated capital outlay funds for the Gallup and Northern Branch Colleges. The Division and the two branch colleges contracted with the Bureau of Educational Planning and Development (BOEPAD) to conduct a study of need as required by the legislation. The Gallup Branch College, utilizing this study and their plan for program development, prepared and received approval for the expendable capital outlay funds at the main campus at Gallup.

It would appear that only the Gallup Branch College received assistance and/or took steps to correct deficiencies identified in the self-study; however, the Northern Branch College was in a unique situation this past year which made it difficult for it to respond to the findings of the self-study.

In Summer 1976, the Board of Educational Finance initiated a study on the advisability and feasibility of merging the Northern Branch College and the El Rito Technical Vocational School into one comprehensive community college. The study and the negotiations to accomplish this took considerable time and effort on the part of the administrative staff at the Northern Branch College and staff from the Division.

In addition to the many meetings attended by staff from this office, an analysis of curriculum at the Northern Branch College and El Rito Technical Vocational School was conducted to determine the amount of duplication in curriculum and technical assistance on possible new programming was provided.

The two institutions were successfully merged by the 1977 New Mexico State Legislature into the Northern New Mexico Community College effective July 1, 1977.

Because the new institution did not become a legal entity until after the 1977 Summer Session started for the Northern Branch this office obtained agreement from UNM to enroll Branch students as UNM students for the Summer Session.

HARWOOD FOUNDATION

The staff time and effort expended on the Harwood Foundation this past year was also important and significant. The Harwood Foundation serves as the only public library in Taos County and the only public

gallery in Taos. It is administered by the Division.

The physical facilities of the Harwood Foundation have steadily deteriorated over the years. In 1974 serious consideration was given to demolish parts of the building. Through the effort of this office the University reconsidered that plan of action. It was hoped that funding could be found to renovate and preserve this beautiful and valuable property. A grant was written by this office and the University has now received \$352,000 from the Economic Development Administration to renovate the Harwood Foundation. This culminated a two year effort to obtain these funds. As of this writing, the renovation, which is expected to take one year, has started.

The renovation plans will expand the library and art gallery, provide a children's center and classrooms for educational activities for residents in the area.

COMMUNITY SERVICE AND TECHNICAL ASSISTANCE ON-CAMPUS

The Division of Continuing Education and Community Services serves as the interface between the community and the University. Each year the Division receives requests from public and private agencies and special interest groups for assistance in obtaining or developing educational programs from the University's colleges and departments to meet their needs. Conversely, the Division also receives requests from colleges and departments for technical assistance in developing and providing educational programming for special populations in the community. In both instances, it is a matter of providing technical

assistance and the appropriate interface. This office was involved in a number of these activities this past fiscal year.

Core City and Heights Continuing Education Programs

College credit courses were offered in downtown Albuquerque during the 1975-76 academic year and expanded to the heights area during the 1976-77 academic year. The Division had continually received requests from working adults for college credit courses to be offered in the evening. Private and public agencies requested that educational programs be offered for their employees at convenient times and locations.

A survey of educational needs of residents in the heights area revealed that the vast majority wanted and needed course work in the areas of business and management. A survey conducted last year in the downtown area revealed that these same types of courses were needed. The Division was not able to offer a program in this area because agreement could not be reached with the Business School. The program did offer 15 courses and enrolled 155 persons who by and large were government and private enterprise employees. The Division feels that its efforts in this area convinced the University of the need for more evening courses for the working adult. UNM has instituted a late afternoon and evening program for Fall 1977. As a result, the Division has discontinued its programming at the Core and Heights Centers.

College Preparatory Program

The College Preparatory Program was established during the 1975-76 academic year to assist students denied admission to remediate academic deficiencies and to assist students in improving their academic skills. Approximately 30% of the students in the program were students who were enrolled in regular status at UNM and had elected to take these non-credit courses.

The new UNM entrance requirements effective for Fall 1977, presented a new problem and a new student to the program. Students graduating after February 1977 and seeking enrollment at UNM for Fall 1977 had to meet subject matter requirements or be denied admission. The entrance requirements specified that students could remove these subject matter requirements by enrolling in the appropriate course with the Division. However, the Division had no courses to remove Natural and Social Science subject matter deficiencies.

A basic program of instruction in the four subject matter areas of English, Mathematics, Natural Science and Social Science was also under consideration. The program for basic instruction as proposed by Associate Provost Clinton Adams was not developed and in late February this office developed and submitted to the office of the Provost an expanded College Preparatory Program. The program as written was multi-purpose. It could be used as a program of basic instructions for students that were weak in academic skills but met entrance requirements; students that were not admissable to UNM under

the new entrance requirements; and students who wanted to refresh their basic academic skills. The program was approved and instituted for Summer, 1977.

University Center Program - BARC

In early 1976, the Economic Development Administration expressed concern that small businessmen in New Mexico had no way of availing themselves of University resources which might contribute positively to their development. At their request, a grant outlining a program to assist small businesses was written by this office and funded by EDA. The monies (\$199,533) established the Business Assistance and Resource Center. The program called for providing technical assistance to small businessmen in the state, utilizing resources from UNM's Business School, College of Engineering, Department of Economics and IARS. The Division provided workshops for small businessmen in the areas of business planning, income tax for small business, and financial management. The workshops enrolled 143 participants representing an almost equal number of small businesses.

Continuing Education in Nursing

The Division, at the request of the School of Nursing and the local hospitals expended considerable time developing a program of continuing education for nurses. Great need exists for a program which has proper scope and sequence. The need exists in the Albuquerque area as well as in outlying communities. Unfortunately, lack of "seed" money or expert staff prevents us from responding adequately.

A number of courses, however, are being offered and some new courses have been developed. Five of the courses have been written and are being offered through Independent Study to nurses throughout the state.

The need is sufficiently great and important that this office is seeking ways to expand the program and develop it as a permanent program of continuing education for nurses.

UNM Law School

The UNM Law School contacted this office for assistance in preparing a grant to expand their Clinical Law Program to Northern New Mexico. Technical assistance was provided and the grant submitted. The Law School also requested that if the grant was awarded that the Division assume major responsibility for administration of the grant so the Law School could concentrate on the instructional program.

College of Engineering

For the past two years this office has provided technical assistance to the College of Engineering on programming for ethnic minorities. This office has provided technical assistance to the College of Engineering in writing grants to obtain support for programs, assisted in structuring appropriate programs for special populations, and participated in their special summer programs.

This office also provided technical assistance to the Interagency Consortium for Continuing Education which is composed of Sandia, Kirtland, Los Alamos Laboratories, the College of Engineering,

UNM Media Center and the Division.

The goal of the Consortium is to develop a system for providing continuing education programs for personnel at the scientific laboratories in areas which meet their unique needs. The committee has prepared a formal proposal for the consortium and has submitted it to their respective agencies for approval.

Certification in Bilingual Education

The State Department of Education has adopted certification requirements for bilingual teachers. This office has provided considerable time, energy and resources with the intent of responding to these new regulations. Some 250 bilingual teachers in Albuquerque and some 50 bilingual teachers in the Chama Valley enrolled in summer courses, especially designed for them. This office has worked with the Department of Modern and Classical Languages in designing an appropriate language test in this regard. Extension and TV courses will be developed and/or implemented to respond to this need.

Teacher Corps

This office has also been actively involved in the Teacher Corps Project on this campus and at the national level. This office was involved in the writing of the Teacher Corps proposal that was awarded to the Northern Consortium of Schools with UNM identified as the cooperating institution of higher education. The program offered to participants was delivered through Extension and the Northern Branch College. This was an effort to provide more meaningful

education to teachers with an inservice model and prospective teachers through a companion pre-service model. Development of Curriculum at the national level has been a function of this office over the past three years.

Teacher Training For Two Year Colleges

This office wrote a grant and received \$100,556 from the U.S. Office of Education to support five fellows in an adult education graduate program at the College of Education and to conduct inservice training for current and potential instructors at two-year colleges. A summer institute was conducted Summer, 1976. The 1976 Summer institute enrolled 31 students.

The experience demonstrated that educators need continuing education to more effectively meet the educational needs of students especially in a multi-cultural community. The program also demonstrated the need for the preparation of instructors for two-year institutions of higher education.

The UNM College of Education, Department of Secondary Education, who co-sponsored the institute, has now established a degree program to prepare teachers of adults with an emphasis on two-year college instruction.

Office of the Associate Provost for Regional and Community Affairs

This office also provided technical assistance to the office of the Associate Provost for Regional and Community Affairs. The Associate

Provost requested that this office develop a plan for a general college within UNM.

A position paper and plan for a general college was prepared and submitted to the Associate Provost Alex Mercure. Further activity was suspended pending development on the Community College for Albuquerque.

COMMUNITY SERVICES AND TECHNICAL ASSISTANCE OFF-CAMPUS

The Division has a good reputation in the areas of non-traditional education for non-traditional and special population students. This office is called upon by public and private agencies to provide technical assistance in the development of non-traditional educational programs.

New Mexico Department of Health and Social Services

At the request of the New Mexico Department of Health and Social Services this office assisted in the development of an inservice training program for Health and Social Services Department. The technical assistance consisted of helping them determine the training needs of the department, prioritize these needs, and then develop a mathematics program which was offered to personnel at the Gallup-McKinley and San Juan regional offices of HSSD.

Northern Consortium of Schools

This office continues to provide technical assistance to the Northern Consortium of Schools in identifying educational needs,

writing programs, and writing grants. A number of extension courses have been set up to respond to their inservice needs for teachers, teachers' aides and administrators.

Peanut Butter and Jelly School

This is a community school (located in the Southwest Valley) for handicapped students. Students ages 6 months to 6 years are taught/cared for at the school. Parental involvement is an integral part of this program. This office has been providing technical assistance and courses for three years. The Dean served as Chairman of the Board until this past May.

Los Alamos Lab

The Lab has great need for continuing education. A number of requests were directed to this office; therefore an Ad Hoc Committee for Continuing Education was formed. This office served to provide technical assistance which resulted in the Northern Branch and LASL working closely together to address continuing education needs. This office will continue to work with these groups and will make CEU's available for their programs.

Minority Groups

Several minority groups and individuals throughout the state request assistance and consultation from this office. This office, for example, provided assistance and consultation to the AMIGOS in Torrence County, COPAS in Santa Fe, the Ad Hoc Hispanic Committee in Support of a

Comprehensive Community College in Albuquerque, etc.. In addition, the Division participated in the President's Minority Concerns Committee and organized and conducted the Minority Concerns Committee Workshop conducted during 1976 Summer session.

National Activities

The Dean of the Division participates in a number of national policy and advisory boards that set direction and policy in the area of education.

Some of the activities include:

1. Member of the Time and Site Committee of NUEA
2. Member committee on the future of NUEA
3. Chairman Region VI of NUEA
4. Special advisor to Teacher Corps for curriculum development
5. Member of Review Committee for Applied Management Sciences, Children's Television Workshop and University of Maryland. These groups combined will produce 20 half-hour television shows on parenting.

NEW DIRECTION

In the coming year the Division will continue these efforts and under new business will give high priority to the following areas:

Reorganization

The internal administrative and operational structure of the Division has been under evaluation. The steady increase in enrollment makes it necessary for the Division to consider more effective ways

to handle the increased student load. The continual requests for more services forces us to consider an alternative administrative structure if we are to maintain our responsive posture. We anticipate that the administrative and operational structure of the Division will be reorganized during Fiscal Year 1977-'78.

Non-Credit Programs (Certificate Programs)

The educational needs of the residents in the Albuquerque area are often better served by non-credit programs. The surveys conducted by this office and information from the general public indicates that this is especially true for educational programs in the area of business and management. This office, therefore, has initiated development of a number of non-credit certificate programs in the area of business and management.

The first such program to be developed is the Management Certificate in Radio Broadcasting. The program was developed at the request of and with the assistance of the Albuquerque Radio Broadcasters Association. The first course of a series of five required courses will be offered at the start of the Fall semester. We anticipate that at least one additional certificate program will be ready for Spring semester.

All new certificate programs offered by the Division will be required to conform to newly established guidelines as to rationale, concepts to be taught, goals and objectives, activities, and criterion checks (evaluation). Each course will meet for forty hours of instruc-

tion and the instructor must have had some practical experience with the subject matter being taught.

Community College Issue

The proposed community college for Albuquerque will have a significant impact on the Division. The Division is committed to the concept of a comprehensive community college and will assist in its development in any manner that it can. Its experience in administering the branches and in assisting with the merger up north should be of value in developing a community college in Albuquerque.

Gallup Branch College Accreditation

The accreditation of the Gallup Branch College is a high priority of the Division. The Division, therefore, will vigorously pursue the development of proper procedures and documentation for that institution.

Facilities for the Division

The Division is in dire need for adequate facilities for its administrative offices and for conducting its housing programs. Thus, this issue will continue to be raised.

Continuing Education Mathematics, Science, and Engineering

The Division hopes to provide a significant effort in developing and offering a comprehensive program of continuing education in this area. We hope that the Interagency Consortium for Continuing Education will provide the vehicle for accomplishing this.

COMMUNITY COLLEGE

COMMUNITY COLLEGE

After a period of rather rapid growth from 1972-73 to 1975-76, enrollments in the Community College program appear to have stabilized. Chart I shows the longitudinal statistics on enrollments over a four-year period.

Chart I

Enrollment Statistics, 1972-1977

	<u>Total Enrollment</u>	<u>UNM Waivers</u>	<u>Senior Citizens</u>
Sem. II 1972-73	2,169	316	NA
Sem. I 1973-74	2,486	205	NA
Sem. II 1973-74	2,746	242	NA
Sem. I 1974-75	2,919	237	65
Sem. II 1974-75	3,243	282	89
Sem. I 1975-76	3,804	320	83
Sem. II 1975-76	3,690	414	120
Sem. I 1976-77	3,869	416	106
Sem. II 1976-77	3,541	411	117

The number of courses offered, as shown on Chart II, has also remained fairly constant and probably will continue to do so until additional facilities are found in which to hold Community College classes. Traditionally, most Community College classes have been held on the main campus in those classrooms which have not been scheduled by departments for regular credit offerings. However, as the University increases its scheduling of evening credit classes,

and the parking situation becomes more acute, Community College has been faced with a variety of problems which affect the size of the program and, ultimately, enrollments. Evaluation forms received from students consistently refer to the difficulty of parking in the evening and, increasingly, cite the parking situation as a reason for failure to attend classes, or as a deterrent to future enrollment.

Chart II.

Course Information, 1972-77

	<u>Number of Courses Offered</u>	<u>Number of Sections Offered</u>	<u>Number of Courses Cancelled</u>
Sem. II 1972-73	98	89	23
Sem. I 1973-74	92	97	15
Sem. II 1973-74	97	105	9
Sem. I 1974-75	87	110	4
Sem. II 1974-75	110	124	19
Sem. I 1975-76	106	135	11
Sem. II 1975-76	120	138	16
Sem. I 1976-77	110	131	14
Sem. II 1976-77	119	135	17

Thus, it is clear that the size of Community College programs will continue to remain stable until adequate off-campus facilities can be located, and acceptable negotiations made for their use. A major source of facilities are those of the Albuquerque Public Schools. The cooperation of individual principals has allowed Community

College to offer many courses which could otherwise not be scheduled. (Particular mention should be made about the cooperation from Cibola High School. Two classes were scheduled there during the Spring semester; ten courses will be offered in the Fall of 1977-78. The strategic location of Cibola High School, which serves the Paradise Hills, Rio Rancho and Corrales communities, has great potential for extending the Community College program.)

A. During the 1975-76 year, 65 new courses were offered. Many of them were extremely popular: Tracing Your Family Tree; Tennis; Writing for Publication; Cuisine Francaise; Creative Drama-Community Theatre; Invitation to Philosophy; Personal Architecture; and the Home Maintenance Series, which consists of three, four week courses in home maintenance basics, plumbing and electrical repairs, and handtool carpentry. Examples of new courses which were cancelled due to a lack of interest were Planning for Retirement; Women's Life-Women's Work; Sex Education in the Family; Portuguese; Bullfighting; Detective Fiction; and Hunter Safety.

B. The past two annual Community reports have commented on the unique course Historic Archeology: Field Session. It should be noted that Rancho de Carnué; originally excavated by students in this course, was recently placed on the National Registry as an historical site. Excavations behind the Basket Shop in Old Town are continuing, and in late Spring a crew from Sunset Magazine photographed the site extensively for inclusion in a future issue.

Each semester Community College is fortunate in receiving assistance from various individuals, organizations and departments in coordinating special classes which are usually offered at a minimal fee. The most outstanding example of this kind of cooperation is between Community College and the Junior League of Albuquerque in presenting The Story of Albuquerque each semester. This course, which attracts approximately 250-300 persons a year, includes programs and field trips which cover many phases of New Mexico history and current Albuquerque issues. Other courses planned with the help of non-staff members last year included a course in Appraising, sponsored by the American Society of Appraisers; Estate Planning, coordinated by vice-presidents of the First National Bank; a course in Heart Attack! and another in Cancer! which were offered by members of the departments of Cardiology and Pathology; the annual Spring course in Legislators, Lobbyists and Laws, sponsored by the League of Women Voters; and the Great Decisions program in cooperation with the Foreign Policy Association.

C. Student Profile

The addition of another year of statistics on Community College students (see Chart III) has changed the profile very little. There was a slight increase in male students; the under -26 age group continues to grow smaller, while the age of the average Community College students continues to increase. Chart IV shows detailed information about the age, sex and educational levels of Community College students during 1975-76.

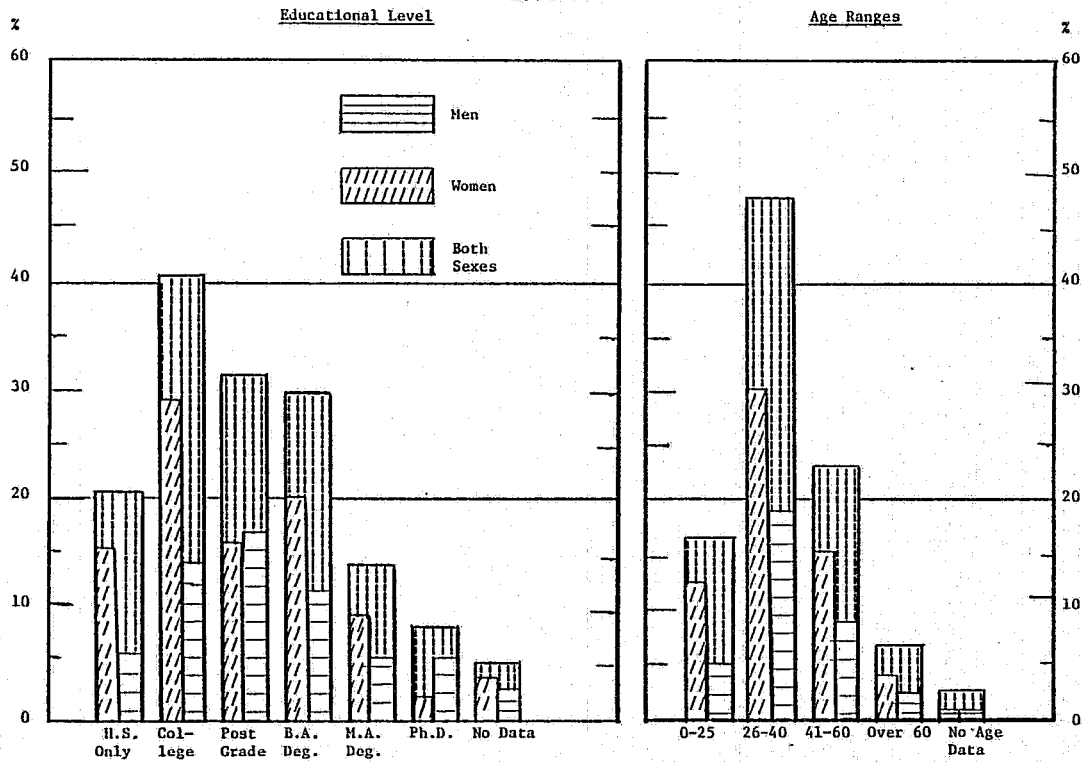
Chart III

Profile of Students from Semester I, 1974 to Semester II, 1977

	I, 74	II, 75	I, 75	II, 76	I, 76	II, 77
Males	922 (.36)	899 (.36)	981 (.32)	1,253 (.36)	1,105 (.33)	1,262 (.38)
Females	1,568 (.62)	1,483 (.59)	1,910 (.62)	2,165 (.62)	2,173 (.65)	1,996 (.60)
Under 26	536 (.21)	482 (.19)	586 (.19)	610 (.18)	635 (.19)	552 (.17)
26 - 40	1,136 (.45)	1,088 (.43)	1,322 (.43)	1,659 (.48)	1,573 (.47)	1,642 (.40)
41 - 60	586 (.21)	618 (.24)	743 (.24)	880 (.25)	806 (.24)	832 (.24)
Over 60	95 (.04)	132 (.05)	165 (.05)	212 (.06)	188 (.06)	188 (.06)
Average Age	35.1	36.5	36.4	36.7	36.4	36.8
HS - No College	473 (.19)	439 (.17)	598 (.19)	649 (.20)	702 (.21)	683 (.20)
College	1,299 (.52)	984 (.39)	1,302 (.42)	1,431 (.41)	1,399 (.41)	1,325 (.40)
Postgraduate	414 (.16)	643 (.25)	810 (.26)	1,109 (.32)	997 (.30)	1,121 (.34)
Bachelors	626 (.25)	645 (.26)	918 (.30)	1,018 (.29)	997 (.30)	1,038 (.31)
Masters	244 (.10)	251 (.10)	291 (.09)	444 (.13)	391 (.12)	462 (.14)
Ph.D.	146 (.06)	158 (.06)	187 (.06)	253 (.07)	249 (.07)	302 (.09)

Chart IV

Profile of Community College Students
1976-77



D. Certificate Programs

The Community College again offered three certificate programs-- Real Estate, Small Business Operation, and Social Service Technician. Total enrollment in these programs increased 42% over the past year. The greatest increase was shown in the Real Estate and Small Business programs. This appears to indicate an increased interest in career-oriented programs.

The 1977 New Mexico Legislature passed legislation mandating education requirements for those taking the real estate sales examination and the real estate broker examination necessary for licensing. The legislation also established additional education requirements for sales and broker license renewals.

In an attempt to meet the needs of the real estate industry for continued education requirements and the interest demonstrated by increased certificate program enrollments, a great deal of staff time has been devoted to certificate program development for next year. Instructors, students, and professionals working in the certificate program areas have been extremely helpful in the evaluation of the current program and in the development of the program for next year.

BUREAU OF CONFERENCES, INSTITUTES AND SHORT COURSES

BUREAU OF CONFERENCES, INSTITUTES AND SHORT COURSES

The Bureau of Conferences and Institutes, hereinafter known as the Bureau, completed its second year of operation. The second year demonstrated that a definite need exists within the University community for an organized group to publicly deliver non-credit adult educational programs for all professional sectors.

A critical need for appropriate Continuing Education facilities was once again vividly pointed out. The Division's as well as the Bureau's responsive posture has generated a great volume of activity; however, lack of facilities forced the Bureau to say no in too many instances. Three major functions plus a number of smaller functions were turned away. Examples: The Society of Real Estate Appraisers out of Chicago needed facilities for eight sections of a course for appraisers. We tried the first of the eight course series. Facilities proved to be so unsatisfactory that the other seven courses were called off. This activity would have brought four to five hundred individuals to our community. Some \$369,600 would have been brought to the community and UNM could have realized \$30,000 to \$65,000. This activity could have been requested for a number of years.

The National Teacher Corps desired to conduct their National Corps Member Training Institute on our campus. Some five-hundred individuals would have attended a five week training session. The economic impact on the community would have been well over one million

dollars with UNM making about \$45,000 to \$50,000 plus other fringe benefits.

The Houghton-Mifflin Publishing Company selected UNM as a site for a one-week short course for approximately one-hundred teachers and administrators from the Western part of the United States. This activity would have generated some \$192,500 for the community and \$5,000 to \$8,000 for UNM.

The National Conference of Professors on Educational Administration asked us to hold a seven-day conference for three-hundred to three-hundred-sixty persons. We could not do so; the city lost about \$243,936 and UNM lost \$27,000.

In summary, UNM's Division of Continuing Education and Community Services turned down some \$107,000 to \$150,000 in revenue in these four events alone.

Eight other major events were not booked due to either to close a time commitment, went around policy or wanted free services. The value of UNM Continuing Education losses are estimated to be about \$45,000. Thirty-five to forty other inquiries were made for services but for various reasons services were not provided.

The College Inn

In an effort to respond to respond to the facilities crunch, the Bureau experimented with the College Inn for a full year. This proved to be unsatisfactory for a number of reasons. As of this

writing, UNM's Division of Continuing Education and Community Services has a standing offer from the Hilton Inn to move its total operation into the Hilton. Unless UNM finds a method of responding to Continuing Education facility needs, the Hilton may be the only tangible option.

At the same time, UNM's School of Architecture and The Planning's Design Group worked through the 1976-77 Spring semester on a master plan for a Continuing Education Center. This planning will continue during 1977-78.

The Continuing Education Unit

A major new development occurred this year bringing The University of New Mexico into national prominence. Several years ago thirty-four organizations, including the U.S. Office of Education, created a record keeping system called the Continuing Education Unit (CEU's). Over six-hundred universities and colleges presently offer the CEU's but only five in the United States do so in a fashion as sophisticated as having the course description/objectives printed on an official university transcript which is created by a computerized system. An automatic letter of notification is also part of the output. The University of New Mexico is one of these universities and the only one West of the Mississippi, through the cooperation of the University of West Virginia, doing so.

The computerized record keeping system was put into force in January, 1977. An eleven line descriptor of each course can be

printed on the transcript and cumulative records of each individual is stored, retrieved and authenticated as an official transcript at the request of the recipient. UNMCE added on additional dimension to the record keeping system that heretofore has not existed. The U.S. Office of Education's HEGIS category course number is printed with each course descriptor as it appears in the free transcript as well as on the automatic letter of notification.

It is hoped that the strength of design and authentication of an approval committee will permit all professional societies and sectors to recognize The University of New Mexico's CEU program as being equal to or greater than their own system. Since it is desirous at the national level to avoid having double records of CEU's for recertification purposes, it is hoped that said societies will utilize UNM's system and recognize the built-in reciprocity feature with the HEGIS numbering system.

The Year Activities

The following page is a listing of activities of the Bureau.

MONTH	TITLE	REGIS	ATTENDANCE COUNT (Participants - Instructors - Total)		
(1976)					
July 11-16	Medical Legal Investigation of Death	2199	91	6	97
July 15-16	In-Situ Processing: Coal and Oil Shale	0906	27	13	40
July 19-20	Parhology Assistant Short Course	5501	20	4	24
July 23	ASTD Third Annual Film Festival	0506	47	1	48
August 3	U.S. Office of Civil Rights Workshop	2104	144		
August 6-8	National Education Task Force de la Raza	0807	23	1	24
August 9-27	National Teacher Corps Conference				Cancellation due to lack of facilities
September 7 -					
December 11	Pueblo Indian History	2205	32	1	33
September 9	Environmental Protection Agency Seminar	2101	42	2	44
September 15 -					
November 7	Introduction to Construction	0908			(Women in Construction Association)
October 1-2	First Annual Family Counseling Seminar	0826	142	1	143
October 2 -					
December 4	Transit Set-Up for Iron Workers	5317	8	1	9
October 3	Special Education for the Regular	0809	12	1	13
October 9	Priorities on Minorities - UHM	0805	129	8	137
October 12	Political Science Legal Services Seminar	2207	36	1	37
October 22 -					
November 5	Exploring Early Childhood Inservice Workshop	1305	46	3	49
October 29-30	Photogrammetry for the User	5309	34	4	38
October 30	Preparation for Civil Service Exam	2199	28	1	29
November 5	ASTD Personnel 1985: Human Development	0515	69	1	70
December 4 -					
April 11	Medical Terminology for Medical Assistants	5205	83	1	84
December 6-9	Basic Tax Practitioners Short Course	0500	34	2	36
December 13-16	Intermediate Tax Practitioners Short Course	0500	80	2	82
December 9 -					
March 7, 1977	Ethnology: Biology of Behavior	499	30	2	32
(1977)					
January 3-5	Microelectronics Symposium	0909	130	1	131
January 5 -					
May 25	Teaching Effective Learning		16	1	17
January 7-8	Second Annual Land Surveyors Legal Seminar	1499	142	6	148
January 17-21	Construction Foreman Training Course	0599	27	2	29
January	Teacher Corps Conference Potential	0807			
January 19-	Training Supervisors in Spanish Education				
May 11	Student Teaching	0809	9	1	10
February 1-5	Neuro-Psychology Workshop	2003	102	12	114
February 1-25	Health Program, Management Administration	1202	15	3	18
March 1-17	Fee Collections Systems: Health Program (Santa Fe)	1202	46	2	48
March 20-23	Fourteenth Annual Engineering Deans Institute	0807	152	7	159
March 30	Fee Collections Systems: Health Program (NMSU)	1202	32	2	34
March 31 -					
April 1	Child Abuse and Neglect Workshop	0808	27	2	29
April 5-7	Motor Fleet Supervisors Training Course	0510	30	2	32
April 6-8	Community Mental Health	1202	36	1	37
March 19 -	The Professionals, Laymans Almost Complete				
May 16	Guide to Advertising	0509	33	16	49
April 23	NMSHA Curriculum Workshop	0837	72	4	76
April 30	Preparation for Civil Service Exams	2199	48	1	49
May 2-4	Rehabilitation: What Part Corrections	2209	33	4	37
May 5	Media Production Workshop	0605	21	2	23
May 6	Executive Briefing: Energy Conservation for				
	the Desert Southwest Homes	5301	44	8	52
May 11-14	Effective Coping with Difficult People	0515	133	1	134
May 16-17	Relaxation: Eleven Ways to Let It Loose	1203	39	10	49
May 17-19	Professional Education Organization (PEO)	0807	160	4	164
June 6	Solar Data Users Workshop	0912	48	7	55
June 6	Energy Conservation Code Seminar	5508	136	5	141
June 7	Medical Terminology	5205	48	1	49
June 10	Bilingual Math	0833			Cancellation due to poor facilities
June 13	Dance Workshop: Folk Rhythms	0835			Cancelled
June 16-17	Organizational Communication	0505	14	1	15

Comparing Fiscal Year 1975-'76 with Fiscal Year 1976-'77 a number of differences are noted (see also Table IV, Page 6).

A total of thirty-eight separate activities were conducted during Fiscal Year 1975-'76 with a total of 5,345 participants. During Fiscal Year 1976-'77, fifty-one activities were conducted with a participant count of 2,750.

This decrease was, in part, caused by having fewer clients with a large conference attendance as seen in the 600 and 700 person type conferences brought by Senator Pete Domenici and the Geology Department a year ago. The largest group hosted this year was 159 persons versus 791 persons a year ago. Population density at Bureau events are largely dependent upon the association selecting UNM for services.

GALLUP BRANCH

GALLUP BRANCH

Calvin O. Hall, Director

Staff and Faculty

Changes in Faculty and Staff for 1976-77 are as follows:

Ms. Marty Giovanetti Merritt, Student Services, resigned on 6/3/77 and was replaced by Ms. Diana Stone; Ms. Carol Hodson, Learning Resources Center, resigned on 8/30/76 and was replaced by Ms. Frances Thompson on 9/20/76; Ms. Karla Pierce, Nursing Program, resigned 5/15/76 and was replaced by Ms. Judy Boyd on 8/3/76. Ms. Boyd resigned 3/18/77 and was replaced by Ms. Shawna Reson 3/28/77. Lee Martinez, Custodian, resigned 12/17/76, the position was not filled on a full-time basis. Ms. Loretta Quintana was added to the staff 9/3/76 as switchboard operator, clerk/typist. Cordelia Dempsey was employed 2/2/76 on a part-time basis as the Crownpoint Satellite Center Coordinator. Faculty resignations were received from John William Farish, Learning Resources Center Director, effective June 30, 1977, his position has not been filled as of this date. Ms. Bonnie Hill, Acting Director of Nursing, resigned her position 12/29/76 and was replaced by Ms. Sandy Rowan as Acting Director of Nursing. Ms. Rowan resigned 6/1/77 and will be replaced by Ms. Catherine Jenkins 7/1/77 as Nursing Director. Ms. Cindy Ostrowski, Lecturer II, Nursing Program, resigned her position 1/31/77. Ms. Betty Jo Robinson, Lecturer I, Nursing Program, was

employed 8/2/76. Ms. Camilla Hugunin, Lecturer II, Nursing Program was employed 8/2/76 and resigned 5/16/77. Calsue E. T. Murray was employed as Program Director for Adult Basic Education on 7/1/76. Priscilla Schulte was employed 7/1/76 as a Lecturer II, Adult Basic Education and Alcohol Related Offenses. Glenn Wilson was employed 7/1/76 as a Lecturer II, Adult Basic Education, and resigned effective June 30, 1977. The position was not filled on a full-time basis.

The staff members effective July 1, 1977 are:

Mr. Calvin O. Hall	Director
Mr. Boyce Russell	Assistant Director Student Services
Mr. Joe Gill	Coordinator, Community Service and Continuing Education
Ms. Jane Rucker	Accounting Technician
Ms. Gail Eastridge	Secretary to the Director
Ms. Diana Stone	Secretary to the Assistant Director - Student Services
Ms. Georganne Mellen	Library Technician
Ms. Shawna Reson	Nursing Program Secretary
Ms. Fannie Baker	CSCE Secretary
Ms. Janet Trammell	Business Office Clerical Specialist
Ms. Loretta Quintana	Switchboard/Clerical Specialist
Mr. James Ferguson	Maintenance

Faculty

Dr. Emerine Glowienka	Associate Professor, Sociology and Philosophy
Mr. Alan Wilson	Assistant Professor, Modern Language
Ms. Kaye Wilson	Assistant Professor, English
Dr. Catherine Jenkins	Associate Professor, Director of Associate Degree Nursing Program
Ms. Linda Appleby	Lecturer II, Associate Degree Nursing Program

Ms. Betty Jo Robinson

Lecturer I, Associate Degree
Nursing Program

Ms. Mickee Mickelsen

Associate Professor, Navajo Youth
Health, Physical Education and
Recreation

Dr. Altha Crouch

Assistant Professor, Health,
Physical Education, Recreation

Mr. Robert Bell

Lecturer II, Anthropology

In addition, the Branch employees twenty-two part-time Lecturers.

Enrollment Data: 1976-1977

In its ninth year the Gallup Branch has continued its enrollment increase. The enrollment data for 1976-77 is as follows:

<u>SEMESTER</u>	<u>HEAD COUNT</u>	<u>FTE</u>	<u>YEARLY FTE</u>
Summer	638	178	
Fall	825	346	
Spring	914	355	440.0

The total credit hours for 1976-77 are listed below:

Summer	2,679
Fall	5,198
Spring	5,336

Age statistics for 1976-77:

<u>SEMESTER</u>	<u>AVERAGE AGE</u>	<u>AGE RANGE</u>	<u>MARRIED</u>	<u>SINGLE</u>	<u>MEN</u>	<u>WOMEN</u>
Summer	31.47	16-80	369	269	162	476
Fall	31.70	16-69	349	349	272	553
Spring	29.80	17-79	536	378	249	620

Statistics for the total years of operation are graphed on Tables I and II. Table III is a graph of the Indian/Non-Indian enrollment for 1976-77:

<u>SEMESTER</u>	<u>NON-INDIAN</u>	<u>INDIAN</u>	<u>PERCENTAGE INDIAN</u>	<u>TOTAL</u>
Summer	257	381	59.72	638
Fall	381	444	53.70	825
Spring	468	446	49.00	914

TABLE I
Total Yearly Enrollment

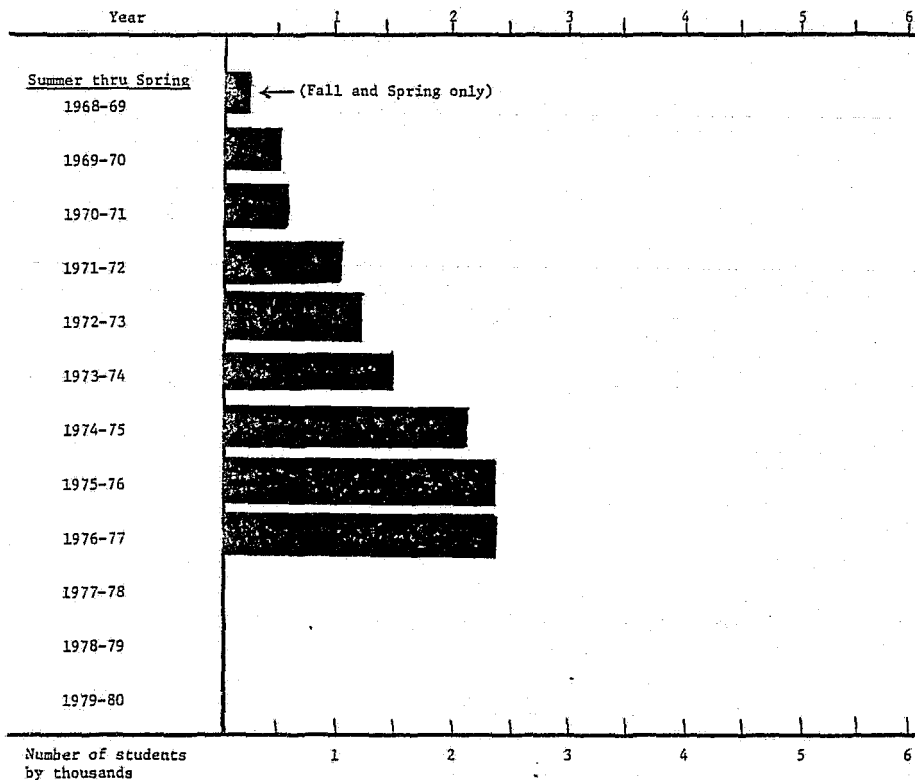


TABLE II
Total Yearly FTE

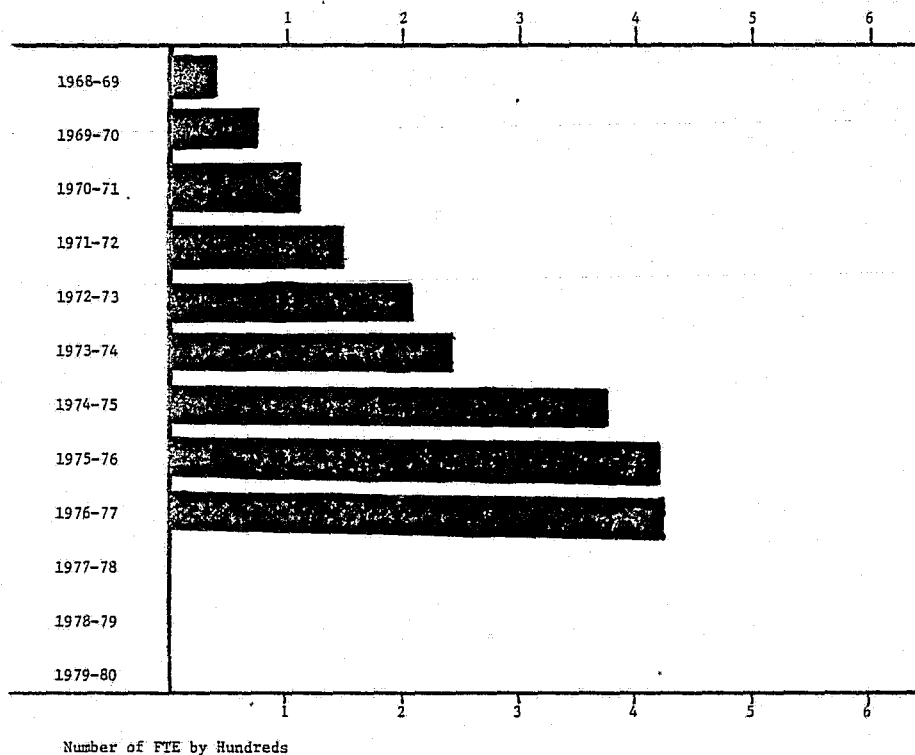
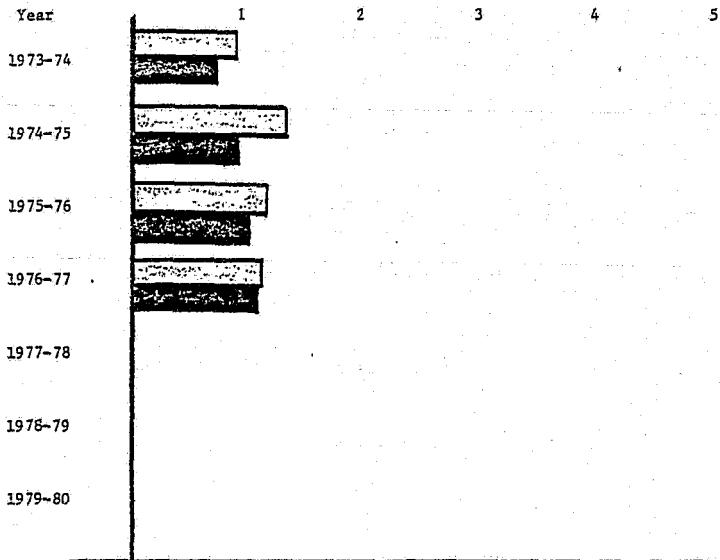


TABLE III

Total Indian - Non-Indian Enrollment

Number by Thousands



KEY:

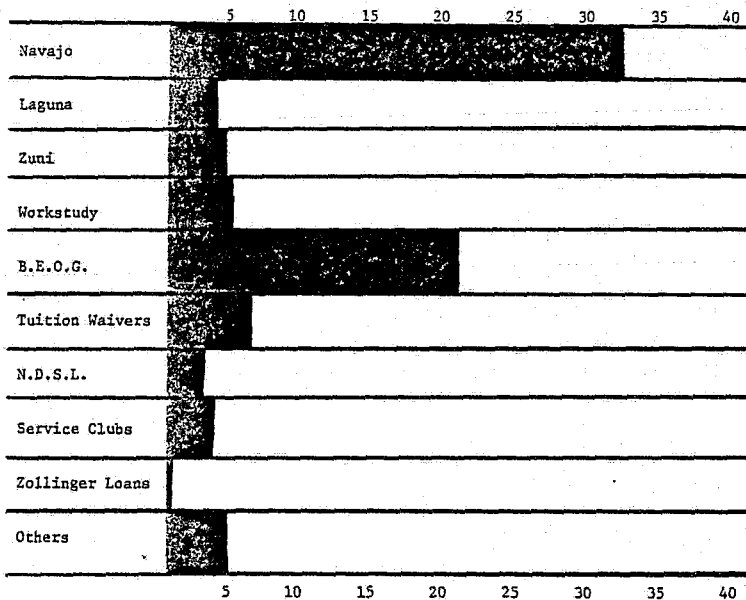


Indian Enrollment

Non-Indian Enrollment

NOTE: Does not include upper division on-site programs.

TABLE IV
Financial Aids Report
1976-77 Fall and Spring Semesters



Number by 5 thousands

Total: \$107,275.00

Note: 200 Vets attended the Gallup Branch College for the Fall and Spring Semesters 1976-77.

The Navajo Youth HPER Program

The Navajo Youth Health, Physical Education and Recreation (NYHPER) Project was initiated in 1972. It was an attempt to deliver a comprehensive health, physical education, and recreation summer program to remote areas of the Navajo Nation. Another important goal is that of providing training and learning experiences for Native Americans so that they may enter into leadership roles in recreation. Since 1972, the Project has demonstrated rapid growth in its scope and services. Funding is provided by the Bureau of Indian Affairs through a contract with the University of New Mexico.

During the 1976-77 project period (October-September), NYHPER held 38 clinics and workshops in remote areas of the reservation. These clinics included: basketball, directed by Julianne Simpson; volleyball, softball, baseball, gymnastics, arts and crafts, wrestling, officiating, swimming and music. Approximately 900 dorm aides, teachers, and children participated in these clinics.

The 1977 summer program includes 27 project sites over a 25,000 square mile area, representing an area larger than the State of Virginia. Project employees are drawn, for the most part, from project sites or returning Navajo college students. Project employees are trained in summer workshops in sports and games, swimming, and arts and crafts. These workshops may be taken for credit. Navajo Youth HPER employees serve a daily average of

1,500 children.

Publications for 1976-77 include, Health, Physical Education and Recreation Program For Navajo Youth, a comprehensive manual and source book for each participating school, also a small story book written by Navajo's in cooperation with Navajo Parents Committee, Dilcon Boarding School, Winslow, Arizona.

A beginning music program is currently being held at each participating school as well as three final track and swimming meets, plus two area arts and crafts exhibits.

Satellite Classes

The Gallup Branch has conducted classes at various sites in Gallup-McKinley County. The two major satellite areas consist of Crownpoint and Zuni with classes also being held at Ramah, Thoreau, Navajo, Tohatchi, Fort Wingate, Twin Lakes and Pueblo Pintado. These programs were in addition to the Teacher Education Center programs at various locations on the Navajo Reservation. The Branch has worked cooperatively with UNM's College of Education in the delivery of on-site Teacher Education programs.

Students registered at the satellite centers traveled as far as 50 miles one way to attend classes. These satellite centers continue to grow and serve the needs of the people of McKinley County.

Library

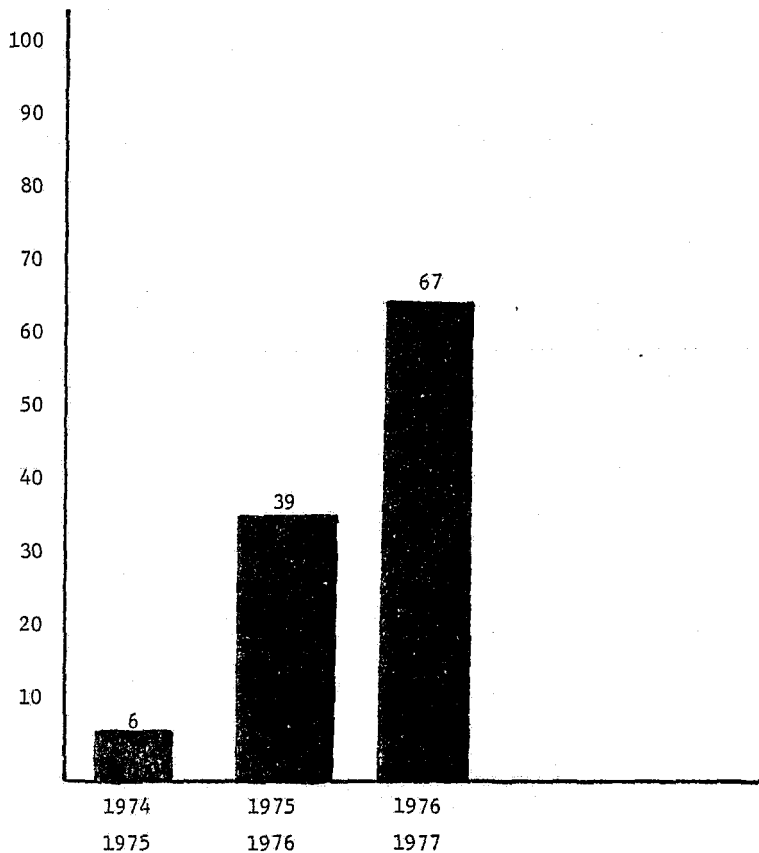
The library made progress in centralizing video tape

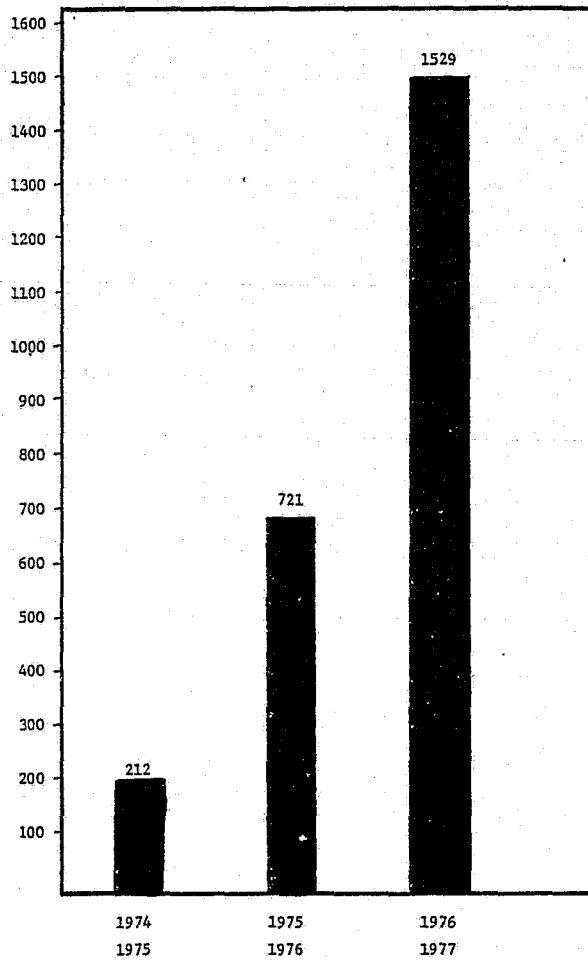
duplication and play back systems, purchased the previous fiscal year for instructional use.

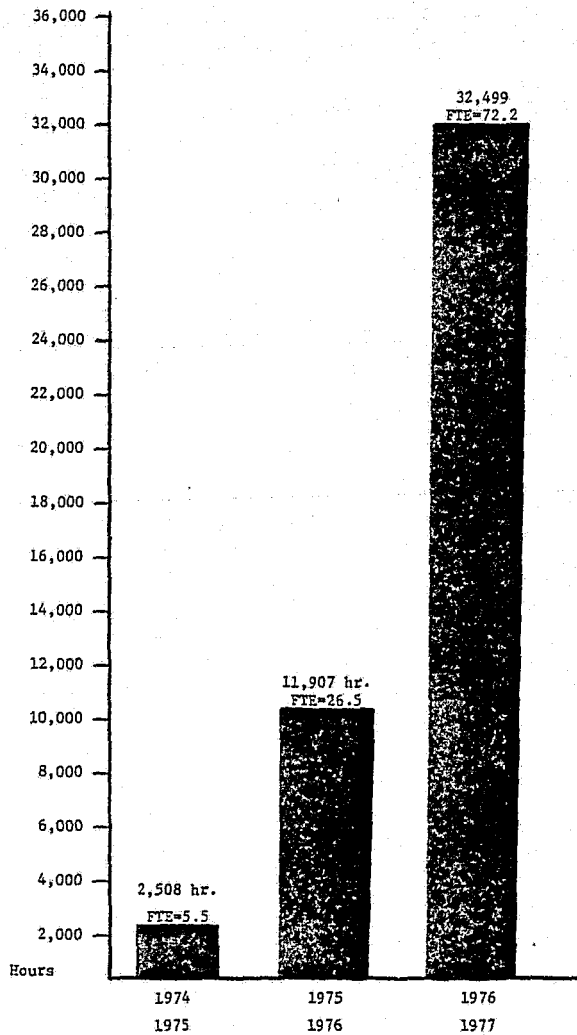
Additional programs to be added to the Branch in future years made it necessary for the library to intensify acquisitions utilizing bond money, Title II money and institutional money to create collections to accommodate the new programs. The library also continued its policy of enriching existing collections.

Community Service

During the fiscal year ending June 30, 1977, the Community Services and Continuing Education offerings presented by the Branch showed considerable increase over fiscal year 1976. The number of offerings increased from thirty-nine in fiscal year 1976 to sixty-seven in fiscal year 1977. Total enrollment increased from seven hundred and twenty-one (721) in fiscal year 1976 to one thousand five hundred and twenty-nine (1,529) in fiscal year 1977. Total student hours of instruction increased from eleven thousand, nine hundred and seven (11,907) hours of instruction in fiscal year 1976 to thirty-two thousand four hundred and ninety-nine (32,499) hours of instruction in fiscal year 1977. The "Full Time Equivalency" ratio increased from twenty-six point five (26.5) FTE in 1976 to seventy-two point two (72.2) FTE in 1977.

Total Number of Community Services andContinuing Education Offerings

Total Enrollment

Student Hours of Instruction and FTE Equivalent

Associate Degree Nursing Program

The Executive Director of the New Mexico State Board of Nursing visited the program in March, 1977. Her reactions to the Nursing Program were quite favorable and in May, 1977 full accreditation was received.

The first class of students from the Nursing Program held its convocation on May 14, 1977. Sixteen students were honored. It is hoped that most students will write state boards July 8, 1977, and that all will have taken the tests by February 1978, so that data can be compiled toward the evaluation of the Nursing Program.

Applications for enrollment in the Nursing Program for Fall, 1977 were accepted until April 15, 1977. Pre-entrance exams were administered April 30, 1977. Over 40 persons applied for 18 positions in the first year class. On May 12, 1977, 18 students and 3 alternates were selected. Five L.P.N.'s applied for admission into the second year of the career-ladder program. Pre-entrance exams were administered to 4 of them. Placement of the students is pending a clinical challenge examination.

A full-time Director of the Nursing Program has been retained beginning July 1, 1977. The faculty had the opportunity to meet her in April. Ms. Catherine Jenkins is completing her doctoral dissertation, and has served in various capacities as a nurse, nurse educator, and nursing consultant.

Plans For The Future

In order to provide physical facilities to house the new vocational/academic programs, McKinley County residents passed a General Obligation Bond Levy on May 3, 1977 by a 70% margin. The following table shows the revenue and expenditures for construction. It is expected that buildings will be completed by summer of 1979.

Project Budget

Revenue:

House Bill 8 1974	\$ 689,000
Christmas Tree Bill-1977 Legislature	625,000
Statewide Bond Issue-1976	164,900
Local General Obligation Bond	<u>2,950,000</u>
	\$4,428,900

Expenditures:

New Construction	\$4,228,400
Utility Extensions	108,000
Parking, Roads, Landscaping	85,000
Remodeling-Library space-Gurley Hall	<u>7,500</u>
	\$4,428,900

Student Body

Within ten years the student body may triple in size. As community services and terminal programs increase in number and variety, the average age of students will likely rise. The

proportion of males to females should remain about equal, and the proportion of Indian to non-Indian will likely remain about the same as at the present time, or perhaps decrease slightly as the Anglo population of McKinley County grows in response to industrial expansion.

Personnel

As the student body increases in size and courses and programs increase in number, the number of faculty members, the number of full-time faculty will increase.

To the degree that the Branch grows and the satellite system is supported, the number of administrative staff members will rise proportionately.

As the Branch is given opportunity to become self-sufficient, support services increasingly will be housed in McKinley County rather than in Albuquerque, and support staff will increase in number and in variety of work assignments.

Educational Programs

Four programs presently are offered and will continue to be offered:

1. Two year college transfer
2. Associate of Arts Degree in Nursing
3. Associate of Arts Degree Physician's Assistant
4. Associate of Arts Degree in Elementary Education

Five programs have been approved; these will be offered as soon as possible:

1. Associate of Arts Degree in Secretarial Office Practices
2. Associate of Arts Degree in Recreation
3. Adult Basic Education
4. Associate of Arts Degree in Community Social Work
5. Associate of Arts Degree in Political Science

These programs are under serious consideration; these should be offered as soon as possible:

1. Associate of Arts Degree in Technical Business (a general job-entry program)
2. Associate of Science in Medical Lab Technical
3. Law Enforcement

Basic Adult Education Development Program

The BAE Developmental Program is designed for people who need or would like refresher or developmental work before entering programs at the Gallup Branch or who fail to qualify for entrance into any of the programs.

After completion of this program, students usually can qualify for a vocational program of their choice. Additional work in developmental programs may be necessary for those who have problems in academic areas. Instruction in English, Math, Reading, etc., will be offered in this program.

Hotel-Motel Management

The Hotel-Motel Program is designed to train personnel to work in the hospitality industry. Increased growth of hospitality centers and the advancement of recreation areas have established a

need for this type of program.

The program is planned to train individuals in the basic requirements of Hotel-Motel and Restaurant operation at the production, supervisory and management levels. The practical methods of training are emphasized.

Certificate programs will be offered as well as the AA degree.

HEAD START SUPPLEMENTARY TRAINING/CHILD DEVELOPMENT ASSOCIATE PROJECT

HEAD START SUPPLEMENTARY TRAINING/CHILD DEVELOPMENT ASSOCIATE PROJECT

Project Staff: Nathaniel Archuleta, Project Director
Sandra Valdez, Project Secretary

The Head Start Supplementary Training (HSST)/Child Development Associate (CDA) Project was funded through a contractual agreement by the University of New Mexico and the Office of Human Development, HEW in Dallas, Texas for one year from August 1, 1976 to July 31, 1977. The purpose of this contract is to provide training for twenty-five (25) Child Development Associate trainees in a competency based early childhood training program and to provide twenty-five (25) "protected" students the opportunity to continue in pursuit of their degree program. The training program has undergone some major changes during this transitional period, from the traditional role it performed as a Head Start Supplementary Training grantee, to one of both HSST and CDA (Child Development Associate) competency based early childhood training program. This type of training is embarking on a nation wide effort to upgrade the quality of care provided to young children by caregivers to be not only competent in terms of academic preparation, but who demonstrate, in an on-going assessment, their skills at a high level of quality.

The training project was assisted in its recruitment effort by individual Head Start programs interested in having their teachers and teacher aides participate in the training. All programs in the geographical area for which UNM is responsible were contacted

concerning the training concept and invited to submit names of teaching staff they felt would benefit from the training. Selection of the final twenty-five (25) CDA's was done on the basis of names submitted by directors, location of programs and indication by programs that such training would be of extreme importance to their program.

During Fall semester of 1976 a total of twenty-five (25) CDA trainees were accepted into the program. In this same semester there were another twenty-five (25) students classified as protected students. Of these twenty-five (25), sixteen (16) were actively enrolled for course work during the Fall semester. Twenty-eight (28) CDA and nineteen (19) protected category students were registered for course work during the 1977 Spring semester. This presented an increase of three (3) CDA trainees and of one protected student from the enrollment during Fall 1976.

The HSST/CDA program provides the opportunities for training to programs in the northwest, western, central and southwestern portion of New Mexico. The following tables present information on programs served, type of training, number of credits taken, number of credentialed CDA's and students graduating.

Students Enrolled for Fall 1976 and Spring 1977 Semesters

Head Start Program	CDA Trainees	Protected Students	Credit Earned	Credentialed CDA's	Graduates
Acoma	2	1	40	-	-
Albuquerque	2	-	28	1	-
Eight Northern	4	2	56	-	2
El Grito	5	-	63	5	-
Dulce-Jicarilla	-	1	6	-	-
Isleta	4	-	54	1	-
Laguna	3	9	104	-	-
Mid West	4	2	62	2	-
Six Sandoval	-	7	44	-	-
Farmington	2	-	28	1	-
Santo Domingo	5	-	70	-	-
Zuni	-	3	6	-	1
Total	31	25	561	10	3

Summer 1977 Enrollment

Head Start Program	CDA Trainees	Protected Students	Hours Registered for
Albuquerque	3	-	18
El Grito	8	-	37
Isleta	4	-	24
Mid West	3	-	18
Six Sandoval	-	2	13
Total	18	2	110

Totals for contract year -- 671 semester hours earned by trainees in the UNM HSST/CDA training program.

The total number of CDA's who at some point were active in CDA training for this contract year was thirty-one (31). These trainees received credit through Elementary Education courses, specifically in Early Childhood and both applying the academic as well as on-site practicum situations. Each trainee begins and progresses through the training at his/her own rate or pace and may apply for assessment anytime the individual feels competent in the field. Of these thirty-one (31) trainees, ten (10) were assessed and credentialed by a national credentialling team and found competent. The twenty-five (25) protected students continued to be advised and to enroll in courses which will lead them toward their B.A. degrees.

Every effort has been made for the training program to meet the needs of the Head Start population. There has been a continuous emphasis to coordinate services with many other training agencies, Career Development Committees, Head Start Directors' Associations, etc. in order to provide services which are integrated and meaningful to the population being served.

The renewed HSST/CDA contract will begin August 1, 1977. It is expected that next year's funding level will remain at \$49,280 as was this year's funding. It should be continuously emphasized that as the number of CDA trainees increase the time and effort in the training process will also increase. The level of funding for this type of educational program is not quite adequate. However,

considering the critical need for young children's education and properly trained teaching personnel, the contract was sought and the work performed. The training prospect will continue to provide leadership in this area of work not only in New Mexico but throughout the rest of the United States.

NON-DEGREE STATUS

NON-DEGREE STATUS

All students classified in Non-Degree Status are under the jurisdiction of the Dean of the Division of Continuing Education and Community Services. All classes scheduled after 4:30PM are considered evening classes. Of the total student body 16.59% were enrolled in Non-Degree Status; 9.9% of the total student body were registered for evening classes; and 53% of the evening students were enrolled in Non-Degree Status. Non-Degree students account for 12.60% of the daytime student body. Students who make application to attend The University of New Mexico just prior to the beginning of the semester and who are beyond the deadline to enroll in regular status are accommodated by enrolling in Non-Degree status. The following enrollment figures are reported for the 1976-77 academic year.

Comparison of Students Registered in Non-Degree Status For The Past Five Years

(Regular Semester Only)

<u>Year</u>	<u>Semester</u>	<u>Students</u>	<u>% of Inc. or Dec. Over Corr. Periods</u>	<u>Total for Year</u>
1972-73	1st	2419	15.0% Increase	4844
	2nd	2425	28.0% Increase	
1973-74	1st	2852	17.9% Increase	5374
	2nd	2522	4.0% Increase	
1974-75	1st	3114	9.19% Increase	6125
	2nd	3011	19.39% Increase	
1975-76	1st	3548	13.94% Increase	7165
	2nd	3617	20.13% Increase	
1976-77	1st	3950	11.33% Increase	7667
	2nd	3717	2.76% Increase	

During the past year, 1976-77, the Non-Degree enrollment increased by 502 students which is an increase of 7.0% over the previous year.

The Division prepares and maintains personal folders for all students in Non-Degree status. Through these folders, up-to-date academic records on 9,854 students enrolled in Non-Degree Status were kept during the past academic year. (This figure includes 2,187 students enrolled for the Summer Session 1976.)

Furthermore, the Division has responsibility for the probation and suspension of Non-Degree students who fail to maintain the University's academic standards of a two-point average. During the past year, 82 Non-Degree students were suspended; 895 students were placed on probation; 246 students were continued on probation; and 81 students were released from probation.

Non-Degree Probation and Suspension Figures

	<u>Placed on Probation</u>	<u>Continued on Probation</u>	<u>Suspended</u>
1975-76	681	240	16
1976-77	895	246	82

Many of the students in Non-Degree status are in great need of advice and counseling. Since the Division receives no support for this activity the Division merely serves as a holding house for these students.

In addition to the Non-Degree students who are mainly taking

evening courses, there are many other students from the regular colleges of the University that take only evening work. This adds a considerable number to evening enrollments and the following chart gives comparative figures for the past five years.

Comparison of Evening Class Enrollments
During the Past Five Years

<u>Year</u>	<u>Semester</u>	<u>Students</u>	<u>% of Inc. or Dec. Over Corr. Periods</u>	<u>Total for Year</u>
1972-73	1st	1422	21.0% Increase	2636
	2nd	1214	3.0% Decrease	
1973-74	1st	1391	2.2% Decrease	2738
	2nd	1347	11.0% Increase	
1974-75	1st	1994	43.3% Increase	3713
	2nd	1715	27.3% Increase	
1975-76	1st	1926	3.4% Decrease	3871
	2nd	1945	13.4% Increase	
1976-77	1st	2256	17.1% Increase	4580
	2nd	2324	19.5% Increase	

The chart above indicates that the number of night students for the 1976-77 school year showed an increase of 18.3% from the preceding year.

The evening class enrollments have increased steadily during the past five years.

NORTHERN BRANCH COLLEGE

NORTHERN BRANCH COLLEGE

The Northern Branch College entered its fourth and final year of existence on July 1, 1976. The year's most salient item of interest was to consider public discussion regarding the proposed merger of the Branch College and New Mexico Technical Vocational School.

Last year's Branch College report made reference to a task force appointed to study the feasibility of a merger. (See Annual Report, Division of Continuing Education and Community Services, 1976.)¹ This group recommended that a comprehensive community college be established in North Central New Mexico for two basic reasons. First, such an institution would be better suited for providing an integrated educational delivery system in the north. Previously, for example, both the Northern Branch College and New Mexico Technical Vocational School had been offering some similar programs in office occupations, accounting, and electronics. Second, a comprehensive institution could better incorporate the "ladder" approach to tracking students. Conceivably, under a comprehensive institution, it was possible for a student to take developmental, occupational, and/or academic selections simultaneously.

As a result of the task force recommendation the New Mexico State Legislature voted to incorporate the two institutions under a single

¹A copy of the Task Force Report is available at the Division of Continuing Education and Community Services office.

constitutional entity. The proposed name for the new institution is Northern New Mexico Community College. This institution will continue to offer academic courses throughout the seven school districts formally served by the Northern Branch.

Programs:

The Northern Branch College, through the assistance of a Title I grant, added a Continuing Education/Community Services component to its mission. Under this dimension the college offered non-credit courses in the hobby and leisure areas as well as short seminars and workshops with single focus objectives. Through its main campus affiliate this division was able to award Continuing Education Units to some of its activities.

The Title I grant has been refunded for 1977-78, and it is anticipated that this component will broaden its scope of operation during the upcoming year.

Personnel:

Several additions to the Northern Branch College staff were made during the year. These include:

Continuing Education/Community
Services:

Evelyn Valdez, Coordinator
Zelda Sanchez, Secretary

Student Services:

Archie Velarde, Counselor/
Evening Coordinator
Harold Lovato, Counselor

Full-time Faculty:

Dennis Jarrett

Library:

Michael Miller, Librarian
Carol Martinez, Clerical,
Title VI

Due to termination of the Northern Branch as a separate entity and termination of some of the employees, a total and complete report was not generated.

OFF CAMPUS INSTRUCTION

1. Credit Classes
2. Independent Study Courses
3. Resident Credit Centers

CREDIT CLASSES

Any course listed in the University of New Mexico Bulletin, catalog issue, may, subject to appropriate approval, be offered for credit through the Division. The Division obtains approval from departmental chairpersons for all courses to be offered for credit. Approval of teaching faculty is obtained by the Division from the departmental chairperson, and if necessary, from the dean. However, obtaining approval from the Graduate School for a person to teach at the graduate level is a departmental responsibility.

The need for a credit course may be identified in several ways: an employer may desire to have employees take a certain course; an instructor may wish to teach a certain course off campus; or Division personnel may identify a need. Course requests may be directed to the appropriate academic department, the appropriate college, or to the Division of Continuing Education and Community Services. Regardless of the initial contact, the Division is notified of the request and all coordination is accomplished by the Division.

Starting with Summer Session 1976, credit courses offered through the Division in Bernalillo County are considered resident credit. Division personnel visit the class site and have students complete all registration procedures, including payment of fees. Registration forms and admission applications are sent to the UNM Registrar and fees are sent to the UNM Cashier. The students are

then treated as regularly enrolled students with grades reported in the normal manner. The Division has encountered some problems in adapting to the rigid requirements of the total system, however, many of the problems do not appear to be unique with this Division and progress is being made in attempts to overcome them.

Those credit courses offered outside of Bernalillo County are still considered to be extension credit and all registration, fee collections, and grade reporting are accomplished by the Division.

The general policy this Division has followed is that credit courses will be established anywhere sufficient demand warrants. The figures listed in Table I indicate; location of classes, number of classes, and number of students for classes offered during Summer session 1976 through Spring term 1977. Albuquerque is listed twice to reflect extension enrollment and resident enrollment.

TABLE I

Location of Class	Number of Classes	Number of Students
Alamogordo	3	40
Alamosa	1	18
Albuquerque (Extension)	28	722
Albuquerque (Resident)	91	1265
Belen	4	89
Bernalillo	10	158
Carlsbad	2	33
Chama	8	280
Cuba	4	78
Dulce	1	13
Farmington	2	24
Ft. Wingate	1	3
Gallina	2	23
Gallup	6	90
Ghost Ranch	1	6
Grants	1	19
Jemez	1	24
Jemez Pueblo	3	37
Jemez Springs	1	15
Las Cruces	2	77
Los Alamos	7	82
Los Lunas	1	50
Mescalero	4	89
Mora	2	34
Pecos	1	12
Ramah	2	57
Raton	2	19
Rough Rock	2	12
Sandia Mountains	1	14
Sanostee	2	19
Santa Ana	2	20
Santa Fe	14	249
Taos	22	238
Extension (Subtotal) = 32	143	2,644
Resident (Subtotal) = 1	91	1,265
Total: 3.3	234	3,909

Tables II and III present comparative statistics over a five year period.

TABLE II
Enrollment for Credit Classes
for Last Five Years

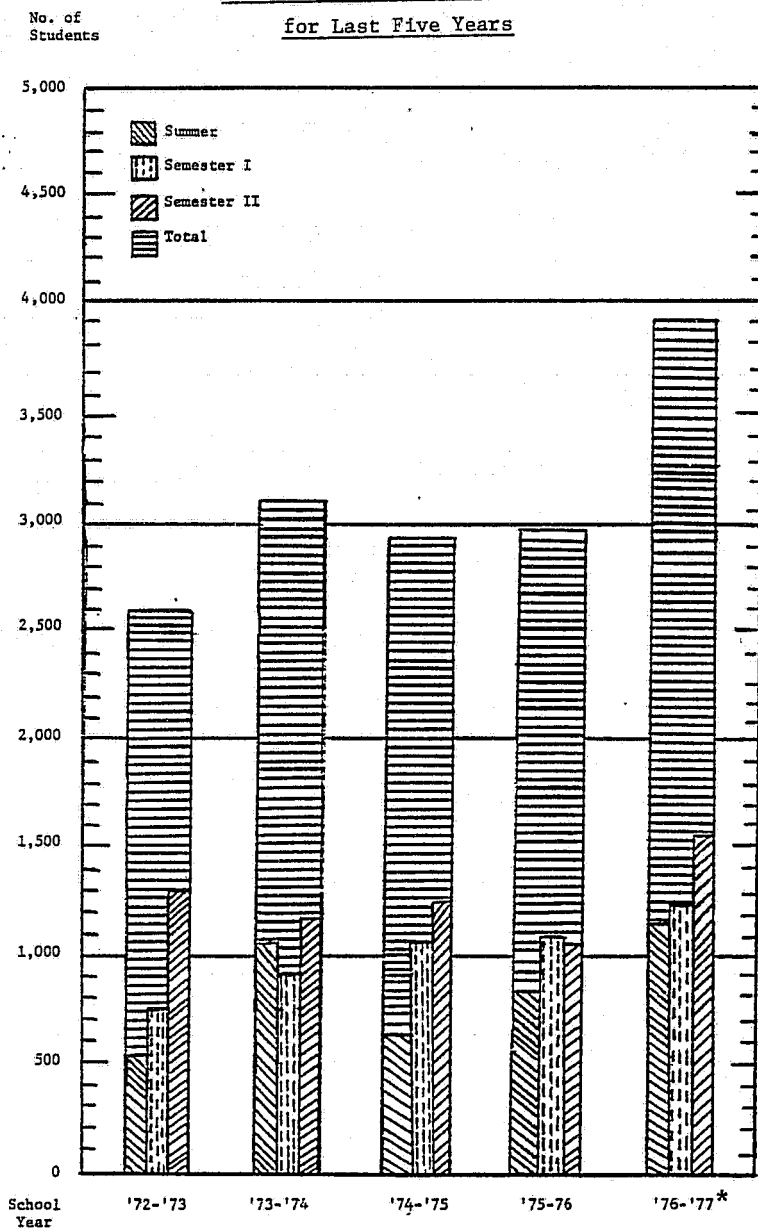


TABLE III
FTE STATISTICS

Year	Summer	Semester I	Semester II	Total
1974-75	85.1	167.4	201.9	227.2
1975-76	120.9	138.3	183.0	221.1
1976-77 X	130.4	112.1	149.1	195.8
1976-77 R	43.8	88.9	82.0	107.4
1976-77 T	174.2	201.0	231.1	303.2

1974-75 was the first year for which FTE Statistics were reported. FTE by semester is calculated by dividing the student credit hour production by fifteen (15). The entire year FTE is calculated by dividing the total student credit hour production by thirty (30).

This past year a total of 234 classes were offered at thirty-three (33) locations to 3,909 individuals (91 classes for 1,265 individuals were for resident credit). This compares to 170 classes offered at thirty-one (31) locations to 2,988 individuals during 1975-76.

However, to get a true picture of the total number of individuals served in credit courses by the Division and off-campus, one must take into account all activities of the Division and the activities of others who offer courses off-campus. Prior to the establishment of

the branch colleges, all credit work performed off-campus was by extension. All lower division work in the branch area is now performed by the branches with upper division work by extension. Three years ago, 1974-75, Teacher Education Centers were established at various locations for upper division (and lower division, in some cases) resident credit work off-campus. Many of the students who are enrolled in Teacher Education Centers were, in the past, enrolled as extension students. Also, two years ago, 1975-76, a Graduate Resident Center was established in Santa Fe. Many of the students enrolled in the Resident Center were previously extension class students.

Therefore, when all aspects of the Division's activities and the activities of others in credit activities is considered, it is readily apparent that the service to the off-campus community has increased tremendously.

INDEPENDENT STUDY COURSES

Independent Study course enrollments showed a marked increase of 63% this past fiscal year. It is felt the increase was due to a concentrated effort of public relations plus the addition of five Nursing courses to the program. In addition to the Nursing courses seven other new courses were added for a total of twelve new course offerings. Nine existing courses were revised.

Defense Activity for Non-Traditional Education Support (DANTES) enrollments totaled sixty students with the expectation of more enrollments due to the new publication of the DANTES Catalog in August 1977.

During the 1976-77 fiscal year the following course alterations were implemented:

A. Additions

B&AS 202:	Introduction to Accounting
ED FDNS 290:	Foundations of Education
ED FDNS 421:	Sociology of Education
LIB SCI 427:	Classification and Cataloging
NURS 222:	Health Care Delivery Systems
NURS 223:	Introduction to Nursing
NURS 239:	Pathophysiology I
NURS 240:	Pathophysiology II
NURS 408:	Body Fluids and Electrolytes

PHIL 256:	Introduction to Logic
POL SCI 110:	The Political World
SOC 351:	The Urban Community
B. <u>Revisions</u>	
B&AS 302:	Elements of Real Estate and Land Economics
HIST 162:	History of the United States Since 1865
MATH 264:	Calculus III
MATH 265:	Vector Analysis
PSYCH 351:	Social Psychology
SOC 101:	Introduction to Sociology
SPAN 101:	Elementary Spanish
SPAN 102:	Elementary Spanish
SPAN 201:	Intermediate Spanish
C. <u>Deletions</u>	
ECON 330:	Consumer Economics
EL ED 361:	Teaching of Arithmetic in the Elementary School
FRENCH 101:	Elementary French
FRENCH 102:	Elementary French
FRENCH 251:	Intermediate French
FRENCH 252:	Intermediate French

Total Revisions 9, Additions 12, Deletions 6. This compares
to 42 Revisions, 8 Additions and 6 Deletions for the last fiscal year.

As indicated earlier, an increase in enrollment of 63% is reflected for this year.

Comparison of Independent Study Statistics for Last Five Years

<u>Year</u>	<u># of Courses Offered</u>	<u>New Enrollments</u>		<u>Total</u>	<u>% of Increase or Decrease</u>	<u>States</u>	<u>New Mexico Counties</u>	<u>Countries</u>
72-73	86	310	264	574	D-3.	38	22	6
73-74	84	235	221	456	D-20.	32	26	6
74-75	85	164	192	356	D-21.9	32	26	6
75-76	87	178	222	400	I-12.	27	24	5
76-77	94	251	393	644	I-63.	30	27	7

The number of students actually enrolled in courses during 1976-77 including new enrollments, carry-overs, withdrawals and completions was 1441. Six hundred and forty-four students were enrolled in all courses during 1976-77 as compared to 400 in 1975-76. The enrollment distribution is depicted in the following chart with California, New York and Washington reflecting our overseas Armed Forces enrollees:

Geographical Distribution of New Independent Study Enrollments 1976-77

<u>New Mexico Counties</u>		<u>Foreign Countries</u>		<u>States</u>	
Bernalillo	285	Central America	1	Alaska	2
Catron	3	England	2	Arizona	11
Chavez	5	France	1	Arkansas	2
Colfax	18	Korea	1	California	21
Curry	4	Mexico	1	Colorado	3

New Mexico Counties

DeBaca	1
Doña Ana	13
Eddy	1
Hidalgo	2
Lea	4
Lincoln	11
Los Alamos	18
Luna	1
McKinley	22
Otero	5
Quay	1
Rio Arriba	12
Roosevelt	2
Sandoval	14
San Juan	9
San Miguel	2
Santa Fe	26
Socorro	2
Taos	2
Torrence	3
Union	1
Valencia	20

Foreign Countries

Spain	2
-------	---

States

Connecticut	2
Dist. of Col.	1
Florida	3
Georgia	2
Hawaii	4
Idaho	1
Illinois	7
Kansas	3
Louisiana	2
Maryland	3
Massachusetts	4
Michigan	3
Mississippi	2
Missouri	3
Montana	3
Nevada	1
New Hampshire	1
New York	39
North Carolina	2
Oklahoma	2
Texas	13
Virginia	2
Washington	3

<u>New Mexico Counties</u>	<u>Foreign Countries</u>	<u>States</u>	
		Wisconsin	2
		Wyoming	2
<u>Total</u>	<u>487</u>	<u>8</u>	<u>149</u>

The total number of course offerings as of June 30, 1977 was 94. In the period covered by this report, 122 students completed courses, representing 354 college hours plus 4 non-credit courses. This compares to 444 college hours earned during the previous year. The drop in credit hours is due to the number of 2 credit hour courses that were added.

RESIDENT CREDIT CENTERS

The Teacher Education Center concept was implemented by the College of Education and The Division of Continuing Education and Community Services during the 1974-1975 academic year. These centers were established at off-campus locations to provide upper division resident credit course work to individuals working toward a bachelors degree in education. The administration of these centers for registration and grade reporting was assumed by the Division through the Branches in the vicinity of the center. Location of the center, number of courses offered, number of students enrolled, and FTE generated for 1974-75 are presented in Table I. These same statistics for 1975-76 are presented in Table II, and for 1976-77 in Table III.

TABLE I
Teacher Education Centers
1974-1975

<u>Location</u>	<u>Fall</u>			<u>Spring</u>		
	<u>No. of Courses</u>	<u>No. of Enrollments</u>	<u>FTE</u>	<u>No. of Courses</u>	<u>No. of Enrollments</u>	<u>FTE</u>
Crownpoint	8	107	21.9	11	145	31.2
Shiprock	9	167	34.6	11	167	35.3
Sanostee	9	167	34.6	9	43	7.7
Zuni	5	69	12.9	5	66	12.3
Rough Rock	2	12	2.4			
Santa Clara	5	15	15	5	15	15
Total	29	370	86.8	41	436	101.5

FTE for entire year = 94.2

TABLE II
Teacher Education Centers
1975-1976

<u>Location</u>	<u>Fall</u>			<u>Spring</u>		
	<u>No. of Courses</u>	<u>No. of Enrollments</u>	<u>FTE</u>	<u>No. of Courses</u>	<u>No. of Enrollments</u>	<u>FTE</u>
Crownpoint	7	89	19.7	4	57	10.3
Shiprock	6	71	20.3	5	98	16.6
Acoma	2	28	5.6	3	42	8.4
Zuni	1	15	2.0	2	20	8.0
Taos	-	-	-	1	23	3.1
Total	16	203	47.6	15	240	46.4

FTE for entire year = 47.0

TABLE III
Teacher Education Centers
1976-1977

<u>Location</u>	<u>Fall</u>			<u>Spring</u>		
	<u>No. of Courses</u>	<u>No. of Enrollments</u>	<u>FTE</u>	<u>No. of Courses</u>	<u>No. of Enrollments</u>	<u>FTE</u>
Acoma	3	15	3.0	4	22	4.4
Crownpoint	7	73	17.4	5	60	16.4
Ramah	4	30	6.0	5	51	10.2
Tec-Nos-Pos	5	37	8.6	3	56	17.6
Total	19	155	35.0	17	189	48.6

FTE for entire year = 41.8

The Santa Fe Graduate Center was implemented by the Graduate School during the 1975-76 academic year. The administration of this center is the responsibility of the Graduate School. The statistics

below are presented here to indicate the numbers of individuals off-campus receiving credit courses from UNM. Many of these individuals previously enrolled as extension students, or would, if the center were not operational.

TABLE IV
Santa Fe Graduate Center
1975-1976

<u>Fall</u>			<u>Spring</u>		
<u>No. of</u> <u>Enrollments</u>	<u>FTE</u>		<u>No. of</u> <u>Enrollments</u>	<u>FTE</u>	
	<u>Grad</u>	<u>Under Grad</u>		<u>Grad</u>	<u>Under Grad</u>
77	5	16	122	13	21

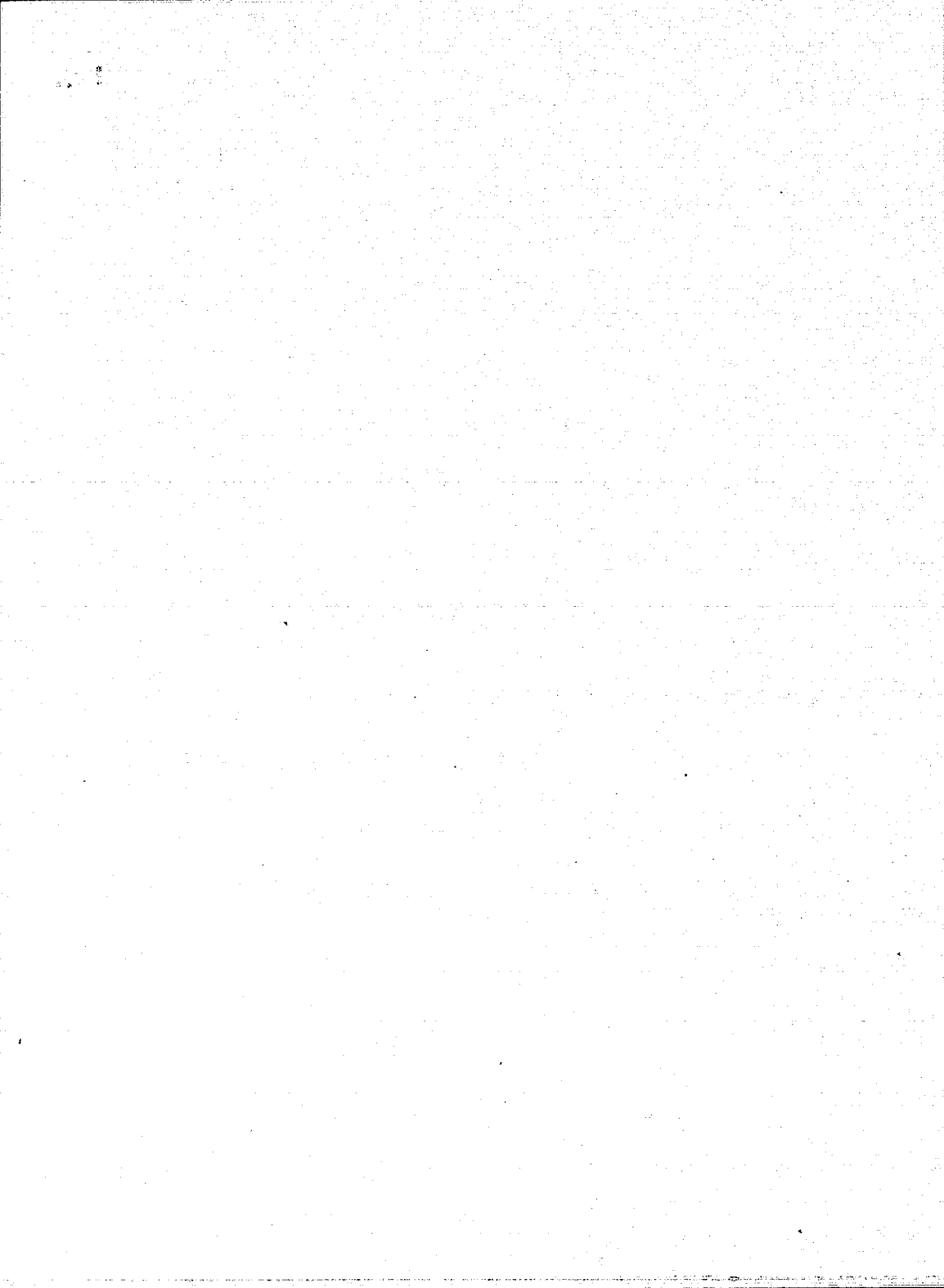
FTE for entire year - Graduate = 9
Undergraduate = 18.5

TABLE V
Santa Fe Graduate Center
1976-1977

	<u>Enrollments</u>		<u>FTE</u>	
	<u>Grad</u>	<u>Under Grad</u>	<u>Grad</u>	<u>Under Grad</u>
Summer 1976	72	64	6	4
Fall	146	342	12	23
Spring	242	474	20	32

FTE for year = Graduate-19
Undergraduate-29.5

When the figures for extension class enrollments, Santa Fe Graduate Center enrollments, and Teacher Education Center enrollments are combined, it is readily apparent that there is a significant increase in the number of individuals enrolling in off-campus credit courses.



NORTHWESTERN NEW MEXICO
REGIONAL SCIENCE AND ENGINEERING FAIR

NORTHWESTERN NEW MEXICO
REGIONAL SCIENCE AND ENGINEERING FAIR

The Eighteenth Annual Northwestern New Mexico Regional Science and Engineering Fair was held March 18 and 19, 1977, in Johnson Gymnasium.

Three-hundred exhibitors registered in our fair and these youngsters came from eight counties of New Mexico. Most of these contestants were chosen in local fairs in their respective schools. A San Juan County Science Fair came into existence and sent representatives. One hundred and twenty representatives of our fair had opportunities to participate in the New Mexico State Science and Engineering Fair in April in Socorro.

For many years our fair has been sending two winners to the International Science and Engineering Fair. This year we sent the two student representatives, their two teacher-sponsors, and the two alternates to the student winners. Funds for sending these six individuals were furnished by our community sponsors. This increased participation at the International Science and Engineering Fair was not only highly educational for students and teachers but also should stimulate more competition for this recognition.

In addition to the University which provides most of the support of the fair, our Sponsors numbered twenty-nine. Four of these Sponsors were new this year. The Greater UNM Fund provided \$400 to cover costs of Award Dinners for one hundred and ten exhibitors.

This is the second year we have been assisted by this fund. Since 1975, our Sponsors have increased in number from seventeen to thirty. Most Sponsors contribute money to our Science Fair Scholarship and Awards Fund, but there are exceptions. The Albuquerque Journal furnished our affiliation fee of \$250 for the International Science and Engineering Fair and provided extensive publicity including a full-page of coverage in a Sunday edition in October, 1976. Sandia Laboratories and Energy Research and Development Administration did copying and printing for us.

There was a marked increase in our scholarships and awards. In 1976, two UNM Presidential Scholarships were initiated as top awards in our fair. This year, in addition to granting the two Presidential Scholarships, The University of New Mexico Scholarship Committee made available nine tuition waiver scholarships (each worth \$250 for one year) to any senior exhibitor who received the top score from regional judges in his/her category. UNM College of Engineering also gave two scholarships to exhibitors who had outstanding exhibits in engineering or related fields. This increased participation by UNM gave a big boost to our fair. Each year, since 1960, two \$300 scholarships have been given in the name of the regional fair. This year these awards were changed to two \$400 scholarships. Funds for these particular scholarships come from our Sponsors. More special awards, i.e., savings bonds, trips, and cash awards were presented by professional and scientific groups than ever before.

Approximately two-hundred individuals from various governmental agencies, scientific institutions, professional organizations, schools and commercial companies served as judges. These people willingly contribute their time and expertise, and play a vital role in the success of the event.

A number of UNM departments furnished information booths in our fair. This program, initiated in 1976, helps recruit top students to UNM.

Enthusiasm among students, teachers, sponsors, award donors, and judges is increasing each year. This event continues to encourage science-oriented young people and provides incentives for the promotion of science and engineering in secondary schools of our region. The fair has also proven to be an excellent public relations event for UNM.

HARWOOD FOUNDATION

HARWOOD FOUNDATION

Cynthia Kellen, Acting Director

The Harwood Advisory Board

Rupert A. Trujillo	University of New Mexico
Van Dorn Hooker	University of New Mexico
Meg Salman, President	Taos, New Mexico
Melvin Lujan	Taos, New Mexico
Terry Moynihan	Taos, New Mexico
Joe Gonzales	Taos, New Mexico
Sarah Salazar	Ranchos de Taos, New Mexico
Cliff Harmon	Taos, New Mexico
Dorothy Brandenburg	Taos, New Mexico
Ivan Rosequist	Taos, New Mexico
Robert D. Ray	Taos, New Mexico

The Advisory Board meets in regular sessions bi-monthly.
Special meetings on call of the President.

Personnel

Cynthia Kellen	Acting Director and Librarian
Dixie Gillette	Secretary, Part-time
John Flexner	Library Clerk, Part-time
Dorothy Kethler	Library Clerk, Part-time
Tracy McCallum	Library Clerk, Part-time
Carmen Medina	Library Clerk, Part-time
Ronald Nelson	Library Clerk, Part-time
Juan Romero,	Maintenance, Full-time

Personnel changes during the year:

Ronald Nelson, Library Clerk, resigned effective April 4, 1977

John Flexner, Library Clerk, part-time, hired April 1, 1977

Juan Romero, Maintenance, full-time, hired November 15, 1976

Director's Statement

1976-77 has seen the acceptance of the EDA Grant which has been awaited since late 1975. Actual work on the project begins on July 1, 1977. This Grant will provide much needed repairs and renovation for the building itself and, it is hoped, will provide space for a new children's library. The entire project is scheduled to be completed within the period of a year. The building was also officially entered in the National Register of Historic Places on December 22, 1976. This designation makes the Harwood eligible for federal restoration funds and prohibits the altering of the exterior appearance of the building without a review by the board of this protective organization. The maintenance problems have been resolved with that item now included in the Harwood budget. This has given us a full-time maintenance person who is responsible to the Harwood Director. Plans are being made for several grant proposals which will be submitted during the coming year. It is hoped that the grant monies will be forthcoming to provide more security for the building as well as much-needed restoration for a large part of the collection. Another proposal would include staffing for the Children's Library and provide for various programs in that new section. The number of borrowers has increased and our juvenile circulation shows

a steady rise. Adult circulation figures show a slight decrease but this is possibly due to new limitations on the number of books which may be checked out on one card at any given time. The library and galleries have received several large gifts including actual funding as well as several valuable works for the art collection which indicates support for the Harwood and all it represents historically and culturally to the Taos Community.

Library Report

1. Hours for Library and Galleries:

12 noon to 8 PM Monday
12 noon to 5 PM Tuesday through Friday
10 AM to 4 PM Saturday
Closed Sundays and Holidays

2. Services	1975 - 76	1976 - 77
A. Registered Borrowers	4230	4860
New Cards issued during year	1135	912
B. Circulation (Total)	40,492	39,285
adult	31,353	29,780
juvenile	9,129	9,433
C. Interlibrary loans		
Books borrowed	983	701
Books lent	5	8

3. Collection

Number of volumes in library	17,432 accessioned	19,590 accessioned
	1,207 non-access.	850 non-access.
Number of volumes added	1,563 accessioned	2,500 accessioned
	800 non-access.	340 non-access.
Number of pd. magazine subs.	50	64
Number of pd. newspaper subs.	3	3

4. Book Fund

Cash donations, sales of surplus books, fines, rentals, etc.	\$ 2,074.62	\$ 6,836.04
Town of Taos Grant for Children's Books	1,000.00	2,000.00
Taos County Grant for books	1,000.00	1,000.00
NM State Library Grant for books	2,200.00	2,236.00
RIF Grant	360.00	00
Xerox Machine income March through June 1977		<u>964.85</u>
Total Income, book fund	6,634.62	13,036.89
Amount spent for books and periodicals, and rent on Xerox machine and salary McCallum through March.	5,887.36	11,424.05

5. Library Board

The Library Board became a non-profit corporation during the past year and has accepted the Friends of the Harwood as a separate committee under their jurisdiction. In addition to their fund raising activities, they hope to expand their volunteer program to become a true helping organization. Their book selection committee has agreed to make a study of various sections of the library and make recommendations for the purchase of new books to up-date and fill in the collection. The Library Board meets quarterly and special meetings may be called at the discretion of the President.

6. Library Activities

- A. Book Lists. Patrons are sent lists of all new books on a quarterly basis.
- B. Storyhour. Robert Hawley, M.D. volunteers on Saturdays from 1:15 to 2 PM. He tells stories from all backgrounds. This is provided for all interested listeners.
- C. Reading is Fundamental. Last year this project had two distributions in the Library. The program reaches classes in grades three through six. The classes also were given tours of the library and all interested children received library cards.
- D. McNaughton Collection. Our McNaughton collection of books was increased from 100 to 200 books. This is a program in which we lease books on a rotating basis. The basic collection remains at 200 titles, with 20 new titles added each month and 20 titles returned. The Friends pay for one half of this program which provides a popular service for our patrons.
- E. Senior Citizens Service. Carmen Medina, one of our library clerks, visits the two local Senior Citizens centers every Wednesday. She takes a selection of books and magazines for the members to check out. She also fills specific requests for the members and delivers and picks up the books.

Foundation Report

1. Galleries

Exhibits in the galleries are open to the public during the hours that the library is open. There are two galleries upstairs with paintings, sculpture, Rio Grande tinware, Spanish colonial furniture, and related items. The library rooms on the ground floor also have exhibits of Indian artifacts, Santos, sculpture, pottery, wood carvings, paintings, prints, and a collection of Persian miniatures. One new addition this year is a part of the Harwood rug collection. Eight Navajo and Rio Grande rugs have been mounted for hanging and are on display in the main library. The Friends paid all the expenses for this project.

2. Friends of the Harwood.

Memberships during this past year totalled \$3,295, an increase of \$1,175 over the previous year. The Friends continue to pay for book replacements in addition to a subscription to the Sunday New York Times, and one-half McNaughton Collection.

3. Concerts and Plays.

The Taos Theatre Company which uses the Harwood Auditorium produced two new shows last year. They did a revival of Oscar Wilde's "The Importance of Being Earnest" in the Fall and their Spring offering consisted of two one-act plays: William Saroyan's "Subway Circus" and Octave Mirabeau's "The Epidemic". Several small concerts have been held in the upstairs gallery and there

is a newly formed poetry group which meets monthly in the Community Room. These are open readings and the group has been enthusiastically welcomed as a space for local poets to share their work.

AFRO-AMERICAN STUDIES PROGRAM

THE UNIVERSITY OF NEW MEXICO

Albuquerque, New Mexico 87131



September 28, 1977

Dr. Harold Bailey, Director
1819 Roma, N.E.
Phone (505) 277-5644
277-5645

AFRO-AMERICAN STUDIES ANNUAL REPORT
1976-1977

The Afro-American Studies Program at the University of New Mexico is an academic oriented program designed to provide the university community with educational courses. The academic component has constructed and implemented courses which include the major disciplines of this institution. It is most important that one does not conceptualize the Afro-American Studies Program being in existence for only black students. The academic courses offered through this program have a majority enrollment of non-black students. This reality should reflect that the program is and will continue to meet the needs of university students regardless of the racial classification.

The courses offered through the Afro-American Studies Program are as follows:

The Black Experience
Afro-American History
Introduction to Afro-American Studies
The Black Community
African Politics
African Social Thought
Swahili - (Intermediate & Advanced)

-2-

Racism in Athletics
 Institutional Racism
 Blacks and The Law
 The Black Woman
 Education Foundations
 African Art - Cultural Change
 Blacks in Latin America
 Black Politics
 Race, Racism and American Law
 Education Foundations Problem - Undergraduate
 Education Foundations Problem - Graduate
 Educational Development in West Africa
 African Literature

The faculty of the Afro-American Studies Program has consistently reflected a high quality of academic expertise. The primary objective is to provide academic courses and secure academically qualified professionals to teach these courses. The academic posture and credibility of the Afro-American Studies Program are of utmost importance and quality will always be placed in front of quantity. The faculty-staff of Afro-American Studies (UNM) is as follows:

Dr. Harold Bailey - Ph.D.
 Prof. Shiame Okunor - Ph.D. Candidate
 Prof. Robert Jones - Juris Doctorate of Law
 Prof. Sam Johnson - Juris Doctorate of Law
 Prof. Samuel Ngola - Ph.D. Candidate
 Dr. Charles Becknell - Ph.D.
 Dr. Lenton Malry - Ph.D.
 Prof. Ray Hamilton - Juris Doctorate of Law
 Prof. Ivory Moore - Ph.D. Candidate
 Prof. Joshua Maingi - Ph.D. Candidate
 Prof. Gustav Ntiforo - Ph.D. Candidate
 Dr. Cortez Williams - Ph.D.
 Prof. Fondo Sikod - Pursuing Ph.D.
 Dr. Iola Harding - Ph.D. (Tentative)
 Prof. Regina Blackburn - Ph.D. Candidate
 Dr. Ivory Robinson - Ph.D. (Political Science)

To assist me, as Director of the Afro-American Studies Program, Professor Shiame Okunor was appointed Acting Assistant Director. During the past two years, Professor Okunor has been

serving in the capacity of Administrative Assistant. His academic and administrative expertise has greatly assisted me in the overall operation of the program.

During the program year of 1976-1977, the Afro-American Studies Program sponsored various activities and projects. One of the most important projects was the Afro-American Studies Career Day sponsored during Black Cultural Week (April 28-May 3, 1977). The purpose of Career Day was to provide black high school students with information about the various disciplines at the University of New Mexico. This forum was held in the moot courtroom at the School of Law. Other activities scheduled during Black Cultural Week was a presentation given by Dr. Grace A. Williams, Director, Institute of Education at the University of Lagos, Nigeria. Her presentation on Women in Education with emphasis on Africa was greatly received by the audience (please refer to Black Cultural Week brochure for additional information).

Besides the academic efforts of the Afro-American Studies Program, special projects are developed to assist the university in its effort to extend into the surrounding community. The off campus black community has given the program a tremendous amount of support during the past years. This is a primary reason why the Afro-American Studies Program continues to grow at a rapid pace. The special projects are as follows:

Afro-American Resource Center

This program, which is sponsored by Afro-American Studies, was initiated by Delta Sigma Theta Sorority of Albuquerque.

-4-

This group of black professional women organized this project so that the Albuquerque Public School System could have a Clearing House of black oriented educational materials; such as books, films, puzzles, poems, teaching aides, etc. The location of this Resource Center is 2611 Eubank Blvd., N.E. at the Albuquerque Public Schools East Area office. The coordinator of the center is Ms. Patricia Bailey of Delta Sigma Theta Sorority. All materials are on loan to school teachers.

The total amount of funds generated to support this project is around \$6,000.

Black Experience Television Program

The Afro-American Studies Black Experience television program has been an effective vehicle utilized to educate the public about black perspectives and disseminate information. Some of the educational programs assist in the development of positive self-concepts of black children in the Albuquerque area. The program is diversified and programs are developed to present the Black Experience in the areas of Education, Government, African Arts and Dance, History, Poetry, etc. To assist me in this endeavor, Professor Shiame Okunor, Acting Assistant Director, and Mr. Louis Duncan have been quite proficient in the planning and hosting of the television program. This media vehicle has greatly assisted the Afro-American Studies Program in its effort to project both university and community involvement.

Ethnic Communities Inc. for Senior Citizens

The sponsoring of such a program for Senior Citizens in the

-5-

Albuquerque area has been a rewarding experience. This program provides the elderly citizens with the opportunity to maintain a status of being productive members of their respective communities. Most of the classes encompass arts and crafts, macrame, knitting, recreation, etc. A special part of the program is a schedule of educational field trips and picnics. Mrs. Anita Edmond is the project director and her leadership and hard work has to be commended.

The total amount of funds generated for this project is around \$5,000.

Junior Uhuru Sasa - Center of Performing Arts

This project was founded by Mr. Sam Johnson in 1969. Mr. Johnson, who received his Juris Doctorate of Law degree from UNM and who is presently a Legal Specialist for the Law School, has been the Director of this African dance troupe since its inception. This group of young performers is designed to project the African - Afro-American experience through dance, drama, song, etc. "Uhuru Sasa" is Swahili, which means "Freedom Now." The purpose of this Center of Performing Arts group is to enlighten its audience about the rich cultural heritage of African people in both Africa and the United States. For example, dramatic scenes depict the realities of the institution of slavery and present-day ghetto areas of America. During the 1977 year, Junior Uhuru Sasa performed for Governor Jerry Apodaca in Santa Fe, has performed on the Black Experience Television Program and performed at the New Mexico State Fair during the cultural fes-

tivities. Because of the demand for this group to perform, several proposals have been constructed to secure funding.

New Mexico Black Studies Consortium

The Afro-American Studies Program at the University of New Mexico is the state clearing house for the New Mexico Black Studies Consortium. Dr. Harold Bailey is the State Chairperson of this Black Studies Consortium. The educational institutions participating in this state organization are as follows:

New Mexico Tech University
New Mexico Highlands University
University of Albuquerque
Eastern New Mexico University
New Mexico State University
University of New Mexico
College of Santa Fe

One of the highlights of this year's activities was the New Mexico Black Studies Consortium Banquet. Representatives from the above institutions were present along with representatives from the various student organizations on the various campuses. The Keynote speaker for this occasion was Dr. Joseph Russell, Executive Director of the National Council for Black Studies. Dr. Russell's presentation was Black Studies in Higher Education.

As State-Chairperson, I constructed and submitted a proposal for funding to the New Mexico Bicentennial Commission. The proposal was accepted and the State Consortium received two-thousand dollars (\$2,000) for program operation. As indicated in prior reports, the New Mexico Black Studies Consortium was organized to coordinate the efforts of Black Studies Programs across the state of New Mexico. This state organization is par-

ticularly concerned with the institutional acceptance and support of Black Studies in the state of New Mexico. It should be understood by all that the academic field of Black Studies is not segregated for only black students. The major purpose of Black Studies is to provide the university community (students) with the opportunity to obtain knowledge, awareness and academic experiences in relation to the Black Experience; for example, history, political science, literature, education, sociology, law, language, etc. The field of Black Studies encompasses all of the major educational disciplines.

Youth Enrichment Program

The Afro-American Studies Youth Enrichment Program has continued to be one of the most successful youth programs in the city of Albuquerque. The program has ended its second year of funding from the Governor's Council on Criminal Justice Planning. The students participating in the program are between the ages of 7-12 years. The enrollment is well over two hundred (200) and students are still on the waiting list to receive the educational and recreational services offered through the program. The major purpose of the Youth Enrichment Program is to provide disadvantaged youth in high crime rate areas in the City of Albuquerque an opportunity to come to the University of New Mexico and participate in a constructive youth project. The courses and activities offered in the program are as follows:

African History
Afro-Dance
Arts & Crafts

Swimming
Physical Fitness
Karate

-8-

Black History
Wood Carving
Team Sports

Black Art
Educational Fieldtrips
African Hairbraiding

The Afro-American Studies Program has been providing these specific services to the youth of Albuquerque for seven (7) consecutive years. Some of the highlights of this year's program are: an educational fieldtrip to the State Capitol Building in Santa Fe, to visit with Governor Jerry Apodoca and Dr. Charles Becknell, Executive Director of the Governor's Council on Criminal Justice Planning; a visit to the Albuquerque Rio Grande Zoo and a tour through Jill's Bakery. A track meet was scheduled for the program students at the university's football stadium. During this event program instructors, student aides, parents and other community adults participated along with the students. We also had a "celebrity 100 yard dash" and a "celebrity relay" (myself included). Also, a basketball game between instructors and student aides was played for fun and enjoyment. These particular activities which included the administrative staff were greatly enjoyed by the students and parents.

The final program which is open to the public was held in the Student Ballroom of the University of New Mexico on August 7, 1977. This program drew an audience of over four hundred people. Activities included were African dances, Karate demonstrations, Arts and Crafts exhibits, African wood carving displays, Black History recitals and award presentations. The students performed with enthusiasm for the audience and the parents seemed very proud of their children. Another important event was the

Afro-American Studies Back To School Community Picnic which was held in Kirtland Park in the black community. The students in the Youth Enrichment Program once again performed and the audience was well over fifteen-hundred (1500) people. As indicated before, the relationship between on campus students and off campus community persons is very close.

Although the Afro-American Studies Youth Enrichment Program serves the youth of our city in regards to educational and recreational services, the program also serves as an employer of disadvantaged youth. In cooperation with the Albuquerque Youth In School Program, the program was able to secure employment for thirty-three (33) teenagers. Also, in cooperation with the City Parks and Recreation Department, several other aides were hired to work in the program.

An important facet of the Youth Enrichment Program is to assist the City of Albuquerque in its overall effort to minimize juvenile delinquency. Mr. Sam Johnson and Mr. Ivory Moore, Administrative Assistant, have worked very closely with the City Probation Department, the Diagnostic Center for Juveniles with Dr. Richard Rodriguez, and several judges in the Juvenile Court system. The City Probation Department has consistently referred persons to perform "community service" by working for the Youth Enrichment Program.

A very important element of the program that should not be overlooked is the academic credit available to University of New Mexico students. During this year several graduate students ob-

tained field experience and one particular graduate student taught a course on Personal Hygiene - Health for the young children. Also, several undergraduates received academic credit and field experience. In particular, Mr. Michael Cooper of the UNM basketball team conducted a two week basketball clinic for the students. Over the past year, I have contacted various departmental chairpersons in an effort to increase the number of students receiving academic credit. Hopefully, UNM students majoring in elementary education, counseling, physical education, recreation and health, and other teacher training fields will be required to work with the Afro-American Studies Program to obtain their field experience and training. The youth program can be utilized as a vehicle to train perspective public school teachers.

The accomplishments of the Youth Enrichment Program are due to the support given by the Albuquerque community, parents of the participating students and the expertise of the administrative staff. The staff is as follows:

Administrative Staff

Director - Prof. Sam Johnson
Juris Doctorate of Law

Administrative Assistant - Mr. Ivory Moore
Ph.D. Candidate - Recreation

Sports Coordinator - Mr. Aundra West
Bachelors Degree

Instructors

Prof. Shiame Okunor - Ph.D. Candidate
African History

Ms. Debra Johns - Masters Program
Black History

Mr. Musami Muasa - (2) Masters of Art Degrees
Afro-Song

Ms. Janice Johnson - Masters Program
Reading Specialist

Ms. Carlotta Mitchell - Masters Program
Reading Specialist

Dr. Harold Bailey - Ph.D.
Karate

Mr. Louis Duncan
Swimming

Mr. Okechukwu Romaine
Wood Carving

Mr. Jerome Pickett
Black Art

Prof. Sam Johnson
Afro-Dance

Mr. Aundre West
Team Sports

Ms. Patricia Caver
Afro-Dance

A major problem that faced the Youth Enrichment Program during this program year was funding. Lengthy meetings were held with UNM administrators and culminated with a presentation to the University of New Mexico Board of Regents. After discussion of the issues and consideration given by both the Board of Regents and UNM President William Davis, nine thousand cash dollars (\$9,000) were allocated to the Youth Enrichment Program. Also, President Davis indicated that not more than four thousand dollars (\$4,000) will be appropriated in the future for this youth project.

Young children who participate in the youth program do not

-12-

understand the complication of finances for their program. Therefore, keeping the students in mind, several efforts have been made by the administrative staff of the Youth Enrichment Program and myself to secure additional funding for this project. A proposal has been constructed and submitted to the City of Albuquerque. The total budget for this proposal is \$153,000. Also, discussions have taken place with the City Parks and Recreation Superintendent and free hot lunches will be made available to the students in the Youth Enrichment Program beginning the summer of 1978.

Total amount of funds generated for this youth program is about \$33,000. This figure excludes In-Kind matching funds.

Student Emergency Loan Fund

The Afro-American Studies Student Emergency Loan Fund was developed to assist black students during those times of emergency. The fund was started a few years ago with a donation of five hundred dollars (\$500) by the Omega Psi Phi Fraternity, Inc., Nu Rho Graduate Chapter, located in Albuquerque. Additional funds exceeding one hundred and fifty dollars (\$150) have been raised to supplement the amount. Those students utilizing this fund can borrow up to fifty dollars (\$50) and repay within a specified time. This project has been greatly utilized by students. All funds are administered through the university's Student Aids Office.

Lenton Malry Scholarship Fund

The Afro-American Studies Lenton Malry Scholarship Fund was developed to honor the only Black in the New Mexico State Legislature, Dr. Lenton Malry, and provide an opportunity for some black student to enter into the field of Political Science. In the past, a tuition scholarship has been given and a minimal amount for books. Representatives from the Albuquerque black community assist in the selection process.

As Director of the Afro-American Studies Program, State Chairperson of the New Mexico Black Studies Consortium, and as an Executive Boardmember of the National Council for Black Studies, I have many obligations and responsibilities. During the past year I was Keynote speaker during Black History Week for New Mexico Highlands University and the New Mexico Tech University - Black Forum. I also delivered the Keynote address at the Albuquerque High School Graduation Ceremonies, Class of 1976. I have traveled to the various universities in the state speaking to students, administrators and faculty members, attempting to assist in the development and implementation of Black Studies. I have made several trips in the East, Mid-West and South recruiting black students and potential black faculty members. I toured the South and visited with Dr. George Owens, President of Tougaloo College and Dr. Peoples, President of Jackson State University. I also met with the Academic Deans of Grambling University and Prof. John Johnson of Mississippi Valley State Uni-

-14-

versity. The majority of these trips and return trips were at my own personal expense. I feel that these positive lines of communication established between these institutions and the Afro-American Studies Program at the University of New Mexico is more important than the expense.

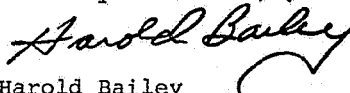
In regards to the National Council for Black Studies, I have traveled to Princeton, New Jersey to assist in the planning of our Second National Convention. This convention will be held on the campus of the University of Massachusetts at Amherst in April, 1978. An interesting point to note is that the National Council has proposed to have its Third National Convention in Albuquerque, New Mexico and have the Afro-American Studies Program host it. Hopefully, things can be organized by the Afro-American Studies Program and the central administration to host this convention in 1979 or 1980.

There are many more endeavors that can be documented that the Afro-American Studies Program has been involved in which pertains to the university and the state-wide black community. However, the information included in this report should give one a better insight into the purpose and operation of the program. Although the program is functioning extremely well for the minimal budget allocated, I am again offering a list of recommendations as Program Director. My prime objective is to obtain the genuine support of the University of New Mexico. Therefore, the following recommendations will reflect my objective:

-15-

- 1) Grant departmental or divisional status to the Afro-American Studies Program based on its individual academic oriented record.
- 2) Provide additional money for the recruitment of full-time faculty members and part-time instructors.
- 3) Provide the opportunity to Afro-American Studies faculty to gain tenure rank.
- 4) Provide the program with a separate recruiting budget to increase the number of black students on campus.
- 5) Provide funding for one additional full-time administrative staff member. (Presently, there are only the Director, Assistant Director and Staff Secretary on a full-time basis.
- 6) Provide additional office space for this rapidly expanding program.
- 7) Increased funding for travel
- 8) Provide funds for research study on Blacks in New Mexico.

Respectfully Submitted, .



Dr. Harold Bailey
Director,
Afro-American Studies
University of New Mexico

HB:aj



STATE OF NEW MEXICO

OFFICE OF THE GOVERNOR

SANTA FE

87503

JERRY APODACA
GOVERNOR

July 27, 1977

Mr. Harold Bailey, Director
Afro-American Studies
University of New Mexico
Albuquerque, New Mexico 87131

Dear Mr. Bailey:

I am honored by the presentation of the plaque from the Afro-American studies program. As governor, it is my privilege and pleasure to promote such worthwhile community services.

My staff and I would like to express our appreciation for the cultural program presented by the summer youth program participants. The songs and dances were both entertaining and educational. It was encouraging to see young people recapturing their heritage in such a positive and obviously enjoyable manner. Best wishes for your continued success in the program.

Sincerely,

JERRY APODACA
Governor

JA/mr



THE UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, NEW MEXICO 87131

OFFICE OF THE PRESIDENT

June 14, 1977

TO: Members of the Board of Regents
FROM: William E. Davis *William E. Davis*
SUBJ: Youth Enrichment Program

By direction of the Board of Regents at their meeting of June 13, 1977, I have reviewed the budget request for the Youth Enrichment Program for 1977-78.

Contrary to certain allegations, the University at no time has indicated a withdrawal of support for the Youth Enrichment Program. What the Provost and I questioned, and still question, is to what extent the University should be responsible for the major commitment of funds.

This year's \$27,000 budget projected by Dr. Bailey does not refer to previous or continued UNM indirect cost sharing or cost sharing from the Afro-American budget. Last year this amounted to \$3,999 UNM cost-sharing and \$5,421 Afro-American cost-sharing -- a total of \$9,420. Add this to Dr. Bailey's proposed budget for 1977-78, and the total is \$36,402 -- an increase of \$10,717 over this year's budget of \$25,685 -- or a 44% increase.

Dr. Bailey's proposal for a cash match from UNM, as I understand, was for \$18,000 compared to no UNM cash match for fiscal 76-77.

Considering these factors, I approved a \$3,000 cash match on June 6, 1977 with the belief that UNM cost-sharing from all services would probably continue to be approximately an additional \$10,000.

In carrying out what I perceive to be the intent of the Regents, I am approving a one-time cash-match of \$9,000 to be supplemented by continuing past indirect cost-sharing by UNM and the Afro-American budget of approximately \$10,000.

This is to be applied toward the total budget (which based on last year's figures would have been about 73% of \$26,000). Any additional funds should be generated from other sources.

I further recommend that the University at this time go on record that while it intends to continue as a participant in the program through cost-sharing and use of facilities, future cash commitments will not exceed \$4,000 per year. Thus, continuation of the program will necessitate a viable fiscal plan established well in advance of the actual implementation of the program.

In no way does this imply a lack of enthusiasm for the program, which I and others believe has exceptional merit. It does reflect my belief that UNM's participation should be as a partner providing facilities, indirect costs, and a limited share of cash contributions supplemented either by community or state funds earmarked for this purpose.

WED:eb

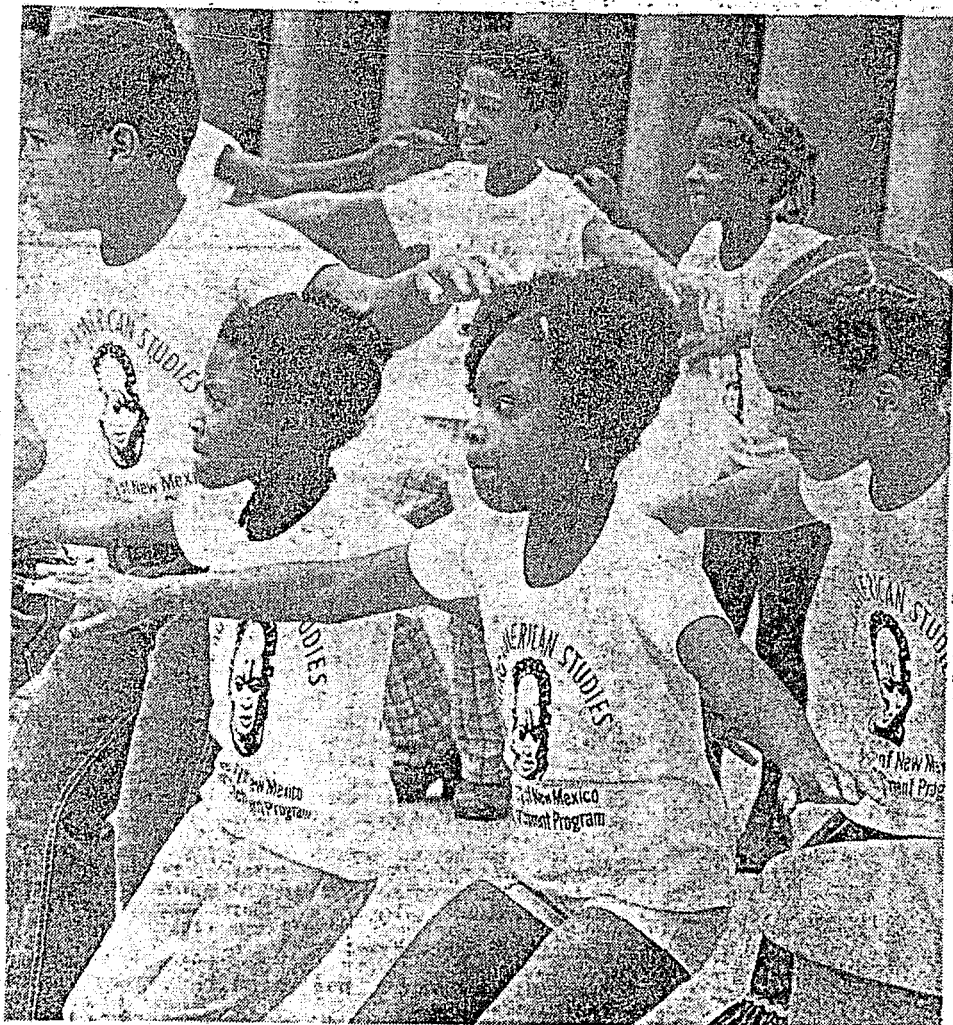
cc: Provost Chester Travelstead
Joel Jones
Vice President John Perovich
Dr. Harold Bailey
Sam Johnson

Enclosures



JUNIOR IHHURU SASA EMERGED FROM THE YOUTH ENRICHMENT PROGRAM

A-2 ALBUQUERQUE JOURNAL Thursday, July 22, 1976



Journal Photo by Ray Cary

Come On, Let's Dance

Albuquerque's Civic Plaza was the site of "Youth Enrichment Day" Wednesday with demonstrations given in Afro-American dance, karate and arts and crafts. Maria Umphrey, 8, is lost in total concentration as she does her best in dancing. She and her companions are involved in a summer project at UNM and is part of the Afro-American Studies Center's youth enrichment program. Maria is the daughter of Mr. and Mrs. Albert Umphrey, 3815 Riverview SW.

UNM Program Draws Black Youths

When Sam Johnson asks "Who are you?" 120 young people participating in a summer youth program on the University of New Mexico campus respond loudly, "We are African people."

Johnson, a recent UNM law school graduate, is director of the summer recreation project sponsored by UNM's Afro-American Studies Center.

"It's a program that promotes self-pride and betterment of the individual," Johnson said.

In its sixth year, the summer program has grown from 18 children in 1970 to a current enrollment of 150 youngsters aged 7 to 12.

"Our program is effectively reaching the black youth of Albuquerque," Johnson said. "Geographically, Albuquerque doesn't have a black community as such. Blacks are located

citywide so we try to reach young people from all over the city."

Buses and UNM vehicles pick up the children daily at 21 points located in all quadrants of Albuquerque.

The New Mexico Criminal Justice Planning Council, headed by former Afro-American Studies director Charles Becknell, recently awarded a \$16,000 grant to help fund the summer project and other year-round activities of the center's Youth Enrichment Program for fiscal year 1976-77.

"The association with the summer youth program and youth enrichment has affected, in a positive way, the behavioral patterns of our students," Dr. Harold Bailey, program sponsor, said.

"The problem of staying away from school has been minimal," he added. "Major incidents with the law have been substantially reduced

and parents of students have indicated to us that the program is one of the best they have seen."

In addition to the children enrolled, the recreation project employs 25 high school students who work as staff aides.

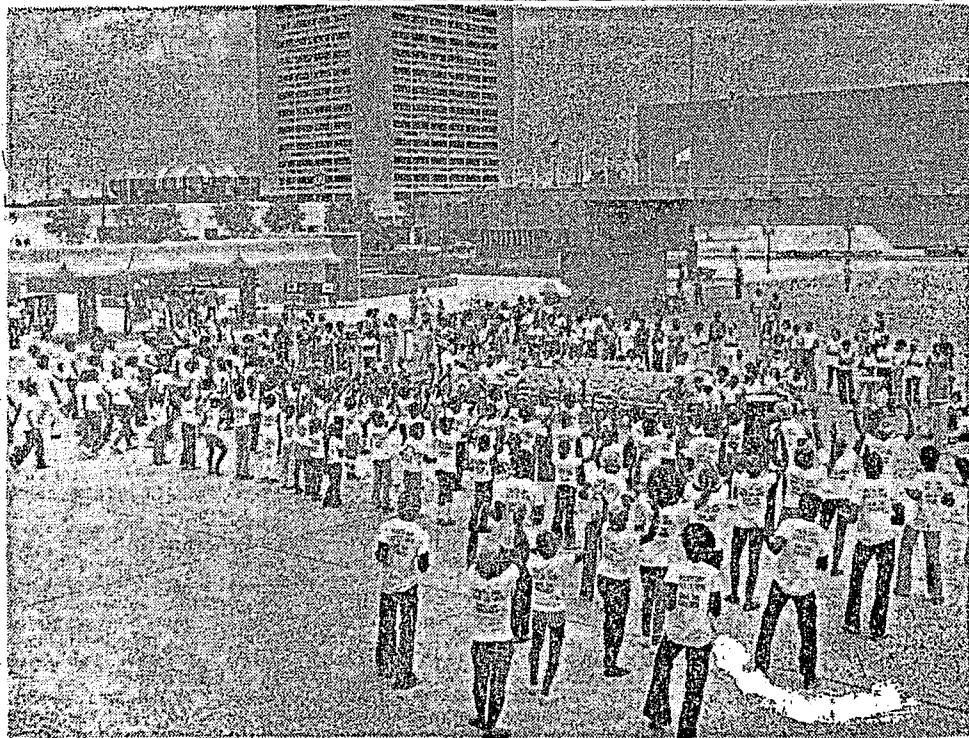
Some are paid through funds provided by the Youth In School Employment Program.

"The aides are required to take three classes themselves while they work with us," Johnson said. "They take African history, karate and Afro dance. Most of them have been through the program themselves when they were younger."

Johnson said he thinks the employment of high school students is an important part of the summer program. "It gives them something to do every day and it's educational," he said.

The Albuquerque Tribune, Thursday, July 22, 1976

D-5

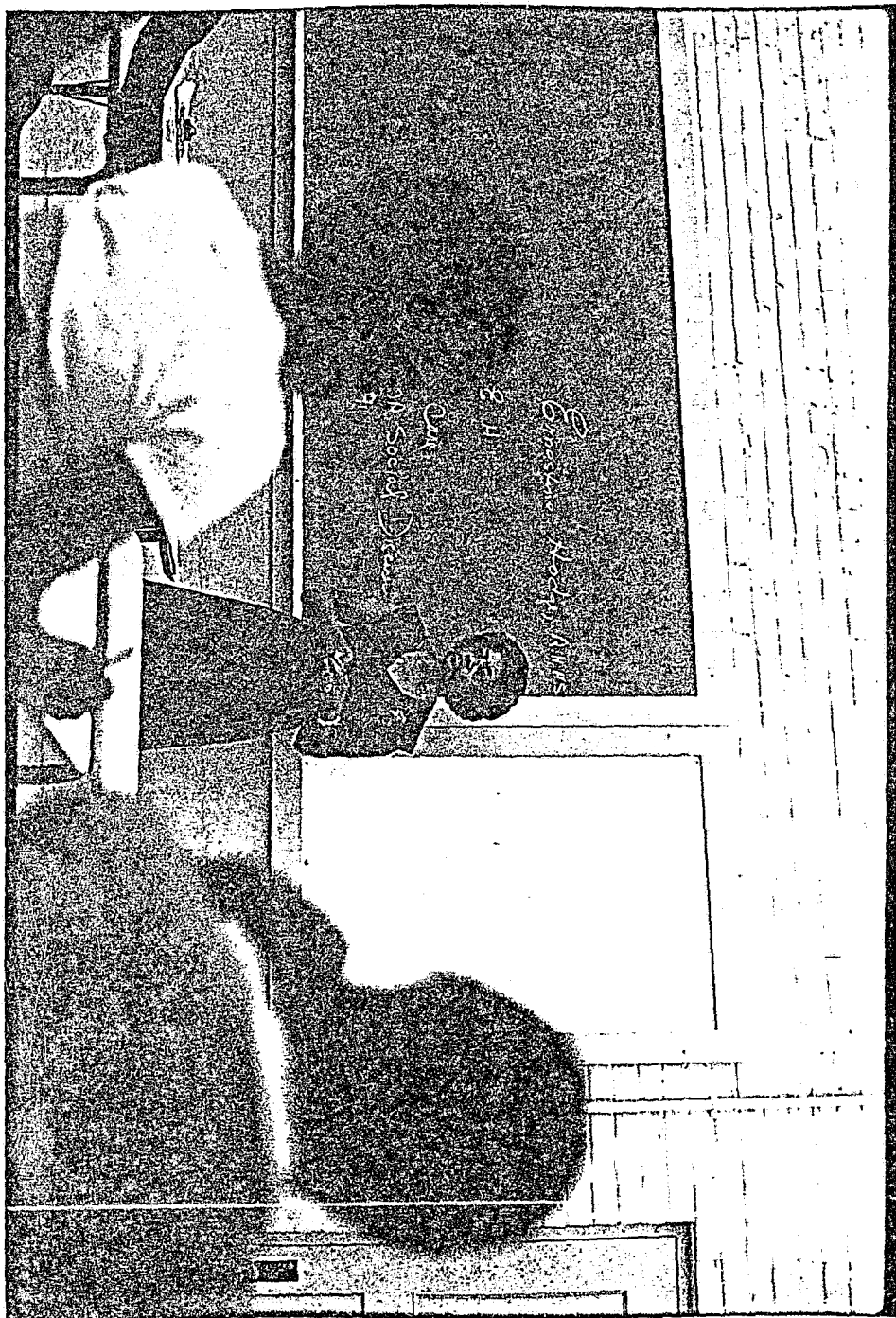


Hands up

Youngsters demonstrated Afro-American dance, karate, arts and crafts and wood-carving during "Youth Enrichment Day" at the Civic Plaza Wednesday. Participants,

aged seven to 12, are involved in a special summer program at the University of New Mexico sponsored by the school's Afro-American Studies Center.

(Staff photo by Al Calvert)



FEMALE
 9-10
 FIRST
 PLACE
 AERO
 AMERICAN
 STUDIES
 TRACK
 MEET

1977

440 RELAY

MALES
 9-10
 SECOND
 PLACE
 AERO
 AMERICAN
 STUDIES
 TRACK
 MEET

1977

440 RELAY

MALES
 7-8
 FIRST
 PLACE
 AERO
 AMERICAN
 STUDIES
 TRACK
 MEET

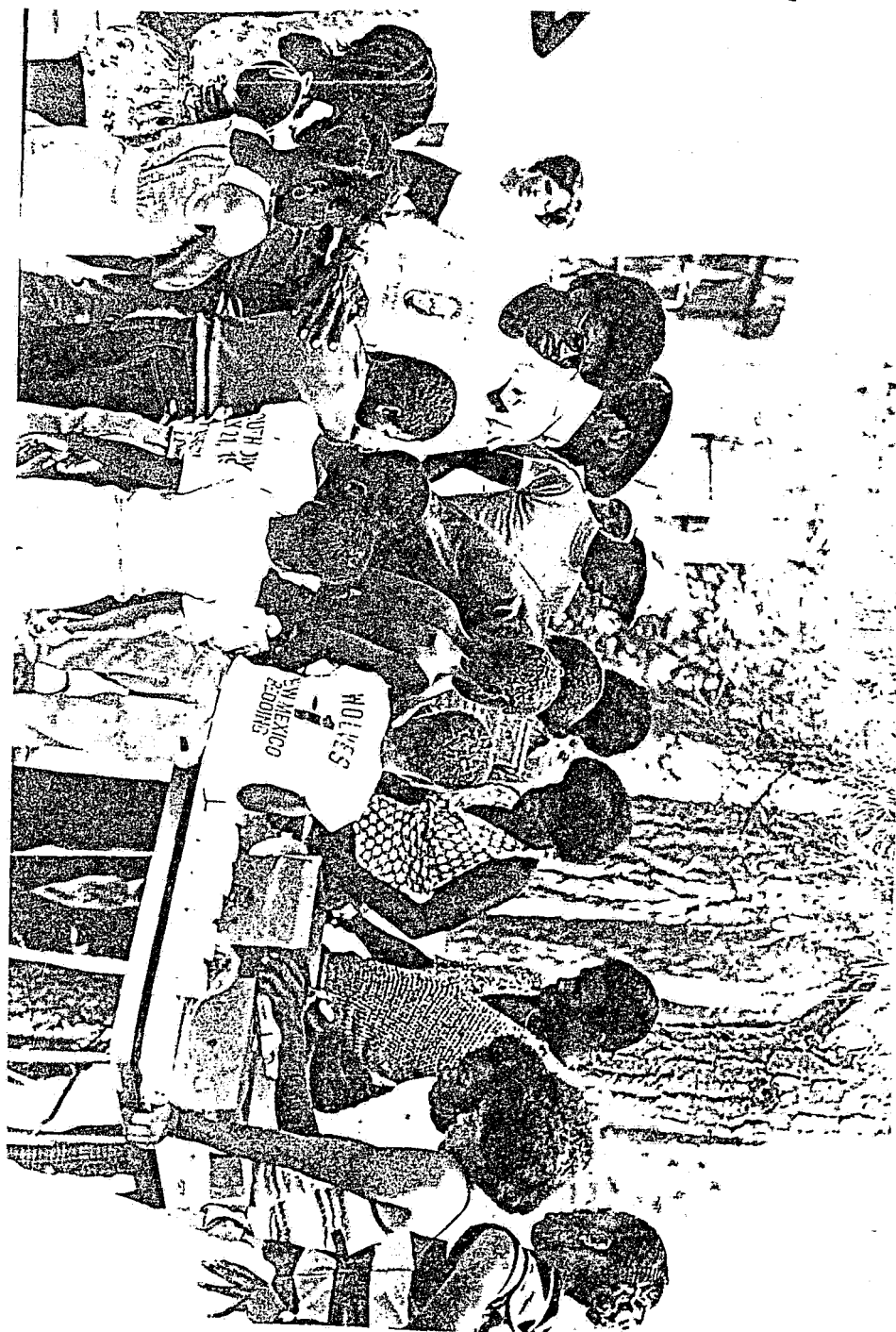
1977

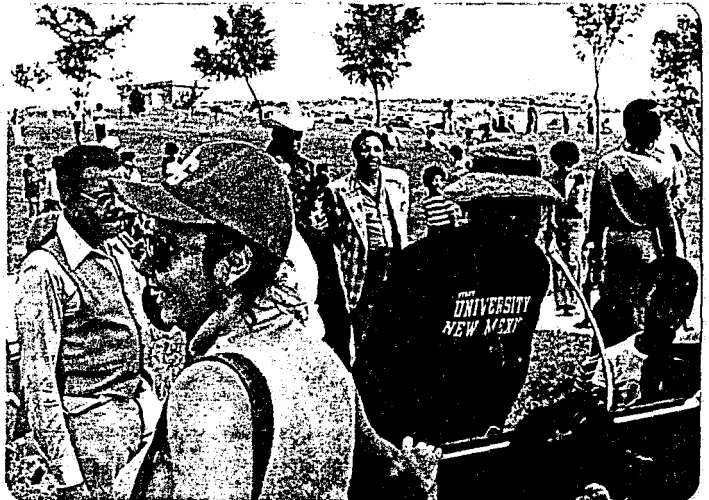
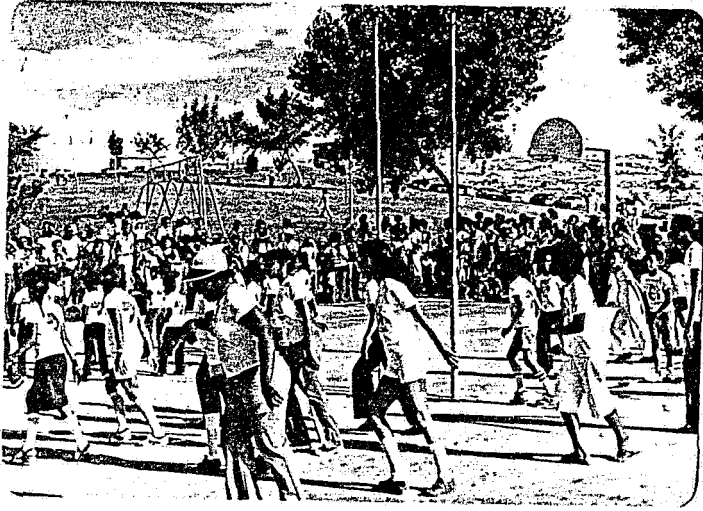
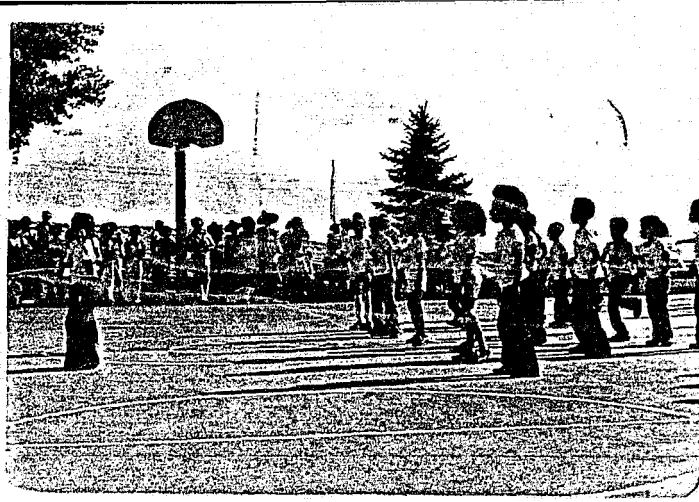
SOFT BALL
THROW

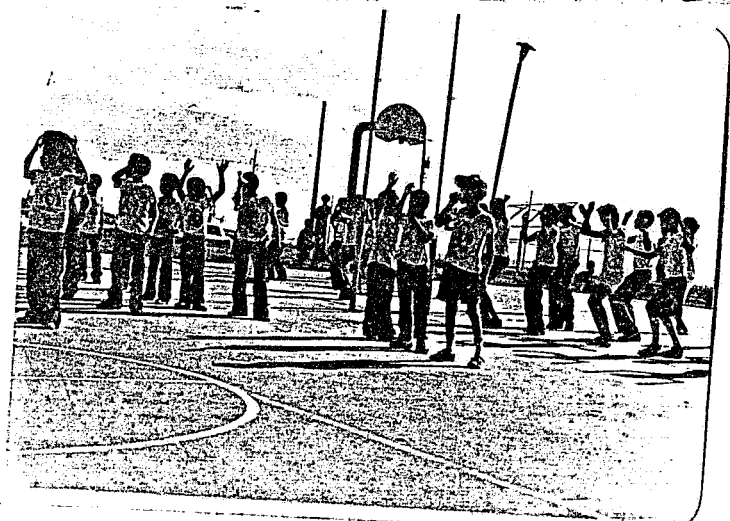
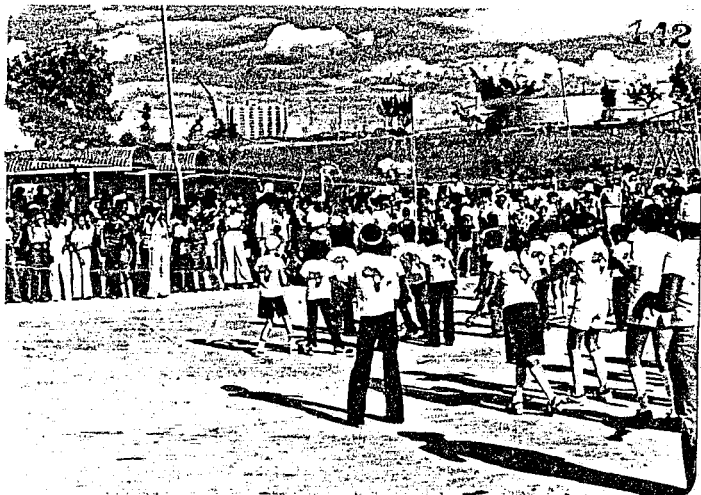
PARTICIPANT

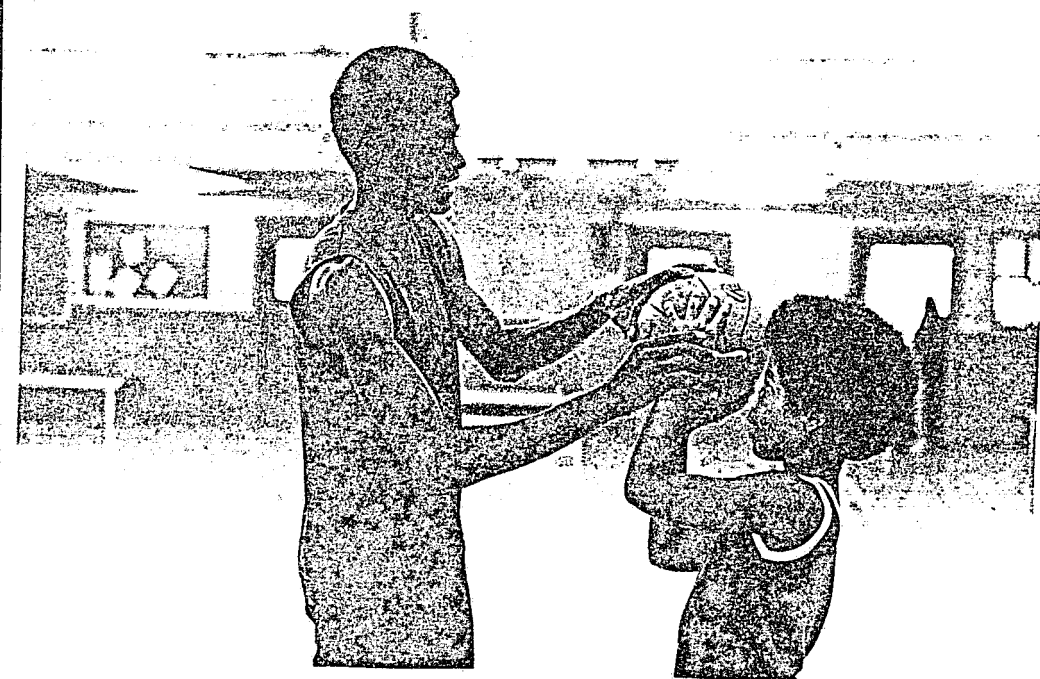
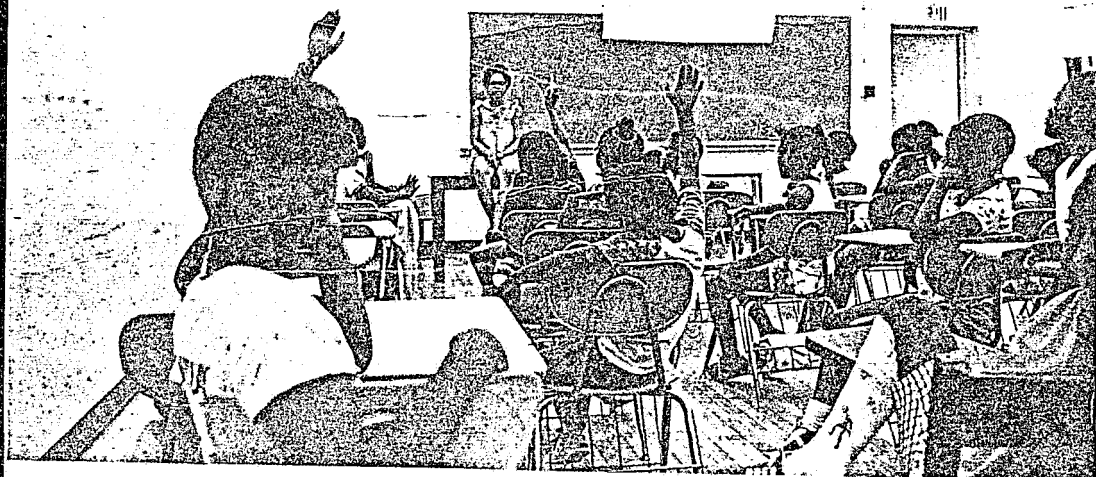
AERO
 AMERICAN
 STUDIES
 TRACK
 MEET

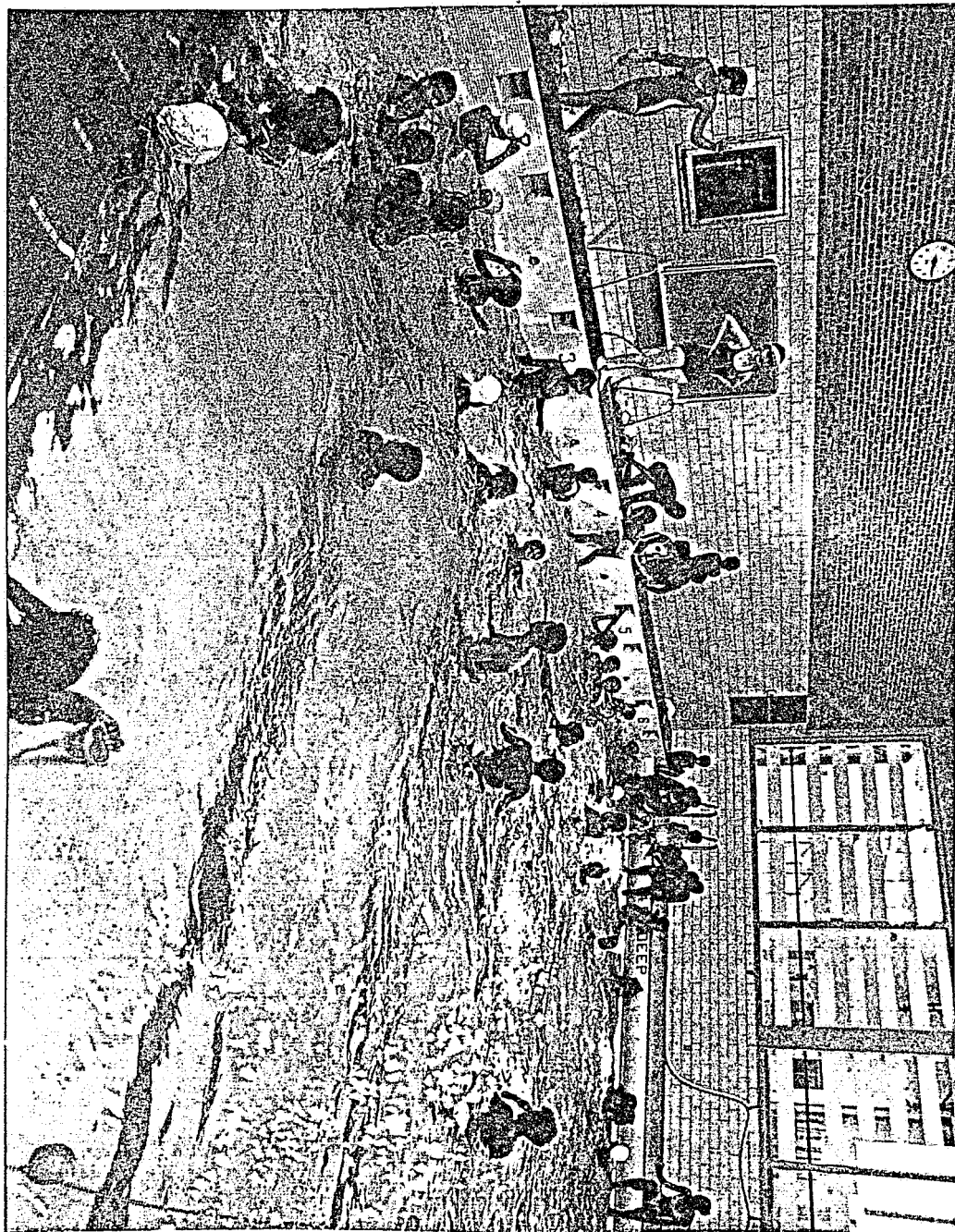
1977











AFRO AMERICAN STUDIES PROGRAM

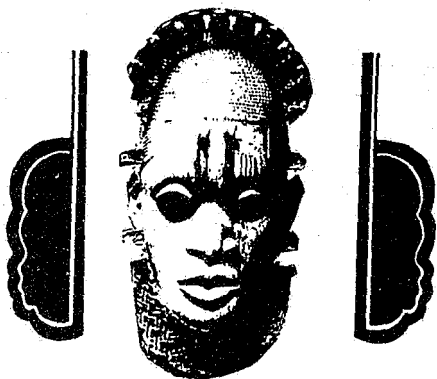


BLACK CULTURAL WEEK
with emphasis on
CAREER DAY

Black High School Students
April 28 - May 3, 1977

THE UNIVERSITY OF NEW MEXICO

AFRO-AMERICAN STUDIES
YOUTH ENRICHMENT SUMMER PROGRAM
UNIVERSITY OF NEW MEXICO



AUGUST 7, 1977
UNM SUB BALLROOM
ALBUQUERQUE, NEW MEXICO
4:00 P.M.

YOUTH ENRICHMENT PROGRAM
Director, Bro. Sam Johnson

Administrative Assistant
Bro. Ivory Moore

Afro-American Studies
Director, Dr. Harold Bailey

Activities Coordinator
Bro. Aundre West

THEME

SAVE THE CHILDREN

PROGRAM MOTTO

WHO ARE YOU?

WE ARE AN AFRICAN PEOPLE

WHY?

BECAUSE WE ARE DESCENDENTS FROM AFRICA

SO WHAT?

SO WE ARE BLACK AND BEAUTIFUL

WHY?

BECAUSE WE ARE A PROUD RACE OF PEOPLE

SPECIAL THANKS

Parents, Delta Sigma Theta, County & City Parks & Recreation, Criminal Justice Planning, U.N.M., the Local News Media, National Council of Negro Women and the community at large.

PROGRAM

Welcome	Bro. Ivory Moore
Black Pledge, Motto, "Lift Every Voice and Sing"	
. Black History Class I and II	
I. Karate	Students
. Afro-Dance	Students
Closing Remarks	Bro. Sam Johnson

SLIDES AND FILM

-- African Wood-Carving --
on display in the lobby

Special Presentation - Jr. Uhuru Sasa
African Mating Dance

This Year's Program Is Dedicated To:

Parents and Supporters of the Youth Program

INSTRUCTORS

Dr. Harold Bailey
Bro. Louis Duncan
Sis. Pat Caver
Sis. Ernestine Hodge
Sis. Ruby Holloway
Sis. Debra Johns
Bro. Sam Johnson
Bro. Ivory Moore
Prof. Shiame Okunor
Bro. Okechukwu Romaine
Sis. Francine Singleton
Bro. Aundre West

Afro-American Studies Secretaries

Mrs. Bonnie Gatson
Sis. Angela Juzang

STUDENT AIDES

R.B. Ard, Jr.	Robert Jacob
Loretta Ard	Steve Jacob
Lolita Bradley	Gregory Miller
Bobby Brown	Chris Nicks
Suzanne Brown	Matt Seigler
Micheal Bailey	James Etta Lewis
Cyrette Edmon	Lewis Davis
Johnny Ellis	Lawrence Flanders
Robert Goodloe	Brenda Thomas
Sharon Goodloe	Elnora Thomas
Barbie Dean	Paula White
Brenda Ragin	Vanessa Williams
Linda Wallace	David Williams
Rhonda Howard	

NEW MEXICO BLACK STUDIES CONSORTIUM

BANQUET
Feb. 12, 1977
7:00 P.M.

PROGRAM

Invocation	
Black National Anthem	Sis. Wilma Flecher Univ. of Albq.
Welcome	
Introduction of Head Table.....	Dr. Harold Bailey State Chairperson
Poetry Selection (Brown Baby).....	Sis. Phyllis Jordan UNM
Introduction of Black Faculty.....	Prof. Shiame Okunor Adm. Asst., Afro- American Studies, UNM
Introduction of Guest Speaker	Bro. James Lewis Univ. of Albq.
Award Presentation	Bro. Mike Davis Eastern New Mexico Univ.
Closing Remarks	Dr. Harold Bailey

Members, New Mexico Black Studies Consortium:

Bro. Andrew Wall, Director, Black Programs, New Mexico State University
Bro. Mike Davis, Director, Black Affairs, Eastern New Mexico University
Bro. James Lewis, Regional Director, National Council For Black Studies, University of Albuquerque
Sister Yvonne Russell, Representative, College of Santa Fe
Prof. Shiame Okunor, Administrative Assistant, Afro-American Studies, University of New Mexico
Dr. Harold Bailey, State Chairperson, University of New Mexico

Black Student Alliance is a state-wide student organization comprised of black students from each educational campus.

OUR EFFORTS ARE DEDICATED TO THE
SURVIVAL OF BLACK STUDIES

ided

explained that many are finding ways to the black studies is well-meaning Amcri- re saying black stud- no longer popular, uncertain about fund- said. Some just ask, are black studies?"

expressed hope that s will change and studies will grow ex. He told the stu- there is much re- to be done on black s to New Mexico and ms of the West.

Chairman Dr. Harold said black studies a part of educational ions through the pro- black students in the 2002. UNM black s of studies originat- similar way, he said.

I would like to take this opportunity to thank each of you for coming to this very important banquet sponsored by the New Mexico Black Studies Consortium. It must be understood that the major reason for Black Studies being a part of educational institutions across the country is due to the efforts of protesting black students in the late sixties. Because of their determination, concern for educational change and never tiring protests, Black Studies became a reality. The New Mexico Black Studies Consortium was founded under similar circumstances. Black students, black administrators and black faculty members met endlessly around the state of New Mexico attempting to construct a state-wide organization that would assist in fulfilling the needs of black Americans in New Mexico. The Consortium concept has proven to be effective.

Again, we thank you for your support and if we all continue to fight institutional and social racism a better relationship between peoples of New Mexico can be established and maintained. If one is not a part of the solution, then one is part of the problem.

Respectfully,

Dr. Harold Bailey
State Chairperson
New Mexico Black Studies Consortium

UNM Black Lack Chided

The executive director of the National Council on Black Studies said in Albuquerque Saturday he is disappointed that the University of New Mexico does not have a black faculty member.

Dr. Joseph Russell of Indiana University said, "It is very distressing for 1977, the year following America's Bicentennial, that a university which has over 1,000 faculty members cannot have a single black, tenured staff member."

In a speech before members of a state Black studies group, Russell said, "I think that is a fallacy which must be corrected very, very soon."

Russell was guest speaker at the New Mexico Black Studies Consortium banquet held at the Albuquerque

Convention Center. He is chairman of Afro-American Studies at Indiana University.

He spoke to about 200 black UNM students, various black state leaders, and local officials. Mayor Harry Kinney was among the guests.

Russell, an educational psychologist, said black scholars are attempting "to harness the intellectual potential of the black community" by asking "how do you organize black educational power for equality and strengths?"

But their attempts face a struggle "against methodical attempts to depress black culture, education, potential and social change," he said. The strongest resistance comes from the universities and colleges, he said.

He explained that many schools are finding ways to evade the black studies issue. "Well-meaning Americans" are saying black studies are no longer popular, "so be uncertain about funding," he said. Some just ask, "What are black studies?"

He expressed hope that attitudes will change and black studies will grow stronger. He told the students there is much research to be done on black pioneers to New Mexico and other parts of the West.

State Chairman Dr. Harold Bailey said black studies became a part of educational institutions through the protests of black students in the late 1960s. UNM black protests of studies originated in a similar way, he said.

First Convention of the National Council for Black Studies: Firmer Outline For Black Studies Sought.



Ann Skinner, reporter for the *Cleveland Plain Dealer*, interviewed professional and student participants at the First National Convention of the National Council for Black Studies in order to ascertain the prevailing attitudes concerning the present state of Black Studies programs and the need for an assertive national organization to insure the continuing viability of such programs and/or departments.

A representative from the Council said the number of Black Studies programs—either formal majors or other programs—has declined from about 500 in the late 1960s to about 200. Because of this attrition, one of the main purposes of the convention was to devise strategy for strengthening and entrenching programs that have survived.

The Council aims to establish itself as an accrediting body comparable to professional associations in such other disciplines as psychology and political science.

"A number of programs grew out of the crisis of the 1960s, and not much thought was given to how they would be implemented or funded," said Dr. Joseph Russell, executive director of the National Council for Black Studies and Chairman of Afro-American Studies at Indiana University. University and college budgets are now less flexible, and special funding that supported Black Studies in some cases has disappeared. He said: "I don't believe it is a deliberate scheme to

get rid of Black Studies, but it's a lack of planning that's coming back to haunt us."

Dr. Bertha Maxwell, council chairman and vice-president for administrative affairs at Johnson C. Smith University, Charlotte, N.C., believes budget cuts reflect white institutional racism. Dr. Maxwell, who developed a Black Studies department at the University of North Carolina, said, "We have a moral obligation to do whatever is necessary to support each other."

"Black studies is a fuzzy concept" said a Black professor of communications during a panel discussion at the convention. A purpose of the council is to define Black Studies more precisely and to stave off what conference participants fear is a trend to dilute or eliminate Black Studies on predominantly white campuses.

Participants in the council's first convention were almost all Blacks. They agreed that Black Studies programs have a special responsibility to help Black students overcome effects of racial discrimination.

To insure that Black Studies survive, they must become an integral part of the university or college structure rather than a special, separate, service-oriented program, most participants said.

Dr. Herman Hudson, vice-chancellor for Afro-American Affairs at Indiana University, urged that Black Studies should have departmental status

and their own faculty. Offices should be established to protect and promote Black culture and Black participation in the University.

The council now has a committee working on standards for Black Studies programs with an eye toward becoming an accrediting agency for Black Studies in the future.

Students' Reaction to the Value of Black Studies

A degree in Black Studies does not assure admission to the first rung of a profession as does a degree in engineering, education, or accounting. But students and graduates of Black Studies programs attending the first convention of the National Council for Black Studies here, say there are personal rewards in Black Studies and indirect professional advantages.

The question of the job-market value of a degree in Black Studies strikes them and their professors as irrelevant. "What happens to them when they graduate? They look for a damn job like the same as anybody else," said one professor, who added that the question has been asked too many times.

Black studies is a major "just like psychology or sociology or any other thing you might major in. It just teaches you to do things to help Black people," said Sayth A. Ruffin, a senior at the University of Cincinnati.

One of the first graduates of Ohio State University's graduate program in Black Studies, Darryl LeDuff, who is working on a doctorate at the New School for Social Research in New York while teaching at a New Jersey college, described Black Studies as "a useful instrument."

"You have to place it in the context of the utility of humanities or social science," LeDuff said, "I would contend that in respect to Black Studies or any other study, its value depends on what the individual has been able to garner from it. When I was an undergraduate and I was applying for a job at IBM, they didn't care what I had a degree in. The degree represents capability."

LeDuff said Black Studies graduates are in demand not only in social service occupations but also in business because of the importance of the Black portion of the market for goods and services.

One of Dr. Maxwell's former students, Cynthia Bennett, a high school teacher, described her need for Black Studies. "There was a need to

Additional Executive Board Officers



James McKee, M.A., Ph.D., Representative-at-Large, State University of New York College at Courtland. Dr. McKee is currently an associate professor and chairman of the Department of Black Studies. He holds degrees in history, guidance and personnel services, and higher education. He has held a variety of teaching and administrative positions throughout his career. He started as a teacher of history and English, and later was appointed to serve as Administrative Specialist. In 1968, he served as Coordinator of Programs for Culturally Distinct Groups at Wisconsin State University. While at Wisconsin, he was not only involved in the recruitment of black faculty and minority students, but his duties also included counseling, advising, and teaching. As a doctoral student at Indiana University (1969-1971), he functioned as a graduate assistant to the Human Relations Commission and as a research associate to the Vice Chancellor for Afro-American Affairs. Since becoming Chairman of the Black Studies Department at the State University of New York College at Courtland in 1971, he has developed the Bachelor of Arts program which currently offers 28 courses.

Alyce P. Hill Wright, M.A., Ph.D., Representative-at-Large, Fordham University. Dr. Wright is currently an Assistant Professor of Black Studies at Fordham University. She has worked as an instructor in French and Black Studies at Vassar College. In 1970-71 she received an Advanced Study Fellowship for Black Faculty Members, awarded by Ford Foundation,

which enabled her to spend six months in Paris and Africa (Senegal, Ivory Coast, Camerouns, Dahomey, and Zaire) doing research for her doctoral dissertation—"The Heroes Search for Identity and Personal Integration in Black African Novels Written in French," on microfilm, University of Michigan, 1975. In 1972, she was the recipient of a fellowship awarded by the *National Endowment for the Humanities* for the study of Afro-American Literature. She is currently an active member of the following professional organizations: African Studies Association, American Association of University Women, North East Modern Language Association, and New York State Conference on Black Studies. Her article "The Issue of Afro-American Literature: the Role of the Critic/Interpreter" was published by Afro-American Studies Department of the State University of New York at Albany in the fall of 1976. She is presently working on a book about James Baldwin.



Harold Bailey, M.A., Ph.D., Representative-at-Large, University of New Mexico. Dr. Bailey has been employed by the University of New Mexico since 1971. He began as consultant for the university's Child Development Program. In 1972 he became the Director for the Program, from July of 1972 to 1975 he served as Assistant Director of Afro-American Studies, and he currently the director of Afro-American Studies. He is presently serving as the Chairperson of New Mexico State Black Studies Consortium and of the Equal Rights Employment Opportunity Committee—University of New Mexico, as a consultant on Affirmative Action and human relations, and as a member of the Albuquerque Chamber of Commerce Crime Prevention Committee, and is active in many other community and academic organizations. He received the Outstanding Leadership Award in U.S. Reserve in 1969, the Outstanding Young Men of America Award in 1974, and the first Annual Paul Robeson Award

at the National Black American ¹⁴³Students Conference in 1976. He has published an article in the *Southwestern Afro-American Studies Journal* on Black student athletes and has been the recipient of numerous other awards and distinctions throughout his career.



Mark Ealey, M.A., Representative-at-Large, University of New Mexico. Mr. Ealey has had a diverse career. He was employed for 12 years as a case worker and group psychotherapist with the Department of Corrections, he worked for two years as a parole agent, and was a faculty member of the School of Social Welfare, U. C. Berkeley, until 1969 when he became Chairman of the Black Studies Department. Since 1970 he has been the Director of the Institute on Race, Culture, and Human Dignity and has served as a member of KTVU (Channel 2, Oakland) Community Affairs Department Advisory Committee. He was the recipient of the Outstanding Professional in Human Services Citation, awarded by the American Academy of Human Services, 1974, and was invited to participate in the Institute of Inter-Cultural Research, Bergstrasse, West Germany, in the fall of 74. The institute constitutes an ongoing cooperative effort of scholars from Asia, Africa, America, and Europe dealing with questions which hinder understanding among the different religions and cultures of the world. Mark Ealey has also been selected to appear in the following biographies: *Who's Who California, 1974*; *Outstanding Professionals in Human Services, 1974*; *Outstanding Black Professors in the West, 1975*; and *International Men of Distinction, 1977*.

Convention

(continued from page 1)

fulfill something on the inside," she said. "English couldn't do it, math and science couldn't do it. Black Studies helped me to examine who I was."

Self-discovery is a frequent explanation for student interest in Black Studies. "There was a void in my life, in my culture," said LeDuff, whose undergraduate major was sociology. "You need to know who and what you are."

A finalist in the essay contest sponsored by the Council was Laura A. Washington, a senior at Case Western Reserve University. Knowing about Black experiences in the United States and Africa "has been a need ever since I was about 11," she said. "Studying Black Studies is studying me. I am going to school for my people and the more I know about me the more I know about them."

Another finalist was Cleveland Craig Willis, a Princeton University junior majoring in urban affairs. His Afro-American studies fit in with his major, he said, but added, "I do go to a liberal arts school and most of the things you do there are for personal development."



Participants in the NCBS Convention

Black TV Comedies Are 1970s Amos 'n Andy Programs

Tony Brown, executive producer and host of WNET's Black Journal, was a keynote speaker at the first convention of the National Council of Black Studies. The theme of his address was the calculated appeal by the television media to manipulate and demean Black life in America.

Brown stated that Blacks do not realize the extent to which they are being brainwashed against themselves. Black situational comedies are not rated favorably by Brown, who made the following analysis of two popular Black shows, "Good Times" and "The Jeffersons."



In any situation comedy, the plot is basically structured around the psychologically and socially familiar family unit. Society is built around the family unit. Each unit possesses a mother and father figure coupled with a child clown who provides comic relief to the "heavy" message of that unit.

When these same prototypes are applied to the Black situational comedy, we get the 1970s version of the old Amos 'n Andy programs. The other figure in "Good Times" is unable to perform the functions of a man and cannot support his family. He resorts to violence whenever he wants to solve a problem. His relationship with his children, peers, and neighbors is one of threatened violence.

The producer of the series said, "We don't need lack fathers in situation comedies because lack people don't have fathers anyway. We may as well have a situation in which we can depict them in an accurate light."

The mother in the series becomes the father, the person in charge, the person who knows best, the person in which to have confidence in times of crisis.

The child clown, J.J., provides the theme of the program which is "the worst thing that could happen to any human being is to be born black. And the worst thing that could happen to that person is to have been cursed with being black, is to have lived with other blacks, in a black neighborhood."

J.J. is constantly making deprecating remarks about the neighborhood—about someone stealing hubcaps, or about body waste in the elevator. In one episode he is suspected of having venereal disease. Brown notes that you will never see one of the teenagers on "The Waltons" or "All in the Family" think they have venereal disease because that impugns the character and deprives him of any worth in a symbolic sense.

The child clown specialist is the sister. She engages in the banter with him, establishes a negative relationship between black male and black female and provides the object of sex in the unit.

Michael, the invisible child, doesn't exist. He doesn't belong in the unit, he has no definition. Michael likes being Black! And not by accident in a height-conscious society in which worth is attributed to size, he is the smaller of the characters. He is depicted as lacking worth.

In the opening act sketch of "Good Times" Michael is wearing a dashiki and has his fist bawled up. On T.V., whenever there is a person with an afro and a dashiki, he loses. Michael's greatest sin is that he likes being Black. He is constantly insulted in situation after situation and psychological violence is committed on his psyche.

"If we learn the psychological message and understand the one-dimensional characters projected to us as positive black images, you can move up with 'The Jeffersons.' Here integration is postulated as heaven on earth—after integration, what else could a Black possibly want?"

In the "Jeffersons" the black man is still out of control, threatening violence, the black woman is in control of him and everyone in her environment, and there are the same child clowns. But in heaven, a new threat has been added—a "negro" woman and her white husband who incidentally is the taller of the two men.

There is a running dialogue between the "negro" woman and the Black man concerning his lack of height and/or manhood, and his inability to function. She can do this because she has married a white man and by association, has overcome being Black. She also lives, not by accident, on the floor above the Jeffersons.

It is unfortunate that black people think such negative portrayals humorous. It is indeed sad.

We should analyze more carefully the Black images projected on television and be aware of just how it is affecting our minds.

Spotlight on Leon Damas (b. 1912)

Leon Damas, internationally heralded poet and scholar, was presented with an award for his outstanding literary achievement by the National Council for Black Studies at their first national convention.

Mr. Damas is currently teaching in the English Department of Howard University. He is best known for his role as one of the founding fathers of the Negritude movement of the early 1930s. As a consequence of the French colonial domination of his homeland, French Guiana, Leon-Gontran Damas was brought up to observe the



strictest code of white French bourgeois manners. As a young student in France, he soon became one of the major political activists against colonialism and its attendant code of assimilation. He actively fought for the independence of all colonial lands and for the assertion and affirmation of African culture and its various forms of expression.

His poetic themes reflect his continuous struggle to garner the right of self-determination and freedom for all people of African descent and for the downtrodden in general. His first collection of poems, *Pigments*, published in 1937, serves as the first literary expression of Negritude. These poems vociferously reflect his revolt against white domination and repudiate the assimilation of white culture.

Since 1937 all of his efforts, both literary and political, have been devoted to the amelioration of the condition of Black people. Thus, Leon Damas stands as a model for all who hope to advance the cause to which his life has been dedicated.

New Black Publications

Studia Africana: An International Journal of African Studies

The department of Afro-American Studies at the University of Cincinnati is pleased to announce its journal, *Studia Africana*, an international quarterly devoted to theoretical and empirical studies of the Black World. The first issue is scheduled to appear this spring. This multidisciplinary journal is primarily designed to stimulate rigorous study and research in all areas of knowledge concerning Black people throughout the Diaspora and in Africa.

Submitted manuscripts should not exceed twenty typed pages in length, including footnotes, bibliographies, diagrams, etc., and should follow the 2nd edition of the MLA style sheet in all matters of form. All correspondence and submissions should be addressed to:

The Editor, *Studia Africana*
Department of Afro-American Studies
112 Old Commons Building
University of Cincinnati
Cincinnati, Ohio 45221

Another Man Gone: The Black Runner in Contemporary Afro-American Literature by Phyllis Klotman.

Viewing the body of Black narrative literature from the earliest slave narratives to noteworthy fiction of the sixties and seventies, this study traces the theme of flight, and the fugitive, as a significant unifying metaphor in this literature. (1976) \$9.95

Positions in Black Studies

State University College

Position: Possible joint appointment between African and Afro-American Studies and English. For Sept., 1977. Ph.D. with ability to teach Afro-American literature. Knowledge of Caribbean and African literature and experience with English literature a distinct advantage. Salary and rank open. Apply to: Dr. Felix Okoye, Chairman, Recruiting Committee, African and Afro-American Studies, State University College, Brockport, New York, 14420.

Vanderbilt University

Position: Associate or Assistant Professor. Must have Ph.D., preferably in American history, sociology, economics, political science, or English. Position to be filled as early as fall, 1977. Salary and rank dependent upon qualifications and experience. Send resume to Professor James R. Wesson, Box 1595, Station B, Nashville, Tenn. 37235.

Brown University

Position: Assistant Professor or Instructor of Economics for fall 1977. Candidates should be prepared to offer courses in African development and in Afro-American political economy, and are encouraged to offer one course in their own area interest. Send complete dossiers to: Rhett S. Jones, Afro-American Studies Program, Brown University, Providence, RI. 02912.

Afro-American Studies Program at Brown has a one-year replacement position as Lecturer in Afro-American Studies and Associate Director of Black Theatre. Candidate should hold the M.F.A. in directing, have experience in Black theatre, street theatre, and community festival productions, and will be expected to teach one course each semester. Send dossier to same address as above.

Vassar College

Position: Coordinator of the Urban Center for Africana Studies and part-time teaching appointment in Africana Studies Department. Appointment is 2/3 administrative and 1/3 teaching.

The applicant should present academic qualifications in one of the following areas: drama, art, music, or social sciences. Ph.D. preferable. Salary open. Position is available July 1, 1977. (Applications must be in by May 15, 1977.) Forward vita to: Mr. Serge Paul-Emile, Director, Office of Educational Services and Student Relations, Vassar College, Poughkeepsie, New York, 12601.

Western Illinois University

Position: Assistant Professor, Department of Afro-American Studies. Salary depends on qualifications. Contact: Essie Rutledge, Chairperson, Department of Afro-American Studies, Western Illinois University, Macomb, Illinois, 61455.

Eastern Washington State

Position: Director of the Black Foundation Program. Salary \$21,500-\$28,000. Send vita to Robert J. Lloyd, Chairperson, BEP Search Committee, Eastern Washington State College, Cheney, Washington, 99004.

New England News

Already, work is being done to further galvanize the objectives that were outlined at the first Annual Convention of the NCBS. Chester Davis of the University of Massachusetts, along with Ron McMullen of Wesleyan University and Hodan R. Cooper of Boston College, have called for a one-day meeting, in April, of all the directors and chairpersons of the Black Studies programs in the New England area. The purpose of this meeting is to allow the various directors to become acquainted with each other; share and discuss the goals, problems, and successes of their individual programs; and to discuss the purpose and structure of the National Council for Black Studies. There will be one session devoted to the question of the need to formulate a New England regional branch of the NCBS and the possible structure, goals, and procedures the formulation of such a branch will require. The organizers of this meeting have stressed the need for and are counting on the cooperation and involvement of everyone concerned. For more information contact Chester Davis, Dept. Afro-American Studies, University of Massachusetts, Amherst, Massachusetts 01003.

Convention Quotations

Question: What is your impression of the Council for Black Studies?

"This is a well-planned and managed conference. More Black Studies programs should join the Council and participate. I am very optimistic and supportive of NCBS!" Dr. Bill Harris, Dean, Afro-American Affairs, University of Virginia

"I think that it is a little late. There should have been a council right from the very beginning then maybe some of the Black Studies programs which demised might have been saved. Blacks will have to do more research and stop apologizing for having an organization that has been long overdue."

Professor John Henrik Clarke, Department of Black and Puerto Rican Studies, Hunter College, New York, New York

"I think that the Council is a necessary thing and I am unusually impressed with the convention so far. The lectures have been outstanding and the choice of lecturers is superb. This is one of the best conventions I have been to. It illustrates the quality of work being done in Black Studies, contrary to what the critics think. It also silences the critics who raise the question of legitimacy about Black Studies. The degree of scholarship and quality is outstanding!"

Bill Jones, Director of Afro-American Studies Program, Florida State University

"I think that the Council is significant, for it provides an avenue of professionalism necessary to continue on in the struggle for Black Studies programs."

Rev. Americus Hawkins, Instructor, Black Studies, University of Houston

VOICES IN BLACK STUDIES

A newsletter, is a regular publication of the National Council for Black Studies. All inquiries and contributions should be addressed to Dr. Joseph J. Russell, Executive Director, Memorial Hall East, M35, Indiana University, Bloomington, IN 47401, phone (812) 337-6581.

Dr. Joseph J. Russell, Executive Director
National Council for Black Studies
Memorial Hall East, M35
Indiana University
Bloomington, Indiana 47401

Nonprofit Organization
U.S. Postage
PAID
Bloomington, Indiana
Permit No. 2

The University of New Mexico
THE REPORT OF THE GRADUATE SCHOOL
July 1, 1976 - June 30, 1977
Bernard Spolsky, Dean

I.	Administration.	1
II.	Applications and Admissions	1
III.	Enrollment.	6
IV.	Degrees Awarded	12
V.	Minority Student Enrollment in the Graduate School.	21
VI.	Financial Aid	30
VII.	The Graduate Committee.	38
VIII.	The Organization of the Graduate Program.	39
IX.	Future Plans.	40
Appendix I. Staff Service, Travel & Publications		42
Appendix II. Report of the Los Alamos Graduate Center		46
Appendix III. Report of the Santa Fe Graduate Center		49
Appendix IV. Report of the Graduate Student Association		52

I. Administration.

During the year, the central academic organization of the University was changed so that the Dean of the Graduate School no longer reported to the Vice President for Research and Graduate Affairs but directly to the Provost. Late in the year, the Office of Research and Fellowship Services was renamed Office of Research Administration and the Graduate School has now taken over responsibility for fellowships. All aspects of graduate student financial aid: teaching, graduate, research assistantships, project assistantships, and fellowships are now therefore under one roof. Specifications for an integrated automated graduate record system were developed but implementation must await assignment of priority by the Data Processing Committee. At the end of the year, two associate deans complete their service in the Graduate School. Associate Dean Jane B. Kopp is going on sabbatical and Associate Dean Anne P. Taylor will be working on planning of a proposed Institute of Environmental Education. In their two years of service, they have made major contributions to the work of the Graduate School.

No personnel changes occurred in the clerical staff of the Graduate School, however Mary McCracken was promoted from Grade III Step 1 to Grade IV Step 1 July 19, 1976, and Roberta Beth Cook was promoted from Grade IV, Step 2, to Grade V, Step 2, March 1, 1977. Both promotions were given in recognition of added responsibilities.

II. Applications and Admissions.

Table I gives a summary of applications for admission over the past six years. There has been a continued decrease in the number of new applications received. Perhaps in reaction to this, or equally well perhaps

because of greater self-selection before application, there continues to be an increase in the percentage of applicants to whom admission is offered by the department. 74.6% of new applicants are offered admission, compared with 68.1% last year and 51.4% in 1973. The number of new students who enrolled was down compared to 1975 but is higher than in any of the preceding years. Table II shows by department the number of completed applications and percentage of admission offers for each of the last two fall semesters.

Table 1. Graduate School Admissions Processing

	1971-2	1972-3	1973-4	1974-5	1975-6	Percentage Change to 1974-5 to 1975-6	1976-7	Percentage Change to 1975-6 to 1976-7
Total Applications Distributed by Mail	10,448	10,929	10,252	10,720	9,836	- 8.2%	8,778	-10.75%
New Applications Received	3,915	3,607	3,462	3,537	3,131	-11.5%	2,887	- 7.8%
New Admissions Offered	2,079	1,898	1,778	1,976	2,133	+ 8.0%	2,155	+ 1.03%
Accepted and Enrolled	1,213	1,183	1,248	1,274	1,575	+ 2.35%	1,389	-11.8%
Declined, No Response	544	482	300	302	410	+ 2.06%	395	+27.4%
Accepted but No Show	322	233	230	200	146	-27.0%	370	+153.4%
Percentage of New Applicants Offered Admission	53.1%	52.6%	51.4%	55.9%	68.1%		74.6%	
Percentage of New Admissions Offered Who Accepted and Enrolled	58.3%	62.3%	70.2%	64.5%	73.8%		64.4%	

Table 2. Applications and Offers of Admission for Fall Semesters, 1975 & 1976

<u>Graduate Unit</u>	<u>Completed Applications Fall, 1975</u>	<u>Completed Applications Fall, 1976</u>	<u>Percentage of Offers of Admission Fall, 1975</u>	<u>Percentage of Offers of Admission Fall, 1976</u>
<u>Architecture</u>	102	83	29%	41%
<u>Arts & Sciences</u>				
American Studies	21	23	66%	60%
Anthropology	132	146	33%	38%
Biology	93	85	43%	46%
Chemistry	38	65	84%	68%
Communicative Disorders	38	49	82%	61%
Comparative Literature	4	3	100%	66%
Economics	28	16	96%	62%
English	77	63	86%	62%
Geography	11	10	100%	50%
Geology	56	87	67%	62%
History	56	61	59%	70%
Ibero-American Studies	4	2	75%	100%
Latin American Studies	19	24	84%	83%
Linguistics		7		43%
Mathematics & Statistics	28	24	89%	75%
Modern & Classical Languages	48	42	92%	86%
Philosophy	21	18	90%	83%
Physics & Astronomy	37	43	76%	74%
Political Science	20	20	45%	55%
Psychology	163	311	30%	18%
Sociology	17	19	76%	57%
Speech Communication	32	30	78%	90%
<u>Business & Administrative Sciences</u>	163	108	84%	81%
<u>College of Education</u>				
Art Education	11	12	63%	92%
Educational Administration	25	19	92%	53%
Educational Foundations	18	14	88%	86%
Elementary Education	75	97	91%	91%
Guidance & Counseling	147	132	22%	27%

Table 2. Applications and Offers of Admission for Fall Semesters, 1975 & 1976 (Cont'd)

<u>Graduate Unit</u>	<u>Completed Applications Fall, 1975</u>	<u>Completed Applications Fall, 1976</u>	<u>Percentage of Offers of Admission Fall, 1975</u>	<u>Percentage of Offers of Admission Fall, 1976</u>
<u>Health, Physical Educ & Recreation</u>				
Health	12	6	83%	66%
Physical Education	25	33	60%	73%
Recreation	17	26	82%	58%
Secondary Education	62	83	84%	93%
Special Education	74	84	81%	80%
<u>College of Engineering</u>				
Chemical & Nuclear Engr	34	25	91%	80%
Civil Engr	30	36	80%	83%
Computing & Information Sci	19	18	84%	78%
Electrical Engr	30	55	93%	95%
Mechanical Engr	14	23	64%	78%
<u>College of Fine Arts</u>				
Art	219	195	25%	29%
Music & Music Education	17	18	100%	94%
<u>Division of Public Administration</u>	58	71	97%	91%
<u>Medical Sciences Program</u>		43		49%

III. Enrollment.

Enrollment of graduate students in the University (Tables III, IV and V) continued to increase in the academic year 1976-77 so that it was 6% above the level of the previous peak year, 1970-71. The rate of increase (3.5%) is however considerably less than last year. All of the increase has been in masters level enrollment (+6.7%); doctoral level enrollment is actually down (-3.6%). There are a number of significant changes in program enrollment. At the masters level, Architecture is down 5% and Art up 6%. In the College of Arts and Sciences, there are significant increases in enrollment in Anthropology (+56%), Chemistry (+34%), Geology (+14.6%) and Physics (+33%); there are significant declines in English (-35%) and Mathematics (-37%). In the College of Education, there are marked increases in Elementary Education (+20%), HPER (+24%), and Special Education (+22%). Enrollment in the Division of Public Administration continues to grow rapidly; this past year, it was up 35%. The Medical Sciences program, which fluctuates considerably, was up again to its higher level. At the doctoral level, Romance Languages is up 35% and American Studies an astonishing 26%. Both Chemistry and Economics show declines of 30%. Geology and Mathematics & Statistics show continued declines. In the College of Education, there is a welcome 5% decline, largely due to a 31% decline in Educational Administration.

TABLE 3.
Graduate Student Enrollment
Fall Semester, 1967-68 to 1976-77

Academic Year	Enrollment	Change from Previous Year	Percentage Change
1967-68	2,476	+ 192	+ 8.4%
1968-69	2,665	+ 189	+ 7.6%
1969-70	2,799	+ 134	+ 5.0%
1970-71	3,210	+ 411	-14.7%
1971-72	2,985	- 225	- 7.0%
1972-73	2,909	- 76	- 2.5%
1973-74	2,951	+ 42	+ 1.4%
1974-75	2,923	- 28	- 0.95%
1975-76	3,289	+ 366	+12.5%
1976-77	3,405	+ 116	+ 3.5%

Table 4. Masters Level Enrollment

Colleges, Schools, Division	1972-73			1973-74			1974-75			1975-76			1976-77		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>School of Architecture</u>	84	81	13	97	105	34	100	108	31	99	99	15	94	90	24
<u>College of Arts & Sciences</u>															
Anthropology	31	36	3	25	31	3	36	34	0	44	51	7	69	71	9
Biology	65	67	19	70	72	13	64	76	18	72	66	23	75	75	20
Chemistry	46	35	8	31	34	8	35	37	12	38	36	13	51	45	19
Communicative Dis	11	42	30	46	43	31	38	37	27	41	43	28	49	46	30
Comparative Lit	7	8	5	6	4	3	7	6	3	9	11	4	10	11	4
Economics	21	23	9	31	32	15	34	41	6	41	41	17	37	33	8
English	66	58	18	61	64	24	64	63	16	74	50	13	48	43	18
Geography	11	11	7	16	15	3	17	15	2	15	15	6	13	14	3
Geology	42	44	9	46	42	8	38	36	7	48	46	7	55	53	6
History	44	37	9	42	42	16	39	39	17	37	34	12	35	28	13
International Affairs	1	1	0	1	1	9	0	0	0	0	0	0	0	0	0
Language Sciences	--	--	--	--	--	--	--	--	--	--	--	--	6	5	2
Latin American St	23	21	7	27	13	6	19	18	6	16	14	2	16	15	5
Mathematics & Stat	65	57	11	43	41	0	38	42	8	43	28	9	27	24	6
Modern Languages															
French	17	16	1	11	12	5	15	14	7	13	11	1	13	10	5
Portuguese	1	1	0	0	0	0	2	2	2	2	0	0	1	1	0
Spanish	43	25	10	29	25	10	33	39	19	34	26	14	33	31	15
Philosophy	16	18	6	21	27	10	37	40	11	39	34	10	33	32	7
Physics	35	32	5	27	24	3	25	23	8	21	18	7	28	27	4
Political Science	12	13	4	14	13	0	8	12	6	16	14	7	15	10	7
Psychology	42	33	3	15	38	3	34	36	19	14	37	13	43	37	8
Sociology	38	36	4	29	29	6	20	19	4	16	17	4	20	15	1
Speech Communication	41	18	13	16	21	15	33	36	20	34	35	17	34	33	16
<u>School of Business & Administrative Sciences</u>	144	152	75	170	189	106	176	186	86	238	234	105	242	262	148

Table 4. Masters Level Enrollment (Cont'd)

Colleges, Schools, Division	1972-73			1973-74			1974-75			1975-76			1976-77		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>College of Education</u>															
Art Education	35	42	30	30	34	28	28	31	37	35	35	25	36	46	26
Educational Admin	39	34	41	41	45	50	44	71	75	78	93	78	87	77	81
Educational Fdns	13	12	14	20	27	21	28	37	16	33	40	17	33	40	24
Elementary Educ	212	194	113	200	217	231	223	210	241	218	213	263	263	247	284
Guidance & Counsel	143	134	106	127	124	80	132	152	107	127	117	85	110	104	70
Health, PE & Rec	62	63	37	67	67	41	65	70	41	69	69	47	86	100	80
Secondary Educ	174	191	217	182	208	208	190	200	219	215	202	183	199	184	197
Special Education	106	117	99	116	137	104	138	137	107	150	158	108	183	188	153
<u>College of Engineering</u>															
Chemical Engr	10	4	1	3	1	0	0	2	3	7	9	4	11	10	4
Civil Engr	13	20	4	26	31	8	30	38	13	42	40	7	43	42	12
Computing & Inf Sci	--	--	--	2	9	6	20	23	6	32	30	16	37	36	14
Electrical Engr	98	104	19	89	85	19	87	94	27	104	102	31	39	107	40
Mechanical Engr	30	31	5	21	18	5	19	21	7	24	22	7	25	24	11
Nuclear Engr	29	25	16	32	27	12	34	30	10	30	22	4	24	22	8
<u>College of Fine Arts</u>															
Art	72	41	32	96	84	28	93	98	20	80	67	13	85	85	26
Music	21	26	14	29	29	13	24	29	17	29	29	11	21	27	13
Music Education	4	6	8	8	4	6	3	4	4	3	4	3	4	0	2
Theatre Arts	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
<u>Division of Public Administration</u>															
Administration	67	60	13	66	57	17	71	79	50	110	139	72	149	164	108
<u>Medical Sciences Program</u>															
	6	17	0	12	16	3	21	18	11	10	13	7	21	22	9
	2040	1986	1038	2041	2136	1211	2162	2303	1346	2400	2364	1315	2560	2536	1541

Table 5. Doctoral Level Enrollment

Colleges, Schools, Division	1972-73			1973-74			1974-75			1975-76			1976-77		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>College of Arts & Sciences</u>															
American Studies	41	52	19	49	45	16	52	62	20	57	60	18	72	67	23
Anthropology	30	23	6	30	23	2	24	23	2	21	30	5	26	21	4
Biology	30	27	6	22	22	7	24	18	10	27	32	4	27	23	4
Chemistry	20	33	15	25	21	10	19	22	5	30	26	5	21	23	7
Economics	14	15	4	13	15	5	15	15	3	24	21	4	17	13	1
English	54	45	12	37	33	6	22	29	6	30	38	9	35	30	4
Geology	26	24	7	27	20	4	20	20	3	16	15	3	13	13	0
History	68	68	13	70	64	12	56	59	14	61	59	8	53	57	12
Ibero-American St	16	16	3	12	11	4	8	10	2	10	11	3	10	11	6
Mathematics & Stat	28	27	10	28	31	7	29	27	8	27	32	8	25	20	4
Romance Languages	39	38	14	32	31	10	28	30	12	39	53	17	53	50	15
Philosophy	16	12	3	15	14	0	10	13	0	15	19	2	16	16	0
Physics	32	29	6	28	23	3	16	22	6	24	26	4	25	28	3
Political Science	10	9	3	8	11	1	6	6	0	6	8	1	8	8	1
Psychology	16	22	22	53	26	19	18	14	9	43	20	4	17	15	1
Sociology	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<u>School of Business & Administrative Sciences</u>															
	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
<u>College of Education</u>															
Art Education	1	0	0	0	1	0	1	3	1	0	2	0	3	3	0
Educational Admin	51	62	47	80	94	67	80	79	55	76	70	24	52	52	14
Educational Fdns	39	43	27	43	47	19	42	47	20	53	61	26	55	46	22
Elementary Educ	57	55	27	52	60	21	42	58	32	54	64	31	52	49	29
Guidance & Counsel	57	53	21	46	50	27	39	42	20	36	48	16	40	39	21
Health, PE & Rec	40	31	17	34	33	11	27	31	12	27	32	17	26	31	24
Secondary Educ	52	46	28	56	64	41	52	52	35	55	72	32	54	60	26
Special Education	0	16	2	20	29	23	26	24	15	30	36	13	32	36	11

Table 5. Doctoral Level Enrollment (Cont'd)

Colleges, Schools, Division	1972-73			1973-74			1974-75			1975-76			1976-77		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer
<u>College of Engineering</u>															
Chemical Engr	8	4	2	5	5	0	0	0	0	5	4	1	4	3	0
Civil Engr	11	13	1	11	11	2	9	9	0	10	11	1	11	14	1
Electrical Engr	41	43	11	36	42	12	41	40	12	36	41	7	33	32	4
Mechanical Engr	18	13	4	16	16	1	16	15	4	13	14	3	8	6	0
Nuclear Engr	11	11	2	11	10	0	8	13	2	9	15	1	12	10	4
<u>College of Fine Arts</u>															
Art	8	42	1	17	16	0	15	18	7	21	31	6	31	29	2
Music									1						
<u>Medical Sciences</u>															
Program	22	12	8	17	12	5	8	10	6	22	15	5	14	10	3
	856	884	341	893	880	335	753	811	321	877	966	278	845	815	244

IV. Degrees Awarded.

Tables 6 and 7 show the number of degrees awarded by each unit since the degree was first offered except for four master's degrees awarded between 1917 and 1926. The number of master's degrees awarded in 1976 is the highest ever. The number of doctoral degrees awarded is higher than last year, but lower than the peak years 1972-1974. Table 8 shows the ratio of degrees awarded to enrollment with comparable figures for last year. Comparable figures for 1971 were included in last year's Annual Report. At the master's level, there is little change; at the doctoral level, the ratio of .168 is closer to the 1971-72 level of .18.

(—●—)
Graduate
School
Enrollment

(—M—) (---D---)
Masters Degrees
Doctoral Degrees

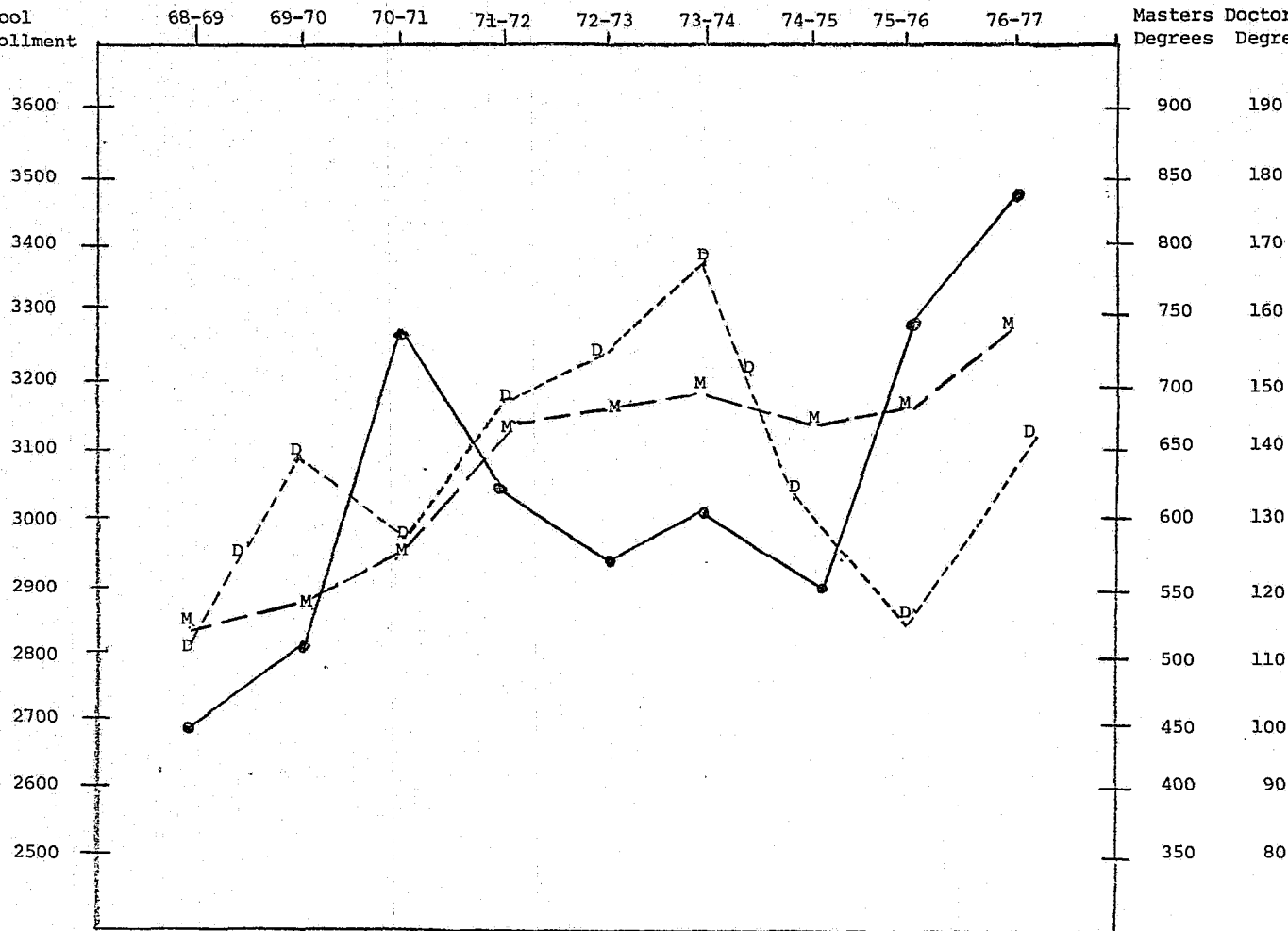


Figure 1.

Master's and Doctoral Degree Production and Graduate School

Total Enrollment, 1968-69 to 1976-77.

Table 6. Master's Degrees Awarded by Unit and by Year

Departments by Colleges Div/Program	1927 thru 1951	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
ARCHITECTURE																					6	7	13	10	23	20	21
ARTS & SCIENCES																											
Anthropology	39		4	4	2	4	3	2		4	2	2	1	7		2	7	9	6	14	17	9	13	13	4	8	19
Biology	73	10	3	6	4	4	4	11	4	5	8	12	7	12	6	11	14	18	21	17	18	18	15	17	19	11	23
Chemistry	15	3	2		3		1	1	2		1	1	2	6	1	6	3	9	2	4	1	10	9	6	7	3	4
Communic Dis																							3	19	20	11	21
Comparative Lit														1		1	1			3	1	2	2	1			2
Economics	30	1	1	2	2	3	1	1	3	4	2	2		1	3	1	6	7	8	5	3	7	11	6	3	3	6
English	103	10	5	6	2	5	6	6	7	4	6	5	6	6	17	21	23	17	23	12	20	14	19	10	10	12	4
Geography																						4	3	5	3	2	3
Geology	19	7	13	2	1	8	4	11	7	13	11	9	6	5	4	2	6	9	8	7	5	7	8	5	11	9	6
History	92	9	2	2	1	2	4	2	6	3	7	12	7	10	13	15	11	19	14	15	13	21	16	11	4	6	8
Inter Amer Aff	13	2	5	2	1		1	1	1	2		2										2	1				
Latin Amer St														3	3	1	3	4	16	7	14	9	10	8	10	8	7
Linguistics																											1
Math & Stat	33		1	1	2	3	4	1	2	2	6	3	4	5	8	11	3	22	13	10	17	14	19	6	3	7	7
Mod & Class Lang																											
Latin	2																										
French	2														1	2	1	5	3	9	9	4	9	3		2	4
Spanish	86	5	4	4	4	7	6	5	3	6	3	4	2	5	9	12	10	16	6	15	8	12	7	7	4	6	3
Portuguese													2	1	3		3			3					2	1	1

Table 6. Master's Degrees Awarded by Unit and by Year (Cont'd)

Departments by Colleges Div/Program	1927 thru 1951	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
Arts & Sciences (Cont'd)																											
Philosophy	2		1			1				2	3			1	2	3	4	4	3	7	4	5	5	2	4	3	5
Physics & Astr	14	2	4	4	1	4	4	3	8	4	12	14	13	10	6	8	10	7	12	9	11	6	9	11	2	2	3
Political Sci	43	3	3	4	2	1	3	2	2	2	3		2	4	2	2	3	3	8	5	6	5	2	3	4	1	5
Psychology	47	6	3	10	2	3	1	5	4	2	3	5	3	1	6	4	9	8	6	4	4	9	7	4	9	8	10
Sociology	13		1	2	3	1			1	1	1	1				1	3	1	1	3	2	4	4	5	4	6	1
Speech Comm	1	3	2	1	2	5	1	2	1	3	4	2	3	2	4	7	11	12	11	14	21	18	11	7	5	19	12
BUSINESS & ADMIN SCIENCES	5		2	1	1		2	4	4	1	3	5	4	9	9	8	28	30	20	25	29	27	28	52	52	45	47
Indust Adm													1	2	2		2	1	1	1				6		15	2*
COLLEGE OF EDUC. Art Education	14	3	5	6	5	6	4	4		4		1	1		4	4	8	3	7	8	9	18	20	23	9	14	22
Educ'l Admin	163	34	26	33	24	30	29	16	15	20	21	21	21	23	23	28	35	36	21	16	11	21	18	9	10	18	33
Educ'l Found																					5	9	5	7	7	6	13
Elementary Educ	10	6	12	9	7	8	7	5	18	12	6	9	9	9	13	21	23	33	39	56	31	60	59	76	77	87	76
General Educ	115	3	1			1		1		1																	
Guidance & Couns								7	19	9	12	23	19	26	26	26	43	42	61	55	65	83	71	85	59	80	59
Hlth, PE & Recr																											
Health Educ																					2	3	2	3	7	8	7
Physical Educ	12	6	6	2	7	2	1	6	8	6	4	8	11	10	8	12	17	18	19	12	18	12	14	13	13	8	11
Recreation													2				4	3	2	4	4	1	5	13	8	10	15
Secondary Educ	13	10	16	8	19	10	9	10	8	9	6	9	3	9	7	4	13	17	27	26	20	40	48	46	38	59	32
M. Educ Sci										14	6	8	31	24	39	30	18	20	4								
Tch Bus Subj																		2	4	11	4	6	6	4	4	6	8
Tch English																				9	10	1	2			6	1
Tch Home Ec																		4	6	3	6	5	8	6	6		5

Table 6. Master's Degrees Awarded by Unit and by Year (Cont'd)

Departments by Colleges Div/Program	1927 thru 1951	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	
Sec.Ed. (Cont'd)																												
Tch Indus Subj																		4	3	5	5	5	7	7	4	7	6	
Tch Math																		1	7	16	10	7	28	9	12	3		
Tch Science																		1	7	3	7	6	1	4	5	1		
Tch Spanish										8	6	10	21	9	14	16	8	8	1	6	3	7	8	3	4	7		
Special Educ																		6	16	25	39	37	33	50	56	38	61	
COLLEGE OF ENGR.																												
Chemical Engr										1	4	1		1	4	2		1		6	3	2	2	1		2		
Engr Aci Mtls																1	1	2		2	1			3	1			
Civil Engr		6	3	7	2	3		2	6	5	6	7	8	7	7	11	12	12	15	13	10	15	10	6	7	13	9	12
Comp & Info Sci																								3	3	3	4	
EECS		7	2	3	4	5	4	6	11	11	12	23	56	40	58	58	32	31	30	35	34	22	36	29	39	30	36	29
Mech Engr		6	3		1	2	2	4	7	10	11	15	27	28	23	26	35	26	15	25	18	20	19	8	3	4	9	7
Nuclear Engr												6	5	7	3	8	6	3	9	11	9	9	14	6	17	9	7	
FINE ARTS																												
Art		14	5	5	10	5	7	6	9	4	4	6	5	9	7	6	6	14	13	24	15	11	15	14	18	24	20	18
Music		3	2	2	6	1	3				1	2	3	3	1	5	7	6	5	4	2	3	5	6	9	6	7	2
Music Educ						1	1	4	4	6	3	5	5	9	4	7	7	3	8	10	7	1	5		3	5		
PUBLIC ADMIN																				13	17	36	33	30	35	32	57	
MEDICAL SCI																									4		1	
Totals		995	138	139	132	111	125	114	144	157	182	196	278	279	313	347	375	434	484	527	550	565	682	683	694	663	681	724

* Degree renamed Master of Management

Table 7. Doctoral Degrees Awarded by Unit and by Year (Cont'd)

Departments by Colleges Div/Program or by Name of Degree	1947 thru 1951	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
<u>COLLEGE OF EDUC.</u> <u>C&I</u>												2	1	1	5	5	4	9	18	25	22	26	32	30	20	12	19
<u>Ed Admin</u>										2	1	1			3	2	8	4	10	8	3	4	8	7	2	5	5
<u>Ed Fdns</u>																		2	2	4	5	6	3	9	7	7	5
<u>Gen'l Educ</u>											3		2														
<u>PPS</u>													1	2	4	5	2	4	5	14	9	22	6	17	15	8	10
<u>COLLEGE OF ENGR.</u> <u>Chemical Engr</u>															1					1	1	1	1	2	1		1
<u>Civil Engr</u>																1		2	3	3	5	4	3	1	3	1	
<u>EECS</u>											2	4	5	4	3	10	7	10	3	5	7	7	7	6	9	3	5
<u>Mech Engr</u>															3	3	2	5	2	1	2	4	3	1	4	3	4
<u>Nucl Engr</u>																2	1	1	1	3	4	2	1	2		2	2
<u>COLLEGE OF</u> <u>FINE ARTS</u> <u>Art History</u>																				2			1	2	1		2
<u>MEDICAL SCI</u>																			1	3	1			3	2	1	6
<u>Totals</u>	22	11	10	6	10	10	16	16	13	9	23	28	27	21	48	48	65	84	106	141	129	149	153	166	129	112	140
<u>Master of</u> <u>Fine Arts</u>																1	2	1	2	1	4	3	2	4	6	4	4

Table 7. Doctoral Degrees Awarded by Unit and by Year

Departments by Colleges Div/Program or by Name of Degree	1947 thru 1951	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
<u>ARTS & SCIENCES</u>																											
American St	1	1			1			3	2		1	1			1	1	2	1	3	4	1	6	5	10	4	12	6
Anthropology	5	2				2		2		1			3					1	3	4	2	1	2	3	3	5	4
Biology		1	1		3		2	2	1			1	1	1	2	1	1	1	5	2	4	3	10	8	5	4	5
Chemistry	4		5	2		3	8	4	6	2	4	7	3	3	4	2	6	6	3	6	6	6	4	5	2	8	5
Economics																					1	1	2	1	2	3	4
English	1		2		1	1	4	3	3	2	4	1	2	1	2	3	7	12	16	11	7	14	18	11	9	9	12
Geology												2	1	1	2	3	4	2	2	3	4	9	2	2	2	3	3
History	6	4	1	2	2	2	1				4	4	3	3	8	6	6	3	7	8	17	7	11	12	11	5	11
Ibero-Amer St													1			1	1	2	3	3		3	5	4	1	2	
Mathematics												1	2	2	4	1	5	6	7	10	7	9	9	5	5	5	6
Physics	1	2			2		1			1	2	3	2	2	4	2	4	8	2	2	5	1	6	4	7	1	3
Philosophy																				1	1	3	1		1	2	
Political Sci																							2	3	2	1	1
Psychology												1			1		2	5	8	12	8	6	5	13	4	7	9
Romance Lang																				6	7	4	4	5	7	3	8
Spanish	4	1	1	2	1	2		2	1	1	2			1	1		3		2			4					

Table 8. Ratio of Degrees Awarded to Enrollment.

	MASTERS LEVEL			DOCTORAL LEVEL			MASTERS LEVEL			DOCTORAL LEVEL		
	Enrolled 1975-6	Awarded 1976	Ratio	Enrolled 1975-6	Awarded 1976	Ratio	Enrolled 1976-7	Awarded 1977	Ratio	Enrolled 1976-7	Awarded 1977	Ratio
Architecture	99	20	.20				92	21	.288			
American Studies				53	12	.22				70	6	.085
Anthropology	47	8	.17	25	5	.20	70	19	.271	24	4	.166
Biology	69	11	.16	30	4	.13	75	23	.306	25	5	.2
Chemistry	37	3	.08	28	8	.28	48	4	.083	22	5	.227
Communicative Dis	42	11	.26				48	24	.437			
Comparative Lit	10	0	0				11	2	.181			
Economics	41	3	.07	22	3	.14	35	6	.171	15	4	.266
English	62	12	.19	34	9	.26	46	4	.086	33	12	.363
Geography	15	2	.13				14	3	.214			
Geology	47	9	.19	15	3	.20	54	6	.111	13	3	.23
History	35	6	.17	6	5	.08	32	8	.25	55	11	.20
Ibero American St				10	2	.20				11	0	0
Latin American St	15	8	.53				16	7	.437			
Linguistics							6	1	.166			
Mathematics & Stat	35	7	.20	30	5	.16	26	7	.269	23	6	.26
Modern Lang/Rom Lang	44	9	.20	46	3	.06	45	8	.177	54	8	.148
Philosophy	36	3	.08	17	2	.12	33	5	.151	16	0	0
Physics & Astr	19	2	.10	25	1	.04	28	3	.107	27	3	.111
Political Science	15	1	.07	7	1	.14	13	5	.384	8	1	.125
Psychology	25	8	.32	31	7	.23	35	10	.285	16	9	.562
Sociology	16	6	.37				18	1	.055			
Speech Communic	34	19	.56				34	12	.352			
SBAS	236	60	.25				252	49	.194			
Art Educ	35	14	.40	1)			41	22	.536	3)		
Elem Educ	215	87	.40	59)			255	76	.298	56)		
HPER	69	22	.32	29)			93	33	.354	29)		
Secondary Educ	208	78	.37	63)			191	63	.329	57)		
C&I				152	12	.08				145	19	.131

Table 8. Ratio of Degrees Awarded to Enrollment (Cont'd)

	MASTERS LEVEL			DOCTORAL LEVEL			MASTERS LEVEL			DOCTORAL LEVEL		
	Enrolled 1975-6	Awarded 1976	Ratio	Enrolled 1975-6	Awarded 1976	Ratio	Enrolled 1976-7	Awarded 1977	Ratio	Enrolled 1976-7	Awarded 1977	Ratio
Educ'l Admin	85	18	.21	73	5	.07	82	33	.402	52	5	.096
Educ'l Foundns	36	6	.17	57	7	.12	37	13	.351	51	5	.098
Guidance & Couns	122	80	.65	42)			107	59	.551	40)		
Special Educ	154	38	.25	33)			186	61	.327	34)		
PPS				75	8	.11				74	10	.135
Chem Engr	8	0	0	4	0	0	11	2	.181	4	1	.25
Civil Engr	41	9	.22	10	1	.10	43	12	.279	13	0	0
Computing & Inf Sci	31	3	.10				37	4	.108			
EECS	103	36	.35	38	3	.08	102	29	.284	33	5	.151
Mechanical Engr	23	9	.39	13	3	.23	25	7	.28	7	4	.571
Nuclear Engr	26	9	.35	12	2	.17	23	7	.304	11	2	.181
Art	73	20	.27	26	4	.15	85	18	.211	30	6	.20
Music	29	7	.24				24	2	.083			
Music Educ	3	5	1.67				4	0	0			
Public Admin	124	32	.26				156	57	.365			
Medical Sciences	11	0	0	21	1	.05	22	1	.045	12	6	.5
OVERALL	2382	681	.29	921	116	.13	2548	724	.284	830	140	.168

Enrollment figures are averages of Fall and Spring Semesters

V. Minority Student Enrollment in the Graduate School.

Tables 9 and 10 report continuing progress in the encouragement of minority student enrollment. Towards the end of the year, the President of the University issued a progress report on ethnic minorities at UNM in which he was able to point out that "today, the University of New Mexico stands as number one in the nation of major state universities as the leader on all levels including undergraduate, graduate and professional programs in percentage of minority student participation." The following excerpts from the report describe the situation at the graduate level.

THE GRADUATE LEVEL

What happens to students in college, obviously, is vital to the enrollment of graduate students. Students with bachelor's degrees comprise the reservoir from which graduate students are drawn. The number of minorities who can be enrolled in graduate school is directly dependent upon the number of minority bachelor's degree holders.

Although 16 per cent of the total population of the nation is minority, less than six per cent of all students enrolled in master's and doctoral programs were minorities in 1974--the year for which the most recent national data are available.

The number of graduate students enrolled at UNM in 1974 was well above that. It was, in fact, very nearly representative of the 16 per cent national minority population.

As with undergraduates, it is the University's responsibility to education New Mexico residents first at the graduate level. More than 80 per cent of UNM's graduate students are classified as New

Mexico residents. The New Mexico pool of college graduates is the largest base upon which UNM's graduate enrollment is built.

During 1975-76, New Mexico institutions of higher education, including UNM, graduated baccalaureate classes with a total minority population of 25 per cent. Twenty-one percent of the graduates were Hispanic; 2.2 per cent Indian; and 1.8 per cent black.

The University of New Mexico in the fall of 1976 enrolled 3,348 graduate students, of whom 626--or 18.7 per cent--were minorities. The ethnic division is 14.6 per cent Hispanic; 2.1 per cent Indian, 1.2 per cent black; and 0.7 per cent Oriental. Only 1,410 of these students were classified as full-time. Among the full-time students, 16.2 per cent were minorities, distributed as follows: Hispanic 12.2 per cent; Indian 1.7 per cent; black 1.4 per cent; and Oriental 0.9 per cent.

While a discrepancy certainly exists between the percentages for minority bachelor's degree recipients, particularly the Spanish-surnamed, and the percentages of the various minorities enrolled in the Graduate School, it is obvious that by no means every bachelor's graduate applies to Graduate School.

Any effort to raise appreciably the percentage of minority enrollment in the Graduate School must be directed primarily at increasing undergraduate minority enrollments. Since minority bachelor's degree recipients, particularly in such fields as engineering and education, are able to command relatively attractive salaries in industry, it is perhaps surprising that the figures for minority Graduate School enrollment are as high as they are.

One UNM engineering department, for example, actively is seeking minority graduate applicants and stands ready to provide financial aid, yet can find few (and at times no) qualified students who do not prefer to accept full-time job offers from industry.

On the other hand, certain UNM colleges and individual graduate units have plainly outstanding records. The College of Education with 24.2 per cent minority enrollment and the Division of Public Administration with 27.6 per cent are examples. Eight of the 22 departments in the College of Arts and Sciences have minority enrollments greater than 10 per cent. In general, UNM departments with low minority enrollments are those having low minority baccalaureate percentages nationally, evidently reflecting a low level of participation, currently, in the disciplines in question on the part of minorities.

Concrete efforts are being made to improve the level of minority enrollment in the Graduate School, especially in those fields where the current figures reflect very low minority enrollment.

AID FOR GRADUATE STUDENTS

One of the attractions in graduate programs is the subsidization of students through graduate assistantships, teaching assistantships, or other forms of financial aid. Of all UNM students in graduate programs in the fall of 1976, 857 received financial aid--or 23.2 per cent of the total. Of these 122 were minority students, or 14.2 per cent of all graduate students receiving financial aid. The 14.2 per cent minority students receiving aid is two percentage

points below their representation of 16.2 per cent of all full-time graduate students. Even a slight increase in their number would bring this figure into balance. The 14.2 per cent does represent a considerable improvement over the 10.7 per cent figure of the preceding year, 1975. And the fact that 20.3 per cent of all minority graduate students are receiving aid this year also represents a sizable increase over the 16.8 per cent figure of 1975. These are significant gains in a one-year period.

(One possible reason for the somewhat lower percentage of support for minority graduate students is that a very large percentage of graduate and teaching assistantships are assigned to the sciences and mathematics, fields which over the years have attracted few minority students both at UNM and nationally.)

The following bar graph illustrates available New Mexico minority populations from which students may be drawn at various levels of higher education.

Minorities in State (1970 Census)	49%
Minorities in State, High School Graduates '76	48.9%
UNM Minorities-Entering Freshmen '76	37%
UNM Minorities-Undergraduate Total '76	29.3%
UNM Minorities-% of Students-Total '76	28.2%
UNM Minority Graduate Student Total '76	18.7%
UNM Doctorates Awarded to Minorities (73-76)	15.2%

DOCTORAL DEGREES

The relationship of degree production to enrollment is important. The University of New Mexico in 1975, with a 16 per cent

minority enrollment in Graduate School, awarded Ph.D. and Ed.D. degrees to a group of candidates including 11.1 per cent minorities. Given the time differential among students in doctoral programs--some complete them in three years, others may take five to eight years--the percentage of doctoral degrees awarded each year to minorities may vary. But the UNM record is more than double the national output and bears a reasonable relationship to graduate enrollment. Not every student who enters a doctoral program completes it. Numerous "ABD's" (all but dissertation) attest to this.

(The University of New Mexico's Graduate School production of minority doctorates over the four years from 1973-76 is even more impressive than the 1975 figure. The four-year total shows 311 doctorates of which 49, or 15.2 per cent, were earned by members of minority groups distributed in this manner: 10.2 per cent Hispanic, 4.1 per cent black and 0.9 per cent Indian.)

TABLE 9.
MINORITY GROUP ENROLLMENTS - FALL, 1976

GRADUATE UNITS	BLACK AMERICANS		CHICANOS		NATIVE AMERICANS		TOTAL MINORITIES		WOMEN		TOTAL STUDENTS
	No.	% of	No.	% of	No.	% of	No.	% of	No.	% of	No.
	Enrolled	Total	Enrolled	Total	Enrolled	Total	Enrolled	Total	Enrolled	Total	Enrolled
* SCHOOL OF ARCHITECTURE	1 (1)	0.8 (0.9)	2 (3)	1.6 (2.8)	2 (1)	1.6 (0.9)	5 (5)	4.0 (4.6)	36 (32)	28.6 (29.6)	126 (108)
ARTS & SCIENCES	6 (6)	0.5 (0.5)	101 (83)	8.5 (7.6)	11 (5)	0.9 (0.5)	118 (94)	9.9 (8.6)	446 (361)	37.4 (33.1)	1192 (1091)
American Studies	2 (3)	2.3 (4.5)	8 (5)	9.1 (7.5)	3 (1)	3.4 (1.5)	13 (9)	14.8 (13.4)	38 (27)	43.2 (40.3)	88 (67)
Anthropology	0 (1)	- (1.5)	5 (1)	4.8 (1.5)	0 (0)	- (-)	5 (2)	4.8 (3.0)	53 (28)	50.5 (41.8)	105 (67)
Biology	0 (0)	- (-)	5 (6)	4.7 (6.0)	0 (0)	- (-)	5 (6)	4.7 (6.0)	43 (31)	40.2 (31.0)	107 (100)
Chemistry	0 (1)	- (1.4)	2 (2)	2.7 (2.9)	0 (0)	- (-)	2 (3)	2.7 (4.3)	17 (11)	23.3 (15.9)	73 (69)
Communicative Disorders	0 (0)	- (-)	1 (2)	2.0 (5.1)	0 (0)	- (-)	1 (2)	2.0 (5.1)	43 (34)	87.8 (87.2)	49 (39)
Comparative Literature	0 (NA)	- (NA)	1 (NA)	10.0 (NA)	0 (NA)	- (NA)	1 (NA)	10.0 (NA)	5 (NA)	50.0 (NA)	10 (NA)
Economics	0 (NA)	- (NA)	3 (NA)	6.1 (NA)	1 (NA)	2.0 (NA)	4 (NA)	8.2 (NA)	9 (NA)	18.4 (NA)	49 (NA)
* English	0 (0)	- (-)	5 (2)	6.3 (1.5)	1 (0)	1.3 (-)	6 (2)	7.5 (1.5)	33 (61)	41.3 (45.2)	80 (135)
* Geography	0 (0)	- (-)	0 (0)	- (-)	0 (0)	- (-)	0 (0)	- (-)	4 (5)	30.8 (33.3)	13 (15)
Geology	0 (0)	- (-)	0 (2)	- (2.9)	1 (1)	1.3 (1.5)	1 (3)	1.3 (4.4)	14 (8)	18.7 (11.8)	75 (68)
History	0 (0)	- (-)	9 (7)	8.8 (6.8)	2 (1)	2.0 (1.0)	11 (8)	10.8 (7.8)	29 (21)	28.4 (20.6)	102 (102)
Ibero-American Studies	0 (0)	- (-)	0 (2)	- (16.7)	0 (0)	- (-)	0 (2)	- (16.7)	6 (6)	50.0 (50.0)	12 (12)
Latin American Studies	0 (0)	- (-)	2 (2)	8.7 (15.4)	0 (0)	- (-)	2 (2)	8.7 (15.4)	7 (3)	30.4 (23.1)	23 (13)
* Linguistics	0 (NA)	- (NA)	1 (NA)	12.5 (NA)	1 (NA)	12.5 (NA)	2 (NA)	25.0 (NA)	6 (NA)	75.0 (NA)	8 (NA)
* Mathematics & Statistics	1 (0)	2.0 (-)	6 (9)	12.0 (14.3)	0 (0)	- (-)	7 (9)	14.0 (14.3)	9 (8)	18.0 (12.7)	50 (63)
Modern Languages	0 (0)	- (-)	31 (28)	31.6 (31.1)	0 (1)	- (1.1)	31 (29)	31.6 (32.2)	61 (52)	62.2 (57.8)	98 (90)
Philosophy	0 (0)	- (-)	4 (3)	7.5 (5.6)	0 (0)	- (-)	4 (3)	7.5 (5.6)	8 (11)	15.1 (20.4)	53 (54)
* Physics	1 (0)	1.9 (-)	1 (1)	1.9 (2.1)	0 (0)	- (-)	2 (1)	3.7 (2.1)	6 (3)	11.1 (6.3)	54 (48)
* Political Science	1 (1)	4.2 (4.5)	3 (3)	12.5 (13.6)	0 (0)	- (-)	4 (4)	16.7 (18.2)	9 (8)	37.5 (36.4)	24 (22)
* Psychology	0 (0)	- (-)	10 (3)	15.9 (5.0)	2 (1)	3.2 (1.7)	12 (4)	19.0 (6.7)	22 (16)	34.9 (26.7)	63 (60)
Sociology	0 (0)	- (-)	2 (1)	9.1 (5.6)	0 (0)	- (-)	2 (1)	9.1 (5.6)	9 (8)	40.9 (44.4)	22 (18)
* Speech Communication	1 (0)	2.9 (-)	2 (4)	5.9 (8.2)	0 (0)	- (-)	3 (4)	8.8 (8.2)	15 (20)	44.1 (40.8)	34 (49)
* SCHOOL OF BUSINESS & ADMINISTRATIVE SCIENCES	1 (0)	0.4 (-)	9 (7)	3.6 (3.9)	2 (4)	0.8 (2.2)	12 (11)	4.8 (6.1)	57 (37)	23.0 (20.4)	248 (181)
COLLEGE OF EDUCATION	25 (29)	1.7 (1.9)	277 (234)	18.9 (15.6)	52 (41)	3.6 (2.7)	354 (304)	24.2 (20.3)	917 (918)	62.6 (61.2)	1464 (1499)
* Art Education	0 (0)	- (-)	3 (3)	7.5 (8.3)	0 (0)	- (-)	3 (3)	7.5 (8.3)	32 (29)	80.0 (80.6)	40 (36)
Educational Administration	4 (7)	1.9 (3.6)	61 (66)	28.2 (33.7)	31 (28)	14.4 (14.2)	96 (101)	44.4 (51.5)	73 (64)	33.8 (32.7)	216 (196)
Educational Foundations	2 (4)	2.2 (4.0)	11 (9)	12.4 (9.0)	3 (5)	3.4 (5.0)	16 (18)	18.0 (18.0)	45 (50)	50.6 (50.0)	89 (100)
Elementary Education	6 (4)	1.9 (1.5)	74 (71)	23.3 (27.1)	4 (3)	1.3 (1.1)	84 (78)	26.5 (29.8)	261 (229)	82.3 (87.4)	317 (262)
* Guidance & Counseling	0 (5)	- (3.4)	31 (28)	21.5 (18.9)	3 (1)	2.1 (0.7)	34 (34)	23.6 (23.0)	90 (94)	62.5 (63.5)	144 (148)
* Health, Physical Education & Recreation	2 (0)	1.4 (-)	17 (20)	11.6 (19.0)	3 (2)	2.1 (1.9)	22 (22)	15.1 (21.0)	69 (36)	47.3 (34.3)	146 (105)
* Secondary Education	6 (NA)	3.1 (NA)	22 (NA)	11.3 (NA)	1 (NA)	0.5 (NA)	29 (NA)	14.9 (NA)	101 (245)	52.1 (57.2)	194 (428)
Business Education	3 (NA)	4.2 (NA)	19 (NA)	26.8 (NA)	2 (NA)	2.8 (NA)	24 (NA)	33.8 (NA)	59 (NA)	83.1 (NA)	71 (NA)

TOTAL
STUDENTS

No.
Enrolled

GRADUATE UNITS	BLACK AMERICANS		CHICANOS		NATIVE AMERICANS		TOTAL MINORITIES		WOMEN		TOTAL STUDENTS
	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled	% of Total	No. Enrolled	% of Total	
Home Economics	0 (2)	- (8.0)	1 (2)	6.7 (8.0)	1 (0)	6.7 (-)	2 (4)	13.3 (16.0)	15 (25)	100.0 (100.0)	15 (25)
Industrial Education	0 (NA)	- (NA)	2 (NA)	28.6 (NA)	0 (NA)	- (NA)	2 (NA)	28.6 (NA)	5 (NA)	71.4 (NA)	7 (NA)
* Special Education	2 (7)	0.9 (3.5)	36 (35)	16.0 (17.6)	4 (2)	1.8 (1.0)	42 (44)	18.7 (22.1)	167 (146)	74.2 (73.4)	225 (199)
COLLEGE OF ENGINEERING	3 (2)	0.9 (0.6)	29 (19)	9.0 (5.8)	0 (0)	- (-)	32 (21)	10.0 (6.4)	22 (22)	6.9 (6.7)	321 (328)
Chemical/Nuclear Engineering	0 (0)	- (-)	1 (4)	1.7 (7.7)	0 (0)	- (-)	1 (4)	1.7 (7.7)	1 (0)	1.7 (-)	59 (52)
* Civil Engineering	1 (0)	1.6 (-)	10 (6)	15.6 (10.9)	0 (0)	- (-)	11 (6)	17.2 (10.9)	2 (2)	3.1 (3.6)	64 (55)
* Computing & Information Sci.	0 (0)	- (-)	2 (2)	5.1 (4.9)	0 (0)	- (-)	2 (2)	5.1 (4.9)	14 (13)	35.9 (31.7)	39 (41)
* Electrical Engineering	2 (2)	1.6 (1.4)	14 (6)	11.0 (4.3)	0 (0)	- (-)	16 (8)	12.6 (5.8)	5 (7)	3.9 (5.1)	127 (138)
* Mechanical Engineering	0 (0)	- (-)	2 (1)	6.3 (2.4)	0 (0)	- (-)	2 (1)	6.3 (2.4)	0 (0)	- (-)	32 (42)
COLLEGE OF FINE ARTS	0 (0)	- (-)	6 (5)	4.4 (4.0)	0 (0)	- (-)	6 (5)	4.4 (4.0)	73 (60)	54.5 (48.0)	134 (125)
Art	0 (0)	- (-)	6 (4)	5.5 (4.0)	0 (0)	- (-)	6 (4)	5.5 (4.0)	59 (48)	53.6 (48.5)	110 (99)
Music/Music Education	0 (0)	- (-)	0 (1)	- (3.8)	0 (0)	- (-)	0 (1)	- (3.8)	14 (12)	58.3 (46.2)	24 (26)
* Medical Sciences	0 (1)	- (2.9)	2 (2)	5.3 (5.9)	0 (0)	- (-)	2 (3)	5.3 (8.8)	20 (17)	52.6 (50.0)	38 (34)
* Div. of Public Administration	8 (6)	4.6 (5.9)	56 (31)	32.2 (30.7)	7 (1)	4.0 (0.9)	71 (38)	40.8 (37.6)	61 (30)	35.1 (29.7)	174 (101)
GRAND TOTAL.	44 (45)	1.2 (1.3)	482 (384)	13.0 (11.1)	74 (52)	2.0 (1.5)	600 (481)	16.2 (13.9)	1632 (1477)	44.1 (42.6)	3697 (3467)

Figures in parentheses = Fall, 1975.

* Indicates request for GRE Minority Graduate Student Locator Service.

NA = Not available. Note that 1975 total and women enrollment figures for Secondary Education included Business Education and Industrial Education, while 1976 figures show the last two units separately.

TABLE 10.
FINANCIAL AID AS DISTRIBUTED TO SPECIFIED MINORITY GROUPS - FALL, 1976

	BLACK AMERICANS			CHICANOS			NATIVE AMERICANS			TOTAL MINORITIES			WOMEN			TOTAL STUDENTS	
	No. on Aid	% of All on Aid	% of All Blacks	No. on Aid	% of All on Aid	% of All Chs.	No. on Aid	% of All on Aid	% of All N. Ams.	No. on Aid	% of All on Aid	% of All Mins.	No. on Aid	% of All on Aid	% of All Women	No. on Aid	% on Total of Enrolled
GRADUATE UNITS																	
SCHOOL OF ARCHITECTURE	1	12.5	100.0	0	-	-	0	-	-	1	12.5	100.0	4	50.0	11.1	8	6.3
ARTS & SCIENCES	0	-	-	21	4.4	20.8	3	0.6	27.3	24	5.0	20.3	171	35.8	38.3	478	40.1
American Studies	0	-	-	0	-	-	0	-	-	0	-	-	2	100.0	5.3	2	2.3
Anthropology	0	-	-	1	3.3	20.0	0	-	-	1	3.3	20.0	11	36.7	20.8	30	28.6
Biology	0	-	-	1	2.0	20.0	0	-	-	1	2.0	20.0	19	38.0	44.2	50	46.7
Chemistry	0	-	-	2	3.6	100.0	0	-	-	2	3.6	100.0	14	25.0	82.4	56	76.7
Communicative Disorders	0	-	-	0	-	-	0	-	-	0	-	-	9	100.0	20.9	9	18.4
Comparative Literature	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	1	10.0
Economics	0	-	-	1	2.9	33.3	0	-	-	1	2.9	25.0	9	26.5	100.0	34	69.4
English	0	-	-	2	4.9	40.0	0	-	-	2	4.9	33.3	19	46.3	57.6	41	51.3
Geography	0	-	-	0	-	-	0	-	-	0	-	-	1	25.0	25.0	4	30.8
Geology	0	-	-	0	-	-	1	2.0	100.0	1	2.0	100.0	12	24.0	85.7	50	66.7
History	0	-	-	1	4.2	11.1	0	-	-	1	4.2	9.1	5	20.8	17.2	24	23.5
Inter-American Studies	0	-	-	0	-	-	0	-	-	0	-	-	4	57.1	66.7	7	58.3
Latin American Studies	0	-	-	0	-	-	0	-	-	0	-	-	4	66.7	57.1	6	26.1
Linguistics	0	-	-	0	-	-	1	50.0	100.0	1	50.0	50.0	1	50.0	16.7	2	25.0
Mathematics & Statistics	0	-	-	0	-	-	0	-	-	0	-	-	5	20.8	55.6	24	48.0
Modern Languages	0	-	-	9	19.6	29.0	0	-	-	9	19.6	29.0	32	69.6	52.5	46	46.9
Philosophy	0	-	-	1	20.0	25.0	0	-	-	1	20.0	25.0	0	-	-	5	9.4
Physics	0	-	-	0	-	-	0	-	-	0	-	-	4	13.3	66.7	30	55.6
Political Science	0	-	-	0	-	-	0	-	-	0	-	-	2	33.3	22.2	6	25.0
Psychology	0	-	-	3	7.7	30.0	1	2.6	50.0	4	10.3	33.3	11	28.2	50.0	39	61.9
Sociology	0	-	-	0	-	-	0	-	-	0	-	-	3	60.0	33.3	5	22.7
Speech Communications	0	-	-	0	-	-	0	-	-	0	-	-	4	57.1	26.7	7	20.6
SCHOOL OF BUSINESS & ADMINISTRATIVE SCIENCES	1	3.7	100.0	1	3.7	11.1	1	3.7	50.0	3	11.1	25.0	8	29.6	14.0	27	10.9
COLLEGE OF EDUCATION	0	-	-	61	29.5	22.0	21	10.1	40.4	82	39.6	23.2	114	55.1	12.4	207	14.1
Art Education	0	-	-	0	-	-	0	-	-	0	-	-	1	50.0	3.1	2	5.0
Educational Administration	0	-	-	7	24.1	11.5	17	58.6	54.8	24	82.8	25.0	14	48.3	19.2	29	13.4
Educational Foundations	0	-	-	4	28.6	36.4	1	7.1	33.3	5	35.7	31.3	6	42.9	13.3	14	15.7
Elementary Education	0	-	-	10	30.3	13.5	0	-	-	10	30.3	11.9	22	66.7	8.4	33	10.4
Guidance & Counseling	0	-	-	5	25.0	16.1	1	5.0	33.3	6	30.0	17.6	13	65.0	14.4	20	13.9
Health, Physical Education																	
Recreation	0	-	-	2	7.1	11.8	0	-	-	2	7.1	9.1	10	35.7	14.5	28	19.2
Secondary Education	0	-	-	5	41.7	22.7	1	8.3	100.0	6	50.0	20.7	8	66.7	7.9	12	6.2

	BLACK AMERICANS			CHICANOS			NATIVE AMERICANS			TOTAL MINORITIES			WOMEN			TOTAL STUDENTS	
	No. on Aid	% of All Aid	% of Blacks	No. on Aid	% of All Aid	% of Chs.	No. on Aid	% of All Aid	% of N. Ams.	No. on Aid	% of All Aid	% of Mins.	No. on Aid	% of All Aid	% of Women	No. on Aid	% of Total Enrolled
<u>GRADUATE UNITS</u>																	
Business Education	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-
Home Economics	0	-	-	0	-	-	0	-	-	0	-	-	0	100.0	6.7	1	6.7
Industrial Education	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	1	14.3
Special Education	0	-	-	28	41.8	77.8	1	1.5	25.0	29	43.3	69.0	39	58.2	23.4	67	29.8
<u>COLLEGE OF ENGINEERING</u>	0	-	-	0	-	-	0	-	-	0	-	-	4	7.3	18.2	55	17.1
Chemical/Nuclear Engineering	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	24	40.7
Civil Engineering	0	-	-	0	-	-	0	-	-	0	-	-	1	14.3	50.0	7	10.9
Computing & Information Sci.	0	-	-	0	-	-	0	-	-	0	-	-	3	60.0	21.4	5	12.8
Electrical Engineering	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	12	9.4
Mechanical Engineering	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	7	21.9
<u>COLLEGE OF FINE ARTS</u>	0	-	-	1	2.6	16.7	0	-	-	1	2.6	16.7	15	38.5	20.5	39	29.1
Art	0	-	-	1	3.0	16.7	0	-	-	1	3.0	16.7	13	39.4	22.0	33	30.0
Music/Music Education	0	-	-	0	-	-	0	-	-	0	-	-	2	33.3	14.3	6	25.0
Medical Sciences	0	-	-	2	8.0	100.0	0	-	-	2	8.0	100.0	11	44.0	55.0	25	65.8
Div. of Public Administration	3	16.7	37.5	5	27.8	8.9	1	5.6	14.3	9	50.0	12.7	9	50.0	14.8	18	10.3
<u>GRAND TOTAL</u>	5	0.6	11.4	91	10.6	18.9	26	3.0	35.1	122	14.2	20.3	336	39.2	20.6	857	23.2

VI. Financial Aid.

Assistantships provided financial aid for about 15% of the graduate students enrolled in 1976-77. Nearly half of these assistants were responsible for teaching classes, a relatively high proportion that reflects the inadequate basis of funding of the University. The BEF funding formula for 1977-78 helps make this clear. In almost every field, the average faculty compensation for lower division instruction is considerably lower at the "large" universities (UNM and New Mexico State University) than it is at the smaller institutions in the state. For example, in Biology the average faculty compensation for lower division instruction at UNM and NMSU is \$11,737 but at the smaller institutions is \$21,778; in Foreign Languages, at the larger institutions it is \$12,494 and at the smaller \$17,249; in Letters (which includes English) it is at the larger institutions \$13,606 and at the smaller \$16,489; and in Physical Sciences, it is \$15,177 at the larger and \$21,721 at the smaller. These reflect not so much the economies of scale, but the fact that a good deal of instruction is being done by graduate students at considerably lower salaries than people with similar qualifications are being paid as regular faculty members in the smaller institutions. One of the more unfortunate results of this situation is that the allocation of assistantships has tended to reflect the needs of lower division instruction rather than the University's priorities for support of graduate programs. Correction of the funding inequity should permit replacement of teaching assistants by instructors and the allocation of the assistantships, more appropriately, as graduate assistants. During the year, research assistantships remained fairly stable. During the year, the administration of all graduate student aid has now been consolidated within the Graduate School.

Table 11. Graduate and Other Assistantships, 1974-7

	Fall 1974	Spring 1975	Summer 1975	Fall 1975	Spring 1976	Summer 1976	Fall 1976	Spring 1977	Summer 1977
Graduate Assistants - Regular	159	170	34	108	102	35	141	141	37
Graduate Assistants - Special	26	24	0	32	36	0	48	56	0
Teaching Assistants - Regular	171	177	100	154	147	103	234	240	109
Teaching Assistants - Special	73	74	0	57	72	0	71	69	0
Teaching Associates	15	17	4	10	30	2	28	25	2
	444	462	138	361	387	140	522	531	148
Research Assistants	102	113	186	188	178	191	177	188	197
TOTAL	546	575	324	549	565	331	699	719	345

Table 12. Graduate Assistants, Teaching Assistants, and Teaching Associates, 1976-77

Colleges, Schools, Division	1976 Fall	1977 Spring	1977 Summer
<u>School of Architecture</u>	7	9	1
<u>College of Arts & Sciences</u>			
American Studies	3	2	0
Anthropology	14	15	2
Biology	37	34	11
Chemistry	29	29	17
Communicative Disorders	2	2	0
Economics	9	7	1
English	54	48	7
Geography	2	2	1
Geology	13	15	2
History	20	20	0
Latin American Center	1	1	0
Latin American Studies	2	2	0
Linguistics	2	1	2
Mathematics & Statistics	22	23	11
Modern & Classical Languages	47	49	21
Philosophy	5	5	1
Physics & Astronomy	19	21	0
Political Science	5	7	2
Psychology	21	22	4
Sociology	4	5	0
Speech Communication	6	4	4
<u>School of Business & Admin Sci</u>	20	21	2
<u>College of Education</u>			
Art Education	2	2	3
Educational Administration	3	4	2
Educational Foundations	7	10	8
Elementary Education	26	31	11
Guidance & Counseling	7	4	1
Health, Physical Education & Recr	13	18	10
Home Economics	2	2	0
Secondary Education	7	9	0
Special Education	3	3	3
<u>College of Engineering</u>			
Chemical & Nuclear Engr	3	4	0
Civil Engineering	5	6	0
Computing & Information Sci	3	4	2
EECS	12	13	1
Mechanical Engr	4	3	0

Table 12 . Graduate Assistants, Teaching Assistants,
and Teaching Associates (Cont'd)

Colleges, Schools, Division, Other	1976 Fall	1977 Spring	1977 Summer
<u>College of Fine Arts</u>			
Art	34	28	6
Music & Music Educ	4	4	1
Theatre Arts	3	4	1
<u>Division of Public Administration</u>	1	1	4
<u>Other</u>			
Afro-American Studies	1	4	0
Chicano Studies	3	5	0
COE Administrative Office	1	0	0
Continuing Education	0	0	1
English Tutorial Program	20	18	4
General Honors Undergrad Prog	6	3	0
Latin American Projects in Educ	1	0	0
Multicultural Educ Ctr	0	1	0
Native American Studies	3	3	1
UNM Northern Branch	1	1	0
Women Studies	3	2	0
TOTAL	522	531	148

Table 13. Research Assistants - 1976-77

<u>Colleges, Schools, Divisions</u>	<u>Fall 1976</u>	<u>Spring 1977</u>	<u>Summer 1977</u>
<u>School of Architecture</u>	0	0	0
<u>College of Arts & Sciences</u>			
American Studies	0	1	0
Anthropology	3	2	0
Contract Archaeology	3	3	1
Maxwell Museum	1	1	0
Biology	16	12	22
Chemistry	11	8	15
Communicative Disorders	0	0	0
Comparative Literature	0	0	0
Economics	24	24	17
English	0	0	0
Geography	0	0	0
Geology	27	30	25
Institute of Meteoritics	7	6	7
History	1	1	0
Historical Review	1	1	1
Ibero-American Studies	0	0	0
International Affairs	0	0	0
Latin American Studies	0	0	0
Linguistics	4	4	4
Mathematics & Statistics	2	2	1
Modern & Classical Languages	0	0	0
Philosophy	0	0	0
Physics & Astronomy	8	10	13
Political Science	1	1	1
Psychology	6	6	6
Sociology	0	0	0
Speech Communication	0	0	0
	115	112	113
<u>Anderson School of Business</u>	0	0	0
<u>College of Education</u>			
Art Education	0	0	0
Dean's Office	1	2	2
Educational Administration	0	0	0
Educational Foundations	2	1	1
Elementary Education	0	0	0
Guidance & Counseling	0	0	0
Health, Physical Education & Recreation	0	0	0
Home Economics	0	0	0
Secondary Education	1	2	2
Special Education	1	1	1
Manzanita Center	0	1	1
	5	7	7

Table 13. Research Assistants-1976-77 (Cont'd)

Colleges Schools, Division	Fall 1976	Spring 1977	Summer 1977
<u>College of Engineering</u>			
Chemical	0	0	0
Civil	0	0	0
Computing & Information Sci	1	1	1
EECS	0	0	0
Mechanical	0	0	0
Nuclear	0	0	0
Bureau of Engineering Research	25	34	37
Civil Engr Research Facility	2	2	3
	28	37	41
<u>Fine Arts</u>			
	0	0	0
<u>Medical Sciences</u>			
Anatomy	0	0	1
Biochemistry	6	4	7
Medicine	2	3	7
Microbiology	1	2	2
Minority Biomed Sci Program	9	9	8
Pathology	0	0	0
Pharmacology	0	0	1
Physiology	3	1	1
Psychiatry	1	3	0
SOM Student Affairs	0	0	1
	22	22	28
<u>Division of Public Administration</u>			
	3	7	6
<u>Other</u>			
Albuquerque Urban Observatory	1	1	1
English Tutorial Program	1	1	0
Research Administration	2	1	1
	4	3	2
TOTAL	177	188	197

Table 14. Graduate Student Financial Aid (1974-75 - 1976-77)

Grantor Agency	1974-75		1975-76		1976-77	
	Grant Amt	Awardees	Grant Amt	Awardees	Grant Amt	Awardees
<u>American Association of University Women</u>						
Fellowship	300	1	300	1	300	1
<u>Association on American Indian Affairs</u>						
Sequoyah Fellowship	1,000	1	--	-	1,000	1
<u>Associated Western Universities, Inc.</u>						
Graduate Fellowship	--	-	3,600	1	--	-
<u>Buffalo Foundation</u>						
Fellowship	2,300	1	--	-	--	-
<u>Dept of Health, Education & Welfare</u>						
*NDEA Title IX-B Fellowship	26,000	4	8,000	2	16,000	2
NDFL Title VI Fellowship	13,000	4	14,256	4	11,856	4
Energy Management Fellowship Program	--	-	32,500	5	56,184	4
Title VII, Bilingual Educ. Fellowship Prog.	--	-	166,759	33	203,143	38
<u>Ford Foundation</u>						
Doctoral Fellowship	18,525	4	--	-	--	-
Advanced Study Fellowship	38,352	8	--	-	--	-
Graduate Fellowship for Mexican-Americans and Native-Americans	--	-	17,730	13	8,933	12
<u>National Institute of Health</u>						
Minority Biomedical Sci. Advance. Program (Grant/Fellowship)	66,784	10	21,400	11	66,300	15
<u>National Science Foundation</u>						
Graduate Fellowship	--	-	--	-	7,300	1

* Formerly NDEA Title IV Fellowship

Table 14. Graduate Student Financial Aid (1974-75 - 1976-77) Cont'd.

Grantor Agency	1974-75		1975-76		1976-77	
	Grant Amt	Awardees	Grant Amt	Awardees	Grant Amt	Awardees
<u>U.S. Atomic Energy Commission-ERDA</u>						
Traineeship	4,226	4	11,410	5	4,450	2
<u>U.S. Department of Transportation</u>						
Federal Highway Administration Fellowship	--	-	5,000	1	--	-
<u>U.S. Office of Education</u>						
Fellowship	5,082	6	--	-	--	-
<u>The University of New Mexico</u>						
AFGRAD Fellowship (supported financially by the Graduate School)	1,278	1	1,300	1	--	-
Graduate Tuition Fellowships	26,550	59	22,410	54	26,033	63
LASPAU Fellowship (supported financially by the Graduate School)	1,015	1	1,782	2	--	-
Juan Montalvo Fellowship (supported financially by the Graduate School)	--	-	2,278	1	500	1
<u>University of Puerto Rico</u>						
Tuition Scholarship	534	1	--	-	--	-
TOTALS	214,922	107	308,725	134	401,999	144

VII. The Graduate Committee.

The members of the Graduate Committee for the academic year 1976-77 were:

Richard Anderson
 William Baker
 David Benedetti (ex-officio)
 Carl Bradford (graduate student member)
 Nicolai Cikovsky, Jr.
 Clifford Crawford
 Ronald DeVries
 Shirley Earickson (ex-officio)
 Wolfgang Elston
 Joseph Goldberg
 Shyam Gurbaxani (ex-officio)
 William Hannaford
 Richard Holemon
 Tamara Holzapfel
 Jane Kopp (ex-officio)
 Robert Lenberg
 Margaret Moses (graduate student member)
 Alan Reed (ex-officio)
 John Rhodes
 Lawrence Rosenfeld
 Bernard Spolsky (chairperson)
 Fred Sturm
 Anne Taylor (ex-officio)
 Sei Tokuda
 Billy Watson
 Robert White

The Graduate Committee met twelve times in the course of the 1976-77 academic year. The major actions of the Graduate Committee during the year were to approve a consolidated policy on graduate student financial aid (subsequently approved by the Faculty Senate for the coming year); recommend stipend levels for assistantships (subsequently approved by the Central Administration); approve a sick leave policy for teaching assistants (subsequently approved by the Central Administration); carry out evaluation of programs in Musicology, Music Education, Comparative Literature, and Portuguese at the request of the Provost in furtherance of the BEF program duplication study; recommend a candidate for the Outstanding Teacher Award

(subsequently approved by the Committee on the Outstanding Teacher Award); amend the policy on transfer of credits towards masters degrees; and look into the question of non-traditional graduate education. In addition, the committee heard and acted on various student petitions, approved some graduate courses for CR/NC grading, and approved the award of honorary and other degrees. A good part of the committee's effort during the year went into discussion of the various proposals for reorganization of graduate education.

With the implementation of the Faculty Senate action described in the next section, the Graduate Committee, as a committee of faculty members selected by the general faculty, goes out of existence and its responsibilities are taken over by a committee of the Faculty Senate. This transition is an appropriate time to pay tribute to the serious sense of responsibility that the Graduate Committee has taken over the last few years for the quality of graduate education at the University; its members have worked hard and devoted considerable time to a courageous pursuit of quality education.

VIII. The Organization of the Graduate Program.

In my last report, I referred to the action of the general faculty at its final meeting in voting to recommend the establishment of a Graduate School of Business independent (for masters degrees) of the Graduate School. After consideration, this arrangement was implemented by the Central Administration and a number of procedural changes took place. In the first section of this report, I have referred to the effect of the establishment of the position of Provost; when the position was established, it was decided that the Dean of the Graduate School should report directly to him rather than as in the past to a Vice President for Research and Graduate Studies or, as in the case of college deans,

to the Associate Provost/Dean of Faculties. Early in the year, the Faculty Senate organized itself into a number of committees of Senators. Each committee except one had the general oversight of several standing faculty committees. The one was the Faculty Senate Committee on Graduate Programs and Standards. Its basic task was the oversight of the Graduate Committee and the consideration of the organization of graduate education at UNM. Starting from the report of the ad hoc Committee on Graduate Professional Education referred to in last year's report, the committee first rejected the notion in that report which would have abolished the Graduate School and moved all its functions to the colleges. It did however suggest certain major changes which were approved both by the Graduate Committee and later by the Faculty Senate. First, the functions of the Graduate Committee are to be taken over by the Senate Committee on Graduate Programs and Standards. Second, many of the responsibilities of the Graduate Committee are to be moved to college graduate committees. Third, the name of the Graduate School should be changed to reflect the new situation and the fact that there is no graduate faculty.

IX. Future Plans.

A number of steps need to be taken to assure the future of quality graduate education at UNM. A good deal of attention will have to be given to the implementation of the Faculty Senate resolutions. Of considerable importance is the implementation of an automated graduate student record system of the type referred to in last year's report. Another high priority must be the development of a strong policy for evaluation of graduate programs so as to provide a much more adequate data base for academic planning. The proposed BEF policy on off-campus instruction

should provide support for off-campus graduate programs. The University has the potential for excellence at the graduate level; the fullest realization of this potential must be our aim.

APPENDIX I.

Staff Service, Travel and Publications

SERVICE ON COMMITTEES

Bernard SpolskyInternally:

Provost's Council
 Council of Academic Deans
 Graduate Committee (Chairperson)

Externally:

Program Committee. Linguistic Society of America
 Visiting Committee on English Language Institute, University of Michigan
 Council of Graduate Deans of New Mexico State Universities (Chairperson)
 General Advisory Council on Postsecondary Education, BEF
 Akiba Day School Education Committee
 UNM Representative to International Research and Exchanges Board
 TESOL Editorial Advisory Board

David T. BenedettiInternally:

Graduate Committee
 Subcommittee on Fellowships (Chairperson)
 Subcommittee on Graduate Faculty
 Academic Calendar Advisory Committee
 Psychology Department
 Graduate Admissions Committee
 Clinical Committee
 Faculty Evaluation Committee (Chairperson)
 Minorities Committee

Externally:

Council of Graduate Deans of New Mexico State Universities

Jane B. KoppInternally:

Graduate Committee
 Minorities Subcommittee
 Task Force on Program Development (Chairperson)
 Provost Search Committee
 Title VII Grant (Administrator)
 English Department Policy & Personnel Committee
 Computing & Information Science Executive Committee

Externally:

Council of Graduate Deans of New Mexico State Universities

Appendix I. Staff Service, Travel and Publins (Cont'd)

Anne P. TaylorInternally:

Graduate Committee
 Thesis Dissertation Subcommittee
 Non-traditional Graduate Programs Subcommittee
 College of Education Graduate Curriculum Committee
 Art Education
 Special Projects Committee
 Library Committee
 American Studies Faculty Advisory Committee

Externally:

Council of Graduate Deans of New Mexico State Universities
 New Mexico Art Education Association (past-President)
 Alliance for Arts Education of New Mexico
 Commission on Art Education for the National Art Education Assn
 National Advisory Board for the Architect in the Schools,
 National Endowment for the Arts

TRAVEL

Bernard Spolsky

<u>Date</u>	<u>Place</u>	<u>Purpose</u>
7/18/76	Boston, MA	Lectured at Harvard Graduate School of Education
10/5-6/76	St. Louis, MO	UNM representative at IREX Annual Meeting
10/29/76	Washington, DC	Eric Clearinghouse meeting
12/76	New York City	Member of United States group of bilingual educators for exchange with the Soviet Union
1/30-31/77	St Louis, MO	Danforth Foundation to discuss grant fellowships
2/4-6/77	Ontario, CA	Meeting of NEH Summer Seminar Directors
3/18-19/77	Milwaukee, WI	Presented paper at the Sixth Annual UW-M Linguistics Symposium on Language Acquisition
4/17-22/77	Houston, TX	Session participant at 63d Annual Meeting of the American Association of Collegiate Registrars and Admissions Officers

Appendix I. Staff Service, Travel and Publns (Cont'd)

4/22/77	Washington, DC	LSA Program Committee meeting
4/27-5/1/77	Miami, FL	Attended TESOL annual convention (elected first Vice President)

Anne P. Taylor

10/1-3/76	Tucson, AZ	Gave presentation at Four Corners Art Education Conference
11/76	Washington, DC	Worked on task force for pool facility planning, Bureau of Indian Affairs
12/10-11/76	Denver, CO	Made presentation at Council of Graduate Schools annual meeting
12/76	Philadelphia, PA	To attend National Advisory Board meeting for the architect in the schools, National Endowment for the Arts
1/77	Stanford, CA	Participated in writing of national publication for the National Art Education Association
2/14/77	Stanford, CA	Lectured at Stanford Lecture Series
3/77	Philadelphia, PA	Attended convension of National Art Education Association

PUBLICATIONS

Bernard Spolsky

"Socioeconomic implications of bilingual education on the Navajo Reservation." In The Bilingual Child, edited by Antonio Simoes, Jr., New York, Academic Press, pp. 113-41. (Co-authors: John Read and Alice Neundorf).

"Innovations and developments: off-campus graduate programs at the University of New Mexico." Proceedings of the 18th Annual Meeting of the Western Association of Graduate Schools, edited by Richard D. Moe. Tacoma, Washington, Pacific Lutheran Press, pp. 77-79.

"A model for the description, analysis, and perhaps evaluation of bilingual education." Language in Society, edited by Albert Verdoodt and Rolf Kjolseth. Institut de Linguistique de Louvain; Louvain: Editions Peeters, pp. 233-63. (Co-authors: Joanna B. Green and John Read)

Appendix I. Staff Service, Travel and Publins (Cont'd)

"Linguistics in Practice: The Navajo Reading Study Program." (reprint-1975) BIA Education Research Bulletin, Vol. 4., September, 1976, No. 3, pp. 1-10.

"Warning-CAL May Be Hazardous to the Profession." TESOL Newsletter, Vol. X, No. 5 (November-December 1976), p.2. (Co-author: Robert B. Kaplan).

"Bilingualism", Chapter VIII, pp.164-81 of A Survey of Applied Linguistics, edited by H. Douglas Brown and R. Wardhaugh, University of Michigan Press.

"Language Testing: Art or Science", Proceedings of the Fourth International Congress of Applied Linguistics, edited by Gerhard Nickel, HochschulVerlag, Stuttgart, Vol.3, pp. 7-28.

"Toward the measurement of functional proficiency: contextualization of the noise test." TESOL Quarterly, 11:51-57. (With Stephen Gaies and Harry Gradman.)

FRONTIERS OF BILINGUAL EDUCATION. Rowley, Mass.: Newbury House Publishers. (Co-editor, with Robert Cooper).

"The establishment of language education policy in multilingual societies." Pages 1-21 in Frontiers of Bilingual Education.

Jane B. Kopp

"Dirt Road", poem in The Smith, Vol. 1, No. 18, pp. 194-5.

"Farm Wife", poem in Quartet, Vol. 7, Nos. 51-53, p. 41.

"Androgyne", poem in Margarine Maypole Orangoutang Express, No. 17, p.3.

"Waking Married" and "Farm Wife", poems in Travois: An Anthology of Texas Poetry, Contemporary Arts Museum of Houston, 1976 p.97.

Anne P. Taylor

PERSONAL SPACE, YOU AND YOUR PLACE, Central Midwestern Regional Education Laboratory, St. Louis, MO., 1977.

COMMISSION REPORT ON ART EDUCATION, National Art Education Association, Washington, D.C., 1977.

"Status of Arts Education", Art Space, Dec., 1976.

"Administrators Workshop", Emphasis, Western Art Foundation, Winter, Denver, CO.

"Aesthetic Learning Environments Research and Related Needs, Central Midwestern Regional Education Laboratory, St. Louis, MO., 1977.

"Man Environment Systems", Summer Edition.

The Report of the Los Alamos Graduate Center

July 1, 1976 - June 30, 1977

Shyam H. Gurbaxani, Director

Tables I and II give statistics for the Los Alamos Graduate Center for the academic year 1976-77. Data from previous years is also tabulated for comparison. The Center operated on an annual budget of \$166,000.00, an increase of \$6,000.00 over the previous year.

Based on an enthusiastic response to the special Medical Science Survey, the LAGC and the Medical School formulated a program of offerings leading towards an M.S. degree in Medical Science in the Physiology Department. This program is scheduled to start beginning with the Fall 1977 semester. A special arrangement has been worked out with the Medical School and the Graduate School to admit this Fall new LAGC graduate students who applied as late as August 15, 1977.

A total of 43 formal and 21 individualized courses were offered with approximately 40% enrollment in courses at 500 level and above. The Engineering College accounted for 60% of our enrollment with 19% for the college of Arts & Sciences, 18% for the Anderson School of Business and Administrative Sciences and 3% for the Medical School. Thirty UNM professors were contracted to teach the above courses.

The Graduate Center has also worked with the LASL Training Office in developing and offering several multidisciplinary courses for professional development of the LASL employees under a separate contract arrangement.

Table I

Academic (Fiscal) Year	1972-1973		1973-1974		1974-1975		1975-1976		1976-1977	
Semesters	Summer & Fall	Spring	Summer & Fall	Spring	Summer & Fall	Spring	Summer & Fall	Spring	Summer & Fall	Spring
Registrations:										
Dissertation (Ph.D.)	14	13	8	8	11	9	8	9	5	4
Thesis (M.S.)	8	4	2	2	2	2	1	1	1	2
Problems (Indv. Study)	14	10	20	6	11	5	12	7	9	5
Graduate Courses	315	212	178	132	217	161	138	89	162	97
Undergraduate Courses	45	30	149	95	98	99	192	127	183	154
Semester Totals	396	269	357	243	339	276	351	233	360	262
Yearly Totals	665		600		615		584		622	
CREDIT HOURS *	1117	818	1035	739	971	798	1013	656	987	748
Yearly Totals	1935		1774		1769		1669		1735	
INDIVIDUALS ENROLLED:	302	214	261	187	269	229	267	183	274	206
Yearly Totals	516		448		498		450		480	
COSTS PAID UNM	83027	64088	74300	66630	62567	65745	69651	70926	80775	70447
Academic (Fiscal) Year	147115		140930		128312		140577		151222	
COST PER CREDIT HOUR	74.37	78.35	71.79	90.16	64.44	82.39	68.76	108.12	81.84	94.18
Academic (Fiscal) Year	76.05		79.44		72.54		84.23		87.16	
NUMBER OF COURSES - Offered	27	23	27	24	23	25	26	24	26	20
- Given	26	19	26	21	22	24	23	18	25	19
AVERAGE COURSE ENROLLMENT**	13.8	12.7	12.8	10.8	14.3	10.8	14.7	12.0	14.3	13.2

* Credit Hour Equivalent used for registrations as an auditor, or for non-credit courses, Thesis or Dissertation.
 ** These figures are for the fall and spring semesters only, and do not include registrations during the summer session

Degree Recipients

July 1, 1977

The numbers of University of New Mexico graduates who have taken significant course work toward their degrees in the LASL Academic Training Program are tabulated below. Most Ph.D.'s and Sc.D.'s participated in both the LASL's Advanced Study Program to complete residence requirements on campus and in the Graduate Thesis Program.

	FIELD	1954- 1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	TOTALS	
B.A. or B.S.	Biology	1	-	-	-	-	-	-	-	-	-	1	
	Chemistry	5	-	-	-	-	-	-	-	-	-	5	
	Engineering:												
	Electrical & Computer Sci.	5	-	2	1	-	-	4	2	-	2	16	
	Mechanical	1	-	-	-	-	-	-	-	-	2	3	
	Math. & Statistics	7	-	-	-	1	1	-	-	-	1	10	
	Physics	1	1	-	-	-	-	-	-	-	-	2	
	University Studies	-	-	-	-	-	-	-	-	-	1	1	38
M.A. or M.S.	Chemistry	5	-	-	-	1	3	-	-	-	-	9	
	Engineering												
	Chemical & Nuclear	41	1	2	3	-	-	-	-	-	-	47	
	Electrical	12	2	3	-	-	-	-	1	-	-	18	
	Computer Science	-	-	-	-	6	4	9	7	2	7	35	
	Mechanical	8	-	3	2	5	-	-	-	-	-	18	
	Engr. Sci. of Materials	5	-	2	1	-	-	-	-	-	-	8	
	Math. & Statistics	4	-	1	-	-	1	-	-	1	-	7	
	Physics	20	2	1	2	2	1	2	-	-	1	31	173
Ph.D. or Sc.D.	Chemistry	16	1	-	-	-	1	-	-	1	-	19	
	Engineering:												
	Electrical	2	-	-	-	-	1	-	-	-	1	4	
	Mechanical	3	1	-	-	-	-	-	-	-	-	4	
	Nuclear	1	-	1	1	1	-	-	-	-	-	4	
	Mathematics & Statistics	-	-	-	-	-	2	1	-	1	-	4	
	Physics	11	1	1	1	-	-	-	2	-	-	16	51
TOTALS		148	9	16	11	16	14	16	12	5	15	262	

THE SANTA FE GRADUATE CENTER
ANNUAL REPORT
July 1, 1976 - June 30, 1977

Alan Reed, Ph.D., Director

The Santa Fe Graduate Center has continued to build its program and secure its place in the educational community of Santa Fe during the 1976-77 year.

As our table of statistics reports, our enrollment has steadily climbed. We were able to respond to some of the evident needs of the Santa Fe community, particularly through self-supporting courses in Education, which are required under new state standards for teacher certification.

Several of our students have completed degrees and others are nearly to the end of their programs. We had two graduation receptions this year. We recognized the first two graduates of the Center, John Hans Maruska and Andrew Gonzalez in December. In May, we honored six graduates. All but one of these have received Masters degrees in Public Administration. One graduate received a degree in education, and took only one course with us. But we claimed her anyway.

Administrative arrangements continue to work well. Our budget problems, of course, are well known. We must receive recognition and regular funding from the Legislature in the next session if we are to respond even inadequately to the numerous identified needs of Santa Fe for graduate education.

The Director served throughout the year on the city task force on the St. Vincent's Hospital Site. We saw the Legislature authorize funds for

purchase of the site, but its use was not decided. As the year drew to a close, the Director was appointed by the Governor to a state task force to handle the use study and recommendations for the site, in cooperation with Senator Aubrey Dunn.

Two meetings of the Center's Advisory Committee were held. Attendance was not good, but those who came were very helpful in continuing the dialogue regarding the Center's role and services. Brother Clarence Fioke of the College of Santa Fe has been particularly helpful in many ways. David Santillanes, the Executive Director of the Chamber of Commerce, was also helpful. He has now left that position. But his replacement, Diane Baker, is a friend of the Center, and should be an able replacement also on the Advisory Committee.

Interest in the Center's programs continues to be strong. I believe that we will come very near three hundred registrations in the Spring semester next year. However, it should be noted that the Center cannot expand much more without additional budget and degree programs. We are nearing our maximum operation with current budget arrangements.

Our statistics are on the following table. It may be noted here however that our number of students in the Spring semester increased by 108.3 percent compared with the first semester of last year, and the number of registrations increased by 81.4 percent. Total student credits hours for 1976-77 were 1497 compared with 1038 for 1975-76, an increase of 44.2 percent. It may be noted also that our enrollment percentage for women and minorities continues to be much higher than on main campus.

SANTA FE GRADUATE CENTER STATISTICS

<u>Semester</u>	<u>Students Registered</u>	<u>Total Registrations</u>	<u>% Women</u>	<u>% Spanish</u>	<u>% Indian</u>	<u>% Black</u>	<u>Student Credit Hours</u>
Fall 1975	96	135	38.5	38.4	4.1	2.0	405
Spring 1976	138	164	42.0	30.4	2.9	0.8	492
Summer 1976	40	40	57.5	25.0	5.0	0	120
Fall 1976	159	214	62.8	28.5	4.4	0	642
Spring 1977	202	245	54.0	26.5	3.5	0	735
Total 1975-76*	281	346					1038
Total 1976-77	401	499					1497

* Includes unofficial total of 47 registered students in Summer 1975.



GRADUATE STUDENT ASSOCIATION

GRADUATE STUDENT ASSOCIATION YEARLY REPORT

Graduate Student Association's major goals for the 1976-77 academic year were to revise the Constitution and provide a forum for interaction between departmental graduate student organizations. Elections were held in October '76: Carl Bradford, President and Margaret Moses, Chairperson. GSA Standing Committees were appointed and approved: Elections, Finance, and Student Research Allocation. The Student Research Allocation Committee was the most active, meeting three times a month to allocate over \$6,000 to individual graduate students for travel related research projects. The GSA Council met once a month to approve budgetary requests, discuss graduate student problems, and listen to speakers. During the course of the year two parties were sponsored by GSA for graduate students and their guests. Also a new Constitution was adopted in April '77. GSA maintained an office upstairs in the SUB in order to provide graduate students with grant and fellowship information, college catalogs, and some housing and job referrals. GSA continued to represent graduate students on University committees, filling at least one position per committee..

Organizations funded during the year were: Clinical Law Program, ASA Gallery, Agora, Poetry Series, International Center, KUNM, LOBO, New America, Child Day Care Co-op, and Popejoy Hall. By funding these organizations graduate students received services and discounts. Also GSA funded departmental student government groups using pro-rata benefit funds.

In April in a general election and referendum, a new budget was approved which increased Student Research Allocation Committee funding and cut out organizations not contributing to graduate students.

Hopefully GSA will continue in providing services to graduate students not only on a group basis but also in terms of the individual. This past year has been an organizational year, invoking fundamental changes in the power of the GSA Council, Chairperson, and creating a greater incentive on the part of departmental graduate student bodies to participate.

"to improve our education through our efforts together"

THE REPORT OF
THE INSTITUTE FOR APPLIED RESEARCH SERVICES

July 1, 1976 - June 30, 1977
Lee B. Zink, Director

The Institute made encouraging progress during this fiscal year toward realizing the potentials of the mission reflected in the name Institute for Applied Research Services adopted in September 1975. Rapid changes occurring in the Institute's "laboratory"--the state of New Mexico--during a period of tremendous growth and development presented both challenge and opportunity as moves were made to implement the changed posture.

Activities of the Institute, through its various divisions, involved many of the foremost concerns of the day and reflected the ferment occurring not only in New Mexico but throughout the Rocky Mountain region: concerns of energy, environment, business and economic growth and development, migration of retirees to the Sunbelt, Indian development efforts, rural employment, and community health, to cite a few.

All these activities were in keeping with Institute goals of applying the varied expertise of the University Community to contemporary problems and at the same time giving many students exposure both to the problems and to the problem-solving process. As part of this endeavor the Institute continued to work closely with non-governmental interests and with key entities of the state government, while performing functions for the federal government and for local governments, as well.

The Institute acquired two major divisions during this fiscal year which will enable it to extend its activities in the important areas of business development and community health, both longtime needs in the area. Two other programs were transferred in a consolidation move.

One of the newly-acquired divisions is the Community Health Development Center, which receives its basic funding through the University of New Mexico School of Medicine. The other is the Business Assistance and Resources Center, which is financially supported by the Economic Development Administration in the U.S. Department of Commerce.

The Institute's budget for this fiscal year was stabilized in comparison to the preceding year. Contracts and grants made approximately \$2 million available to the various divisions to support their operations, and the Institute was awarded approximately 45 contracts through its divisions. These will be discussed in the various division reports.

Through the Bureau of Business and Economic Research, the Institute continued to house the Governor's Council of Economic Advisors as a continuing commitment to public service on the part of the University and the Institute, in cooperation with the government of the state of New Mexico. The Institute

Director again this year served as chairman of the Council and as a member of the Governor's Cabinet, providing a useful communications bridge between the organized expertise of the University and top echelons of the state government.

As of May 20, 1977, the College Enrichment Program and the Special Services for Disadvantaged Students Program were transferred to the University's Administrative Vice President for Student Affairs, Alumni Relations, and Development. Purpose of this action was to consolidate all of the University's student programs into a single office so as to facilitate their administration.

In other administrative changes, Dr. Peter Montague was appointed Director of the Center for Environmental Research and Development, and a Division of Energy Conservative Design was added to this Center, headed by Associate Professor Wybe van der Meer.

There were no major changes in the IARS central staff during this fiscal year.

THE BEHAVIORAL RESEARCH DIVISION
Peggy J. Blackwell, Director

The activities of the Behavioral Research Division during the year centered on two research projects: Energy Resources Planning: The Social Dimensions, and the Ruidoso Criminal Justice Facility Project.

Energy Resources Planning, funded by the New Mexico Energy Resources Board through UNM's Energy Institute, is establishing the range of human (public) concerns related to energy use and the priorities for those concerns. The research was organized in four phases: (1) interview local and state officials involved in energy planning to establish their information needs concerning the social aspects of energy and to ascertain their views about the human considerations of energy and its use; (2) determine the range of energy related social concerns; (3) reduce those concerns into logical, useful categories; and (4) establish priorities for each of the concerns and for the categories. The first two phases have been completed.

The second project is funded by a subcontract from the city of Ruidoso, New Mexico. The purpose of this project is to assist Ruidoso to update the delivery of law enforcement services and the design of law enforcement facilities. The project will include the Ruidoso police department, judiciary, and detention facilities. We were in the early stages of data collection as the fiscal year closed.

During the 1976-77 project year, the BRD has submitted research proposals to federal and state agencies, several of which are currently being reviewed. Also, members of the staff presented papers based on BRD research at the annual meeting of the Rocky Mountain Educational Research Association and the Rocky Mountain Psychological Association.

THE BUREAU OF BUSINESS AND ECONOMIC RESEARCH
Lee B. Zink, Director

The Bureau of Business and Economic Research (BBER) in fiscal year 1977 carried on with its continuing obligations to provide New Mexico's public with authoritative socio-economic oriented services and research. BBER efforts cover a broad scope, ranging all the way from assisting individual citizens with their information needs to conducting in-depth research projects for business or state entities. These varied activities continue to maintain and enhance the BBER's reputation as a University organization which is supplying a public need by providing assistance to New Mexico's communities and agencies.

The Bureau is at the forefront of the University's involvement with the accelerated development taking place in New Mexico during the 1970's and deals constantly, on a day to day basis, with the many ramifications of these trends. The Data Bank, at the heart of the BBER's operation, is

204

the official source for data relevant to the state of New Mexico. It processed approximately 5,000 information requests this year.

The BBER once again was designated to be the depository and to aid in information processing for the census to be taken in 1980. Preliminary work for the Census Tabulation Center has commenced.

In one of the major continuing contracts of the BBER, an econometric model for New Mexico was developed through a joint effort with the University's Department of Economics. The work was sponsored by the Four Corners Regional Commission and provided an example of Institute participation in regional affairs, with the State Planning Office also involved. Baseline studies for the Energy Resources Board were awarded to the Bureau under which basic and statistical analysis was required. A project funded by the National Science Foundation involved the analysis of environmental management impact on the non-ferrous mining industry in the Southwest. This project was conducted in conjunction with the University's College of Engineering and the Department of Economics. All these comprised continuing contracts.

New contracts included a Navajo Labor survey which was awarded the BBER. It called for surveying the Navajo Nation's labor market. Another contract, by Kerr-McGee Corporation, authorized a survey of the company's employees in the growing Grants-Gallup area, center of the uranium development as well as some of the coal mining expansion, and in Albuquerque which feels much impact from mineral development as the state's leading metropolitan area.

A number of other projects were funded, including an impact study of the Abiqui dam area, the traditional bi-annual publication of the New Mexico Manufacturing and Mining Directory under sponsorship of the State Department of Development, a directory of research firms in New Mexico, a continuation of a U.S. Forest Service-sponsored feasibility study for a handcraft industry for northern New Mexico, and two traffic related studies funded by the New Mexico Traffic Safety Commission.

The BBER also completed two surveys of New Mexico residents' opinions of nuclear energy development and waste disposal, and a survey for the UNM Alumni Association of opinions of alumni of the state's largest university on several current topics.

New appointments to the staff were:

Betsie Kasner	Assistant Economist
Gilbert Bonem	Economist III
Karleene Smith	Clerical Specialist III
Shirley Emin	Program Specialist V
Lynn Wombold	Program Specialist IV

Separations from the staff were:

Phoebe Carter	Assistant Editor
Larry Adcock	Associate Director
Judy Burnam	Clerical Specialist III
Erika Jones	Data Bank Supervisor

THE BUSINESS ASSISTANCE AND RESOURCE CENTER
Louis Galvez, Director

The Business Assistance and Resource Center was newly created this year through a grant from the Economic Development Administration, USDC. Louis Galvez was appointed Director effective September 1, 1976. The Center staff includes Augustine Apodaca and James Ray as Business Development Specialists. Frank Contreras is an analyst shared with the Bureau of Business and Economic Research.

The purpose of the Center is the improvement of the economic base of New Mexico communities by assisting business people, public officials, and other groups and individuals to make sound decisions which may result in stabilizing existing businesses, encouraging the expansion of viable businesses, increasing the basic employment, raising personal income levels and stimulating capital investment.

The Center provided various services to 50 clients or projects during the year. The assistance provided in the categories of business stabilization, business expansion, new business ventures and community development has resulted in 53 jobs known to have been saved or created, in addition to a projection of 29 other new jobs in the near future. In addition, the Center's assistance was instrumental in stimulating \$525,000 in new capital investment. The Center is projecting a potential of more than \$8.3 million in capital investment in the next several months if the current active projects are implemented.

In conjunction with the Division of Continuing Education, the Center assisted in conducting seven one-day workshops which attracted a total of 148 small businessmen. The workshops covered overall business planning, income tax overview and planning, and financial recordkeeping and analysis.

THE COLLEGE ENRICHMENT PROGRAM
Dan D. Chavez, Director

This End of Year report comprises five sections: Recruitment, Orientation, Enrollment, Advisement and Tutoring.

Recruitment

As in previous years, a minimum of three recruitment trips were made to each of the 115 New Mexico public high schools and most of the New Mexico private high schools (about 15 or 20). A total of 155 students were recruited.

Pre-College Summer Orientation Sessions

Three three-week orientation sessions were conducted for the 155 incoming freshmen. Approximately 50 students participated in each session.

Enrollment

The following enrollment figures are for the first semester in 1976-77.

	<u>UNM</u>	<u>ELSEWHERE</u>	<u>TOTALS</u>
Undergraduate Students	393	23	416
Graduate Students	7	3	10
Law Students	2		2
Medical Students	2	1	3
Non-Degree Students	<u>10</u>	<u>—</u>	<u>10</u>
TOTALS	414	27	441

Academic Advisement and Counseling

The academic progress of the CEP students enrolled--441 in the Fall semester (both on and off-campus)--was constantly monitored. In addition, the students were continuously provided advice in academic matters and counselling in financial and personal matters. Systematic pre-registration advisement was given during November for the second semester and during May for the Fall semester of 1977.

Tutoring

Tutoring was offered to any CEP student in any subject upon his-her request.

Effective May 20, 1977 The College Enrichment program was placed under the Administrative Vice-President for Student Affairs, Alumni Relations, and Development.

THE COMMUNITY HEALTH DEVELOPMENT CENTER
Gene Romo, Director

The Community Health Development Center's program direction is to provide technical assistance in health management, grantsmanship, board-training, financial record-keeping, medical record-keeping, and fee collections. In addition, other services include training health clinic staffs in health education and health outreach and follow-up. Other services that have been provided by CHDC include supplying of personnel practice documents, affirmative action plans, revision of job descriptions, medical record-keeping methods for collecting Medicaid, Medicare and other third-party payments, board training in health decision-making and procedures for establishing community support for health programs. Assistance was

given to health clinics, home-health care programs, hospitals, elderly meal-site programs and other health related agencies located in El Rito, Mora, Las Cruces, Loving, Portales, Tucumcari, Tierra Amarilla, Socorro, Santa Fe, Espanola, Gallup, Truth or Consequences, Clovis and Las Cruces. The overall goal is to assist a health care program in stabilizing its administrative and service delivery operations.

The staff, Director, and a part-time consultant have responded to most of the requests which have been received. However, it has also been CHDC's practice to hire appropriate consultants or obtain the cooperation of other programs in order to carry out the necessary work. Programs called upon include the State Health Agency; Medicare, Medicaid, UNM's School of Medicine, School of Business and Administrative Sciences and the Division of Continuing Education, the New Mexico Health Systems Agency, the Home Education Livelihood Program, the Department of Hospitals and Institutions, and others.

Plans for the future call for CHDC to provide financial support which will allow the Quay and Harding Mobile Health System to enhance its health education and public health information activities. This program has as its goal a reduction in the incidence of illnesses, injuries and diseases among the residents of these two counties.

A health education training program will be conducted for physicians, nurses, physician's assistants, health outreach workers and health administrators who are employees of health clinics in Embudo, Truchas, Espanola, Pecos, Mora, El Rito, Las Vegas and Anton Chico. This instruction, to be conducted between July 1977 and January 1978, can be instrumental in developing health education programs that can effectively lower the rate of accidents, illnesses and injuries.

Staff training in physical and occupational therapy and preventive health will be provided for 190 Social Services Home-makers in New Mexico. This project will start in July 1, 1977 and continue through June 30, 1978.

A publication available from CHDC lists the availability of health manpower, facilities and services in New Mexico and how services are being provided to improve or upgrade our present rural health system.

THE CENTER FOR ENVIRONMENTAL RESEARCH AND DEVELOPMENT
Peter G. Montague, Director

Peter Montague was appointed the new Director of C.E.R.D. in May 1977. He teaches Environmental Impact Analysis, Research Concepts and Methods, and Introduction to Environmental Problems in the School of Architecture and Planning, where he holds the title Associate Professor. Montague has published two books on toxic heavy metals as they affect the environment.

Since taking the C.E.R.D. job, Montague has concentrated on exploring environmental research needs in New Mexico, and on making contact with sources of funding. He has been appointed in recent months to (a) position as consultant to the Congress (Office of Technology Assessment); (b) membership

on a review panel for the national Science Foundation (Science for Society) and (c) membership on the New Mexico Solar Energy Advisory Group (advising New Mexico's representatives to the Western States Solar Planning Committee--an ERDA-funded planning group).

Montague has visited scientists in Boston and Washington, has met with several division directors at NSF, and has met with representatives of several private foundations. At these sessions funding possibilities for environmental research relating to New Mexico's needs have been explored.

Three proposals were submitted:

- 1) To the National Wildlife Federation, to support one student in a mass balance study of two different styles of agricultural operations in Roosevelt County, New Mexico.
- 2) To the U.S. Office of Education, to coordinate environmental studies on the UNM campus.
- 3) To the Ford Foundation, to place UNM faculty members with (a) the state Environmental Improvement Board; (b) the State Planning Office; and (c) with the Navajo Nation. Concurrently, two graduate students would be assigned research duties in support of the faculty. In addition, state agency personnel, plus the faculty and the students, would participate in a seminar. Finally, a "blue ribbon" committee of University faculty would be established to advise the three field faculty.

Two subdivisions of CERD have been created. The Division of Energy Conservative Design, headed by Associate Professor Wybe van der Meer, is engaged in three research projects for New Mexico state agencies (total funding: \$87,700). Professor van der Meer is engaged in pioneering research to determine appropriate insulation levels for homes in the Southwest and Mountain West. His work is quickly being recognized nationally.

The Natural Energy Applications Team, headed by Professor Robert Cohlmeier, is working under a \$3,000 grant from a local developer researching ways to increase the acceptability of solar-heated structures in New Mexico.

THE DIVISION OF GOVERNMENT RESEARCH

Robert U. Anderson, Director

The Division provided a wide range of services to people on campus and in city and state government, as well as to the citizens of New Mexico at large, during the fiscal year.

Our Urban Gaming Simulation "Metropolis" was run for classes in both the fall and spring semester. This is the fourth year the Division has offered this unique opportunity to learn about the functioning of city government.

A joint project with the Behavioral Research Division yielded interesting survey data about citizens' attitudes in Albuquerque concerning a possible teachers' strike. The Division's random integrated number generator (RING) was used to produce a sample of random telephone numbers. RING has been

utilized by a number of on and off campus users for telephone surveys. Because of the Division's efforts with RING, researchers at UNM have one of the newest methods of survey research readily available.

The city of Albuquerque was the recipient of two studies conducted by the Division. For the Water Resources Division, we analyzed household and business water consumption from the city water and utility billing file. The City office of Youth Development utilized our services to design, code and tabulate all juvenile arrest records in Albuquerque and Bernalillo County for 1976. These were used to produce a report entitled "A Comprehensive Analysis of Juvenile Crime."

The Division is presently conducting field research in Belen, New Mexico, about a phenomenon we denote as Urban Migrants to the Sunbelt. This field work, along with an extensive literature review, will be used in formulating a major grant proposal to continue our work here and at other research sites to be identified.

The Division in cooperation with the Bureau of Business and Economic Research has undertaken to fulfill responsibilities assigned by state government in preparation for the 1980 Census.

Over 75 special consultancies were provided by DGR staff to requestors both on and off campus.

While the Director is the only fulltime employee, he was assisted by the following work study students during the year:

Emily Silva	Armando Marquez
Pat Sagal	Mike Orman
Jim Waugh	Pam Tomasi

THE GERONTOLOGY CENTER
C. Jean Rogers, Director

The Gerontology Center continued to develop and expand the scope of services offered to the University, the State Commission on Aging, and public and voluntary agencies in the community. Funding was received from two sources: HEW Administration on Aging to develop a multiservice delivery system for eight Indian Pueblos, and the State Commission on Aging to provide training in basic gerontology for the State Advisory Council and for the Area Agencies on Aging.

In addition to these two major projects, several on-campus activities were conducted by the staff of the Gerontology Center. The Psychology of Adulthood and Aging was introduced in the Spring semester, 1977, with 80 students enrolled. Graduate and undergraduate courses on Women and Aging were developed and will be offered in the Fall semester, 1977. Technical assistance was provided to several faculty members with developing interests in gerontology, and students were advised regarding classes and career opportunities in gerontology. Two proposals, one for curriculum development

in gerontology and one for the continued functioning of the Gerontology Center, were submitted to the Administration on Aging and are in the process of being reviewed. One undergraduate completed an internship under the direction of the Gerontology Center, and the Director was invited to serve on doctoral dissertation committees of three students interested in pursuing research in gerontology.

The Center continues to meet the need for a liaison between the academic community and service-providers in the state. The staff, and the University faculty recruited by the staff, have provided technical assistance for community-based programs for the elderly, including local church and volunteer groups, the Mayor's Office for Senior Citizens, Retired Senior Volunteer Program, Foster Grandparent Program, National Retired Teachers' Association, and the Metropolitan Nutrition Program. The Center also serves as an information resource on basic and applied gerontology for students, faculty, and aging agencies and individuals in the community.

Future plans, dependent upon receipt of funding, include the generation of information on gerontology by conducting basic research, expanding the number of agencies served and the scope of services offered, developing a curriculum on gerontology for UNM students, and coordinating curriculum efforts with other institutions of higher education in the state.

THE TECHNOLOGY APPLICATION CENTER
Stanley A. Morain, Director

The Technology Application Center (TAC) is one of the older divisions of the Institute. Its basic funding is derived from the National Aeronautics and Space Administration (NASA). TAC presently is operated under three major divisions: The Industrial Program, the Energy Program which encompasses the Business Assistance Program, and the Remote Sensing/Natural Resources Division.

The Industrial Program is designed to use the technology developed by NASA through its research and to transfer it to the private sector. TAC's clients include not only private organizations but many public agencies and research oriented departments.

The Energy Program has greatly expanded due to the national interest in energy. TAC sponsors short courses in various phases of energy forms, and regional surveys in the energy area have been made. The Business Assistance Program, a part of the Energy Program, is funded mostly by The University of New Mexico. Almost 900 requests for information were answered, including 115 literature searches. These searches are available to New Mexico businessmen to aid them in expanding their business capabilities and to aid new ventures in New Mexico. The Remote Sensing/Natural Resources Division was very active this fiscal year. Contracts were received from the U.S. Bureau of Land Management, the U.S. Fish and Wildlife Service, the U.S. Park and Recreation Services, the Natural Resources Commission, and the U.S. Bureau of Mines.

TAC's future plans are not only to continue in technology transfer in the energy and industrial fields but to accelerate efforts to sell the literature in technology surveys available in the TAC computer banks and to increase the use of its Remote Sensing capabilities.

It is anticipated that the previous funding from NASA will be increased on October 1, 1977 to allow the center to continue its basic technology transfer to prospective industrial users.

SPECIAL SERVICES PROGRAM
Juan Candelaria, Director

Special Services provides an opportunity to achieve academic success at the University of New Mexico to students who formerly have been denied access to such institutions because of economic, cultural, educational, or physical disadvantages.

UNM Special Services was funded \$78,911.00 for the 1976-77 fiscal year. The year was broken into two fiscal periods:

July 1 to September 30, 1976	\$13,228.00
October 1, 1976 to May 31, 1977	\$65,683.00

The program achieved the following objectives during the fiscal year:

- (1) Conducted a needs analysis with each student applying for services to determine with adequate documentation the student's eligibility.
- (2) Provided counseling and tutoring for 191 students to improve their academic performance.
- (3) Provided for 54 disabled students a variety of support services which included reader services, transcription, manual interpreters, and recording class lectures.

The program also supported the UNM Design Center in producing a tactual map of the university campus for blind students.

No personnel changes were made during the year. On May 20, 1977, the Special Services program was transferred to the Administrative Vice President for Student Affairs, Alumni Relations, and Development.

CENTER FOR LEISURE AND RECREATION
L. E. Roberts, Acting Director

Professor E. A. Scholer, Director of CLR, was on sabbatical leave during the year so activity was minimal. Mr. Roberts oriented the contacts that were made toward retaining strong working relationships with state and federal agencies in the leisure and recreation fields.

Annual Report of the School of

Architecture and Planning

July 1, 1976 - June 30, 1977

Morton Hoppenfeld, Dean

A. 1. General Information

The most important single event of this year was the visit of the accrediting team from the National Architectural Accrediting Board. The visit occurred over a four day period from Sunday, February 13 to Wednesday, February 16. Joining the official team were local Architect and Chairman of the New Mexico Registration Board, Jesse Holmes and Professor Emeritus Dudley Wynn of UNM as a generalist observer.

The visit occasioned a good deal of useful introspection about our program and visits to the School by many local professionals, associated professors from other departments and alumnae. A definitive exhibit of student work was installed for the event.

The NAAB met in July and re-accredited the School's Master of Architecture degree - concentration in Architecture. The accreditation is extended for five years until July 1982, with an interim visit scheduled for the 78/79 academic year.

The overriding issue which the accrediting board addressed revolves around the fact that our School can currently offer but one professional (Graduate) degree: Master of Architecture. Yet, we consciously strive to maintain the breadth of educational opportunities reflected in the title of the School and the study concentrations in Planning and Environmental Design which we offer. We remain more convinced than ever that breadth and flexibility in the program is essential in these times and look forward to adding

2.

fields of study, such as Landscape Architecture, rather than retreating to simpler models of pure Architectural education.

The fact of having only the degree title requires that all of our students get the same degree and this fails to properly describe the actual fields of their study, presumed competence, and professional paths actually chosen. It clouds the issue of professional accreditation.

To ameliorate this situation we have initiated a process of identifying the areas of educational "concentration" on the academic transcripts. This has been accepted by the New Mexico Architectural Registration Board as an interim step.

It remains evident to the faculty of our School that separate degrees are in order and we will use this coming academic year to move toward that objective.

A. 2. Stabilization of enrollment and refinement in curriculum.

Enrollment in the undergraduate program during the academic year has been maintained at 93 full-time and 73 part-time students. We made a conscious effort this year to keep new enrollments down. This, together with some dropouts made the student load lighter this year. In the past our student faculty ratios were too high compared to campus standards and those of other schools of Architecture.

At the Graduate level, we have had 35 full-time students and 55 part-time students. The numbers in each concentration are as follows: Architecture - 75; Planning - 10; Environmental Design - 5.

We are going to seek to raise the number of students and the FTF/FTS ratio to about 25 and hold it at that, since University policy seems to favor higher enrollments, a balance will be sought.

3.

A total of 61 courses were offered in the School, 31 in the fall semester ('76) totaling to 1,875 credit hours; and 30 courses in the spring semester ('77) totaling 2,266 credit hours for a total of 4,141 credit hours.

We conducted a small but effective summer program ('76) with 50 students enrolled in 11 courses for a total of 194 credit hours.

The following numbers were graduated from the School:

	Summer '76	Fall '76	Spring '77
Undergraduates	<u>7</u>	<u>19</u>	<u>40</u>
Graduates	<u>3</u>	<u>7</u>	<u>11</u>

A. 3. School Newsletter.

Several issues were published in this past year, through the efforts of Assistant Dean Cherry and Graduate Student Marlys Thurber. The newsletter is now a good communications media between the School, alumnae, the local professionals and current students.

A. 4. The Interdisciplinary Studio.

The graduate design studio was organized to involve students from each of our concentrations and to use their special skills and interests in an interactive and complimentary way. The study was staffed by three faculty representing architectural design, planning and environmental analysis. The project area studied was the segment of Albuquerque bounded by Yale Blvd., Gibson, the freeway and Central Avenue. As a first effort it was viewed as a pedagogical experiment. The work produced by the students was excellent; it was viewed and evaluated by University and City officials. A final printed report was prepared. Since the notion of interdisciplinary team approaches to complex environmental problems truly represents the School's philosophy, this kind of studio will be repeated in the coming year with another urban sector as the focus of work.

A. 5. Relevance and Community Service.

The School's policy is to acquaint students with the public service responsibility of a professional, to offer service to the community and to combine these with learning processes. The traditional studio project tries to accomplish these objectives but usually has to simulate real life situations. This year we have been successful in finding reality situations to serve as studio case studies; for example:

a. ARCH 401 Fall 1976

A group of three (3) students conducted an Architectural Programming Study and completed a re-design of the Field Based Teacher Education office spaces in the College of Education. This effort included interviews of staff members, a program based in part on task identification, alternative plans that were reviewed with the staff, and a final recommended solution.

b. ARCH 302 Spring 1977

A group of three (3) students conducted Phase II of an Architectural Planning Study for the 1904 Church Building owned by the first United Methodist Church. The Phase I project had been completed by three (3) students during the Fall Semester 1975. It dealt primarily with the physical setting of the church in downtown area and the identification of goals of the church that could be achieved in the 1904 Church Building. Phase II was primarily concerned with the more explicit definition of goals and the development of a series of small scale incremental plan phases that would build on each other and in the end meet the established goals for use of the 1904 Church Building.

c. ARCH 302 Spring 1977

Two (2) students developed a program and preliminary plans for the remodeling of a portion of a campus building for a Faculty Club. The project is now being developed by a local architect and construction is scheduled to begin this fall.

d. ARCH 302 Spring 1977

A group of five (5) students completed an Architectural Programming requirements report for office spaces of 3 departments in the College of Education. These particular office areas had a long history of under-utilized and inefficiently organized spaces. The goal of the study was to facilitate the various needs of the different user groups.

A. 6. Fiesta - February 21-25.

This was our second and perhaps now "annual" week of special seminars, workshops, exhibits, lectures, films and pot luck dinners. While it took extraordinary effort on the part of coordinator Prof. Richard Nordhaus, upon later evaluation, it all seemed worthwhile. It is a useful break in the routine of classes and allows students and faculty to concentrate on interests and persons otherwise not available.

The themes of the Fiesta this year were, changing roles and methods in architecture and planning - response to political, economic and cultural context and response to finite resources.

The persons who participated were:

Heinz von Foerster, former Dir., Biol. Computer Lab., U. of Ill., Urbana
 Chester Hartman, Planner Lawyer, San Francisco
 Joseph Handwerker, Architectural Planner, World Bank, Washington, D.C.
 Henry Sanoff, Director, Community Design Center, U. of North Carolina
 Richard Stea, Psychologist, U. of California, Los Angeles
 Hildreth Barker, Architect, Albuquerque
 Daryl Dick, Architect, BIA, Albuquerque
 Antoine Predock, Architect, Albuquerque
 Jesse Pacheco, Architect, Albuquerque
 Jay Davis, Solar Engineer, Santa Fe
 Robert Peters, Architect, Albuquerque

Participating in events in addition to these visiting persons were the entire faculty, some alumnae and the student body.

A. 7. The Visiting Lecturer and Exhibit Program.

Under the creative chairmanship of Prof. Wolf Preiser and the committee, the following persons were brought to the School to give formal lectures:
 Often this was accompanied by informal or other planned meetings with students.

September

"Color in Architecture"
 Byron Mikkeldes and Tom Porter,
 Oxford Polytechnic, United Kingdom
 Philippe Ienclos, Paris, France

October

"Revitalization of a Downtown"
 Joan Sprague, Boston, Massachusetts

- November "The Oregon Experiment: Using Alexander's Pattern Language"
D. Winitzky, Assistant Planner at the University of Oregon; advocate of user participation in design and building processes
- December "The Ritual of Mayan Architecture"
D. Schlegel, Professor of Architecture at UNM and practicing architect
- January "Privacy and Commuality in Environmental Design"
A.H. Esser, M.D., Psychiatrist, Director of the Central Bergen Community Mental Health Center, Founder and President of the Assoc. for the Study of Man-Environment Relations, accomplished researcher and theoretician
- "Workshop on Design for the Elderly"
T. Byerts, Architect, L. Pastalan, Gerontologist
P. Windley, Arch. Researcher, Local architects and agency officials
- "Health and Light"
Dr. John N. Ott, President, Environmental Health and Light Institute, Sarasota, Florida
- February "A Profession in Transition: The AIA's Response"
Channell Graham, President, Albuquerque Chapter of the AIA
- "The Universal Traveller"
Don Koberg, Author of the book on rational and less rational approaches to design
- "Architecture in Finland"
A Bi-Centennial Exhibit and Films
- March "The Work of Alvar Aalto" "Architecture in Finland"
Films narrated by Wolfgang F.E. Preiser, School of Architecture, UNM
- "Post-Construction Evaluation: How People Use Architecture"
C. Cooper, formerly from Great Britain, Professor Landscape Architecture, U. of California at Berkeley.
Author of the book Easter Hill Village, is a Board Member of the Environmental Design Research Assoc.
- April "The Connected Houses of Maine"
Thomas Hubka, U. of Oregon, Eugene
- "Psychology of Space"
Abraham Moles, Chairman, Dept. of Social Psychology, U. Louis Pasteur, Strasbourg, France

April (con't)

"Self-Help Construction in Low-Cost Housing"
Gernot Minke, Director, Experimental Architecture
Research Lab., U. of Kassel, Germany

"Re-Learning Design in Architecture"
M. Pyatok and H. Weber, both are on the Architecture
faculty of Washington University, St. Louis. They
have made significant contributions in the fields of
environmental design, design methods and man-environment
research.

"Designing for the Visually Handicapped"
Joseph W. Wiedel, U. of Maryland, College Park

- A. 8. Part-time Lecturer, Enid Howarth took a leave of absence to study in England. Her place was partly filled by Architect Joan Sprague of Cambridge. Ms. Sprague conducted an exciting studio and seminar reflecting her interests in residential conservation and alternative forms of professional practice.
- A. 9. The Design and Planning Assistance Center.

As a community design center providing course credit and experience for students from the School of Architecture and Planning, the Design and Planning Assistance Center has provided architecture, landscape architecture, and planning services to New Mexicans who could not afford professional fees. Staffed also by VISTA volunteers, the DPAC is under the direction of Associate Professor Richard Nordhaus. During the course of the 1976 fiscal year, 34 students and 17 VISTA's worked on projects at the Design Center.

Since July 1976, the DPAC has worked on over 45 research projects, playgrounds, remodeling and design projects, programming projects, and land use planning projects in both rural and urban communities throughout New Mexico. Some of these projects include the Albuquerque Subsidized Housing Study, a tactical map for blind students at UNM, a design and program for a Mora community center, remodeling of a Taos detoxification center, a facilities development plan for DARE, parks in San Miguel and Torreon, playgrounds in

8.

Albuquerque and San Juan, and planning projects at Santo Domingo and on the Navajo Reservation in northwestern New Mexico.

During the third quarter, the DPAC took a serious look at reorganization, establishing an Advisory Board, and redefining its mission and goals. Plans are currently underway for sponsoring a Community Design Center Conference for design centers throughout the southwest.

A. 10. CENTER FOR ENVIRONMENTAL RESEARCH AND DEVELOPMENT

The DPAC entered into a contract with the City of Albuquerque for \$16,890 to conduct a study of the design of public housing in Albuquerque. Associate Professor Peter Montague, Ph.D., was elected by our faculty and appointed the new director of C.E.R.D. He teaches Environmental Impact Analysis, Research Concepts and Methods, the Interdisciplinary Studio, and Introduction to Environmental Problems. Montague has published two books on toxic heavy metals as they affect the environment.

Since taking the C.E.R.D. job, Montague has concentrated on exploring environmental research needs in New Mexico, and on making contact with sources of funding. He has been appointed in recent months to (a) a position as Consultant to the Congress (Office of Technology Assessment); (b) membership on a review panel for the National Science Foundation (Science for Society program); and (c) membership on the New Mexico Solar Energy Advisory Group (advising New Mexico's representatives to the Western States Solar Planning Committee - an ERDA-funded planning group).

Three proposals have been submitted:

1. To the National Wildlife Federation, to support one student in a mass balance study of two different styles of agricultural operations in Roosevelt County, New Mexico.

- 9.
2. To the U.S. Office of Education, to coordinate environmental studies on the UNM campus.
3. To the Ford Foundation, to place UNM faculty members with (a) the state Environmental Improvement Board; (b) the State Planning Office, and (c) with the Navajo Nation.

Concurrently, two graduate students would be assigned research duties in support of the faculty. In addition, state agency personnel, plus the faculty and the students, would participate in a seminar. Finally, a "blue ribbon" committee of University Faculty would be created to advise the three field faculty.

Two subdivisions of CERD have been created. The Division of Energy Conservative Building Design, headed by Associated Professor Wybe van der Meer, is engaged in three research projects for the New Mexico Energy Resources Board totalling about \$200,000 of grant money. The projects are: Project Conserve, Energy Conservative Housing, Implementation of ASHRAE Std. 90-75.

The Natural Energy Applications Team, headed by Professor Robert Cohlmeier is working under a \$3,000 grant from a local developer, researching ways to increase the acceptability of solar-heated structures in New Mexico.

A. 11. The Center for Environmental Education.

In April, 1977, the National Endowment for the Arts funded the planning for establishment of a Center for Environmental Design Education to be co-sponsored by the School of Architecture and Planning and the College of Education. Its purpose is to train resource persons for public schools in order to raise the awareness, understanding, and knowledge of the general public of the relationships between man, his culture, and the natural as well as the man-made environment. Work will begin this fall and the establishment of the Institute will be processed through appropriate University committees.

Co-directors of the Project are Anne P. Taylor, Ph.D., and Wolfgang F.E. Preiser, Ph.D., M. Arch. with expertise in art education, and environmental design (man-environment studies respectively). An Environmental Education concentration in the Master of Architecture degree program will be tested with a core group of five students beginning in the fall of 1977.

A. 12. Special Grants and Studies.

These grants were given to the School and the resultant studies and researches significantly enhanced our program:

1. UNM Research Allocation Committee \$925

"UNM Campus Beautification - Assessment of Outdoor Space Utilization and Campus Aesthetics"

2. School of Architecture Research Committee \$400

"Evaluation and Design Guidance in Medical Clinics in North Central New Mexico" A pilot study

3. National Endowment for the Arts and Humanities

"Establishment of an Institute for Environmental Education" \$20,000
A Planning Grant - with Anne P. Taylor

4. National Science Foundation LOCI \$17,000

"Establishment of a Course Sequence in Behavior and Design

5. National Science Foundation SOS \$11,750 April 1977

6. Directory for the Visually Handicapped (UNM Student Union) \$1,450 April 1977

B. 1. The sense of the future expressed in last year's annual report remains.

The built environment takes on greater importance and expressed concern at

State and National levels. Issues of health, energy conservation and general well-being remain but with painfully little evidence of commitment at local or national level to do much about them. Jobs for graduates remain scarce and that future unpredictable. In the face of this dilemma students continue consciously to seek an "architectural" education, because it should be a proper and valued field of work.

Toward our stated goal of preparing students with more options while preserving the disciplines of traditional architectural training, we are maintaining the opportunity for a broad education related to the design of the built environment.

We will continue to pursue the concept of a separate undergraduate degree in Environment Design.

Consistent with these ideas we will work toward separate degrees at the graduate level. We have identified course and other performance requirements for the "concentrations" and these will be applied for the first time this year.

B. 2. Joint Degree.

A task force to be headed by Professor Richard Anderson will be working this year to establish agreements with selected other programs and with the Graduate School, to enable students to gain two degrees in the same general time frame. Preliminary investigation has shown this to be both possible and desirable. The programs which we would first relate to are: Public Administration, Business Administration, Economics, Geography, Engineering and Education.

B. 3. Certification of the Planning Program.

With the addition of a new faculty member who is a qualified planner, the School now has a sufficient base to attempt certification for its program in

12.

Planning. We will begin now to set a schedule with the Association of Collegiate Schools of Planning for such eventual certification.

B. 4. Future Projects.

Initial work has been done for a future project to develop a Historic Building Inventory for the State of New Mexico. This research project will be done for the State Planning Office. It is scheduled to begin in January 1978 and continue for 3 to 5 years.

C. APPOINTMENTS TO STAFF BEGINNING FALL 1977.

- C. 1. William J. Siembieda will be the only full-time appointee effective Fall 1977. He comes to us from San Diego and is appointed as an Associate Professor of Planning. He will have 1/2 release time in this year to work as the Research Director⁶ for the Urban Observatory.
- C. 2. Anne P. Taylor, Assoc. Prof. will join the faculty 2/3 time to teach and direct the Center for Environmental Design Education.
- C. 3. Howard Kaplan, Architect, will be a part-time lecturer in the Arch 201 and 202 studios for both Fall and Spring semesters.
- C. 4. Joseph Della Longa, will be a part-time lecturer in Building Technology in the Spring semester.
- C. 5. Robert Johns, Landscape Architect, will be a part-time critic in the third year Design Studio for the Fall semester.
- C. 6. Dorothy Mella, will be a part-time lecturer in Color and Environmental Design for the Fall semester.
- C. 7. Martina Mesmer, will be a part-time lecturer in Site Planning for the Fall semester.

D. SEPARATIONS FROM STAFF.

- D. 1. Associate Professor Michel Pillet has resigned effective end of Spring '77 semester. He will head a program in Western Louisiana.
- D. 2. Associate Professor Wybe van der Meer has been granted a leave of absence for the academic year to pursue the research work which he has begun so well in this last year.
- D. 3. Richard Dorman, part-time critic in the Design Studios left at the end of Fall semester 1976.
- D. 4. Van Gilbert, part-time critic in the Design Studio left at the end of the Fall semester 1976.
- D. 5. Sabbaticals.

Associate Professor Richard Nordhaus is scheduled for a sabbatical year beginning in the Spring semester, 1978.

COMPOSITE OF INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. Advanced study (include additional earned degrees - and where earned - or progress toward them; professional certification, thesis titles, etc., not previously reported)

Cherry, Edith, Assist. Prof. - As Anthro. Grad Student took "Anthropology of Complex Societies" and "Cultural Ecology".

Nordhaus, Richard, Assoc. Prof. - Master of Arch., University of Pennsylvania, retroactive 1964.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.

Cherry, Edith, Assist. Prof. - Two week trip in March including photographing buildings in Houston, Dallas and Fort Worth, Texas. ACSA delegate to Western Region Conference in San Luis Obispo, Calif. (Nov.) and VISTA supervisors conference in El Paso.

Montague, Peter, - Took brief summer trip to east coast to visit foundation officials.

Preiser, Wolfgang F.E., - Visiting Lecturer, Dept. of Urban & Regional Planning, and Institute of Sociology, Univ. of Karlsruhe, Germany (June 1976). Visiting Lecturer, College of Environmental Design, Univ. of Colorado, Boulder. Travel in Europe.

Van der Meer, Wybe, Assoc. Prof. - Travel: Kansas City, Mo.; Dallas, Texas; Atlanta, Georgia; Washington, D.C.; New York City; Providence, R.I.; Boston, Mass.

15.

3. New scholastic honors, fellowships, etc.

Preiser, Wolfgang, F.E., - Undergraduate Instruction Summer Award, Univ. of Illinois, 1976.

Van der Meer, Wybe, - Certificate awarded by Texas Section, American Society of Civil Engineers in recognition of the paper entitled "Towards Greater Harmony in Construction..." as a noteworthy contribution to Civil Engineering in Construction Engineering.

4. Publications (give title, publisher or name of journal, number of pages, date, etc.) during the period.

Hoppenfeld, Morton, Dean - Design: An Integral Part of Strategy," Chapt. 8 (pp. 188-207) in New Perspectives on Community Development, Apgar Ed., McGraw Hill, 1976.

Well Being in Urban Extensions, In Vol. I., The Environment of Human Settlements. Procedures of the Belgium Conference, Pergamon Press, N.Y., 1976.

Preiser, Wolfgang F.E. - "Civil Engineering Esthetics: State-of-the-Art" (Clayford T. Grimm, co-author) Journal of the Structural Division, August, 1976.

"Project Use" in: Answers for the Building Community: Optimizing the Choices, Industrial Forum Occasional Paper #3, Univ. of Montreal, Sept. 1976.

Psyche and Design, Proceedings of the 6th National Congress on Interior Environments, 1976.

Mobile Home Seminar, SA Parshall, co-editor, Proceedings of the 1974 Mobile Home Seminar, Univ. of Illinois, Arch. Dept. 1976.

Montague, Peter, - No World Without End, New York, 1976.

Van der Meer, Wybe, "Building Codes - Friend or Foe," New Mexico Building Magazine, May 1976, Co-Author, Joseph Della Longa.

"Underground Housing," New Mexico Building Magazine, Sept., 1976.

"Down to Earth Housing," Solar Age, Sept., 1976.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration).

Montague, Peter, - Writing a book on mathematical models of hazard-regulation; two papers on that subject written during the year, one of them having been published in July under the title, A Water Plan for New Mexico (And Other Regions), Albuquerque, New Mexico: Southwest Research and Information Center 1976.

Nordhaus, Richard, Albuquerque City Planning Department, Research Contract, \$16,890 "The Analysis of the Design of Public Housing in Albuquerque" 10 months, beginning March 1977.

Preiser, Wolfgang F.E., NSF-SOS Grant \$10,000: "Environment and Social Behavior of the Institutionalized Elderly: Evaluation of Friendship Hill"; 7 months beginning spring '76.

UNM-RAC Grant \$960: UNM Campus Beautification-Use Evaluation and Aesthetic Appraisal of Building and Outdoor Spaces" 1976, 8 months.

Schlegel, Don, Professor - Consulting - Architecture (UNM North Campus).

Van der Meer, Wybe, "Water Poned Roofs for Energy Efficiency" P.I., Project Conserve, State ERB and FEA, May-Dec. \$18,600 Natural ventilation walls, in progress - unsponsored.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

Cherry, Edith, - see travel (2): ACSA Conference & VISTA Supervisors meeting.

Hoppenfeld, Morton, - Participant, Anglo-American Ditch Conference on Future of Design and Urban Environments. Ditchy Park, England.
Participant, workshop on Future of Planning, Rutgers U. Attended Regional meeting, Assoc. of Col. Schools of Arch., San Luis Obispo, Calif., Nov., 1976.

Preiser, Wolfgang F.E., - Elected Member of the Board, Assoc. for the Study of Man-Environment Relations (ASMER); Editorial Board Member, Man-Environment Systems Journal.

Editorial Board Member, Journal of Architectural Research

Conference Workshops organized:

Alternative Processes in Building Procurement, Univ. of Illinois.

Programming of Use-Oriented Facilities, EDRA 7, Environmental Design Research Assoc. Conference, Vancouver, B.C.

Schlegel, Don -

Ethics Committee - National AIA

Member, National Architectural Accrediting Board

Chairman, Accreditation Team, Pratt Institute

Chairman, AIA-ACSA, Mid-Career Education for Architects

Van der Meer, Wybe -

Member, Amer. Society of Civil Engineers and Director of Albuquerque Branch to October 1976.

Member, American Soc. of Heating, Refrigeration and Air Conditioning Engineers.

Van der Meer, Wybe (con't)

ASCE Management Conference Feb., Missouri

ASHRAE Energy Awareness Conference and Workshop (March in Albuquerque).

International Symposium on Housing Problems (Atlanta, Ga.)

FEA, Energy Standards Workshop, Dallas, Texas, August

Joint National Bureau of Standards and National Conference on Research and Innovation in Building Standards, R.I., Sept.

Papers read:

"Underground and Earth Covered Housing Deserve Consideration" at International Association of Housing Science, ISHP Conference, Atlanta, Ga.

"Avoid Tunnel Vision in Implementation of Energy Conservative Building Standards," Joint NBS/NCSCS Conference, R.I., Sept.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearance, consultancies, industrial designs, patents, etc.)

Cherry, Edith,

Continued as consultant to Harvey Hoshoor, Arch. on UNM Med. School Library.

Architectural work on residences for Chester Stewart Family and

Mrs. Charles Justice. Construction work on solar heated personal residence.

Architects and Engineer Selection Committee for the City of Albuquerque.

Board of Directors of Environmental Programming Association, Inc.

Hoppenfeld, Morton,

Lectures on Urban Design, America House Stockholm, Sweden

Consultant to Parliament Committee on Urban Central Areas, London

Travel in Italy & France

Consultant to Albuquerque Beautification Committee

Nordhaus, Richard,

Interview "UNM Voices"

Attended conference on children in the Urban Environment, Univ. of Wisconsin.
Several presentations on play environments to PTA's and elementary education classes.

Montague, Peter,

Director of the Center for Environmental Research and Development in the
Institute for Applied Research Services at UNM.

Preiser, Wolfgang F.E.,

Co-Founder and Principal of Consulting firm: Environmental Programming
Assoc., Inc., Albuquerque, New Mexico.

Papers presented:

Modes of Appropriation of Space in Institutional Settings: A Case Study
in Methodology" 3rd Int'l Arch. Psych. Conference, Universite 'Louis Pasteur,
Strasbourg, France, June 1976.

"Impact of Organizational Form on Identification of User Requirements in
Building Delivery" (Roger L. Brauer, co-author), Proceedings of the
CIB W-65 Symposium on Organization and Management of Construction, U.S.
National Academy of Sciences, Washington, D.C., May 1976.

Van der Meer, Wybe,

Radio and TV appearances regarding underground housing concept.

TV: KNME Albuquerque, KGGM, Albuquerque; RADIO: National Public
Broadcasting; Voice of America-Radio Free Europe; KNX, Los Angeles;
WOL, Ames, Iowa; WHAM, Rochester, N.Y.

Newspaper articles: Albuquerque Journal & Tribune; UPI national and
international release including papers throughout America (L.A. Times,

Van der meer, Wybe,

N.Y. Times, Wash. Post and variety of smaller papers.

Speech given: Albuq. Breakfast Civitan Club.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Cherry, Edith,

UNM Curriculum Committee, UNM Committee on Gerontology, Program Feasibility
Summer Orientation of Freshmen
Student Advisement

Cohlmeier, Robert,

School of Arch. and Planning: Administrative Committee Exhibit Committee,
and UNM Campus Planning Committee

Nordhaus, Richard,

Campus Planning Committee, School of Architecture & Planning - Research
Service Committee, Research Allocations, Committee, Speakers Committee

Preiser, Wolfgang F.E.,

Visiting Lecturer Committee
Faculty Advisor to NSF-SOS student team, Fall '76
Faculty Club, Vice President

Schlegel, Don,

UNM Senate, Continuing Education Committee

Van der meer, Wybe,

Responsible for overview of technology offerings, School of Arch.
Head of Division for Energy Conservative Design CERD

21.

232

9. Public Service (church activities, community chest, boy scouts, etc.)

Montague, Peter,

Continued to Co-Chair the Albuquerque Chapter of New Mexico Citizens for
Clean Air and Water

Continued to serve on an essentially inactive subcommittee advising the
Governor's Council of Economic Advisors

Van der meer, Wybe,

Member, AGC Joint Industry Liason Committee

10. Personal information (any change in marital status, number of children,
citizenship, military status, etc.)

NONE

THE REPORT OF THE COLLEGE OF ARTS AND SCIENCES

July 1, 1976 - June 30, 1977

Nathaniel Wollman, Dean

College of Arts and Sciences

Annual Report, July 1, 1976 - June 30, 1977

TABLE OF CONTENTS

I. Administration	1
II. Academic Program	6
III. Academic Standards	8
IV. Staffing and Budget	10
V. Statistical Data	13
VI. Departmental Reports	14

APPENDICES

A. Department and Program Chairmen, Personnel Changes: Promotions, Retirements, Separations, New Appointments, Tenure Decision Dates, and Third Year Term Decision Dates	A1
B. Statistical Tables	B1
C. Grants and Contracts	C1
D. Travel, Ralph D. Norman	D1
E. Student Affairs, F. Chris Garcia	E1
F. Advisement Center, Tom Venardos	F1

I. ADMINISTRATION

Changes in departmental chairmen made during 1976-77, effective July 1, 1977 were:

Philip Bock to replace Peter Workman in Anthropology.

Richard Griego to replace Arthur Steger in Mathematics and Statistics.

Under the direction of Tom Venardos, the A&S Satellite Advisory Center completed its first year. Student visits to the Advisement Center averaged about 500 per month. In addition to advising students and preparing advisement materials the Center conducted several studies dealing with student study habits, accumulated data on student characteristics, ascertained disposition of a sample of students who took the A&S communications skills test, conducted a Career Exploration Fair for A&S students, and is currently engaged in a mail poll of A&S alumni to secure additional information about academic matters. (For further detail see Appendix VI.)

A&S committees active in 1976-77 were: (See Table I for membership.)

- Tenure
- Promotion
 - Humanities
 - Natural Sciences and Mathematics
 - Social Sciences
- Academic Programs
- Human Subjects
- Student Advisory Council
- Interdisciplinary Major
- Freshman Humanities Course
- Freshman Social Science Course
- American Studies
- Asian Studies
- Comparative Literature
- Linguistics
- Russian Studies

In addition to standing committees on tenure, promotion, use of human subjects, interdepartmental academic programs and the Student Advisory

Council, there were four ad hoc committees: Academic Programs—to examine the academic programs of the College and make recommendations for their improvement; Interdisciplinary Majors—to consider and perhaps recommend the offering of an interdisciplinary major and mode of administration; Freshman Multidisciplinary Course in the Social Sciences—to plan such a course and, if possible, give it; Freshman Multidisciplinary course in Humanities—to plan and, if possible, give such a course.

The work of these committees demands a dedication of time and a sense of responsibility for the College's welfare, and draws upon the imaginative as well as practical insights of the participants. We are all indebted to the members of A&S committees.

TABLE I.

STANDING AND SPECIAL COMMITTEES,
COLLEGE OF ARTS AND SCIENCES, 1976-77

A&S Tenure Advisory Committee

Edwin Lieuwen, Chairman, History
Paul R. Kerkof, Biology
Richard F. Tomasson, Sociology
Roger Entringer, Mathematics & Statistics
Raymond R. MacCurdy, Modern & Classical Languages
Harry P. Stumpf, Political Science
Charlene McDermott, Philosophy

A&S Promotion Advisory Committee

Humanities:

Raymond R. MacCurdy, Chairman, Modern & Classical Languages
Donald C. Cutter, History
Melbourne G. Evans, Philosophy
Hamlin Hill, English
Warren S. Smith, Modern & Classical Languages

Natural Sciences and Mathematics

Roger C. Entringer, Chairman, Mathematics & Statistics
Dolores S. Butt, Communicative Disorders
William F. Coleman, Chemistry
Wolfgang E. Elston, Geology
Dennis M. Feeney, Psychology
Christopher P. Leavitt, Physics
Marvin L. Riedesel, Biology

Social Sciences

Harry P. Stumpf, Chairman, Political Science
Iven Bennett, Geography
Lewis R. Binford, Anthropology
Pham Chung, Economics
George A. Huaco, Sociology
Estelle Zannes, Speech Communication

A&S Committee on Academic Programs

Frank Ikle, Chairman, History
Karen Remmer, Political Science
Hamlin Hill, English
Klaus Keil, Geology

A&S Human Subjects Committee

Arthur St. George, Chairman, Sociology
Philip K. Bock, Anthropology
Carol E. Conrad, Psychology
Isaac H. Celnik, Rabbi, Congregation B'Nai Israel
Harold C. Delaney, Psychology

A&S Student Advisory Council

Dorothy Davidson, Political Science
Margaret Fillmore, Biology
Jeffrey Kennedy, History
Edward Phinney, Jr., Chemistry
Michael Rudd, Philosophy
Sandra Tyler, Sociology

A&S Ad Hoc Committee for Interdisciplinary Majors

F. Chris Garcia, Chairman, Associate Dean
Pedro David, Sociology
Frederick Taylor, Biology
Charles E. McClelland, History
Donald W. Dubois, Mathematics & Statistics

A&S Ad Hoc Committee for Humanities

Sam B. Girgus, Chairman, American Studies
Tamara Holzapfel, Modern & Classical Languages
Patrick Gallacher, English
Russell Goodman, Philosophy
Peter Kolchin, History
James Barbour, English

A&S Ad Hoc Committee for Social Sciences

Melvin L. DeFleur, Chairman, Sociology
Henry Harpending, Anthropology
Douglas Gordon, Geography
Lane Hurley, Political Science
Albert M. Church, Economics

A&S American Studies Committee

Sam B. Girgus, Chairman, American Studies
George Arms, English
Gail Baker, American Studies
Ernest Baughman, English
Robert D. Campbell, Geography
Sanford Cohen, Economics
Douglas R. George, Art
Hamlin Hill, English
Joel Jones, American Studies
Harold Lavender, American Studies
Harold Rhodes, Political Science
Ferenc Szasz, History
Ann Taylor, Graduate School
Marta Weigle, Anthropology
Daniel Slate, School of Business & Administrative Sciences
Robert E. Fleming, English
Ira S. Jaffe, Theatre Arts
Margaret J. Slaughter, History

A&S Asian Studies Committee

Douglas Gordon, Chairman, Geography
 Frank Ikle, History
 Jay Sorenson, Political Science
 Jonathan Porter, History
 Gerald Slavin, Modern & Classical Languages
 Charlene McDermott, Philosophy
 Russell Goodman, Philosophy
 Noel Pugach, History
 Paul Jonas, Economics
 James Sebring, Anthropology
 Fred Sturm, Philosophy

A&S Comparative Literature Committee

Shirley Guthrie, Chairman, English
 Jack Kolbert, Modern and Classical Languages
 Alfred Rodriguez, Modern & Classical Languages
 Patricia Murphy, Modern & Classical Languages
 George F. Peters, Modern & Classical Languages
 Byron Lindsey, Modern & Classical Languages
 Peter Pabisch, Modern & Classical Languages
 Warren S. Smith, Modern & Classical Languages

A&S Linguistics Committee

Garland Bills, Chairman, Linguistics
 Larry P. Gorbet, Anthropology
 Vera John-Steiner, Educational Foundations
 Bernard Spolsky, Linguistics
 Robert White, Secondary Education
 Dean G. Brodkey, Elementary Education
 Fred Chreist, Sr., Communicative Disorders
 Carol E. Conrad, Psychology
 Alan Hudson, Linguistics
 John Oller, Linguistics
 Roy Pickett, English
 Robert Young, Linguistics
 Rodney Young, Elementary Education
 Miles Zintz, Elementary Education

A&S Russian Studies Committee

Richard Robbins, Chairman, History
 Pham Chung, Economics
 Richard Murphy, Geography
 Jay Sorenson, Political Science
 Byron Lindsey, Modern & Classical Languages

II. ACADEMIC PROGRAM

The A&S Faculty approved new group requirements for graduation, effective with entry of students into the University, Summer 1977. A student must complete seven of the following eight groups:

Humanities: 9 hours in literature, history or philosophy.

Fine Arts: 6 hours in art or music from a selected list of courses.

Biological/Behavioral Sciences: 6 or 7 hours in anthropology, biology or psychology.*

Physical Sciences: 6 or 7 hours in chemistry, geology, or physics/astronomy.*

Social Sciences: 9 hours in economics, geography, political science, or sociology.

Foreign Language: as many hours as needed to complete the fourth semester of a language.

Mathematics: 6 hours

Communications: 9 hours in English writing, speech communication, linguistics or journalism.

The asterisk refers to the requirement that a student must have at least one semester of laboratory science. In groups calling for nine hours no more than six can be earned in one department toward satisfying group requirements except in foreign languages.

The faculty also approved an increase from 3 to 12 in the allowable number of hours in courses on high school teaching methods, where such courses were required for certification. Administration of the degree in Medical Technology was transferred from A&S to the Medical School.

Discussed but not acted upon was the allowable credit, if any, in courses of a remedial nature as proposed by Associate Provost/Dean of Faculty Adams. Also discussed without action was the proposal that, with

appropriate safeguards, a student be permitted to graduate with a specially designed major. The ad hoc Committee on Interdisciplinary Majors has the matter under consideration.

The faculty expressed support of several existing inter-departmental programs that had been flagged by the BEF on grounds of low enrollment--e.g. Comparative Literature, Russian Studies, Economics-Philosophy. Faculty support was based upon the findings that these programs cost very little, since the courses would be offered anyway, and that they provided additional opportunities for students.

Professor Kidd completed preparation of a new multi-disciplinary course in Natural Science and will offer it for the first time in 1977-78. Because of limited funds (see staffing and Budget, below), the laboratory was eliminated as well as most of the field work. The course was developed by Professor Kidd in consultation with members of Anthropology, Chemistry, Geology, Physics and Astronomy and Psychology departments and will be offered with the collaboration of members of these departments.

During the year two committees were at work on design of new multi-disciplinary freshman courses. The Committee on the course in Social Science completed its plan and is ready to offer the course when arrangements for staffing can be made. The Committee on the Humanities Course made little progress, partly because a couple of members were on sabbatical leave.

With inception of the Presidential Scholars program for Semester I, 1976-77, departments scheduled about twenty special sections in various freshmen courses for Presidential Scholars or other well prepared students. Enrollments were light and the program was reduced in the second semester. About half a dozen special freshman sections will be offered Semester I, 1977-78. We shall continue to experiment in one way or another with new or special courses.

During 1975-76 a special committee examined departmental and general honors programs available to A&S students. The evaluation of these programs as set forth in reports prepared by the A&S Committee for Study of Programs for Abler Students (see reports under covering memoranda of April 8, 1976 and April 21, 1976) is, to the best of my knowledge, still applicable. I believe that the program in general honors should be substantially revised if it is to be retained. A number of departmental programs should be strengthened. The desirability of consolidating departmental with general honors into a new honors degree should also be explored.

III. ACADEMIC STANDARDS

"You will need to spend on an average approximately two hours of study for each hour in class." This instruction is given to entering UNM freshmen in a booklet entitled Hints on How to Study. Freshmen soon find, however, that they earn A's and B's with far less than an average of two hours of study for each hour in class. Beginning with a few informal surveys held in several classes in January 1973, we have acquired information from hundreds of students regarding the time they spend on study outside of class. Most recently, several classes were surveyed by Mr. Venardos and his staff. Student responses have been sufficiently uniform from year to year and from sample to sample to support the finding that the average student in Arts and Sciences at UNM spends about half the amount of time that is customary in top-ranking academic institutions.

Although there is some variation in the responses of students according to major, the uniformities overwhelm the variations. With regularity the surveys indicate that the average student, lower division

and upper division, spends about one hour in outside preparation for each hour of class. From this fact it is reasonable to infer that after four years in college the educational gap has widened rather than narrowed between the average UNM senior in Arts and Sciences and the average senior of an academically demanding institution. This conclusion is partly verified by the fact that UNM's Law School a year or two ago subtracted 1.1 from the GPA of UNM graduates to provide comparability of GPA's with students of other institutions. Conversations with faculty members and the statements of students who have transferred from other universities provide additional verification.*

During the past year reductions in the budget for 1977-78 made necessary a reduction in teaching staff. Five full-time positions were cut, all coming from high-grading departments. Demands imposed upon students will continue to be a major consideration in allocating faculty and GA's and TA's among departments.

Beginning with Fall 1972 students have been required to take and pass the Communications Skills Test—a test of written English—as a condition of admission to Arts and Sciences. During 1976-77 the test was given to about 2,000 students some of whom entered or were from other colleges in the University. About 40% passed; about 60% were instructed to enroll in English 101 or 102; less than one percent were instructed to enroll in tutorial English. A student who has not passed the CST may be provisionally admitted to A&S so long as he or she enrolls in an English

*The "above average" performance of A&S seniors who have been given the battery of undergraduate tests in the last two years does not contradict this inference since (1) most students taking the test in the last two years have been self-selected, (2) norms are established on the basis of a large number of undergraduate schools, and (3) we have no information about the performance of seniors in major state universities or comparable private institutions with which UNM should be compared.

writing class and conscientiously completes the assignments. Some students have not passed the test until the fifth attempt. During 1976-77, 559 students passed on the first attempt and 496 failed on the first attempt.

The director of freshman English, Professor Bloom, and members of the freshman English staff have studied the quality of writing after students have taken English 100, 101, and 102. Changes in content and assignments of freshman English courses are being made on the basis of findings.

IV. STAFFING AND BUDGET

For 1976-77 the increase in the budget of the College allowed us to maintain approximately the same number of classes as had been achieved in 1975-76 with the use of temporary budget supplements. For 1977-78, the A&S budget was reduced by about \$240,000 or about 16 FTE, in order to accommodate the mandated increase in salaries. Five full-time positions were cut, (see above), the remainder coming from part-time positions, including graduate assistants and student help.

Student/faculty ratios in A&S remain relatively high in most departments: relative to other parts of the University and relative to other Colleges of Arts and Sciences. At a recent meeting of Rocky Mountain deans of colleges of arts and sciences in state universities, comparable data were collected by department from six neighboring institutions and UNM for 1976-77 although, because of variations in departmental or college alignments, usable data never exceeded that from five other universities. In Biology, English, History, Sociology, and Speech Communication, the student-faculty ratio at the University of New Mexico was higher than in five other universities. In Chemistry,

Mathematics and Statistics, Modern and Classical Languages, Philosophy, Physics and Astronomy, Political Science and Psychology, UNM was higher than in three or four of the reporting institutions. Only in Anthropology did UNM show a relatively low S/F ratio, being exceeded by four universities. Data on Economics, Geography, Geology, Journalism and Linguistics were incomplete.

For the seven Colleges of Arts and Sciences as a whole the S/F ratios of the six other institutions—Arizona State, Colorado State, Idaho, New Mexico State, Utah, Utah State—and the University of New Mexico were as follows:

ASU	22.13
CSU	24.01
Idaho	22.49
NMSU	21.76
Utah	22.04
Utah State	22.27
UNM	26.23

S/F ratios were also computed with inclusion of GA's and TA's. UNM again was the highest. Comparable data were not available for the Universities of Arizona, Colorado, Montana, or Wyoming. (Data collected by the Mississippi Valley Deans, however, showed that UNM's S/F ratio exceeded that of Colorado, Montana, and Wyoming. Information for Arizona was not available.)

We had hoped that with a decline in the growth rate of the student body we would be able to add or improve courses in general education as well as those designed for majors, minors, or as service courses for students of other colleges. The budget cut for 1977-78 compelled us to

postpone offering the new Social Science course after a year of planning (see above). Total offerings in 1977-78 will be reduced by 100-150 classes compared with 1976-77.

A detailed listing of research and training grants and contracts is enclosed with this report as Appendix III. This is the first time the detailed listing has been compiled and there may be omissions or errors. (We welcome corrections.) The listing is intended to include all grants and contracts in effect for all or part of the year July 1, 1976-June 30, 1977. Total face value is about \$6 million. A&S received an allocation of \$185,000 out of earned overhead. Continuing obligations to be met out of returned overhead were:

\$68,000	Institute of Meteoritics
59,300	Office of Contract Archaeology
25,500	Linsley (Physics), Southwest Project (Economics) and payroll fringe benefits.

for a total of about \$152,000. The free balance for allocation to departments in support of research amounted to \$33,000. This money was used for the acquisition of several instruments or other pieces of equipment needed for on-going research, for partial support of two scholarly conferences (Mathematics and Spanish Literature), and for moving, mooring and insuring a research vessel belonging to the Biology department. Included among the items of equipment was an X-ray generator and shield, an interactive graphics terminal, an outboard motor and tank, an electromyographic biofeedback unit, interface equipment for a computer printer, a laser particle counter, and a camera used for X-ray power studies.

A number of other appropriate requests were denied because the money ran out. One of the more scandalous budget problems of the College

of Arts and Sciences is the absurdly small sum of money available for common research equipment and the still smaller amount available for technical staff and replacement parts. There is no money whatsoever for other kinds of research support such as assistance in preparation of grant proposals, research travel, costs of research assistants, and the like.

For 1976-77 the college travel budget was raised to \$23,000 from the previous year's \$18,600. Reimbursement was limited to half-fare for attendance at scholarly meetings. Most of those who traveled gave papers. Altogether 191 trips were partially supported. For 1977-78 the travel budget is increased by 50% and reimbursement per trip will be raised to 2/3 of coach plane fare. The College's travel budget should be increased to about \$90,000-\$100,000, which would then provide full plane fare to one major scholarly meeting for each member of the faculty. The additional financial burden imposed on faculty in 1976-77 for trips partially supported by the College was at least \$40,000, taking into account unreimbursed travel fares and per diem costs. A number of faculty members made second, third and fourth trips at less than half-fare reimbursement or zero reimbursement. In some cases travel was supported or supplemented by special departmental funds. In a number of instances faculty members refused invitations to present papers because of the cost.

V. STATISTICAL DATA

Appendix B has the usual statistics on enrollments, degrees, honors, and suspensions.

VI. DEPARTMENTAL REPORTS

Reports from departments and programs are a part of the Annual Report of the College. The reader is referred to departmental statements for information regarding academic plans, personnel decisions, space and equipment matters, and recent developments.

DEPARTMENTS AND CHAIRMEN

AMERICAN STUDIES
Sam B. Girgus

ANTHROPOLOGY
Peter L. Workman

BIOLOGY
Clifford S. Crawford

CHEMISTRY
Guido H. Daub

COMMUNICATIVE DISORDERS
Lloyd E. Lamb

ECONOMICS
Gerald J. Boyle

ENGLISH
Joseph B. Zavadil

GEOGRAPHY
Richard E. Murphy

GEOLOGY
Douglas G. Brookins

HISTORY
Gerald D. Nash
Donald Sullivan (Acting)

JOURNALISM
James P. Crow

LINGUISTICS
Garland D. Bills

MATHEMATICS AND STATISTICS
Art Steger

MODERN AND CLASSICAL LANGUAGES
Sabine R. Ulibarri

PHILOSOPHY
Howard N. Tuttle

PHYSICS AND ASTRONOMY
Victor H. Regener

POLITICAL SCIENCE
Robert J. Sickels

PSYCHOLOGY
Henry C. Ellis

SOCIOLOGY
Pedro R. David

SPEECH COMMUNICATION
R. Wayne Pace

PROGRAMS AND DIRECTORS

ASIAN STUDIES
Douglas Gordon

COMPARATIVE LITERATURE
Warren S. Smith, Jr.

INTER-AMERICAN AFFAIRS
Martin C. Needler

INSTITUTE OF METEORITICS
Klaus Keil

FRESHMAN ENGLISH
Lynn Z. Bloom (LWOP Sem. II)
Michael J. Hogan (Acting Sem. II)

LATIN AMERICAN CENTER
Marshall R. Nason

IBERO-AMERICAN STUDIES
Marshall R. Nason

MAXWELL MUSEUM
J.J. Brody

PALEOCIOLOGY
Roger Y. Anderson

RUSSIAN STUDIES
Byron Lindsey

FACULTY PROMOTIONS, RETIREMENTS, SEPARATIONS, AND APPOINTMENTS

Promotions

To Full Professor:

Seymour S. Alpert	Physics
Alfred S. Carasso	Mathematics and Statistics
David S. King	Physics
Albert M. Kudo	Geology
J. David Ligon	Biology
Charlene McDermott	Philosophy
David C. McPherson	English
Clifford R. Qualls	Mathematics and Statistics
Derek B. Swinson	Physics

To Associate Professor:

Larry L. Barton	Biology
Jonathan F. Callender	Geology
Jean M. Civikly	Speech Communication
Linda S. Cordell	Anthropology
Patricia Draper	Anthropology
James A. Ellison	Mathematics and Statistics
Frieda Gehlen	Sociology
Henry C. Harpending	Anthropology
Cary J. Morrow	Chemistry
Timothy G. Plax	Speech Communication
Noel H. Pugach	History
J. Stanley Rhine	Anthropology
Howard N. Rabinowitz	History
Marcia Tillotson	English
Mary Martha Weigle	Anthropology/English

Retirements

George W. Arms	English
Ruben Cobos	Modern and Classical Languages
Melbourne Evans	Philosophy
Dorothy Logan	English

Separations

George W. Arms	English
Richard D. Bourgen	Mathematics and Statistics
Ruben Cobos	Modern and Classical Languages
Sandra Lee Corless	Speech Communications
Jerome R. Corsi	Political Science
Ronald R. Dehyle	Biology
Franklin Dickey	English
Frederick W. Dowsett, Jr.	Geology
John Ehrenberg	Political Science
Melbourne Evans	Philosophy

Separations (contd.)

Michael Gehlen	Political Science
Robert Guthrie	Economics
Shirley Guthrie	English
Mark Harlan	Anthropology
Ellen S. Kaufman	Linguistics
Richard M. Krause	Speech Communications
David Landau	Biology
Dorothy Logan	English
Jill G. McKelvy	Sociology
John P. Myers	Economics
Wesley N. Redfield	Geography
Richard N. Robbin	Modern and Classical Languages
John L. Ryan	Modern and Classical Languages
William D. Schulze	Economics
James R. Shay	English
Wayne E. Swisher	Communicative Disorders
Stephen Williams	Biology
David Wise	Biology

New Appointments 1976-77Anthropology:

Jeremy A. Sabloff	Professor
-------------------	-----------

Biology:

Evelyn P. Ewing	Assistant Professor
Kathryn G. Vogel	Assistant Professor

Economics:

Gary D. Libecap	Assistant Professor
Ronald N. Johnson	Assistant Professor

English:

Peter White	Assistant Professor
-------------	---------------------

Geography:

Jerry Lee Williams	Assistant Professor
--------------------	---------------------

Geology:

Stephen P. Huestis	Assistant Professor
--------------------	---------------------

Mathematics and Statistics:

David A. Sanchez	Professor
------------------	-----------

New Appointments 1976-77 (contd.)

Modern and Classical Languages

June C. Carter
Jose R. Reyna

Visiting Instructor
Assistant Professor

Political Science

Ivory T. Robinson
Martha H. Good

Assistant Professor
Assistant Professor

Psychology:

Therese Goetz

Assistant Professor

Speech Communication

Farrel John Corcoran

Visiting Lecturer

TENURE DECISION DATES
June 30, 1977

American Studies

Samuel B. Girgus, Associate Professor

Anthropology

Louise A. Lamphere, Associate Professor
Jeffery W. Froehlich, Assistant Professor

Chemistry

Thomas M. Niemczyk, Assistant Professor

Geography

Douglas H. Gordon, Assistant Professor

Geology

Gary P. Landis, Assistant Professor

Modern and Classical Languages

Peter S. Mellon, Assistant Professor
Angel Gonzales, Professor, Decision Date-December 15, 1976

Philosophy

Carl Russell Stern, Assistant Professor

Sociology

Dodd H. Bogart, Assistant Professor
Arthur St. George, Assistant Professor

Speech Communication

Jean Marie Civikly, Assistant Professor
Timothy G. Plax, Assistant Professor

THIRD YEAR TERM DECISION

Anthropology

Larry Paul Gorbet, Assistant Professor
Mark E. Harlan, Assistant Professor

Biology

Tokio Kogoma, Assistant Professor

English

Rudy A. Anaya, Assistant Professor

Geography

Wesley N. Redfield, Assistant Professor

Geology

Barry S. Kues, Assistant Professor

Journalism

Robert H. Lawrence, Assistant Professor

Linguistics

Alan J. Hudson, Assistant Professor

Political Science

Karen Louise Remmer, Assistant Professor

Psychology

Carol E. Conrad, Assistant Professor

Speech Communication

Paul C. Feingold, Assistant Professor

TABLE I

NUMBER OF STUDENTS ENROLLED
COLLEGE OF ARTS AND SCIENCES, 1969-70--1976-77

<u>Year</u>	<u>Sem. I</u>	<u>% Inc. Over Prev. Year</u>	<u>Sem. II</u>	<u>% Inc. Over Prev. Year</u>
1969-70	2,454	3.7	2,412	- 2.5
1970-71	2,541	3.5	2,518	4.4
1971-72	2,563	0.9	2,490	- 1.1
1972-73	2,644	3.2	2,837	13.9
1973-74	2,857	8.0	2,797	- 1.4
1974-75	2,724	- 4.7	2,746	- 1.8
1975-76	2,684	- 1.5	2,756	0.4
1976-77	2,663	- 0.8	2,737	- 0.7
Increase 1976-77 Over 1969-70	209	8.5	325	13.5

TABLE II

STUDENT CREDIT HOURS TAUGHT, UNM AND A&S

<u>Year</u>	<u>Student Credit Hours</u>		<u>A&S Percent of Total</u>
	<u>UNM</u>	<u>A&S</u>	
1969-70	368,479	234,288	63.9
1970-71	425,189	267,234	62.9
1971-72	444,361	279,705	62.8
1972-73	425,302	278,577	65.5
1973-74	420,311	256,979	61.1
1974-75	517,455	300,821	58.0
1975-76	461,641	285,551	61.9
1976-77	487,208	279,810	57.4
Increase 1976-77 Over 1975-76	5.6%	- 2.01%	
	25,567	- 5,741	
Increase 1976-77 Over 1969-70	32.2%	19.43%	
	118,729	45,522	

TABLE III

STUDENT CREDIT HOURS BY DEPARTMENTS

<u>Department</u>	<u>1969-70</u>	<u>1970-71</u>	<u>1971-72</u>	<u>1972-73</u>	<u>1973-74</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>% Increase 1969-1977</u>
Am. Studies	--	--	1,222	2,277	5,455	5,970	3,002	3,158	--
Anthropology	16,190	20,543	19,616	18,848	15,983	17,156	15,489	12,225	-24.3
Biology	18,218	19,816	23,855	23,766	22,449	25,872	24,565	23,278	27.8
Chemistry	11,805	13,797	16,805	18,923	16,338	19,810	18,249	19,397	64.3
Comm. Dis.	--	--	--	2,116	2,243	2,531	2,758	2,928	--
Economics	9,387	11,135	10,369	10,950	10,483	12,908	13,045	12,168	29.6
English	37,610	41,601	38,604	34,770	28,392	32,564	30,478	31,370	-16.6
Geography	4,141	5,216	5,664	4,912	4,960	5,838	6,008	5,545	33.9
Geology	9,803	10,232	10,072	10,000	9,332	10,028	8,728	8,797	-10.3
History	22,938	22,986	22,725	21,969	19,636	22,676	21,740	19,745	-13.9
Journalism	2,020	2,272	2,474	2,661	3,109	3,603	3,584	3,425	69.6
Linguistics	--	--	--	--	1,460	1,921	1,986	1,615	--
Math & Stat.	23,787	25,138	25,973	27,172	25,620	32,154	32,043	35,167	47.8
M&CL	21,101	23,675	22,036	20,215	17,257	22,917	23,985	21,491	1.9
Philosophy	6,808	10,260	11,619	10,207	9,287	11,020	9,631	7,926	16.4
Phys. & Astr.	8,508	9,155	11,210	11,860	11,446	13,334	12,847	11,842	39.2
Pol. Sci.	9,990	10,265	9,790	10,844	10,506	11,659	10,876	10,391	4.0
Psychology	16,649	23,092	23,440	26,321	25,038	26,804	24,832	24,422	46.7
Sociology	8,234	10,877	13,383	12,549	10,055	12,170	11,182	13,778	67.3
Speech Comm.	7,099	7,354	10,848	8,217	7,929	9,886	10,523	11,142	57.0
TOTAL	234,288	267,324	279,705	278,577	256,979	300,821	285,551	279,810	19.4

TABLE IV

257

DEGREES AWARDED, COLLEGE OF ARTS AND SCIENCES

Year	Bachelor's Degrees		Advanced Degrees					
	No. of Degrees	% Inc. Over Previous Yr.	Master's (a)		Doctor's		Total	
			No.	% Inc.	No.	% Inc.	No.	% Inc.
1970(b)	601	0.0	167	3.1	72	16.1	239	6.7
1971	592	- 1.5	171	2.4	73	1.4	244	2.1
1972	435	-26.5	130	-24.0	47	-35.6	177	-27.5
1973	622	43.0	189	45.4	84	80.9	273	54.8
1974	734	18.0	154	-18.5	88	4.7	242	-11.3
1975	816	10.0	128	-16.8	64	-27.2	192	-20.6
1976	707	-13.4	128	0.0	74	15.6	202	4.2
1977	611	-13.6	159	24.2	69	- 6.8	228	12.9
7-Year Increase	10	1.7	31	24.2	5	- 6.8	26	12.9

(a) These figures do not include Master of Arts in Teaching and Master of Education in Science degrees.

(b) This is the first year for granting the B.U.S. degree.

TABLE V

DEGREES AWARDED, A&S AND UNM, 1968 AND 1977

College	Bachelor's Degrees			Advanced Degrees		
	1968	1977	% Inc.	1968	1977	% Inc.
Arts and Sciences	511	611	19.6	218	228	4.6
Other Colleges*	774	1,303	68.3	352	353	0.3
UNM Total	1,285	1,914	48.9	570	581	1.9

*Excludes Law and Medicine.

TABLE VI

DEGREES AWARDED, BY DEPARTMENT, 1974-77¹

Department	Bachelor's				Master's				Doctoral			
	1974	1975	1976	1977	1974	1975	1976	1977	1974	1975	1976	1977
American St.**	--	--	--	--	--	--	--	--	10	4	10	5
Anthropology	69	84	51	52	13	5	8	19	3	3	5	4
Art*	6	10	5	5	--	--	--	--	--	--	--	--
Biology	110	117	101	76	19	19	12	26	9	5	4	5
Chemistry	30	43	38	28	6	7	7	4	6	2	8	4
Comm. Dis.	9	10	6	15	20	20	20	21	--	--	--	--
Comp. Lit.	1	--	--	1	1	--	--	2	--	--	--	--
Economics	23	35	35	34	6	3	3	6	1	2	4	3
Econ.-Phil.	--	2	--	--	--	--	--	--	--	--	--	--
English	61	67	54	37	10	10	12	4	11	9	11	9
English-Phil.	2	2	8	2	--	--	--	--	--	--	--	--
Geography	17	21	14	9	5	3	1	2	--	--	--	2
Geology	19	15	16	17	5	11	10	7	2	2	3	3
History	62	52	52	43	11	4	6	8	12	11	6	10
Ibero-American Studies**	--	--	--	--	--	--	--	--	4	1	2	--
Journalism	27	36	27	31	--	--	--	--	--	--	--	--
Linguistics	--	2	2	2	--	--	--	1	--	--	--	--
Lat. Amer. St.	3	7	6	6	9	10	9	7	--	--	--	7
Math & Stat.	37	28	25	30	6	3	7	7	5	5	5	3
Med. Tech.	4	8	12	12	--	--	--	1	--	--	--	--
M&CL	47	40	42	28	12	4	8	8	5	7	3	--
Philosophy	11	7	10	3	2	5	3	5	--	1	2	--
Physics & Astr.	7	5	3	6	11	2	2	3	4	7	2	3
Pol. Sci.	52	58	62	58	3	4	1	5	3	1	2	1
Psychology	107	134	106	79	--	10	8	10	13	4	7	9
Russian St.	1	1	1	1	4	--	--	--	--	--	--	--
Sociology	24	23	24	17	5	4	6	1	--	--	--	1
Speech Comm.	10	15	17	17	6	4	18	12	--	--	--	--
Home Econ.*	1	7	--	2	--	--	--	--	--	--	--	--
M.A.T.	--	--	--	--	--	16	13	12	--	--	--	--
TOTAL	740	829	717	611	154	144	141	171	88	64	74	69

¹Includes summer, fall, and spring graduates.

*Not departments of the College of Arts and Sciences, but major or minor is allowed under certain conditions.

**Interdisciplinary programs at the doctoral level.

TABLE VII

BACHELOR DEGREES AWARDED BY COLLEGE OF EDUCATION
WITH A&S MAJORS, 1972-77

<u>Departments</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>
Anthropology	0	0	0	0	0	0
Biology	3	2	0	0	3	0
Chemistry	1	1	1	0	0	0
English	23	13	14	6	4	10
Geography	0	1	0	0	0	0
Geology	0	0	0	0	0	0
History	16	16	7	7	3	6
Journalism	0	0	0	0	0	0
Mathematics & Statistics	2	9	9	5	1	1
Modern & Classical Lang.	4	14	19	5	5	4
Philosophy	1	1	0	0	0	0
Political Science	6	1	0	0	0	0
Psychology	3	2	2	1	2	1
Sociology	0	1	1	1	1	0
Speech Communications	4	5	4	1	1	1
Communication Arts	10	10	8	2	2	3
Social Studies Composite	6	20	12	6	7	5
Science Composite	9	10	8	0	5	0
TOTAL	88	106	85	34	34	31

TABLE VIII

ACADEMIC PROBATIONS, SUSPENSIONS, AND RELEASES
COLLEGE OF ARTS AND SCIENCES

Semester	1972-1973		1973-1974		1974-1975		1975-1976		1976-1977	
	No.	%	No.	%	No.	%	No.	%	No.	%
Semester I										
On Probation	65	2.5	74	2.6	90	3.4	81	3.0	81	3.0
Suspended	14	0.5	14	0.5	31	1.2	37	1.4	38	1.4
Released from Probation	55	2.1	43	1.5	58	2.2	64	2.4	74	2.8
Semester II										
On Probation	55	1.9	62	2.2	54	2.0	58	2.1	78	2.9
Suspended	26	0.9	20	0.7	31	1.1	47	1.7	46	1.7
Released from Probation	56	2.0	53	1.9	74	2.8	70	2.5	71	2.6

Number of Students enrolled in Arts and Sciences:

Semester I, 1976-77	2,663
Semester II, 1976-77	2,737

TABLE IX

DEAN'S LIST, COLLEGE OF ARTS AND SCIENCES:
NUMBER OF STUDENTS WITH GPA OF 3.00 AND ABOVE
FOR WORK OF 15 HRS. OR MORE TAKEN IN THE SEMESTER WITH GRADE

Grade Point Average	1973-1974				1974-1975			
	Sem. I		Sem. II		Sem. I		Sem. II	
	No.	%	No.	%	No.	%	No.	%
4.00	83	2.9	85	3.0	64	2.4	71	2.7
3.50-3.99	206	7.2	207	7.4	172	6.7	158	6.1
3.00-3.49	324	11.3	294	10.5	249	10.1	262	10.5
TOTAL	613	21.4	586	20.9	485	19.2	491	19.3
	1975-1976				1976-1977			
	No.	%	No.	%	No.	%	No.	%
4.00	53	2.0	48	1.7	49	1.8	51	1.9
3.50-3.99	160	6.0	156	5.7	138	5.2	156	5.7
3.00-3.49	232	8.6	247	9.0	199	7.5	210	7.7
TOTAL	445	16.6	451	16.4	386	14.5	417	15.2

NOTE: % represents the percentage of the total Arts and Sciences enrollment for the semester indicated.

TABLE X

DEGREES GRANTED WITH HONORS, 1976-77

Honors in General Studies:

Magna Cum Laude	6	
Cum Laude	23	
Summa Cum Laude	3	
		32

Departmental Honors:

Anthropology	5	
Chemistry	6	
English	1	
History	2	
Math	1	
Psychology	11	
Speech	1	
		27

Elected to Phi Beta Kappa:

Information Not Available

Nominated to Phi Kappa Phi:

Seniors	53	53
---------	----	----

TABLE XI
GRANTS TO A&S FACULTY BY
RESEARCH ALLOCATIONS COMMITTEE
1976-77*

<u>Department</u>	<u>Number of People Receiving Grants</u>	<u>Total</u>	<u>Mean Dollars Per Grant</u>
American Studies	1	\$ 325	\$ 325
Anthropology	6	3,891	649
Biology	13	11,379	875
Chemistry	9	11,096	1,233
Communicative Disorders	3	3,883	1,294
Economics	1	1,088	1,088
English	7	5,178	740
Geography	1	1,034	1,034
Geology	5	4,148	830
History	8	4,319	540
M&CL	8	5,001	625
Physics & Astronomy	2	1,897	949
Political Science	2	1,790	895
Psychology	10	7,766	776
Sociology	2	394	197
Speech Communication	3	1,413	471
TOTAL	81	\$64,602	\$ 798

TABLE XII

VISITING LECTURERS, 1976-77

<u>Date</u>	<u>Name, Title & Address</u>	<u>Department</u>	<u>Purpose</u>
10/11/76	Dr. Dwijendra Tripathi Professor of Economic and Business History at the Indiana Institute of Management.	Geography (Asian Studies)	Lecture on current political events in India
10/22/76	Dr. William Holtz Professor of English University of Missouri	English	Lecture on "Samuel Johnson and the Abominable Fancy"
12/22/76	Roger Hagengruber 3404 Golden Gate Ct., NE Albuquerque, NM 87111	Political Science	Discussion lectures on International Conflict
12/22/76	Dr. Ruth Lorbe Professor of German University of Illinois	M&CL	Lecture series on German literature
11/29/76	Elmer Lower New York City, N.Y.	Journalism	Lecture
11/8/76	Rocky Mountain Modern Language Association	M&CL	Dinner for Board Members
7/15/76	Ira M. Herbst Princeton University	Physics	Colloquium Special Properties of Schrodinger Operators Related to the Stark Effect
10/25/76	Committee on National Mental Health Institute	Sociology	Dinner
10/14/76	Dona Rosario Parra Cala Director of the Archivo General de Indias	History	Lecture
2/16/77	Frits Staal Dept. of Asian Studies University of California Berkeley	Philosophy	Lecture
3/7/77	Robert Potter Professor University of California Santa Barbara	English	Lecture, "Tiger's Hearts and Peerless Minds: Shakespeare Liberated Women"

TABLE XII (contd.)

<u>Date</u>	<u>Name, Title & Address</u>	<u>Department</u>	<u>Purpose</u>
3/11/77	Jean Philippe Rigaud Pessac, France	Anthropology	Lecture
11/12/76	Leonard Kriegel New York City, NY	American Studies	Lecture
4/1/77	Carlos Miguel Suarez Rodillo Literary Critic from Spain	M&CL	Lecture
5/2/77	Andre Berthier de Sauvigny Paris, France	History	Lecture
3/25/77	O.M. Brack Arizona State University	English	Lecture
5/20/77	Charles Shimp Professor University of Utah	Psychology	Lecture

Appendix C

Summary Table

Research and Training Grants
and Contracts in Force, 1976-77
College of Arts and Sciences

<u>Department</u>	<u>\$</u>	<u># of Faculty</u>	<u># of Grants & Contracts</u>
American Studies	1,650	1	1
Anthropology & OCA	683,745	5 ¹	9 ¹
Biology	2,100,290 ²	18 ³	39 ³
Chemistry	456,596	8	14
Communicative Disorders	98,400	2	3
Economics	641,066	8	14
English	51,795	3	3
Geography	--	--	--
Geology	889,786	8	15
History	5,603	--	1
Journalism	--	--	--
Linguistics	193,538	4	4
Mathematics	94,082	4	4
Latin American Center	3,100	1	1
Philosophy	--	--	--
Physics	452,655	10	11
Political Science	25,483	2	2
Psychology	294,285	5	8
Sociology	2,500	1	1
Speech Communication	--	--	--
TOTAL	5,994,574	80	129

¹Excludes OCA, Maxwell Museum and Chaco Canyon.

²Includes \$1.4 million malaria contract that will be transferred from Biology for 1977-78.

³Excludes malaria contract.

AMERICAN STUDIES

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
Biebel, Charles	New Mexico Humanities Council	1/1/77-4/1/77	\$ 1,650

Total Grants: 1

ANTHROPOLOGY

Broilo, Frank	Gas Transmission Line-Star Lake to Gallup	3/1/76-Open	\$ 12,477
Broilo, Frank	Reconnaissance of Portions of the Puerco River	5/5/76-Open	1,786
Broilo, Frank	Reconnaissance of Portions of the Puerco River	Open	1,148
Froehlich, Jeffery	Bureau of Land Management Grant	2/1/76-6/1/76	5,340
Broilo, Frank	Archeological Mitigation Program of Cochiti Reservoir	6/1/76-5/30/78	313,200
Cordell, Linda	Cibola National Forest Tijeras Pueblo Excavation	5/25/76-Open	3,000
Judge, James	Grant in Aid for Graduate Student	6/15/76-9/15/76	2,224
Broilo, Frank	Relocation of Gas Transmission Line-Star Lake to Gallup	7/1/76-6/30/77	9,566
Straus, Lawrence	Sub Contracts w/Arizona State University	5/1/76-4/30/78	12,483
Straus, Lawrence	Sub Contracts w/Arizona State University	5/1/76-4/30/77	5,974
Straus, Lawrence	Sub Contracts w/Arizona State University	5/1/76-4/30/78	6,509
Broilo, Frank	Process and Analyze Data from Chaco Canyon	11/1/76-9/30/77	69,960
Lamphere, Louise	Women, Work and Ethnicity in Urban Setting	1/1/77-12/31/77	19,207
Broilo, Frank	Archeological Survey of Two Mine Sites	10/8/76-2/28/77	3,328
Broilo, Frank	Chaco Center	10/1/76-10/31/76	5,256

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
ANTHROPOLOGY (contd.)			
Harpending, Harry	Regional Studies of the Central District-N.M.	8/15/76-1/31/78	\$ 12,200
Broilo, Frank	Archeological Survey of Anaconda Company Mill Site	1/10/77-6/30/77	9,602
Lister, Robert	Sub Account NPS	7/1/76-9/30/76	300
Lister, Robert	Sub Account NPS	7/1/76-9/30/76	300
Lister, Robert	Sub Account NPS	8/18/76-9/30/77	1,000
Lister, Robert	Sub Account NPS	9/9/76-12/31/76	320
Brody, Jerry J.	APS Educational Services	7/1/76-6/30/77	2,500
Lister, Robert	Sub Account NPS	8/18/76-5/15/77	7,127
Lister, Robert	Sub Account NPS	9/14/76-6/30/77	1,180
Lister, Robert	Sub Account NPS	9/23/76-10/31/76	28
Lister, Robert	Sub Account NPS	9/20/76-6/30/77	1,000
Lister, Robert	Sub Account NPS	10/1/76-9/30/77	1,000
Lister, Robert	Sub Account NPS	12/1/76-1/20/77	500
Broilo, Frank	NPS-Chaco	10/1/76-10/31/76	5,256
Lyons, Thomas	Sub Account NPS	4/19/77-9/30/77	1,000
Broilo, Frank	Archeological Survey: Three Borrow Pits in the Tetilla Peak Recreation Area	4/22/76-7/27/76	492
Broilo, Frank	Pueblo of Laguna Housing Authority	6/22/76-7/27/76	1,445
Broilo, Frank	Reconnaissance of Portions of the Puerco River	6/25/76-Open	1,000
Stout, Carol	Outdoor Ethnobotanical Exhibit	4/10/76-3/30/77	2,000
Broilo, Frank	Process and Analyze Archeological Specimens: Data Obtained from Field Investigations in and about Chaco Canyon	11/1/76-9/30/77	8,717

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
ANTHROPOLOGY (contd.)			
Broilo, Frank	Four Corners Plant and Ambrosia Lake: Archaeological Survey	7/15/76-6/30/77	\$ 10,198
Broilo, Frank	Cultural Survey for Yellow House Dam and Reservoir Site, NM	10/4/76-8/18/77	14,343
Broilo, Frank	Cultural Survey for Yellow House Dam and Reservoir Site, NM	10/4/76-4/1/77	34,525
Broilo, Frank	Dames & Moore, Archaeological Survey	10/15/76-6/30/77	4,942
Froehlich, Jeffery	Bureau of Land Management	3/1/77-10/31/77	82,795
Froehlich, Jeffery	Paleontological Survey of Federal Lands	4/21/77-5/31/77	8,517
Total Grants: 41			\$ 683,745

BIOLOGY

Gosz, James; Potter, Loren; Siemers, Charles; Barton, Larry	An Evaluation of NM Humate Deposits for Restoration of Strip Mining Site	4/1/76-7/1/77	\$ 59,175
Caldwell, Doug and Caldwell, Sarah	Carbon Cycling Within Planktonic Algal-Bacterial Aggregates	3/1/76-8/31/78	45,000
Gosz, James	An Evaluation of Procedures for Improved Water Quality in a Ski Area	6/1/76-1/31/78	12,000
Wise, David	Interspecific Competition & the Structure of Tenebrionid Beetle Communities	5/15/76-10/31/78	55,800
Martin, William	Field Studies of Native Plants	5/25/76-6/18/76 -11/4/76	1,265 480
Silverman, Paul	Evaluation of Blood Stage Antigens in Immunoprophylaxis of Malaria	5/1/76-3/31/79	1,366,842

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
BIOLOGY (contd.)			
Molles, Manuel	Effects of Road Salting on Aquatic Invertebrate Communities	6/1/76-9/30/77	\$ 7,000
Potter, Loren	Fire Ecology at Bandelier National Monument	5/5/76-11/1/77	7,564
Potter, Loren	" " "	6/1/75-9/30/76	13,100
Martin, William	Field Studies of Native Plants	3/1/76-4/30/76	750
Kogoma, Tokio	DNA Replication in Bacteria	5/1/76-4/30/77	20,793
Riedesel, Marvin	Melatonin as a Regulator in Mammalian Hibernation	6/1/76-5/31/77	3,000
Martin, William	Field Studies of Native Plants	6/22/76-9/30/76	930
Johnson, Gordon & Barton, Larry	Characterization of Nutrients & Algal Blooms at Two Reservoirs	7/1/76-9/30/77	15,987
Gosz, James	Effects of Timber Stand Maturity on Stream Organic Compounds	4/15/76-5/30/77	6,375
Gosz, James	Influence of Road Salting on Nutrient and Heavy Metal Levels in Stream Water	7/1/76-9/30/76	8,335
Gosz, James	Contribution of Nitrogen to Stream Water in Managed & Undisturbed Watersheds	7/1/76-9/30/76	7,174
Potter, Loren	Vegetational Stabilization -Uranium Spoils Areas Grants	11/3/75-9/30/76	4,750
Martin, William	Florestic Assessment of Navajo Properties in McKinley, NM	5/15/76-5/31/77	24,000
Cates, Rex	Effects of Plant Defenses & Community Dynamics on Herbivore Community	9/1/76-2/28/79	55,400
Gosz, James	Factors Controlling Nutrient Losses from Disturbed Ecosystems	9/1/76-8/31/78	64,924

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
BIOLOGY (contd.)			
Potter, Loren	Lake Powell Project	6/1/72-12/31/77	\$ 106,500
Kidd, David & Gloss, Steven P.	Availability of Phosphorus & Nitrogen, Rio Grande	1/1/77-8/15/78	36,810
Gosz, James	Longitudinal Recovery of a Stream Affected by a Ski Area Development	2/1/77-5/30/78	12,000
Molles, Manuel	Effects of Stream Sedimen- tation from Highway Sand & Salting	1/1/77-5/30/78	7,000
Kogoma, Tokio	DNA Replication in Bacteria	5/1/77-4/30/78	21,930
Potter, Loren	Vegetation Stabilization of Uranium Spoils Area- Grants, NM	10/1/76-9/30/77	19,600
Baca, Oswald; Barton, Larry; Kerkof, Paul; Kogoma, Tokio; & Trujillo, John L.	NSF-Research Equipment Grant	4/15/77-9/30/78	45,000
Martin, William	Floristic Analysis & Impact Study of Proposed Sierra Blanca Ski Run	5/15/77-12/31/77	9,821
Findley, James	Vertebrate Faunal Survey of Area Adjacent to Sierra Blanca Ski Area	5/15/77-9/1/77	14,505
Cates, Rex	Douglas Fir-Tussock Moth	4/13/77-12/31/77	9,000
Scott, Norman	Western Spruce Budworm Suppression Project	6/3/77-8/15/78	9,980
Ligon, David	Bird Species Composition, Density & Niche Utilization of Central NM	5/15/77-10/1/77	2,500.
Potter, Loren	Mancos Shale Soils & Their Effects on Plant Growth	5/15/77-12/15/78	25,000
Total Grants: 40			\$2,100,290

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
CHEMISTRY			
Coleman, William	Undergraduate Research Participation	3/11/76-5/31/77	\$ 12,460
Tapscott, Robert	Chelate Isomerism with Meso & Prochiral Ligands	4/1/76-3/1/77	27,594
Allen, Fritz	Base Sites of Antitumor Antibiotic DNA Bending by CD	5/1/76-11/30/76 -6/30/77	44,478
Morrow, Gary	Gas Chromatographic Resolution of Enantiomers	5/1/76-4/30/77	30,225
Morrow, Gary	" " "	5/1/76-6/30/77	4,146
Daub, Guido	Research Instrument Proposal to NSF	6/15/76-11/30/77	86,000
Daub, Guido	Contract with HEW	6/30/76-6/29/77	73,739
Coleman, William	Sandia RFQ	11/1/76-12/31/77	24,679
Daub, Guido & Coleman, William	Modification A001	6/1/75-5/31/77	41,029
Tapscott, Robert	Chelate Isomerism with Meso & Prochiral Ligands	4/1/77-3/31/78	23,279
Daub, Guido	Research Instrument Proposal	6/15/76-11/30/77	43,000
Jones, Thomas	Analytical Application of Macrocyclic Polythialthes Ligands	7/1/76-9/30/77	25,000
Paine, Robert	The Synthesis & Photospectroscopy of Actinide Compounds	3/7/77-Open	6,000
Kahn, Milton	Research & Radiochemical Isolation of Germanium	6/1/77-5/31/78	14,967
Total Grants: 14			\$ 456,596

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
COMMUNICATIVE DISORDERS			
Lamb, Lloyd E.	Preparation of Professional & Supportive Personnel in Speech, Language & Hearing	6/1/76-5/31/77	\$ 50,000
Lamb, Lloyd E.	Preparation of Professional & Supportive Personnel in Speech, Language & Hearing	6/1/77-5/31/78	47,000
Robertson, James	NM Arts Commission-New America	12/1/76-8/15/77	1,400
Total Grants: 3			\$ 98,400
ECONOMICS			
Cummings, Ronald	Energy Development & Technological Change in Irrigated Agriculture	2/1/76-1/21/77	\$ 40,303
Kneese, Allen	Non-Ferrous Mining Industry	5/1/76-1/31/78	95,500
Cummings, Ronald	Economic Support for LASL	8/18/75-9/30/76	24,000
Parker, Alfred	Workshop Economic Education for the Albuquerque Middle School	6/14/76-6/18/76	1,709
Brown, Lee	Forecasting Future Market Values for Water Rights in New Mexico	7/1/76-6/30/77	9,265
Boyle, Gerald J.	Analysis of Revenue Sources Available for Highway Improvement	7/1/76-6/30/77	41,543
Ben-David, Shaul; Kneese, Allen; & Schulze, William	Regional Impact of Economic Development--Lake Powell	6/1/76-5/31/77	25,523
Kneese, Allen	A Policy Study of the Southwestern Region of US	8/15/76-1/31/78	184,600
Boyle, Gerald J.	Optimum Taxation of Natural Resources in State of NM	7/1/76-8/31/77	32,048
Cummings, Ronald	An Economic Analysis of Plant Size for HDR Geothermal Facilities	10/1/76-1/14/78	69,532

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
ECONOMICS (contd.)			
Cummings, Ronald	An Assessment of Social Infrastructure Investments in Boomtown, Phase I & II	10/1/76-6/30/77	\$ 33,758
Cummings, Ronald	Maximum Efficiency Rate of Recovery	10/1/76-9/30/77	8,500
Cummings, Ronald	An Assessment of the Effects of Drilling Costs & Economic Support	10/1/76-9/30/77	24,748
Brown, F. Lee	The Lifeline Concept	12/22/76-1/31/77	6,497
Cummings, Ronald	Maximum Efficiency Rate of Recovery	10/1/76-9/30/77	13,000
Gisser, Micha	The Methodology of Evaluating the Impact on the Agricultural Sector	1/26/77-9/30/77	24,960
Boyle, Gerald J.	NM Bureau of Revenue	5/1/77-6/30/78	5,580
Total Grants: 14			\$ 641,066

ENGLISH

Frumkin, Gene and Zavadil, Joseph B.	Rio Grande Writers' Conference	3/25/76-8/31/76	\$ 6,000
Zavadil, Joseph B.	Witter Bynner Lectures in English	1/1/76-12/31/76	5,000
Hill, Hamlin	Laughter in America, or Multicultural Response	1/1/77-9/30/77	40,795
Total Grants: 3			\$ 51,795

GEOLOGY

Elston, Wolfgang E.	Search for Evidence of Dynamic Processes	1/1/76-12/31/76	\$ 20,000
Keil, Klaus	Mineralogy, Petrology & Chemistry of Brecciate Stone Meteorites	6/1/71-2/28/77	290,520
Callender, Jonathan	Fabric Studies on Underformed & Deformed Rock Salt	7/15/75-6/30/76	5,859

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
GEOLOGY (contd.)			
Landis, Gary P.	Evaluation of Geothermal Potential of the Basin & Range Province of NM	6/27/76-6/26/77	\$ 140,846
Elston, Wolfgang E.	Search for Evidence of Dynamic Process	1/1/77-12/31/77	21,000
Elston, Wolfgang E.	Application of Colcanology to Petroleum Exploration in Southwestern New Mexico	1/15/77-3/1/78	51,250
Anderson, Roger Y.	Climate Solution History of Northern Part of the Delaware Basin, SE, NM	2/18/77-1/18/78	20,925
Keil, Klaus	NASI-11855-Mod. 11	8/01/72-9/30/77	20,000
Callender, Jonathan	Fabric & Permeability Studies on Deformed Halite	1/13/77-9/30/77	14,995
Brookins, Douglas	Grand Junction Operation-Grants NM Mineral Belt	9/1/76-9/14/78	94,541
Callender, Jonathan & Ewing, Rodney	Evaluation of Geothermal Potential of the Basin & Range Province of NM (Year 3)	1/1/77-12/31/77	103,235
Kues, Barry	Study of the Relationships of the Texture Fabric & Composition of Fine-grained Rocks to Occurrence of & Exploration for Oil & Gas	11/1/76-9/30/77	25,000
Brookins, Douglas	Pilot Study of Rio Grande Rift/White Sands Area for HSSR	9/30/76-10/31/77	70,000
Brookins, Douglas	Sandia Corp.	3/1/77-9/30/77	8,568
Keil, Klaus	Scripps Institute of Oceanography	5/1/77-6/12/77	3,047
Total Grants: 15			\$ 889,786
HISTORY			
Furman, Necah	Cultural Conflict in NM Issues of Public Concern	9/15/76-3/1/77	\$ 5,603
Total Grants: 1			

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
LINGUISTICS			
Young, Robert	Navajo/English Dictionary	7/1/76-6/30/77	\$ 41,926
Spolsky, Bernard	Bilingualism: Social & Individual Aspects	1/1/77-9/30/77	40,302
Oller, John	Summer Courses for BIA Teachers	7/1/76-7/30/76	8,252
Hudson, Alan	Implications of the Voting Rights for the States of California, New Mexico, Florida & New York	9/29/76-1/31/78	103,058
Total Grants: 4			\$ 193,538
MATHEMATICS AND STATISTICS			
Zimmer, William J.	Accelerated Life Techniques in Reliability & Quality Control	1/1/75-12/31/76	\$ 32,000
Hersh, Reuben	Modern Analysis & Probability	6/1/72-10/31/77	41,600
Davis, H.T.	Evaluation of Statistical Software	7/1/76-12/31/77	10,800
Carasso, Alfred	Computer Linear & Nonlinear Parabolic Equations Backward in Time	3/1/76-2/28/78	9,682
Total Grants: 4			\$ 94,082
MODERN AND CLASSICAL LANGUAGES			
Nason, Marshall	Peace Corps Liaison Office	3/1/76-3/1/77	\$ 3,100
Total Grants: 1			
PHYSICS AND ASTRONOMY			
Swinson, Derek B.	Field Dependent Cosmic Ray Anisotropies	6/1/76-11/30/78	\$ 50,300
Bryant, Howard C.	Employment of Foreign Students	1/3/77-5/18/77	2,673
Zeilik, Michael	Restructuring the Undergraduate Learning Environment	6/2/76-8/31/78	10,200

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
PHYSICS & ASTRONOMY (contd.)			
Linsley, John D.	Investigations of Cosmic Ray Air Showers	12/1/72-10/31/77	\$ 198,700
King, David	Stellar Pulsation Theory	9/1/76-2/28/78	11,700
Bryant, Howard C.; Leavitt, Christopher; Dieterle, Byron D. & Wolfe, David M.	Nuclion Physics Studies at Intermediate Energies	7/1/73-11/30/76	35,000
Regener, Victor	Solar Research Student Participation	9/16/74-12/31/77	4,400
Beckel, Charles	Diatomic Molecule Properties in the Intermediate Energy	10/1/76-9/30/77	40,730
Peterson, Alan W.	Infrared OH Ainglow Studies	10/15/76-3/31/78	33,000
Bryant, Howard C.	Solar Ponds for Residential Heating	8/19/76-1/27/77	10,000
Bryant, Howard C.	A Demonstration Salt Gradient Solar Pond	4/1/77-3/31/78	55,952
Total Grants: 11			\$ 452,655
POLITICAL SCIENCE			
Needler, Martin	Comparative Study of Petroleum Policies	7/1/76-6/30/77	\$ 21,751
Garcia, F. Chris	Background Data on New Mexico Legislature	7/1/76-6/30/77	3,732
Total Grants: 2			\$ 25,483
PSYCHOLOGY			
Johnson, Peder	Influence of Strategies in Children's Cognitive Function	5/1/76-4/30/77	\$ 20,593
Logan, Frank	Conditions of Reinforcement	4/1/74-3/31/77	139,200
Logan, Frank	Experimental Psychology	7/1/76-6/30/77	26,391
Ferraro, Douglas	Marijuana and Society	11/1/76-1/1/77	8,493

<u>Name</u>	<u>Title of Grant</u>	<u>Period of Contract</u>	<u>Amount</u>
PSYCHOLOGY (contd.)			
Johnson, Peder	Influence of Strategies in Children's Cognitive Function	5/1/77-4/30/78	\$ 22,572
Logan, Frank	Conditions of Reinforcement	4/1/77-9/30/78	35,100
Grice, Robert	Principles of Response Evocation	4/1/77-3/31/78	34,777
Conrad, Carol	Bilingual Integration of Semantic Information	5/1/77-4/30/78	7,159
Total Grants: 8			\$ 294,285

SOCIOLOGY

St. George, Arthur	Development of Evaluation Research Package	4/14/76-6/30/76	\$ 2,500
Total Grants: 1			

Appendix D

ANNUAL REPORT ON TRAVEL, 1976-77
Ralph D. Norman

Fiscal 1976-77 marked the fourth year that the college operated on a reduced travel budget. However, whereas the 73-74 and 74-75 fiscal years operated on budgets of \$15,000 supplemented by an extra allowance of \$2,000 to Math and \$150 transferred to us by Psychology (totals of \$17,150), the 75-76 original budget of \$18,600, including the same Math-Psychology amounts proved insufficient and had to be infused in the spring with an extra \$2,500; however, the bulk of this remained unused since \$2,348 was left in the reserve. Apparently, some "weaning" effect had taken place. FY 1976-77 was marked by an original allocation which was the most liberal of the four continuous years, a total of \$23,000. The policy of payment of half fare for eligible trips, however, was continued in order to take the edge off the continuing spiral of inflation of air fares and to offset any need to supplement the original allocation in late winter or early spring, as had been the policy in the previous three years.

Total disbursements for 1976-77 are given in Table 1. The usual categories have been kept: (A) Paper Presentation; (B) Officerships; and (C) Miscellaneous, including chairing sessions, panel memberships, etc. as well as simple attendance. Following are the relative figures and amounts spent for 1975-76 and 1976-77:

	1975-76				1976-77			
	<u>No. of Trips</u>	<u>%</u>	<u>Amount Spent</u>	<u>%</u>	<u>No. of Trips</u>	<u>%</u>	<u>Amount Spent</u>	<u>%</u>
Category A	99	58.9	\$11,619	62.0	124	64.9	\$13,663	64.8
Category B	13	7.7	1,373	7.3	15	7.9	1,317	6.3
Category C	56	33.3	5,760	30.7	52	27.2	6,091	28.9
TOTAL	168	99.9	\$18,752	100.0	191	100.0	\$21,071	100.0

The number of trips increased from 168 to 191 or 13.7%. The amount spent per traveler for all 191 trips was \$110.32.

With Category B (officerships) remaining quite constant between 75-76 and 76-77, the principal changes took place in the other two categories. Category A shows an increase of 6% in number of trips, but only about half that (2.8%) in dollar amount. Category C shows a corresponding downward trend--a loss of 6.1% in trips and 1.8% in dollar amount. The total expenditure of \$21,071 left \$1,929 in the reserve--91.6% of the original allocation was expended. (I do not believe that the \$1,929 was excessive--had it been distributed equally among all 191 travelers, each would have received exactly \$10.10 extra per trip.)

Table 1 also presents the breakdown by departments among all the categories. Although departments obviously vary in size, I can single out Biology, Anthropology and Psychology as being very active in paper presentation. Biology has this distinction now for four successive years.

Since the budget for the forthcoming year will be increased by 50%, and the amount per trip will be increased from half to two-thirds fare, I expect that there will be an increase in number of trips. If not, faculty will at least receive some modicum of relief from the austerity of the past four years.

TABLE 1

A&S TRAVEL DISBURSEMENTS

Department	Paper Presentation		Officer Participation		Miscellaneous Attendance	
	No. of Trips	\$	No. of Trips	\$	No. of Trips	\$
Amer. Stud	--	--	--	--	--	--
Anthropology	13	1,507.50	--	--	1	50.00
Biology	19	1,857.00	1	24.00	1	48.00
Chemistry	7	684.00	--	--	1	122.00
Comm. Dis.	4	328.00	--	--	1	82.00
Economics	3	310.00	--	--	4	620.00
English	5	625.00	3	326.00	5	690.00
Geography	4	256.50	--	--	1	80.00
Geology	4	550.00	--	--	--	--
History	9	895.38	3	246.00	7	607.00
IAA	1	125.00	--	--	--	--
Journalism	--	--	--	--	--	--
Linguistics	2	243.00	--	--	1	151.00
Mathematics	6	930.32	--	--	12	2,076.00
M&CL	8	1,009.50	1	41.16	5	561.50
Philosophy	8	709.50	--	--	--	--
Physics	4	698.34	--	--	1	63.00
Pol. Sci.	2	194.00	1	105.00	6	452.00
Psychology	12	1,206.00	4	366.00	2	177.70
Sociology	7	938.50	1	127.00	3	215.50
Speech Comm.	6	595.50	1	82.00	1	95.00
TOTAL	124	13,663.04	15	1,317.16	52	6,090.70

Appendix E

THE UNIVERSITY OF NEW MEXICO

Date: May 20, 1977

TO: Dean Nathaniel Wollman
FROM: F. Chris Garcia
SUBJECT: Annual Report Matters

1. Student Advisory Committee

The Student Advisory Committee met several times during the 1976-77 year. The Committee's recommendations included: raising the grade point and lowering the credit hours requirement for the Dean's List; and increasing the communications with seniors about graduation requirements. Major topics discussed were the proposed program of basic instruction, the proposed composite major, the effects of the proposed community college on Arts and Sciences, the Communications Skills Test and the changes in dates for withdrawing from classes.

The six Committee members were:

1. Edward Phinney (Chemistry)
2. Margaret Fillmore (Biology)
3. Dorothy Davidson (Political Science)
4. Sandra Tyler (Sociology)
5. Jeffrey Kennedy (History)
6. Michael Rudd (Philosophy)

2. Ad Hoc Committee on Interdisciplinary Majors

The Committee was formed in order to further develop a proposal on a point introduced at a faculty meeting on February 15th, 1977. The Committee met throughout the Spring semester. Several drafts of a proposal for an interdisciplinary major in the College of Arts and Sciences were produced. Departments in the College were polled in order to elicit their opinions on the idea. Only a few departments were opposed

to the idea, feeling such a program was unnecessary. The final proposal of the Committee is attached.

Committee members were:

Pedro David (Sociology)
David DuBois (Math)
Charles McClelland (History)
Fritz Taylor (Biology)
F. Chris Garcia (Political Science), Chair

3. Changes in Academic Programs:

- a. The Medical Technology program was transferred from the College of Arts and Sciences to the Medical School.
- b. New college group requirements were instituted. These are to apply to students admitted to the University beginning with the Fall 1977 semester.
- c. A social welfare minor was instituted in the Department of Sociology.

4. The Communication Skills Test

From the first administration of the test in July 1976 to the last testing of the academic year in April 1977, 2,013 students took the CST. Of these 804 (40%) passed; 1,203 (59%) were advised to take English 101 or 102 and 6 (1%) were recommended for the English tutorial program.

veo

atch

SUGGESTIONS FOR INTERDISCIPLINARY MAJORS IN ARTS AND SCIENCES

Revised May 18, 1977

The College of Arts and Sciences is considering the initiation of a special option of "custom" interdisciplinary majors for A&S students. Requirements for majors and minors often do not allow for a substantial number of related and coordinated courses outside the department. Some of the possible interdisciplinary majors, as suggested by departments, might include: Environmental Studies, Aquatic Studies, Urban Studies, Climatology, Mass Communication, and Criminal Justice. The current A&S interdisciplinary majors such as Economics-Philosophy, English-Philosophy, Comparative Literature, Classics, and Latin American Studies would continue as currently in operation.

This added program flexibility would increase the opportunities open to some graduating seniors as they might now obtain either an academic preparation more directly aimed at professional or technical positions or specialized graduate school programs.

In consultation with a committee, students would select courses of studies that would lead to inter-departmental majors. For students accepted into this program, this interdisciplinary major would replace the current standard major/minor or double major. This option would allow a greater degree of flexibility for those students having the initiative, desire, and ability to put together a special program of studies with an interdepartmental committee of faculty in those areas that combine to form the composite major. Volunteer faculty members from those departments involved in each student's program will constitute a program committee.

During the second term of their sophomore year, interested students would present a proposal for interdisciplinary study to their inter-departmental program committee which will in turn forward it to a central college supervisory committee. This college committee would be composed of three faculty members plus one student. The chairman of the committee would be appointed through the College office. Arts and Sciences departments would nominate the members of this committee governing the program. The dean of the College will select the three members from the departmental nominees. The student member will be selected from the A&S Student Advisory Committee. Approval of the student's programs by both the faculty/departmental committee and the college coordinating committee is required before students may proceed with their program.

The interdisciplinary major must have a clear substantive focus that calls for a multi-disciplinary approach to the subject. (This is in contrast to the BUS degree program which requires no focus nor a coordinated, planned, and approved program of studies. Moreover, BUS degree course work may be taken in any or all colleges.) The major will be composed of at least 54 credit hours; no minor will be required. In addition to meeting all other A&S requirements, students must have at least 35 hours numbered 300 or above selected from no less than three nor more than five Arts and Sciences departments. Upper division work in one department outside the College of Arts and Sciences may be substituted.

The progress of the student toward completion of the degree will be monitored by the above-mentioned program committee drawn from members of the cooperating departments. These interdepartmental program committees will be coordinated by the College central committee. One of the cooperating departments will bear primary responsibility for the student's programs, records, advisement, etc.

The Arts and Sciences faculty is asked to authorize this program for a period of three years. The College supervisory committee will report to the faculty on the progress of the program at least once a year. Only those departments that choose to participate in the program will be involved. If a department chooses not to participate, students may not construct a program involving that department. All control over course requirements and content will remain at the departmental level.

Appendix F

THE UNIVERSITY OF NEW MEXICO

Date: July 8, 1977

TO: Nathaniel Wollman, Dean, College of Arts and Sciences
FROM: Tom Venardos
SUBJECT: Annual Report of Advisement Center (July 1976-July 1977)

Purpose and Philosophy

The original purpose of the Arts and Sciences Advisement Center, along with the other centers established in July 1976, was to provide professional academic advisement and advise to all new incoming freshmen and transfer students. Those students interested in a liberal arts education, of course, sought advisement from this center. The center was staffed with one full-time and three part-time advisors to accomplish this effort.

The role of the center was expanded to accommodate the student as he/she progressed through a development sequence of activities which included planning a program for more than just one semester, selecting a meaningful major, and exploring the employment possibilities with a liberal arts education. Rather than select courses for only the first semester, the student and advisor now use a worksheet to plan schedules for an entire year, select a tentative major and minor, survey possible uses of an Arts and Sciences degree and learn more effective use of their time in studying. Consequently, students are learning to make decisions about their future, as well as, committing themselves to some definite educational goals. Studies have supported the idea that the committed student is usually the enduring student who eventually graduates.

Along with advising new freshmen and transfer students, the staff has begun to identify three other types of students who use the service. The students are: (1) the undecided sophomores, juniors and seniors; (2) the student changing majors; and, (3) the inter-departmental majors. Strategies have been formulated to work with these students in advisement.

Finally, the faculty and departments should be mentioned. The staff thinks that a meaningful relationship has been established between the advisement center and the various A&S departments. Faculty have cooperated in advising students once a major has been selected. All students are immediately referred to the department once the selection has been made. Continued cooperative efforts must be maintained to insure a successful and valuable transition for the student who progresses from freshmen advisement to his/her major department and finally to graduation.

Projects

The staff of the advisement center has undertaken a number of projects during the year. The projects have included: (1) collecting data on the 1975 A&S graduating class; (2) collecting data on the 1975 entering freshmen class; (3) preparing a list of employment possibilities for students with a degree in liberal arts; (4) collecting data on Presidential Scholars; (5) collecting data on a study habits survey; (6) organizing a Career Exploration Fair for liberal arts majors; (7) preparing a worksheet for freshmen; (8) assisting in writing a 1977-78 Advisement and Registration Guide for entering students; (9) attending an ACT conference on retention of college students; and, (10) collecting data on CST results for 1975-76.

In addition to the projects listed above, several other activities have taken me into the community as either a guest speaker or consultant. Such activities have included: speak at Albuquerque High School and Sandia Laboratories to a special class of college students, consult with the Gallup Branch of UNM on advisement matters, consult with Secondary Education at UNM and the Air Force at Kirtland Air Force Base. Also, I am currently the chairperson of a task force, and on the directorate body for the national organization, American College Personnel Association.

Number of Students Seen by Center

The total number of students seen by the A&S Advisement Center was 6,137, an average of 118 students per week. This would be increased to 9,287 if one would include the students who dropped off pre-registration cards during November 1-11. The only comparable statistics which are available is a report from University College on advisement during the 1975-76 academic year. In that report their advisors saw a total of 4,790 students (including "no shows"). Of course, their sessions are much longer and dictated by appointments.

During the first few months of this operation, the staff was seeing up to 458 students in one week. Needless to say, little advising was being done and students were merely being checked for their schedules. Since that time, new students and transfers have been encouraged to seek advisement throughout the summer. The average number of students seen now is about 140 students each week. These students can spend more time with an advisor (20 to 30 minutes) and have a more quality advisement session. Peak periods have occurred during registration, pre-registration periods and throughout the summer months due to continuous registration.

All students are seen on a walk-in basis. The student appears to prefer this system because questions can be answered immediately. There are peak periods, during the day which coincide with classes and students may have to wait a few minutes before seeing an advisor. If the student has a lengthy problem then he/she is told to return at a less busy time so that more time can be allotted. Advisement sessions last from a few minutes to an hour depending on the intensity of the advisement. Students do return to the center for additional assistance during the year.

Staff Change

One staff member resigned during the year to move to another location in the state. Frances Greengrass resigned in April 1977 and Ann Koval replaced her in July 1977.

Future Activities

What lies ahead for the center is essentially more of the same; seeing incoming freshmen and transfer students and participating in additional research projects. Every effort will be made to hold quality advisement sessions with each student, provided students seek advisement during the entire summer months. Also, the staff will be picking up pre-med, pre-dentistry and pre-veterinary medicine advisement and some attention will be given to improve the contacts with these students.

As for projects, the staff will be involved in the following:

(1) follow-up study of 1970 A&S graduates, (2) continued research on study habits, (3) study of time distribution of classes, (4) continued research on A&S graduates, (5) proposed career fair, (6) closer work with faculty on study behaviors of students, and (7) survey of students who are advised.

APPENDIX A

Number of Students Seen by A&S Center Each Month

July 1976	732
August	775
September	237
October	239
November	640 plus 3,150 Request Cards
December	151
January 1977	622
February	181
March	293
April	899
May	709
June	659
 TOTAL	 6,137 plus 3,150 Request Cards

The Report of the Department of American Studies
July 1, 1976 - June 30, 1977
Sam B. Girgus, Chairman

The past year was one of meaningful achievements involving continued publication by both faculty and students; the appointment of Hamlin Hill as both Professor of English and American Studies; the award of Fulbrights to two of our graduate students; the development and implementation of curriculum and course review procedures; the increased emphasis on truly interdisciplinary and inter-departmental committees at all levels of each graduate student's program; the increased involvement of noted experts and scholars from the entire university as active chairpersons of committees and as resource scholars for our graduate students; the encouragement of programs of study reflecting the cultural diversity of this region; the encouragement of student initiative in the formation of creative programs of study based upon in-depth understanding and knowledge of the scholarship of several disciplines and the meaningful methodological synthesis of these disciplines; and the continued support of regional studies and cultural pluralism through such things as the teaching on the Navajo reservation at Rough Rock, Arizona and approving a new course on the Native American in Popular Culture.

Six dissertations were completed and approved in the time covered by this report:

Diana Amsden	PILTDOWN II: LESLIE WHITE'S THEORY OF CULTURAL EVOLUTION (Richard A. Anderson, Director)
Marion Rachel Dickens	THE INFLUENCE OF THE POSITION OF WOMEN IN THE SOCIETY ON THE DEVELOPMENT OF NURSING AS A PROFESSION IN AMERICA (Charles Biebel, Director)
Gordon Query Freeman	CLIMBING THE RACIAL MOUNTAIN: THE FOLK ELEMENT IN THE WORKS OF THREE BLACK WRITERS (Robert Fleming, Director)
Wallace Hedges	THE AMERICAN DREAM AND THE UNWANTED CHILD (Charles Biebel, Director)
Shelby Smith-Sanclare	THE DETERMINATION OF LAND USE INFORMATION NEEDS IN AN ARID REGION: A CASE STUDY OF THE STATE OF NEW MEXICO (Richard A. Anderson, Director)
Peter Stephan	COMPARATIVE VALUE SYSTEMS IN THE FICTION OF CONSTANCE FENIMORE WOOLSON (George Arms, Director)

The American Studies Committee assisted in determining the future and the direction of doctoral study in this department. It approved extensive guidelines for the comprehensive essay, proposed by the chairman. George Arms, Gail Baker, Ernest Baughman, Robert Campbell, Sanford Cohen, Douglas George, Hamlin Hill, Joel Jones, Harold Lavender, Harold Rhodes, Ferenc Szasz, Anne Taylor and Marta Weigle continued their service on the committee. Anita Alvarado resigned from the group while Daniel Slate, Robert Fleming, Ira Jaffe and M. Jane Slaughter were newly appointed. Doctoral students Susan Kilgore and Edward Mahoney were elected in the spring by the

American Studies Organization to serve as student representatives on this committee.

To enhance its course offerings for the undergraduate minor, the American Studies Department proposed and received approval for six new courses: "Albuquerque in Cultural Context," "The American Dream," "The Frontier in American Thought," "Immigrant Women," "Internship" and "The Jewish Experience in the United States."

New doctoral students whose previous academic concentrations were not in American Studies were given an introduction to the field in a fall seminar team-taught by the three core faculty members: Sam Girgus, Helen Bannan and Charles Biebel.

Helen Bannan began her second year in the department with work on a program held for Vietnamese refugees at the University of Albuquerque that was sponsored by the New Mexico Humanities Council. In the program she was involved with producing a slide-lecture and participating on a panel of humanities scholars. Dr. Bannan continued to serve as the American Studies undergraduate minor advisor. At Dr. Girgus's suggestion, she planned and developed new undergraduate courses for the coming academic year on "The Frontier in American Thought," "Immigrant Women," and "The American Dream," along with a graduate seminar, "Interdisciplinary Feminist Research." She was active on the Native American Studies Advisory Board and the Women Studies Committee as well as the American Studies Policy and Standards Committee. She also continues to serve as second vice-president

of the Rocky Mountain American Studies Association. Her review of D'Arcy McNickle's The Surrounded was published in "Excavations New America: A Review, volume II, number 3, spring 1977. Dr. Bannan was selected to attend a Modern Language Association Conference on Native American Literature in Flagstaff, Arizona this June.

Charles Biebel pursued further work on the topic of human dimensions of rapid growth in Albuquerque. Funded by the New Mexico Humanities Council, he wrote and helped produce a one hour color film documentary, "At the Edge of the Dream," scheduled for telecast this summer on KNME-TV. Bill Baurecht, a doctoral student, was the assistant producer. At the chairman's suggestion Dr. Biebel also proposed a new course, "Albuquerque in Cultural Context," which he will teach in the fall. In spring 1977, he taught a graduate seminar with Douglas George, "American Art in Context." The Faculty Research Allocations Committee awarded Dr. Biebel a grant for summer research at New York and Harvard Universities on the politics of recent educational planning and social change. He also has been involved with the Sandia Colloquium (June, 1976) and Albuquerque Urban Consultation (November, 1976). On campus, he is a member of the Continuing Education Committee, Native American Studies Advisory Committee, and he is faculty advisor to New America: A Review.

Sam Girgus, in his second year as chairman and associate professor, was awarded tenure. With a grant-in-aid from the

university's Research Allocations Committee, he completed work on his book, The Law of the Heart: The Perverted Self in American Literature and Culture, which is currently under consideration by a university press. In the last year he produced three new essays to be included in the book: "The Law of the Heart: Freedom and the Perverted Self in America," "Beyond the Diver Complex: Toward a 'New' Individualism in F. Scott Fitzgerald," and "William James Today: Radical Individualism in the Post Modern Age." Dr. Girgus also collaborated in editing The Issue in Honor of George Arms of American Literary Realism 1870-1910, number 10, Autumn 1977, with Hamlin Hill and Joel Jones. Dr. Girgus contributed an article, "Years of His Youth: On George Arms and the Radicalism of Elms," to that special issue. The Thoreau Journal Quarterly has accepted his essay, "Twain and Thoreau: Government and the Radical Conscience," for its October, 1977 issue, and his article entitled "Conscience in Connecticut: Civilization and Its Discontents in Twain's Camelot," will appear in The New England Quarterly in 1978. Another article has recently been accepted by The Midwest Quarterly for publication. In addition to his work as an administrator and teacher on this campus, Dr. Girgus was a teacher-consultant last fall at the Rough Rock, Arizona demonstration school as part of the university's Field-Based Navajo Teacher Educational Development Project. He served as chairman of the College of Arts and Sciences Ad Hoc Committee to Plan a Freshman Course on the Humanities, and he also was a member of the

Speakers Committee, Associated Students of the University of New Mexico. In addition to suggesting several courses, he is planning and developing a new course, "The Jewish Experience in the United States," for the spring of 1978. This spring he taught a graduate seminar focusing on the work of Whitman and James. He also appointed members of the new Committee on Policy and Standards.

Gail Baker was on leave for the 1976-77 year. Traveling in the mid-Atlantic states, New England and Canada, she read her paper, "The Feminist Consciousness of Margaret Fuller," at the Houghton Library in Cambridge, Massachusetts. She also did research in the Schlesinger Library and Smith College archives.

Joel Jones published an impressive article, "The Presence of the Past in the Heartland: Raintree County Revisited," in MidAmerica IV, 1977, and he continued to serve as Assistant to the Provost.

1976-77 was Harold Lavender's last year of service to the University of New Mexico. In a joint appointment position, he developed and taught a topics course, "Town and Gown," for American Studies in the fall. He retired in June to Aztec, New Mexico.

In a new joint appointment as Professor of English and American Studies, Hamlin Hill will continue to work closely with American Studies doctoral students. His 100,000 word book on American humor, co-authored with Walter Blair, will

be published by Oxford University Press. He also has received two seminar grants from the National Endowment for the Humanities.

Students in American Studies continue to benefit from the expertise of visiting scholars. In June two distinguished authors and teachers arrived to teach graduate seminars for the summer session. Leonard Kriegel, Professor of English and American Studies at the City College of New York, is teaching "Masculinity in American Culture," a topic related to his current research on a Guggenheim grant. "Visual Media in America," a two week workshop, is being taught by Robert Sklar, a film and video critic who has been working on a Rockefeller Foundation Fellowship and who will chair the Department of Cinema Studies at New York University. Both Dr. Kriegel and Dr. Sklar had come here during the winter as guest lecturers.

This spring American Studies was singularly honored by the awarding of two Fulbright-Hays Junior Lectureships to its doctoral candidates. Harriet Bloom will lecture on American Studies at the University of Dijon, France. Her classes will focus on popular culture and the ideology of success after the civil war. She will continue her work on museum studies and the relationship of cultural institutions to popular values in European libraries and museums. James Robertson was given a position at the University of Barcelona where he also will teach American Studies courses, one of them on the

western movement. Mr. Robertson has been establishing a considerable publication record. At the Western Literature Association Conference in Bellingham, Washington, he read his paper, "Henry Adams, Wallace Stegner, and the Search for a Sense of Place in the West," which was later published in The Western Experience in American Literature. His article on Stephen Crane has been accepted by Western American Literature for publication in 1978. He has written "Photography in the Southwest to 1912: An Annotated Bibliography," which will appear in New America: A Review, volume III, number 1.

The above-mentioned issue of New America, entitled "Photographs of the Southwest, 1879-1977," edited by Mr. Robertson and Richard Wilson, marks another innovation in the history of this periodical produced by American Studies graduate students. A grant from the New Mexico Arts Commission and a grant from the Graduate Student Association support the magazine, whose reputation continues to grow. A southwestern regional issue is forthcoming.

At the invitation of F. David Mathews, Secretary of the Department of Health, Education and Welfare, Sherry Magill attended a conference on the future of higher education in Washington, D.C., which included a workshop with Margaret Mead. Working with Sam Girgus and Hamlin Hill, Marilyn Hoder-Salmon researched "A Checklist of the Writings of George Arms" for the special issue of American Literary Realism in Dr. Arms's honor. A University of Miami journal, The Carrel, accepted

her article, "The Mary McDougal and Ivar Axelson Papers," for publication in volume XVII, 1976. Her work entitled "Myrtle Archer McDougal: Leader of Oklahoma's 'Timid Sisters'" will appear in a forthcoming issue of The Chronicles of Oklahoma. At the December, 1976 conference of the Modern Language Association in New York City, Geary Hobson and Leslie Silko gave a paper, "The Rise of the White Shaman as a New Version of Cultural Imperialism." Mr. Hobson was guest editor of the Special Native American Issue of New America, volume II, number 3, summer and fall, 1976. His story, "An Attitude of Dignity," and an article about Native American writing at the University of New Mexico appeared in that issue. In fall, 1976, he published poetry in La Confluencia and Sun Tracks, as well as a short story, "The C.O.," in A: A Journal of Contemporary Literature. Mr. Hobson and Catherine Stetson gave a joint poetry reading in September, 1976 at the Contemporary Arts Center in Albuquerque. Along with William McGlothing they are having work published in Southwest: A Contemporary Anthology which will be released this summer. Ms. Stetson's poem, "New Dress," was in the Special Native American Issue of New America. Michel Pillet accepted a position as Director of Arts and Architecture at the University of Southwestern Louisiana and hopes to continue doctoral work while he is there. Pauline Eisenstadt, on leave to serve as executive director of Energy Consumers of New Mexico, Inc., will give her paper, "Corrales, New Mexico," at the community studies session of the American

Studies Association biennial meeting in October, 1977. Patricia D'Andrea was selected to attend the Modern Language Association seminar on Native American literature this summer in Flagstaff. At the department's recommendation her Title VII Fellowship for Bilingual and Multicultural Education was renewed. She continues as co-editor of the bilingual multicultural magazine La Confluencia. As a consultant to the New Mexico Council for Community Mental Health Services, she is writing a position paper outlining the status of mental health services in New Mexico, to be presented to the President's Commission on Mental Health.

The Report of the Department of Anthropology

July 1, 1976 - June 30, 1977

Peter Workman, Chairman

I. General Departmental Information

A. Significant achievements during the academic year, 1976-77

1) Field School - During the summer of 1976, the 45th Annual Field School in Archeology completed its sixth and final season of excavation at Tijeras Pueblo, a 14th century Anasazi village in Tijeras Canyon, New Mexico. The field session began on 7 June and ended on 23 July. Thirty-five students from various colleges and universities in the U.S., including U.N.M. participated in the program. Five graduate students from the Department worked as staff. Professor Linda Cordell was field director. The teaching program included 35 hours/week in the field, 6 hours/week in supervised teaching and analysis labs, and 3 hours/week of formal lecture. In addition, five weekend tours to various New Mexico archeological sites were given on weekends.

Over the past 6 years, research at Tijeras Pueblo has been directed toward exploring the relationship among resource availability and population fluctuations. The research focus demands that population dynamics at the site be monitored independently of paleoenvironmental data reflecting resource abundance. Our approach to determining population dynamics has been to delimit the size of Tijeras Pueblo (taking into consideration the size, number and probable function of rooms) at different times during its occupational history. During the 1976 season, our efforts were directed toward determining the size and configuration of the site during its first phase of occupation, and obtaining stratigraphic samples which were deposited during the first phase of occupation.

Excavation was carried out both in the main mound and in an initial

phase outlier. Our goals were met by this strategy. Tijeras Pueblo was first constructed in A.D. 1313 (tree-ring dates), and at that time, the village consisted of five room blocks around a plaza and a great kiva. The village was oriented to the north. Sometime shortly prior to A.D. 1390 about half the population left the site and the village was reorganized into a rectangular configuration of rooms open to the east. Final abandonment of the village occurred about A.D. 1425. Preliminary analysis of the faunal remains, carried out during the field season and throughout fall and spring semesters, indicate that the decrease in size of the site may correlate with high rainfall, abundant rabbits, and a short growing season. Dendroclimatological reconstruction currently in progress at the Geochronology Lab at the University of Arizona should help to confirm this. Corn from the site, being analyzed by Richard I. Ford at the Museum of Anthropology, University of Michigan, shows a decrease in size and a decrease in variability during the occupational history of the site.

In addition to the field work, a 15 minute color film, "The Excavation of Tijeras Pueblo", was made through a cooperative agreement between the U.S. Forest Service and the UNM Photo Service. The film has been shown throughout the western U.S. (by the Forest Service). Field reports of the work at Tijeras have been filed with the Forest Service and publication of these is expected in June. In addition, the research at Tijeras has resulted in an article to appear in American Antiquity this summer, a paper presented at the Annual SAA meetings in New Orleans in April and a paper submitted to Science.

2) Evening Program - The evening program initiated during the prior year continued with the following course offerings and enrollment.

<u>Course Number & Name</u>	<u>Semester</u>	<u>Professor</u>	<u>Enrollment</u>
120-003, Prin. of Arch.	Fall	Straus	36
309-001, Comp. Stu. Socialization	Fall	Draper	73
331-001, Biol. Behav. Primates	Fall	Froehlich	40
337-001, Cult. Chng. SW HSpan.	Fall	Alvarado	32
130-001, Cultures of World	Spring	Alvarado	62
338-001, Indian Cult. SW Modrn	Spring	Alvarado	38
341-001, Basis of Sex Roles	Spring	Draper	
		Harpending	50
345-001, Sp. Speaking Peoples SW	Spring	Alvarado	26
382-001, Middle Am. Ethnology	Spring	Schwerin	18
430-002, Law & Culture & Society	Spring	Kiefer	8

3) Resignation of Chairman - Due to the inability of the chairman to cope with administrative inefficiency and misguided academic policy from on high, the chairman, Peter Workman, resigned effective the end of the spring term, 1977. Professor Philip Bock will assume the chairmanship after that date.

4) Graduate Program and Number of Degrees - Relevant data on our graduate program is summarized below.

Registration data - Fall 76

95 registered, 47 female, 48 male, 32 new students
69 Masters, 15 post MA, 11 Candidates

Spring 77

99 registered, 52 female, 47 male, 4 new students
71 Masters, 13 post MA, 15 Candidates

Degrees Awarded -

Summer 76--2 MA's (2 Arch.), 1 Ph.D. (Bio.)

Fall 76--9 MA's (2 Bio., 3 Arch., 4 Ethnol.); no Ph.D.

Spring 77--7 MA's (1 Ethnol., 3 Arch., 3 Bio.);

3 Ph.D's (1 Arch., 1 Ethnol., 1 Ling.)

Expected Summer 77--5-6 MA's, 2-3 Ph.D.'s

Students in Terminal MA program--13

Terminal MA's awarded--4

Number of Students in Each Subdiscipline as of Spring 77

	<u>MA</u>	<u>Post-MA</u>	<u>Ph.D. Cand.</u>
Archeology (44)	25	8	11
Ethnology (37)	22	5	10

Linguistics (4)	2	1	1
Biological (16)	12	2	2

Application Figures -

Spring 77--14 applicants, 7 accepted (one readmit, one transfer)
 Fall 77--194 applications received, 129 completed, 35 accepted, 89 rejected, 10 declined.

Financial Aid data -

Fall 76

Research Assistants (OCA)--4
 Graduate Assistants--15
 Work-Study (Department)--4 (Museum)--1
 Research Assistants on NSF Grant in Africa--2
 NSF Fellowship--1
 Harvey Fellowship--1

Spring 77

Research Assistants (OCA)--3
 Graduate Assistants--14
 Work-Study (Department)--5 (Museum)--1
 Research Assistants on NSF Grant in Africa--2
 NSF Fellowship--1
 Harvey Fellowship--1

5) Harvey Lecture Series - The continuation of the Harvey Lecture Series was very successful during the past year. There were eleven visiting lecturers during the Fall and Spring semesters. Each delivered a free public lecture which was followed the next day by a question and answer colloquium. All participated in at least one class and held meetings with department professors and graduate students. Each lecturer was the honored guest at a social gathering held by one of the department faculty members.

Total expenditures of the Harvey Lecture Series donation were \$15,244.91, leaving a balance of \$28,614.91. Using the figure of \$1,000.00 expense per visiting lecturer, there are enough funds remaining for at least 28 additional lecturers.

TABLE 1.

Anthropology Colloquy, Guest Lectures and Harvey Lectures

1976-77

Colloquy

Mark Harlan	Valley of the (Prehistoric) Dolls
Larry Gorbet	Young Pidgins Should Be Seen and Not Heard: Doing Sociolinguistics Manually
Charles di Peso	Casas Grandes Research
Jeffrey Froehlich	Familiarity Breeds Tolerance in Panamanian Howler Monkeys
Spencer Lucas	Formation of the Fossil Record
Steven LeBlanc	Mimbres Research
James Ebert	Botswana Bushmen
Gerald Slavin	International Programs and Fellowships-UNM
Lawrence Straus	Recent Archeological Fieldwork in N. Spain
Bill Douglas	Anthropologists in Bureauracracies

Guest Lectures

Jean Phillipe Rigaud, Director of Prehistoric Antiquities for Aquitaine	Geographical Patterning Assemblage Variances Among Middle and Upper Paleolithic Dordogne
---	---

Harvey Lectures

- | | |
|---|--|
| David M. Schneider, University of Chicago | The Fallacy of the 'Kin-based' Society and the 'Idiom of Kinship' |
| Richard N. Adams, University of Texas at Austin | Some Anthropological Observations on the Future of Mankind |
| William T. Sanders, Pennsylvania State University | The Ecosystem of Classic Teotihuacan |
| Robin Fox, Rutgers University | The Evolution of Mind: An Anthropological Approach |
| Richard S. MacNeish, Peabody Foundation for Archeology | Earliest Man in the New World |
| Rudolfo Stavenhagen, Center for Sociological Studies of the Colegio de Mexico | Social Anthropology in Mexico |
| Albert Spaulding, University of California, Santa Barbara | Growth and Form in Archeology: Multivariate Analysis |
| Clifford Jolly, New York University | The New Primatology |
| Glynn Ll. Isaac, University of California, Berkeley | Food Sharing and Human Evolution: Archaeological Evidence from Plio-Pleistocene of East Africa |
| Vorsila Bohrer, Paleo-Indian Institute at Eastern New Mexico University | West African Dietary Elements as Relicts of Hominid Evolution |
| David Maybury-Lewis, Harvard University | Anthropological Understanding |
| Clifford Geertz, Institute for Advanced Study, Princeton | Toward an Ethnography of the Disciplines |

Chaco Center

Annual Report, Academic Year 1976-1977

(Report prepared by W. James Judge, Chief, Chaco Center)

The Chaco Center, a National Park Service supported research facility working in cooperation with the University of New Mexico, continued archeological and environmental studies in and around Chaco Canyon National Monument.

During winter months, analysis and interpretation of data from survey and excavation in Chaco Canyon progressed. The summer was devoted to initial testing of Pueblo Alto, one of the large major ruins in the area. Environmental studies accomplished concurrently include geological, palynological, vegetative, and paleoclimatic. A study of the Chacoan "satellite" communities and their relationship to Chaco Canyon was initiated and preliminary report is being edited. Remote sensing techniques were employed extensively in a variety of programs related to Chaco research.

Reports on the Navajo occupation of Chaco Canyon, and on Sampling in Archeological Survey were completed and submitted to Washington for publication. Twelve "in-house" reports have been completed and will be reproduced for distribution. A manuscript on the Stone Circles of Chaco Canyon has been completed and is being edited.

Staff members participated in numerous meetings, symposia, and conferences. Several papers presented at such meetings are being published. The Chaco Center hosted a conference on archeology of the San Juan Basin and is serving as a clearing house for archeological research in the area.

Personnel consisted of 11 permanent National Park Service employees, 10 part-time laboratory and analytical technicians, 13 seasonal field archeologists, and 8 Navajo laborers. Seven of the permanent staff attended the

University of New Mexico at some time during their academic careers; eight of the temporary staff are presently enrolled in the University.

Drs. Lister and Judge offered a seminar in Analytical Methods in Archeology which was taken by 12 students. In addition, Judge offered individual study courses to 13 students on various aspects of Chacoan and Chaco-related anthropological research.

Cooperative research programs were accomplished, or are continuing, with the University of New Mexico departments of Biology, Geology, and Anthropology (Office of Contract Archeology), and with the Technology Application Center. Joint research programs also were conducted with other National Park Service divisions, with the U.S. Forest Service, the U.S. Geological Survey, the New Mexico Archeological Society, and several private research foundations.

The Remote Sensing division, in addition to its chartered applications research, published two volumes of reports on past work in archeology, sent three manuscripts to the Government Printing Office for preparation, and is currently preparing six more reports. Experiments in multispectral scanning, terrestrial photogrammetry, thermal infrared scanning, map contour interpretation, and other applications to anthropology are continuing.

W. James Judge

The Report of the Maxwell Museum of Anthropology
Department of Anthropology
July 1, 1976 - June 30, 1977
J.J. Brody, Director

I. Significant achievements during fiscal 1976-77.

A. Research and Instruction:

Ten classes met at the museum, five on a regular basis and the others occasionally for the purpose of using non-exhibited collections materials. An unknown number of UNM classes were assigned to visit and report on museum exhibits and at least eight students used the museum as a teaching laboratory on an independent studies basis. Several dozen undergraduate and graduate student papers were based on museum exhibitions including two that were prepared at the request of instructors. One dissertation, one thesis, and at least nine other student research projects based on museum collections were in progress or completed.

Other scholarly activities included analysis and other services done for the UNM Field School in Archaeology, the Mimbres Foundation, Sandia Laboratories, Los Alamos Scientific Laboratories, and the Bernalillo County Medical Examiner. At least 25 scholars including some not affiliated with UNM made use of our collections in the preparation of articles, monographs and books.

The character and success of these activities represents a significant breakthrough in the utilization pattern of the museum as an instructional and research resource.

B. Public service:

Utilization of the museum by the Albuquerque Public Schools more than doubled over the previous year indicating a complete recovery from the disastrous experiences of 1975-76. Total attendance rose to about 50,000 an increase attributed both to the revitalized school program, and to the installation of several handsome and informative exhibits after mid-year.

Among several outreach programs was installation of a semi-permanent mini-museum at the Galeria in space donated by the First National Bank of Albuquerque. Costs and labor were largely absorbed by the Museum Association. A travelling exhibit was developed for the Office of Admissions to promote student recruitment and we also had an exhibit at the State Fair. One third of the renovations of our "permanent" exhibits will be completed in August, 1977.

II. Significant plans and recommendations for the near future.

A. Research and instruction:

An increase of research and instructional activity is anticipated after appointment of a Chief Curator who

will also be a member of the faculty. If things go as anticipated, by 1979-80 there will be need for additional laboratory and study facilities. The overload on the Physical Anthropology laboratory by its instructional activities has already reached a crisis point. These needs have been under discussion for more than a year and must be resolved during 1977-78, either by cutting back on instructional and research activities or by increasing facilities. Affiliation with the Mimbres Foundation will create additional opportunities for direct research and instructional activities under museum sponsorship while adding only moderately to space and collections management pressures. OCA and Chaco Center obligations have been deferred by having these agencies continue to store materials on their own premises. Additional warehouse space must be found to accomodate archaeological materials of these agencies.

Finally, transfer of data to the computer has been slowed significantly by lack of funds. Our success in increasing the scholarly use of collections is largely a function of our computer-dependant ability to control inventory.

B. Public service:

Renovation of "permanent" exhibits will continue

through 1977/78 and probably extend into 1979. Closer integration with APS is anticipated and plans are underway to bring all 4th grade children to the museum each year. It is anticipated that an increasing proportion of community service activities will be financed by the Museum Association and that these activities will increase in number and variety during coming years.

III. Activities of Museum Divisions:

A. Collections Management: About 75,000 lines of information were added to the computer file bringing the total to about 250,000. An additional 120,000 lines were prepared for keypunching but could not be added for lack of funds. 127 information retrievals were run including about 30 for use outside the museum. 1,353 items were added to the collection from 54 sources, 344 were borrowed from 36 sources for exhibitions and 252 items were loaned to 25 other institutions for exhibits.

B. Laboratory of Physical Anthropology: 135 human skeletons were added to the permanent collection and 40 others were placed on indefinite loan by the County Office of the Medical Examiner. Preparation activities created serious problems because of inadequate venting and plumbing of the laboratory and the museum had to close on several occasions because of noxious odors. The museum assigned a field osteologist to the archaeology field school for the first time with excellent instructional effect.

C. Division of Interpretation: Carol Stout resigned as Director of Interpretation about the middle of Semester II. The position was left open pending a decision to convert it to a joint Department/Museum slot with responsibility for facilitating integration of the two agencies.

Prior to her departure Dr. Stout completed work on two permanent exhibits to be completed in 1977-78. Molly Madden (Education Coordinator) supervised the docent program bringing it back to the 1975-76 levels of about 19,500 APS children guided by 20 trained volunteer docents. Ms. Madden developed mutually beneficial working relationships with a large number of APS personnel including classroom teachers, curriculum developers and administrators.

D. Exhibits Division: Three major and five minor temporary exhibits were installed in the museum, a mobile exhibit was built for the Admissions Office, two exhibits were installed in the Galeria mini-museum, one at the State Fair, and several others were made for other University entities including the School of Business Administration and the President's offices. Steady progress was made on two major permanent exhibits to be completed in August, 1977. The part-time photographer position was eliminated in November and Spencer Walaitis, the incumbent, resigned his other part-time post as Preparator at that time. He was replaced by Henry Yeaton for two months and then by William Buck.

E. Gift Shop: Sales for the year are currently about \$2,000 less than in 1976-77 and \$10,000 less than the projected figure. The first four months were bad

due to poor attendance resulting from a relatively unpopular exhibit that stayed too long. Parking remained another negative factor reflecting on attendance and sales to some unquantifiable degree. Fran Lusso resigned as Assistant Shop Manager in December and was replaced by Joseph Kastelic-Newman. The position will be terminated in the new fiscal year in an effort to improve the economic balance of the Shop. Beverly Barsook (Shop Manager) prepared an operational manual for internal use that was adopted by the Museum Store Association as a model.

F. Administration: Sally Black (Administrative Assistant) continued active in regional and national museological affairs that have helped make us nationally known. She is newsletter editor and a member of the Executive Board of the Maxwell Museum Association, the New Mexico Association of Museums, and the Mountain-Plains Museum Conference and is a candidate for a Board position on US ICOM (International Commission on Museums). She continued staff supervisory activities, public relations work and control over a rather complex budget.

J.J. Brody (Director) organized two major exhibitions taught one course in Native American Art, supervised one completed MA thesis and three others in progress, and supervised nine students working on

special problems in museology. He gave public lectures in Albuquerque and Silver City, served as an unpaid consultant to the Roswell Museum of Art, and visited seven other museums in the Southwest and at least two dozen private collections. He conducted negotiations with the Mimbres Foundation to arrange affiliation between that private research group and UNM that will bring a corpus of research materials related to that ancient Southwestern culture to the Maxwell Museum.

Publications:

Beverly Barsook (Gift Shop Manager) "Gift Shop Policy and Procedural Manual" (for internal use).

Sally Black (Administrative Assistant) "Staff Manual" (for internal use).

Peter Briggs (Assistant Registrar) "Art and Social Function: The Body Painting of Witota Women" accepted for publication in Apocrypha.

J.J. Brody (Director) (Addendum to Biographical Sheet updated from Dec. 1976 through June 1977.)

"Indian Art of the Northwest Coast: A dialogue on Craftsmanship and Aesthetics," by Bill Holm and Bill Reid. (Review), Museum News, vol. 55 No. 3, Jan.-Feb. 1977 pp. 49-50.

"Culture Change and Continuity: Essays in Honor of James Bennett Griffin," edited by Charles E. Cleland. (Review), Museum News, vol. 55, No. 4, March-April 1977 pp. 59-60.

"The Great Archaeologists," edited by Edward Bacon. (Review), Museum News, vol. 55, No. 4 March-April 1977 p. 62.

"The Future of Indian Art," American Indian Art, vol. 2, No. 2, Spring 1977 p. 24.

Stanley Rhine (Associate Curator) and Charles Sheldon (Work-Study) "On the Preservation of Osteological Materials," The Connective Tissue, vol. 3, No. 1.

Marian Rodee (Registrar) Southwestern Textiles in the Maxwell Museum, UNM Press, June, 1977 (scheduled).

Henry Walt (Research Assistant)

"Botanical Reference Collection for Southwestern Archaeologists," (for internal use).

"Testing of Physical Properties of Southwestern Archaeological Artifacts," (for internal use).

Papers Read:

C. Elliot Moore (Graduate Student) "Gunshot Wounds to the Head," Contributions to a Forensic Symposium, WSSA Meetings, April 1977.

Stanley Rhine (Associate Curator) "The Restoration of Facial Features as an Identification Technique." Paper presented at a Forensic Symposium at the WSSA Meetings, April 1977.

Charles S. Sheldon (Work-Study) "Preparation Techniques for Forensic Material," contributions to a Forensic Symposium, WSSA Meetings, April 1977.

Lois Weslowski (Work-Study) "The Popol Vuh: Poetic Metaphor, Symbolic Meaning." Paper given at American Society for Ethnohistory Meetings, Fall, 1976.

David Weaver (Work-Study)

"The Sexing of Infant Ilia." Paper presented to the AAPA meetings, April, 1977.

"The Sexing of Infant Skeletal Remains," contributions to a Forensic Symposium, WSSA Meetings, April 1977.

Meetings attended:

Sally Black (Administrative Assistant) "Legal Problems in Museums," (Scholarship) Seminar; N.Y., March 1977.

Peter Briggs (Assistant Registrar) Co-organizer of session

on Ethnohistory and Mesoamerican Texts 1976 Conference of American Society for Ethnohistory.

J.J. Brody (Director) Annual Meeting American Association of Museums, Washington, D.C., June 1976.

Marian Rodee (Registrar) Participant: Workshop Seminar on Legal and Ethical Aspects of Museum Registration, April, 1977.

Lois Weslowski (Work-Study) Participant: Summer Institute on Native American Cultures, Colgate University, Summer, 1977.

The Report of the Office of Contract Archeology

July 1, 1976 - June 30, 1977

Frank J. Broilo, Director

INTRODUCTION

Over the past year, the Office of Contract Archeology, Department of Anthropology, with fiscal and other support from the Administration, has significantly expanded its research and professional services in the State of New Mexico. Responding to the rapid emergence of federal and private energy-seeking and other land altering projects, the Office of Contract Archeology had provided a research capability pursuant to federal statutes and executive order. These pertain to the National goal of maintaining the long-term productivity of our archeological resource base and would include among others:

- a) National Historic Preservation Act of 1966 (80 Stat. 915)
- b) National Environmental Policy Act of 1969 (91 Stat. 852)
- c) Archeological and Historical Preservation Act of 1974 (88 Stat. 174)
- d) Executive Order 11593 (36 F.R. 8921, 16 U.S.C. 470)

Several major contracts were awarded during the July 1, 1976 to June 30, 1977 period in addition to the continuation of the large Cochiti project (see listing below). During FY 76-77, Jan Biella served as Project Director and Dick Chapman acted as Field Director during the brief field season and long report preparation phase. A write-up summarizing the analyses from the survey and excavation of the permanent flood control area was completed. Two reports will eventually be published by the Office of Contract Archeology during the summer of 1977. The first report was submitted in September, 1976 and a draft of the second was completed in March of 1977 and is currently under review by the National Park Service.

Under the final phase of the Cochiti project, Dick Chapman and Jan Biella have served as Research Associates under the Project Direction of John Broster. The testing, excavation, and analyses of some 20 sites containing 40 pro-

veniences is being completed. Research continues to focus upon the variations of cultural adaptations in the Cochiti White Rock Canyon area over time and their relations to regional development.

The inventory survey of the Yellowhouse Dam and Reservoir is now nearly complete. The first covered some 5,000 acres, while the amended second phase includes an additional 1,400 acres. Ros Hunter-Anderson, Project Director, reports that site density is extremely high in all areas except talus slopes. A final report will be submitted to the Bureau of Indian Affairs in mid-August 1977.

Continuing its close relationship with the Chaco Center, National Park Service, the Office of Contract Archeology was awarded two contracts to assist in the analysis and processing of specimens in the Chaco Center.

An additional award was the contract received from Utah International for professional consultation work for the preparation of a long range mitigation plan. Drafts are now being submitted to Utah International detailing the site selection strategies and research objectives to be formalized later in an official mitigation plan.

OTHER ACTIVITIES BY THE OFFICE OF CONTRACT ARCHEOLOGY

Over FY 76-77, the Office of Contract Archeology has continued its effort to integrate cultural resource management with academic anthropology. An exhibit is now being prepared for display within the Department of Anthropology to better explain the office's role in the field of archeology today.

A very successful program this year has been the integration of senior graduate students as Research Assistants in office operations. Stephen Fosberg has written numerous contract proposals, submitted project budgets, and is preparing a chapter on the geologic interpretations of survey results in the Yellowhouse project area to be included with the publication. Brona Simon wrote a paper of site catchment basin analysis for Anasazi sites within the

Cochiti area. David Eck has researched literature pertaining to the definition of archeological culture boundaries, has statistically analyzed the closeness of fit between survey and excavation data, and assisted in the preparation of maps for the final Cochiti report.

Personnel from the Office of Contract Archeology have spoken throughout the year to private clients, federal agencies, and the public on various topics relating to Cultural Resource Management. In addition, the professional staff has attended numerous professional archeological society meetings including the Society for American Archeology meeting in New Orleans, and Frank Broilo has served as the primary moderator of the New Mexico Archaeological Council sessions, which are conducted on a monthly basis.

Projects awarded are listed below; fiscal details are available from Contract and Grant Accounting. Principal Investigator for the following projects is Frank J. Broilo, Director.

<u>UNM Proposal No.</u>	<u>Contractor</u>	<u>Description</u>
101-127B	U.S. Army Corps of Engineers Administered by U.S. Park Service	Excavation: 20 Archeological sites
101-152	U.S. Dept. of Interior/B.I.A.	Survey: 5,000 acres
101-152A	U.S. Dept. of Interior/B.I.A.	Survey: 1,400 acres
101-134A	U.S. National Park Service	Processing and Analysis of specimens
101-134B	U.S. National Park Service	Processing and Analysis of specimens
185-1	Utah International, Inc.	Professional Consultation

During FY 1976-77, the Office of Contract Archeology's Small Project Program continued under the direction of Dr. David E. Stuart, Research and Projects Coordinator. Twelve projects were awarded during the fiscal year. Of these, seven are completed, with reports having been accepted by the respective Federal agencies. Five of these projects are still in progress, but are expected to be complete by mid-summer 1977. Approximately two-thirds of these projects

continue to be awarded by private concerns (coal companies, gas companies, etc.) the rest being awarded by various Federal agencies.

The research conducted in this series of smaller projects focused on the relationship between the placement of archeological sites and certain characteristics of topography. Initial results have been published by the Public Service Company of New Mexico in a monograph entitled An Archeological Survey of Public Service Company of New Mexico's 345 KV Transmission Line Right-of-Way: Four to Ambrosia Lake, New Mexico (Carroll, Marshall and Stuart 1976). In addition to this publication, the second number of Archeological Reports, Cultural Resource Management Projects is in preparation and will be available mid-1975 and continues under the editorship of Frank J. Broilo and David E. Stuart. The U.S. Army Corps of Engineers published the report of contract number DACW09-76-M1797 (Grigg, Carroll and Stuart 1976) under the title of An Archeological Survey: The U.S. Army Corps of Engineers' Rio Puerco Channelization Project at Gallup, New Mexico.

As in prior years, the Small Projects program was able to incorporate a number of advanced students into the projects to further their training and offer research opportunities not available through courses scheduled during the academic year.

Projects awarded are listed below; fiscal details are available from Contract and Grant Accounting.

<u>UNM Proposal No.</u>	<u>Contractor</u>	<u>Description</u>
101-103z	U.S. Army Corps of Engineers	Survey: Gallup Channelization
101-146	Southern Union Gas	Survey: 100 mile pipeline
101-147	Public Service Company of N.M.	Survey: 90 mile powerline
101-153	Sandia Laboratories	Survey: Kirtland AFB.
101-155	Anaconda Company	Survey: Laguna, N.M.
101-154	Dames & Moore	Survey: Jackpile Mine
101-170	Anaconda Company	Survey: Tailing Pond
185-2	Public Service Company of N.M.	Survey: Marquez Powerline
185-2A	Anaconda Company	Survey: Mining Facilities
185-3	Public Service Company of N.M.	Excavation: 3 Archeological sites

UNM Proposal No.ContractorDescription

185-2B

Public Service Company of N.M.

Survey: Gallegos Powerline

185-2C

KNME-TV

Survey: Receiver Sites

B. Significant Plans and Recommendations - The need for space for OCA, Archaeology and Biology teaching facilities, etc. dominate our future plans. Since the University has yet to work out adequate planning, the department programs remain in Limbo. Last year in the annual report I stressed the need for competent higher administration as a major factor in departmental planning. There is no need to repeat myself.

C. Appointments to staff

Thomas Kiefer, Visiting Assistant Professor of Anthropology.

Effective January 17, 1977 - May 13, 1977.

John Ellefsson, Adjunct Assistant Professor of Anthropology.

Effective April 20, 1977 - May 13, 1978.

D. Separations from staff

Carol Stout, Assistant Professor of Anthropology.

Effective May 13, 1977.

Mark Harlan, Assistant Professor of Anthropology.

Effective May 13, 1977.

II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS

1. Advanced study

Ortiz, Alfonso Study on the history of the stereotypes of American Indians at the Newberry Library in Chicago and the Princeton University Library

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

Barrett, Richard Summer research in Huesca, Spain, May 28-August 20, 1976

Bledsoe, Caroline Taught Summer 1976 at Stanford University: Sex Roles in Cross-Cultural Perspective

Bock, Philip K. Trip to Universidad Autonoma de Guadalajara, Jalisco, Mexico, to coordinate programs (November 1976)

Brody, J. J. Trip to Guadalajara, Mexico, on museum and University business, November 1976; one week field trip through southern New Mexico and Arizona to examine pottery collections; one week trip to Washington and New York to examine museum collections

Campbell, John M. Field research in Yukon Territory, Canada, and District of Franklin, Northwest Territories, Canada

Froehlich, Jeffery UNM Arts and Sciences summer research stipend for seven weeks of fieldwork in the Canal Zone, Panama, studying population structure, social dynamics and ecology of howler monkeys

Gorbet, Larry Travel to San Diego, California, for consultation with members of the UC San Diego Linguistics Dept. on Yuman languages and American Sign Language (May 19-June 5); visit to Gallaudet College Linguistics Research Lab, Washington, D.C. (June 13-July 31)

Harlan, Mark E. UNM Summer Session in Guadalajara, Mexico

Sabbaticals, etc., cont.

- | | |
|-------------------|---|
| Lamphere, Louise | Two week seminar, Sex Roles in Society, at University of Minnesota, May 17-29, 1976 |
| Ortiz, Alfonso | Course on history of Pueblo Southwest for members of the Oke Owinge Arts and Crafts Cooperative, San Juan Pueblo, July-August 1976 |
| Rhine, J. Stanley | Attended annual meetings of American Assoc. of Physical Anthropologists, St. Louis, Mo., April; attended board meetings and presentations of Western Social Science Assoc., Tempe, Arizona, April; visited Colorado State University Forensic Laboratory, Ft. Collins, Colorado, August |
| Straus, Lawrence | Travel to Spain, May-August; to St. Louis, Mo., in May; Tempe, Arizona, in October |
| Tainter, Joseph | Taught summer workshop on Pueblo architecture in conjunction with Professor Michel Pillet (Architecture. UNM) and Professor Bruce Tully (Miami University, Ohio) |
| Workman, Peter L. | Research on genetic and socio-economic problems in Finland, June 1976 in Helsinki, Finland |

3. New scholastic honors, fellowships, etc.

- | | |
|--------------------|--|
| Binford, Lewis | Invited address to the Annual Meeting of the Calgary Council, Calgary, Alberta |
| Bledsoe, Caroline | UNM Resource Allocation grant to work on a book |
| Draper, Patricia | Appointed Associate Editor of <u>American Ethnologist</u> |
| Froehlich, Jeffery | UNM Arts and Sciences summer research stipend for seven weeks of fieldwork in Canal Zone, Panama |
| Ortiz, Alfonso | Guggenheim Fellowship, 1975-76; Director's Fellow, Newberry Library, 1975-76; Distinguished Bicentennial Professor, University of Utah; Weatherhead Scholar in Residence, Navajo Community College; Mildred Cardozo Visiting Professorship in History, Yale (declined) |

New scholastic honors, etc., cont.

- Straus, Lawrence National Science Foundation grant (with G.A. Clark, ASU): La Riera Paleoeological Project; UNM Research Allocations Committee grant for survey in Asturias, Spain (declined)
- Weigle, Mary Martha Cultural Properties Review Committee, State of New Mexico, Award of Honor, presented on April 24, 1976; Honorable Mention, Chicago Folklore Prize for 1976

4. Publications

- Barrett, Richard "Functionalism", "Social Stratification", "Protestant Ethic", "Folk Culture", "Status to Contract", in Encyclopedia of Anthropology, Harper and Row, Pub., 1976
- Review of Urbanization and Inequality: The Political Economy of Urban and Rural Development in Latin America by Wayne A. Cornelius and Felicity M. Trueblood, eds., in Sociology: Reviews of New Books, Vol. 3, No. 7, May/June 1976
- Binford, Lewis "Forty-seven trips", in Contributions to Anthropology: The Interior Peoples of Northern Alaska, edited by Edwin S. Hall, Archaeological Survey of Canada, Paper #49, National Museum of Man Mercury Series, Ottawa, Canada
- "Nunamiut Demographic History: A Provocative Case", in Demographic Anthropology, edited by Ezra B.W. Zubrow, University of New Mexico Press, Albuquerque, pp. 63-144
- Review of Cherokee Archaeology and Cherokee Prehistory by Bennie C. Keel and Roy S. Dickens, in Journal of Anthropological Research, Vol. 32 No. 3, pp. 295-296
- Bledsoe, Caroline "Kpelle Women's Status and Power", Journal of Anthropological Research
- Bock, Philip Japanese translation of Modern Cultural Anthropology, Tokyo: Kodansha, Ltd. (2 vols.)
- Review of Urban Renegades by J. Guillemin, in Ethnohistory, Vol. 21, pp. 384-386
- "Transit" (poem) in Albireo Quarterly, Spring 1976

Publications, cont.

Brody, J. J.

Between Traditions (catalog), Iowa City:
University of Iowa Museum of Art, 1976

Review of American Indian Design and
Decoration, by LeRoy H. Appleton, in
Leonardo, Vol. 9, 1976, p. 162

Review of Man and God in Art and Ritual by
S. G. F. Brandon, in Museum News, Jan./Feb.
1976, pp. 64-65

Review of The Challenge of the Primitives by
Robin Clark and Geoffrey Hindle, in Museum
News, Jan./Feb. 1976, pp. 64-65

Review of Illusion in Nature and Art by
R. L. Gregory and E. H. Gombrich, in
Museum News, Jan./Feb. 1976, pp. 69-70

Review of The Codex Nuttall by Z. Nuttall,
in Museum News, March/April, pp. 61-62

Reviews of The Rape of the Nile by B. Fagan,
Crow Indian Medicine Bundles by W. Wildschutt,
Beads and Beadwork of the American Indian by
W. Orchard, The Art Crisis by B. Burnham, in
Museum News, July/August, p. 68

Reviews of Images for Eternity by R. Fanzini,
The Archaeology of North America by D. Snow,
in Museum News, Sept./Oct., pp 56 and 58

Reviews of The Potter's Challenge by B. Leach,
Artists and Their Public by N. Abercrombie, in
Museum News, Nov./Dec., pp. 678 and 70

Campbell, John M.

"The Nature of Nunamiut Archaeology," in
Archaeological Survey of Canada, Paper No. 49,
pp.1-51

"Effects of Late Prehistoric and Early Historic
Eskimo Hunting of Dall Sheep in North Alaska:
Examples of Aboriginal Overkill," in Proceedings
of the Biennial Symposium of the Northern Wild
Sheep Council, pp. 108-126, Helena, Mont., 1976.

"The Soviet-American Siberian Expedition," Arctic,
Vol. 29 No. 1, pp. 3-6

Publications, cont.

Cordell, Linda

"Excavation of a Site," in Encyclopedia of Anthropology edited by David Hunter and Phillip Whitten, Harper and Row, pp. 159-160

"Types and Modes of Artifacts" in Encyclopedia of Anthropology, p. 395

"The Folsom Site in Retrospect," in 1976 Yearbook, New Mexico Geological Society, New Mexico Press, pp. 83-86

Froehlich, Jeffery

"The Quantitative Genetics of Fingerprints," in The Measures of Man edited by Giles and Friedlaender, Cambridge: Peabody Museum Press, pp. 260-320

"Final Report: Paleontological Resource Assessment of 500,000 Acres in the Rio Puerco Grazing EIS Area of New Mexico," submitted to Bureau of Land Management, Albuquerque

Gorbet, Larry

"The Interlude Revisited: Some Problems in Syllabic Phonology," Papers in Linguistics, 1975, Vol. 8 No. 1-2, pp. 143-163

"Diegueno Case Marking: Conditions on Optionality," in Proceedings of the First Yuman Languages Workshop, University Museum Series, No. 7, Carbondale: Southern Illinois University

Harlan, Mark E.

"Research Orientation and Data Presentation in Maya Archaeology," Reviews in Anthropology, Vol. 3 No. 4, July/August 1976

Harpending, Henry

Review of The Peoples of Africa by J. Hiernaux in Science 19:461-462

"Cross-Spectral Analysis of Rainfall and Birth Rate," with L. Jorde, Journal of Human Evolution 5, 129-138

"Genetic and Demographic Variation in !Kung Populations," in Kalahari Hunter-Gatherers, Harvard University Press

Judge, W. James

"Paleo-Indian Period Adaptations in the Plains and Intermontane West," Colloque IV, IX Congrès, Union Internationale des Sciences Préhistoriques et Protohistoriques, Nice, France, pp. 45-67

Publications, cont.

Judge, cont.

Review of A Pleistocene Hunting Society by Wilmsen, Edwin and Lindenmeier, in American Anthropologist, Vol. 78:1, pp. 191-92

Lamphere, Louise

"Navajos and Anthropologists: Forty Years of Community Research," for book on Theoretical and Methodological Implications of Long-Term Field Research in Social Anthropology edited by Foster, Colson, Scudder and Kemper (in press)

"Anthropology," review article of 1975 publications on women's roles by anthropologists SINNS: Journal of Women in Culture and Society, Vol. 2 no. 3 (in press)

Ortiz, Alfonso

"Concerns Central to the Writing of Indian History" and "The Role of Tradition in Shaping Modern Indian Life," essays in press

Reviews in American Antiquity, American Indian Quarterly and New Mexico Historical Review

Article on Wounded Knee in SIE*ER (Swiss weekly newsmagazine)

Rhine, J. Stanley

Entries in Encyclopedia of Anthropology, Harper and Row

Review of Living Prehistory by S.S. and T.W. McKern, in American Journal of Physical Anthropology, Vol. 44:382-384

Rushforth, E. Scott

"Country Food" in Dene Nation, The Colony Within edited by Melvin Watkins, Toronto: University of Toronto Press, pp. 32-46

Review of A Bibliography of the Athapaskan Languages by R.T. Parr and review of Native Peoples and Languages of Alaska by M. E. Krauss, in American Anthropologist 78:3, pp. 616-17 and 697

Schwerin, Karl

"A New Cactus Species and Two New Varieties from New Mexico," with E.F. Castetter and Prince Pierce, in Cactus and Succulent Journal, Vol. 48, pp. 77-82

"A New Mammillaria heyderi Variety," with Castetter and Pierce in Cactus and Succulent Journal, Vol. 48 No. 3, pp. 138-139

Publications, cont.

Sebring, James

Reviews of Contributions to the Anthropology of Nepal edited by C. von Fürer-Haimendorf and Pastoralists and Nomads in South Asia edited by L. S. Leshnik and G. Sontheim, in Journal of the American Oriental Society, Vol. 96 No. 2, pp. 334-36 and in press

Spolsky, Bernard

1975 (not included in last year's report)

"Concluding Statement," Language Testing Symposium, March 13-14, Testing Language Proficiency, pp. 139-143

"Curriculum Utilization and Adaptation; Assessment--Discussion," Proceedings of the Second National Conference of EPDA Bilingual Education Project Directors, Washington, D.C.: Center for Applied Linguistics

"Prospects for the Survival of the Navajo Language," Linguistics and Anthropology edited by M. Dale Kinkade, Kenneth L. Hale and Oswald Werner, Lisse: The Peter de Ridder Press

"Linguistics in Practice: The Navajo Reading Study," Theory Into Practice, Vol. XV No. 5, pp. 347-52

"Disadvantaged Students in Graduate Study," Proceedings of the Fifteenth Annual Meeting of the Council of Graduate Schools in the United States, Atlanta, Georgia, December 1-3, 1975, pp. 166-67

"Bilingualism, Nationalism, and the new Ethnicity," Report of the Meeting, Sub-Regional Conference on Bilingual Education, Noumea: South Pacific Commission

Review of "Teaching Culture: Strategy for Foreign Language Educators," by H. Ned Seelye in TESOL Quarterly, Vol. 9 No. 4, pp. 431-32

1976

"Socioeconomic Implications of Bilingual Education on the Navajo Reservation," in The Bilingual Child edited by Antonio Simoes, Jr., New York: Academic Press, pp. 113-41

Publications, cont.

Spolsky (cont.)

"Innovations and Developments: Off-Campus Graduate Programs at the University of New Mexico," Proceedings of the 18th Annual Meeting of the Western Association of Graduate Schools, edited by Richard D. Moe, Tacoma: Pacific Lutheran Press, pp. 77-79

"A Model for the Description, Analysis, and perhaps Evaluation of Bilingual Education," in Language in Society edited by A. Verdoodt and R. Kjolseth, Institut de Linguistique de Louvain, Louvain: Editions Peeters, pp. 233-63

"Linguistics in Practice: The Navajo Reading Study Program," BIA Education Research Bulletin, Vol. 4 No. 3, pp. 1-10 (reprint)

"Warning--CAL May Be Hazardous to the Profession," TESOL Newsletter, Vol. X No. 5, p. 2

Spuhler, J. N.

"Primate Phylogeny, Ecology, and Social Behavior," Journal of Anthropological Research 31:376-405

"The Maximum Opportunity for Natural Selection in Some Human Populations," in Demographic Anthropology: Quantitative Approaches edited by E. Zubrow, Albuquerque: University of New Mexico Press, pp. 185-226

Book Reviews and Notes in Journal of Anthropological Research 32: 102-108

"Continuities and Discontinuities in Anthropoid-Hominid Behavioral Evolution," Abstracts of the 75th Annual Meeting, American Anthropological Association, Washington, D.C., Nov. 17-21, p. 118

Stout, Carol

"East Meets West: Oriental and Navajo Floor Rugs," New Mexico Magazine, February 1976 (with Katina Simmons)

"Weavers of the Jade Needle," Fiberarts, Spring 1976

Review of Crafts of the North American Indians by Richard C. Schneider, Leonardo (submitted)

Publications, cont.

Straus, Lawrence

"Solutrense o Magdaleniense inferior cantábrico? Significado de las 'diferencias'"
Boletín del Instituto de Estudios Asturianos
 86:781-790

"El Solutrense de las cuevas del Castillo y Hornos de la Peña (Santander)", Trabajos de Prehistoria 32: 9-19

"A New Interpretation of the Cantabrian Solutrean," Current Anthropology 17:342-343

"Posible atribución al Solutrense de yacimiento de la Pasiega (Pte. Viesgo, Santander)," Ampurias 36: 217-223

Tainter, Joseph

Review of Archaeological Investigations at Molpa, San Diego County, California by D. L. True, C. W. Meighan and Harvey Crew, in American Antiquity 41:120-21.

"Spatial Organization and Social Patterning in the Kaloko Cemetery, North Kona, Hawaii," Archaeology and Physical Anthropology in Oceania, Vol. 11 No. 2, pp. 91-105

Weigle, Mary Martha

Brothers of Light, Brothers of Blood: The Penitentes of the Southwest, Albuquerque: University of New Mexico Press

A Penitente Bibliography, Albuquerque: University of New Mexico Press

The Annual Lightning Tree Southwestern Reader (comp.), Santa Fe: The Lightning Tree

Workman, Peter

"Population Structure of the Aland Islands," in Advances in Human Genetics, V, New York: Plenum Press

"The Genetic Structure of Finland," American Journal of Physical Anthropology 44:341-68

Review of The Role of Natural Selection in Human Evolution, in Annals-Human Biology (in press)

5. Other Research Projects or Creative Work in Progress

Alvarado, Anita

Completion of paper: "Autonomy & Legitimacy in Scientific and Ethno-Medical Systems," to be published

Research on status of ethnic minority nurses in the profession; paper completed and likely to be published by American Nurses' Association

Preparation of paper for World Health Organization on health provision for Border region

Preparation of papers on Medical Anthropology for two possible publications solicited

Barrett, Richard

Review of Family and Other Business Groups in Economic Development by Harry W. Strachan, in Sociology: Reviews of New Books

"Spain: Political Change Since Franco," (written with Robert Kern)

Ethnographic Field Research, Huesca, Spain: A study of an urban elite, summer 1976

"Evolution of Nicknaming Practices in Rural Spain"

Binford, Lewis

The Subsistence Ecology of Hunters and Gatherers Past and Present (ms. accepted for publication in 1978)

Bledsoe, Caroline

Book on Kpelle women and marriage, Liberia

Small research project on romance and the American bride, to be continued in 1977

Bock, Philip

Work on introduction to psychological anthropology to be published by W. H. Freeman, San Francisco

Continued work on Micmac case study and general work on formal theory of social structure

Brody, J. J.

"Mimbres Painting and the Northern Frontier," accepted for publication in Papers Honoring J. Charles Kelley

Organized museum exhibit "Mimbres Art and Culture," wrote catalog for same, to be published in 1977

Other research projects, etc., cont.

- Campbell, John M. Vertebrate population cycles and aboriginal human demography in Alaska and the Yukon
- Cordell, Linda The 1975 Excavation of Tijeras Pueblo, Cibola National Forest, New Mexico, USDA Forest Service Archeological Report (in press)
- "Late Anasazi Farming and Hunting Strategies: One Example of a Problem in Congruence," an invited paper to appear in a special volume of American Antiquity in honor of Albert G. Spaulding, in press
- Chapter on the Eastern Anasazi for the Handbook of North American Indians
- "Meat Utilization among Subsistence Horticulturalists," paper in preparation for the Society for American Archeology annual meeting, 1977
- Final report on the excavation of Tijeras Pueblo, in preparation for the USDA Forest Service
- Draper, Pat \$12,000 supplement to National Science Foundation grant: "Regional Studies of Kalahari Bushmen in Northeastern Botswana" (Co-principal investigator: Henry Harpending)
- "Responsibility and Obedience," article in progress for Handbook of Cross-Cultural Child Development
- Froehlich, Jeffery Continuing cooperative study of nutritional disorder in monkeys, V.A. supported--\$3500
- Continuing studies in Panama, partially supported by Smithsonian Institution, \$1200
- Continuing paleontological collections in Paleocene and Eocene of San Juan Basin, with various classes
- Gorbet, Larry Advised in preparation of Costa Rican Sign Language text for teachers of deaf in Costa Rica, doing basic research in Costa Rican Sign.

Other research projects, etc., cont.

Gorbet, cont.

Reviews in progress of Sanders' Equational Grammar and a new text on language and culture by Ben Blount.

Areal study of relative clause structures in native languages of the Southwest. Study of systematic incorporation of non-linguistic material into linguistic structures

Harlan, Mark

Compilation of major research report on the Early Middle Formative figurines from Chalcatzingo, Morelos, Mexico

Harpending, Henry

NSF grant and supplement: "Regional Studies of Bushmen in Northeast Botswana," with Patricia Draper, in progress, approximately \$125,000 total

The Spatial Structure of Resources, in press

Judge, W. James

Analysis of Anasazi Period archeological sites, Chaco Canyon

Preparation of interdisciplinary research design, excavation at Pueblo Alto, Chaco Canyon

Analysis of project results, Southwestern Anthropological Research Group

Lamphere, Louise

Research on "Women, Work and Ethnicity in an Urban Setting," funded by National Institute of Mental Health, Metro Center; budget through May 1977--\$71,130

Ortiz, Alfonso

Ongoing research on the history of stereotypes of the American Indian in American culture, sponsored by John Simon Guggenheim Foundation and the Newberry Library, Chicago

Ongoing duties as Editor of the two Southwest volumes, Handbook of North American Indians.

Ongoing research for editorial introductions to foregoing volumes

Complete (except for introduction) volume of traditional Native American poetry (anthology)

Other research projects, etc., cont.

Rhine, J. Stanley

Paper on osteological preservation (with Charles Sheldon) accepted for publication by Connective Tissue

Paper on osteological recovery (with David Weaver) submitted to American Antiquity

Paper on aspects of facial restoration submitted to American Journal of Physical Anthropology

Restoration of some skulls and work on triple-blind restoration for presentation at meetings

Continued work on aspects of analysis of material from various areas

Rushforth, E. Scott

Paper in preparation on kinship among the Bear Lake People, a northern Athapaskan Indian band

Schwerin, Karl

Organized symposium on "Problems in the Study of Complex Society: The Contemporary U.S.," to be included in the 1977 Annual Meeting of the Southwestern Anthropological Association, San Diego, California

Sebring, James

Monograph completed dealing with behavior in interaction, conceptions of behavior in interaction and the relation of these variables to aspects of the wider social system among five castes in seven villages of north India

Spuhler, J. N.

Continued work on 4 articles for Smithsonian Handbook of North American Indians

Continued work on a textbook on human evolution for Prentice-Hall

Stout, Carol

Navajo medicine, Guatemalan textiles, Southwestern prehistory, Southwestern ethnobotany: all exhibit-related research

Straus, Lawrence

La Riera Paleoecological Project (NSF grant) excavation, classification, analysis continues; two preliminary publications have been prepared and submitted to journals in the U.S. and Spain, plus report presented to Spanish government

Other research projects, etc., cont.

Tainter, Joseph

Final version of paper "Modelling Change in Prehistoric Social Systems," to appear in Academic Press publication

Initial work on paper reviewing the archaeological study of past social systems, also to appear in an Academic Press publication

Analytical work for a paper dealing with the social organization of the northern Chumash

Continuing revision of doctoral dissertation for publication as a monography by Northwestern University

Weigle, Mary Martha

"Ghostly Flagellants and Doña Sebastiana: Two Legends of the Penitente Brotherhood," accepted for publication in Western Folklore

Review of Women and Folklore edited by Claire Parrer for Signs: Journal of Women in Culture and Society

Review of Lamy of Santa Fe by Paul Horgan for Rio Grande History

Workman, Peter

Socio-demographic and economic studies on the Aland Islands (NSF and NICHD grant supported) research in progress

6. Activities in learned and professional societies

Alvarado, Anita

Presentation of paper for Dept. of Pschiatry, UNM College of Medicine

Presentation of research on ethnic nurses' status to Western Interstate Conference on Higher Education

Keynote address to Second Conference on Perinatal Care for MDs and RNs, Arizona State University

Bledsoe, Caroline

Delivered paper at Women in Economic Development Conference, Wellesley College, June 1976

Bock, Philip

Attended fall meeting of American Anthropological Assc. and delivered paper, "I Think But Dare Not Speak: Silence in Elizabethan Culture," discussant in symposium on "Morality Systems"

Activities, cont.

- Brody, J. J. "Mimbres Painting and the Northern Frontier," paper read at the Symposium Honoring J. Charles Kelley, Carbondale
- Attended annual meeting of the American Assc. of Museums
- Organizing member of College and University Museums Assc.
- Attended Ethnohistory and Contract Archaeology conferences in Albuquerque
- Campbell, John M. "Bighorn Sheep in the Southwest: Their Population History and Aboriginal Utilization," paper read at annual meeting of American Society of Ethnohistory
- Cordell, Linda Gave research report on Tijeras Pueblo excavation, 49th Pecos Conference, Bahia Kino, Sonora, Mexico
- Member, Publications Committee, New Mexico State Archeological Council
- Froehlich, Jeffery "A Dermatoglyphic Perspective on Melanesian Prehistory," a symposium paper read at annual meeting, American Association Physical Anthropologists
- "Dermatoglyphic Variation in Central American Howler Monkeys (Alouatta palliata)," paper read at annual meeting, American Association of Physical Anthropologists
- Harlan, Mark Attended annual meeting of American Anthropological Association
- Harpending, Henry Associate Editor, American Journal of Physical Anthropology
- Judge, W. James Elected Member, Executive Committee, Society for American Archeology
- "Development of a Complex Cultural Ecosystem in the Chaco Basin," a paper presented at the First Conference on Scientific Research in the National Parks, AIBS
- Attended SAA, AAA, SARG, and Pecos Conference meetings

Activities, cont.

Lamphere, Louise

Commentary on Symposium "Women in Informal Associations," Women in Development Conference

Discussant for symposium "Social Structure, Ideology and Women's Choices," American Anthropological Association meetings

"Family and Work Place: The English Working Class," a paper presented at American Anthropological Association meetings

Ortiz, Alfonso

Co-organizer and chairman of symposium on historical American cultures, American Anthropological Association

Participant in symposium on Land Problems in the Pueblo Southwest, American Anthropological Association meetings

"Dynamics of Pueblo Cultural Survival,"
"Land, Water, Energy, and Sovereignty in the Pueblo Southwest," papers read at American Anthropological Association meetings

Attended meetings of the American Society for Ethnohistory

Rhine, J. Stanley

"Shortcomings and New Research in Facial Restoration," paper read at American Assoc. of Forensic Odontology

Schwerin, Karl

Local Arrangements Chairman, American Society for Ethnohistory annual meeting

Treasurer, Sigma Xi, University of New Mexico Chapter

Spolsky, Bernard

Elected member of Program Committee, Linguistic Society of America

Selected as academic chairman of 8-member U.S. group of bilingual educators for Exchange with the Soviet Union

Lecture sponsored by Graduate Language/Linguistics Colloquium at Northern Illinois University: "A Model for Bilingual/Bicultural Education;" and seminar: "Trends in Bilingual/Bicultural Education"

Activities, cont.

Spolsky, cont.

Panelist at XXth Comparative and International Education Society Annual Meeting; paper: "Evaluating Bilingual Education Programs—A Multidisciplinary Perspective"

Guest speaker at the Year of Bilingual Bicultural Education meeting sponsored by the Alaska Department of Education; topic: "Bilingual Education Program Evaluation"

Spuhler, J. N.

Elected member, Nominations Committee, American Anthropological Association

President, American Association of Physical Anthropologists

Attended meeting of the American Association of Physical Anthropologists and American Anthropological Association

Stout, Carol

Attended meetings of American Society for Ethnohistory

Straus, Lawrence

Organized and chaired symposium, "The Explanation of Paleolithic Assemblage Variability," Society for American Archaeology meetings

"New Light on the Upper Paleolithic of SW Europe," paper read at Society for American Archaeology meetings

Attended meeting of American Quaternary Assc.

Weigle, Mary Martha

"Folklore of the Penitentes," paper presented at New Mexico Folklore Society

"Folklife Collection in Hispanic New Mexico during the 1930s," paper presented at the annual meeting of the American Folklore Society

Workman, Peter

Attended American Society of Physical Anthropologists annual meeting

7. Other professional activities

Alvarado, Anita

Two consultation trips for Western Interstate Conference on Higher Education

Other, cont.

Alvarado, cont.

Several local consultations on health care provision

Two sessions on Ford Foundation Grants Committee

Danforth Foundation Grant Committee consultant

Barrett, Richard

Reimbursed review of an introductory textbook for William C. Brown, Co., Publishers

Reviewer for the Journal of Anthropological Research, various articles

Bledsoe, Caroline

Gave talk to Albuquerque Parents Without Partners group on marriage and divorce in Africa and the U.S.

Bock, Philip

Coordinator of Anthropology Department Colloquia, Fall 1976

Radio interview on the music of Richard Rogers

Brody, J. J.

Guest lecturer, University of Iowa Art Museum

Guest lecturer, Southwest Association on Indian Affairs

Guest lecturer, Junior League, "Story of Albuquerque"

Five public lectures (Speakers Bureau)

Two radio interviews re. Maxwell Museum

Guest speaker, Museum of New Mexico docent training program

Museum consultant to: Texas Tech Museum, Ghost Ranch Museum, ASA Gallery, West Chester State College Museum, School of American Research, Roswell Museum

Publication Series consultant to School of American Research, Editorial Board American Indian Arts, American Indian Review

Reviewed grant proposals submitted to NSF, NEA, NEH

Campbell, John M.

Lecturer, Institute of Quarternary Research, University of Washington

Other, cont.

Cordell, Linda

Consultant to KOB-TV on Bicentennial program
on prehistoric New Mexico

Consultant to US Forest Service and the UNM
Photo Service in the preparation of a 15-minute
documentary on the excavation of Tijeras Pueblo

Talk at the Albuquerque Archeological Society
on Tijeras Pueblo

Froehlich, Jeffery

Research Consultant, V.A. Hospital, Albuquerque

Textbook review for Random House

Harlan, Mark

Various manuscripts reviewed for a number of
commercial publishing houses

Judge, W. James

Research Committee: Southwestern Anthropological
Research Group

Guest lecturer, Maxwell Museum Association

Guest lecturer, School of American Research

Lamphere, Louise

"Anthropological Perspectives on Women, Power
and Equality," colloquium presented at
Cornell University and at Department of
Anthropology Colloquium, University of
Minnesota

"Power, Purity and the Position of Woman:
The Implication of Sex-Role Ideologies for
Social Subordination," presented at the
University of Minnesota

Ortiz, Alfonso

Member, National Humanities Faculty

Member, Committee on the Education of Women
and Minorities in Science, National Research
Council

Member, Minority Advisory Panel, Danforth
graduate Fellowship Program

Chairman, Selection Committee, Doctoral
Fellowships for American Indians (The Ford
Foundation, administered by ETS)

Other, cont.

Ortiz, cont.

Keynoter, Danforth Conference for Terminal Year Fellows

Lectures at Cornell University and Dakota Wesleyan College

Co-editor; Journal of Anthropological Research

Member, Editorial Board, Indian Historian, American Indian Quarterly, Journal of Ethnic Studies, Third World Studies

Reviewer of grant applications, Wenner-Gren Foundation, National Science Foundation, National Endowment for the Humanities, National Endowment for the Arts

Advisor to British Broadcasting Corporation, American Broadcasting Company, Public Broadcasting Corporation, on productions of film series containing material on North American Indians

Lecture at New Mexico State Bilingual-Bicultural Education Conference

Reviewer of manuscripts for Princeton University Press, American Association for State and Local History

Consultant to Rockefeller Brothers Fund for design of a new Indian museum for the Museum of New Mexico; consultant for "Sacred Paths," a traveling exhibit of the Museum of New Mexico

Consultant to Moreland-Latchford Productions, Ltd.; consultant to Avatar Productions

Rhine, J. Stanley

Participant in "Medicolegal Investigation of Death" seminar, UNM School of Medicine; introductory and special section on forensic anthropology for advanced students and investigators, Office of the Medical Investigator

Continued as anthropology consultant to Chief Medical Investigator, OMI

Other, cont.

Rhine, cont.

Designed exhibit "Physical Anthropology Laboratories" for Maxwell Museum exhibit in UNM Fair Bus

Appointed as Assistant Professor of Pathology, UNM Medical School

Continued as Associate Anthropology Editor, The Social Science Journal

Rushforth, E. Scott

Consultancy: Indian Brotherhood of the Northwest Territories, Canada, concerning the Socio-economic impact of the proposed MacKenzie Valley Natural Gas Pipeline

Schwerin, Karl

Consultant to Chicano Study Project of the National Museum of Ethnology, Osaka, Japan

Spolsky, Bernard

Member of Visiting Committee on English Language Institute, University of Michigan

Consultant to Wyola Bilingual Program, Wyola, Montana

Evaluated programs Northwestern Regional Educational Laboratory, Portland, Oregon

Spuhler, J. N.

Member, Editorial Board, Annual Review of Anthropology, Palo Alto, California

Member, Assembly of Behavioral Sciences, National Research Council, 1973-

Member, ad hoc committee on Behavior Genetics, National Academy of Sciences, 1972-

Stout, Carol J.

Exhibits: sole responsibility--"Weavers of the Jade Needle: Textiles of Highland Guatemala"; "They Came to the Middle Place: Prehistory of the Southwest" (in progress); shared responsibility--"East Meets West: Oriental and Navajo Floor Rugs"; "Navajo Curing"

Board of Directors, Center for Anthropological Research

Consultant to various Junior League "Festival '76" committees

Other, cont.

Weigle, Mary Martha

"The Penitentes of New Mexico," Maxwell Museum Association Lecture Series, Albuquerque, March 10, 1976

Talk at Book and Author Luncheon, St. John's College, Santa Fe, October 8, 1976

8. Non-teaching University service

Alvarado, Anita

Faculty Senate

Undergraduate Academic Affairs Committee

Curricula Committee

Advisory Board of Native American Studies Center

Advisory Committee of College of Nursing

Advisory Board of American Studies Center

Arrangements for Harvey Distinguished Lecture Series

Barrett, Richard

Chairman, Departmental Ethnology Committee

Binford, Lewis

Member, Anthropology Graduate Committee

Bledsoe, Caroline

Served on Selection Committee for University Danforth nominees

Represented Anthropology Department with student committee setting up an experiential learning program

Bock, Philip

Member, University Committee on Academic Freedom and Tenure

Undergraduate Advisor for Ethnology

Member of two promotion and one tenure committee (departmental)

Appointed Anthropology Department Coordinator for Latin American Programs

Member, Student Publications Board

Non-teaching, cont.

Brody, J. J.	Advisory Committee, Fine Arts Museum Advisory Board, Office of Contract Archeology Fund Raising Advisory Council Director, Maxwell Museum
Campbell, John M.	Faculty Senate Chairman, Board of Archeologists, UNM
Cordell, Linda	Task Force on Program Development Vice-President Phi Beta Kappa, Alpha New Mexico, Spring 1976; Chapter President Fall, 1976 Member, Anthropology Graduate Committee, Spring, 1976
Froehlich, Jeffery	Director of Graduate Studies, Anthropology Department, Spring, 1976 University Research Policy Committee
Gorbet, Larry	Member, Anthropology Graduate Committee Member Linguistics Policy Committee Head, Search Committee for Anthropological Linguist (Spring, 1976) Advisor--3 graduate students
Harlan, Mark	Zimmerman Library Committee
Harpending, Henry	Committee on Inter-disciplinary Courses in Social Sciences Curriculum Committee Member, Anthropology Graduate Committee
Judge, W. James	Committee Chairman: 5 doctoral candidates Sponsor: 5 master's candidates
Lamphere, Louise	Faculty advisor, Anthropology Club (Fall, 1976) Undergraduate Committee, Department of Anthropology Women Studies Committee

Non-teaching, cont.

Ortiz, Alfonso

Member of one promotion and one tenure review committee

Advisor to four graduate students

Member of three additional dissertation committees

Member, Advisory Council, Native American Studies Program

Rhine, J. Stanley

Associate Curator for Physical Anthropology, Maxwell Museum of Anthropology

Undergraduate Advisor and member of Undergraduate Committee, Anthropology Department

Rushforth, E. Scott

Member, Undergraduate Committee, Anthropology Department

Member of graduate committees for four students

Schwerin, Karl

Member, Research Policy Committee

Chairperson, Ethnology Committee, Anthropology Department (1975-76)

Chairperson, Graduate Committee, Anthropology Department (1976-77)

Sebring, James

Member of informal, multi-departmental committee on Asian Studies

Departmental advisor for minor in Asian Studies

Spolsky, Bernard

Provost's Council

Council of Academic Deans

Graduate Committee, UNM

Faculty Senate

Spuhler, J. N.

Editor, Journal of Anthropological Research

Chairman, University Press Committee

Member, Library Committee, Maxwell Museum of Anthropology

Non-teaching, cont.

Straus, Lawrence

Host to three Visiting Lecturers

Member, Board of Archeologists

Helped organize Phi Beta Kappa tea for seniors at President Davis' house

Tainter, Joseph

Undergraduate advisor

Member and Vice-President, Board of Archeologists

Member and President, Anthropology Undergraduate Committee

Weigle, Mary Martha

University Press Committee

Bicentennial Committee

American Studies Committee

Library Search Committee for Social Science Bibliographer

9. Public Service

Alvarado, Anita

Finance Committee, Sangre de Cristo Catholic Church

Vice President of Central New Mexico German Shepherd Club

Education Committee of Rio Grande Kennel Club

Barrett, Richard

Board Member, New Mexico Partners of the Americas

Brody, J. J.

Vice-Chairperson, Fine Arts Board, City of Albuquerque

Executive Director, Maxwell Museum Association

Board Member, Ghost Ranch Museum

Arts Board, Albuquerque Chamber of Commerce

Campbell, John M.

Member, Board of Governors, Arctic Institute of North America

Cordell, Linda

Talk to the Y.W.C.A. Spring Membership Meeting, May 1976, Talk on Tijeras Pueblo with tour of the site

Public Service, cont.

Froehlich, Jeffery

Vice President, Audobon Wildlife Committee

Member, Advisory Board for N. M. Natural History Museum

Judge, W. James

Advisory Council, Explorer Post #296

Ortiz, Alfonso

President, Association on American Indian Affairs, Inc.

Member, Board of Trustees, Santa Fe Preparatory School

Member of Board, Institute for the Development of Indian Law

Member, National Advisory Council, Center for the History of the American Indian, Newberry Library

Member Advisory Board, National Indian Youth Council

Schwerin, Karl

Asst. for Special Education, Parents Without Partners, 1976

Room Father, Grade 5, Ranchos Elementary School 1976-77

Spolsky, Bernard

Chairman, Council of Graduate Deans of New Mexico State Universities

General Advisory Council of the Board of Educational Finance

Education Committee of Akiba Day School

Straus, Lawrence

Gave lectures at Albuquerque high schools (Career Enrichment Center and Eldorado High) on prehistory

Non-teaching, cont.

Straus, Lawrence

Host to three Visiting Lecturers

Member, Board of Archeologists

Helped organize Phi Beta Kappa tea for seniors at President Davis' house

Tainter, Joseph

Undergraduate advisor

Member and Vice-President, Board of Archeologists

Member and President, Anthropology Undergraduate Committee

Weigle, Mary Martha

University Press Committee

Bicentennial Committee

American Studies Committee

Library Search Committee for Social Science Bibliographer

9. Public Service

Alvarado, Anita

Finance Committee, Sangre de Cristo Catholic Church

Vice President of Central New Mexico German Shepherd Club

Education Committee of Rio Grande Kennel Club

Barrett, Richard

Board Member, New Mexico Partners of the Americas

Brody, J. J.

Vice-Chairperson, Fine Arts Board, City of Albuquerque

Executive Director, Maxwell Museum Association

Board Member, Ghost Ranch Museum

Arts Board, Albuquerque Chamber of Commerce

Campbell, John M.

Member, Board of Governors, Arctic Institute of North America

Cordell, Linda

Talk to the Y.W.C.A. Spring Membership Meeting, May 1976, Talk on Tijeras Pueblo with tour of the site

Public Service, cont.

Froehlich, Jeffery	Vice President, Audobon Wildlife Committee Member, Advisory Board for N. M. Natural History Museum
Judge, W. James	Advisory Council, Explorer Post #296
Ortiz, Alfonso	President, Association on American Indian Affairs, Inc. Member, Board of Trustees, Santa Fe Preparatory School Member of Board, Institute for the Development of Indian Law Member, National Advisory Council, Center for the History of the American Indian, Newberry Library Member Advisory Board, National Indian Youth Council
Schwerin, Karl	Asst. for Special Education, Parents Without Partners, 1976 Room Father, Grade 5, Ranchos Elementary School 1976-77
Spolsky, Bernard	Chairman, Council of Graduate Deans of New Mexico State Universities General Advisory Council of the Board of Educational Finance Education Committee of Akiba Day School
Straus, Lawrence	Gave lectures at Albuquerque high schools (Career Enrichment Center and Eldorado High) on prehistory

The Report of the Journal of Anthropological Research
(Formerly Southwestern Journal of Anthropology)

July 1, 1976 - June 30, 1977

J. N. Spuhler, Editor

The thirty-second volume of the Journal of Anthropological Research contained 21 papers in 413 pages. Classified by discipline, 17 articles in the volume deal with cultural-social anthropology -- a proportion consistent with the long-term trend in manuscripts submitted to and published by the Journal -- one paper concerns archaeology, two pertain to biological anthropology, and one belongs to linguistics. Geographically, six of the 21 articles are of general or world application, six are on Africa, six concern North America (one the American Southwest), three deal with Asia (one Far East), and two concern Europe.

Manuscripts submitted during the year totalled 97, a number approximating the 94 received last year, and continuing the reduction from the 119 received in 1974-75, and the Journal's maximum of 136 manuscripts reviewed in 1972-73. In part this decrease reflects the slump in federal support of anthropological and other behavioral science research during the past five years.

Subscriptions at the close of the fiscal year totaled 2232, including 105 new orders. This year's total is 213 less than last year. During the year 462 subscriptions were cancelled by the subscriber or the Journal for non-payment; 169 of these were from institutions, 293 from individuals. The number of cancellations for non-payment is above long-term levels partly because we published two winter issues during the period and we cancel for non-payment before mailing the winter issue. Past experience indicates that a substantial proportion of delinquent individuals will

pay up during the current year. Probably many of the present lot of institutional cancellations will not be reinstated until the current economic situation and the pattern of library support improves, although 16 institutions did renew subscriptions during the fiscal period. Foreign subscriptions now constitute 34 percent and institutional subscriptions 61 percent of our total distribution.

Journal income for the fiscal year amounted to \$21,630.61; production and mailing expenses totaled \$22,043.11. The income included \$643 from sale of back issues, 273 from author's reprints, \$250 permission fees for reprinted articles, and \$950 in royalties for reprinted and microfilmed volumes.

In addition to the Co-Editors (Professors L.R. Binford, P.K. Bock, A. Ortiz, and Dean B. Spolsky), the following members of the Department of Anthropology reviewed manuscripts for the Journal during the year: Drs. Anita L. Alvarado, Richard Barrett, J.J. Brody, Linda Cordell, Patricia Draper, Stanley Rhine, Karl H. Schwerin, James M. Sebring, and Peter L. Workman. The contribution of Professor Harry Basehart (former Editor) continues to be substantial.

I can praise the JAR as one of the best anthropological journals now published in English in the world, first because its fame was established under the editorship of Leslie Spier and Harry Basehart long before I became editor, and second, because we have dozens of letters from leading anthropologists stating that is the case. The most recent one is from Charles Erasmus, Santa Barbara, who wrote "the Summer 1976 issue is the best balanced I have seen in 30 years of professional experience."

If we can purchase the IBM composer we will be able to increase the

annual volume from 400 to 500 pages (desirable because we now must turn down 80 percent of manuscripts received, some of them of good quality, because of lack of space) by setting camera-ready copy in our own office for at least 100 extra pages per year as well as continuing to set the expensive tables and figures ourselves.

Ms. Elizabeth Gard served as copy editor for the JAR on an hourly basis. Her work greatly reduces the editorial task of seeing a volume through the printing plant.

Ms. Nancy Moran continued as Subscriptions Manager of the Journal and as sometime proof reader and typist of editorial correspondence. As in the past, her performance is superior and she deserves high commendation.

Ms. Helen Costello, Secretary in the Department of Anthropology, typed editorial correspondence and composed camera-ready copy on our newly purchased IBM Electronic Selectric Composer (made available on a permanent basis by a generous grant from the Office of the Vice President for Academic Affairs) for 47 tables, 16 figures, and 22 book reviews published in volume 32. Her skill allows the Journal to compose tables and figures in the more attractive type fonts used in printing the Journal text, rather than by typewriter, as in recent previous issues.

The Journal continues to achieve outside recognition through requests for permission to reprint materials from our volumes: 13 authorizations to reprint were granted during the year. The Summer, 1976 issue was adopted as a text for the Graduate Seminar in Anthropology at the University of California, Santa Barbara; concerning this adaptation Professor Charles Erasmus wrote: "the Summer 1976 issue is the best balanced I have seen in 30 years of professional experience."

A generous grant from Byron Harvey, III to the Department of Anthropology

made possible the Harvey Distinguished Visiting Lecture Series during the academic years 1976-77 and 1977-78. The public lectures by Albert Spaulding (Santa Barbara) was the first of the series published in the JAR.

The Report of the Department of Biology

July 1, 1976 - June 30, 1977

Clifford S. Crawford, Chairman

I. General Departmental Information

A. Significant achievements during the academic year

This academic year saw no major internal changes in the Biology Department. Rather, emphasis was placed on implementing curricular and organizational changes made the year before.

With the arrival of a new physiologist whose main teaching assignment was to reorganize and teach Biol. 122 with an emphasis on organismic physiology, the entire first year curriculum for biology majors (Biol. 121-122) was strengthened and made more demanding. The new sophomore curriculum (Biol. 221-222) was also considered rigorous by students and instructors alike.

Increasing attention was given to the question of the quality and direction of graduate education in the department. Emphasis in the previous two to three years on developing a strong graduate program in ecology began to produce results in 1976-77. These were mainly evident in an increase in the quality of applicants for graduate training in the program, the number of applicants in ecological areas (64 out of 95), the number of special topics courses (Biol. 502) in ecology (5 different courses each semester), and the number of grants and contracts

awarded to or held by faculty in this area (14 of the 16 faculty considered ecologists held at least one grant or contract during the academic year).

Simultaneously, in filling two replacement positions, the department attempted to round out its undergraduate offerings in previously neglected areas and is now able to teach senior-level courses regularly in immunology and in population genetics.

Significant changes in the use of space this year included moving the valuable Fish Collection from room 203 in the old wing of the Biology Building to room 53 of the new wing. This brings to one floor all of the extensive collections in vertebrate biology and greatly facilitates the curating of many specimens. Biological Lab Techniques (Biol. 290), which was formerly taught in room 53 will in the future be taught in a moderately renovated room 275, along with other courses.

A \$45,000 equipment grant from NSF, supplemented by matching funds from the University administration, enabled the purchase of expensive units of equipment needed for research by personnel in the cell, molecular, developmental, and microbiological areas. Housing for this equipment was constructed in a central region overlooking the main greenhouse.

B. Significant plans and recommendations for the near future.

Long-range planning for use of existing and future space continued during the academic year. The vacated room 203 will hopefully be incorporated into the microbiology teaching-

research suite on the second floor of the old wing. Plans for the exodus of the Malaria Program seem to be firm for the coming summer. Laboratories now used by the Program (rooms 243 and 252) will become research labs for recently hired faculty, while the Program's office space will remain flexible relative to departmental staffing needs.

Serious consideration is being given to moving the expanding program in chemical ecology out of room 157 and into the southwest corner of the Biology Annex. Rationale behind such a relocation is based on the overloading of the new wing's exhaust system by the increasing production of toxic fumes, as well as the need for additional space. Assuming the shift is made, chemical and aquatic ecology will be under one roof, and a laboratory will become available for additional needed faculty.

C. Appointments to staff.

Dr. Evelyn Ewing was appointed, effective August, 1977, as Assistant Professor in the field of Population Genetics.

Dr. Kathryn Vogel was appointed, effective August, 1977, as Assistant Professor in the field of Physiology-Immunology.

34 teaching assistants and 4 curatorial assistants were appointed in 1976-77.

Dr. Steve Williams was appointed in August, 1976, for one year as Visiting Assistant Professor in the field of introductory biology.

Ms. Sandra Bruner was appointed in August, 1976, as Lecturer II in the field of Human Anatomy and Physiology.

Mr. Ron Deyhle was appointed in August, 1976, for one year, as Instructor in the field of microbiology.

Ms. Mary Alice Root was appointed as Administrative Assistant in January, 1977.

D. Separations from staff.

Dr. David Landau, Assistant Professor of Human Anatomy and Physiology, effective June, 1977.

Harold E. Haas, Administrative Assistant, retired, effective December 31, 1976.

II. Composite of Information Requested on Individual Biographical Supplements:

1. Advanced Study

Kerkof, Paul R. Attended and completed a course on "Primary Cell Culture" conducted at the W. Alton Jones Cell Science Center at Lake Placid, N.Y., July, 1976.

2. Sabbaticals and Leaves

Degenhardt, William G. June 1976 - June 1977.

Duszynski, Donald W. Sept. 1 thru June 1977. Appointment as senior research scientist, Dept. of Physiology, Univ. of Texas Medical School, Houston, TX.

Kidd, David. February, LSU, UT at Austin--teach water pollution short course. March, UW at Madison, UM at Kansas City--teach water pollution short course. May, NSF-AAAS Chautaugua meeting at Kansas City. April, AAAS Regional Meeting, Tucson, Arizona. June, Lake Mead Research Project planning meeting, Las Vegas, Nevada. General summer travel to Lake Powell--research. July, Tres Piedras, New Mexico, Colorado Plateau Research planning meeting. October, Hanover, NH, Lake Powell Research Project Meeting. October, Clark College, Atlanta, GA and Syracuse University, teach water pollution short course. November, Salt Lake City, Lake Mead Research Planning meeting. November, NSF-RANN II Symposium, Washington, DC.

Kogoma, Tokio. Travels made for research collaboration-- Texas Tech University School of Medicine, June, 1976; Dept. of Biol. Univ. of Utah, July, 1976; Dept. of Biol. Univ. of Utah, July, 1976; Dept. of Chemistry, New Mexico State Univ., Oct. 1976.

Ligon, J. David. August 1975 to August 1976. Research conducted in Kenya from June 1975 through May 1976.

3. New scholastic honors, fellowships, etc.

Baca, Oswald G. Sigma Xi.

Barton, Larry. Sigma Xi. American Society for Microbiology. American Association for the Advancement of Sciences.

Kidd, David. Selected to serve as NSF-AAAS Chautaugua Short Course Lecturer on water pollution for secondary teachers.

Molles, Manuel C. Nominated to Phi Beta Kappa, Alpha of Arizona, April, 1976.

4. Publications.

Baca, Oswald G. 1) Co-ordinate synthesis of ribosomes and elongation factors in the liver of immature chicks following a metabolic shift-up. J. Molecular Biology. 1976. Vol. 100, 115-126 with R. L. Smith and J. Gordon. 2) U.V. induced crosslinking of E. coli ribosomal RNA to specific proteins. 1976. Biochem. Biophys. Res. Commun. 70:1090-1096. With J. W. Bodley. 3) Equilibrium measurements of the interactions of guanine nucleotides with Escherichia coli elongation factor G and the ribosome, Biochemistry. 15:4570-4574; with M. Rohvach and J. Bodley.

Barton, Larry. (with R. Deyhle), Nicotinamide adenine dinucleotide-independent formate dehydrogenase in Mycobacterium phlei. Can. J. Microbiol.

Caldwell, Douglas E. 1) Thermothrix thioparus gen. et sp. nov. a Facultatively Anaerobic Facultative Living at Neutral pH and High Temperature. Canadian Journal of Microbiology. 1976. Volume 22. no. 10. pp. 1509-1517 with J. P. Laycock. 2) The Planktonic Microflora of Lakes. Critical Reviews in Microbiology 1976. Volume 4. No. 4.

Cates, Rex G. Toward a general theory of plant antiherbivore chemistry, In Biochemical Interaction between plants and insects. J. Wallace & R. Mansell (eds.). Recent Advances in Phytochemistry, vol. 10. 1976; with D. Rhoades.

- Crawford, Clifford S. 1) Digestive enzymes of the desert millipede Orthoporus ornatus (Girard) (Diplopoda: Spirostreptidae; Comp. Biochem. Physiol. 55A; 141-145, 1976; with F. S. Numez. 2) Feeding-season production of the desert millipede Orthoporus ornatus (Girard) (Diplopoda); Oecologia 24:265-276, 1976.
- Degenhardt, William G. The taxonomic status of Tantilla cucullata and Tantilla diabolus. Texas Journal of Science, XXVII(1):225-234, 1976.
- Duszynski, Donald W. Excystation of Isospora arctophylax Rodhain, 1933 with notes on a similar process in Isospora bigemina (Stiles, 1891) Luhe, 1906, Zeitschrift für Parasitenkunde, 1976, Vol. 48, pp. 191-197. 2) Prevalence of antibodies to Toxoplasma gondii in wild and domestic animals of New Mexico, Arizona and Colorado, Journal of Wildlife Diseases, 1976, Vol. 12, pp. 226-232. 3) Ultrastructure of the sporocyst wall during excystation of Isospora endocallimici, Journal of Parasitology, 1976, Vol. 62.
- Findley, James. 1) The structure of bat communities, American Naturalist, 1976, Vol. 110, pp. 129-139. 2) Review of Walker, Alex., et al. Mammals of the World, John Hopkins Press, J. Mammalogy, Vol. 57, pp. 420-421, 1976.
- Gosz, James R. 1) Organic matter & nutrient dynamics of the forest floor in the Hubbard Brook Forest, Oecologia, 1976. Vol. 22:305-320. 2) Influence of reduced stream flows on water quality Symposium on Energy Development in Colorado River Basin, Resources for the Future, (in press). 3) Effects of ski area development and use on forest and stream ecosystems, For. Sci. (in press). 4) The flow of energy in a forest ecosystem, Scientific American (in press).
- Johnson, Gordon V. Trophic status of selected northern New Mexico lakes. Completion Report Project No. A-053-NMEX. 178 p. Water Resources Research Institute, New Mexico State Univ.
- Kidd, David. 1) The Physical, Chemical, and Biological Limnology of Lake Powell, NSF-RANN Symposium II Proceedings, in press. 2) Interdependence in Biology, Chapter in Interdependence, An Interdisciplinary Study, World Publications, in press.
- Kogoma, Tokio. Two types of Temperature Sensitivity in DNA Replication of an Escherichia coli dnaB Mutant. J. Mol. Biol., 1976, Vol. 103, pp. 191-197.

- Ligon, J. David. 1) Comparative mobbing behavior of Scrub and Mexican Jays. The Auk, 1976, Vol. 93, No. 1, pp. 116-125 (with J. F. Cully, Jr.) 2) First record of the Whiskered Owl in New Mexico. The Condor, 1976, Vol. 78, No. 1, p. 112 (with G. L. Brenowitz). 3) Vocal communication and individual recognition in the Pinon Jay. Gymnorhinus cyanocephalus. Animal Behavior, In press. (with L. R. Berger).
- Martin, William C. Some aspects of the Natural History of Colfax and eastern Taos Counties, New Mexico - New Mexico Soc. Guidebook, 27th Field Conf. Vermejo Park, 1976, pp. 97-102.
- Molles, Manuel C. 1) Fish Species Diversity on Model and Natural Patch Reefs: Experimental Insular Biogeography: Ecology. 2) Habitat Alteration, Introduced Species and the Native Fishes of the Upper Colorado River Basin: A Problem of Insular Biogeography? Symposium on Energy Development and the Colorado River (Sponsored by U.S. Fish and Wildlife Service).
- Potter, Loren D. Shoreline Ecology of Lake Powell. Lake Powell Research Project Bull. No. 29. Dept. of Geophysics, UCLA, Los Angeles, 235 p.
- Riedesel, Marvin L. 1) Responses of whole-animal & isolated hearts of ground squirrel, Citellus lateralis, to melatonin. Comp. Biochem. Physiol. 53C:69-72, 1976. (with D. L. Palmer). 2) Continuous 24-hr oxygen consumption by Myotis velifer (1976) Comp. Biochem. Physiol. 54A:95-99. (with B. A. Williams. 3) N-acetylserotonin, an inhibitor of melatonin in laboratory mice, 1976, submitted to J. Reprod. & Fert. (with M. W. Barreras and D. L. Palmer). 4) Dissipation of stored body heat by the ornate box turtle, Terrapene ornata 1976, submitted to Comp. Biochem. (with B. A. Sturbaum).
- Thornhill, Randy. 1) Sexual selection and paternal investment patterns in insects, American Naturalist, 1976, Vol. 110, pp. 153-163. 2) Sexual selection and nuptial feeding behavior in Bittacus apicalis (Insecta: Mecoptera). Annals of the Entomological Society of America, 1976, vol. 69, pp. 549-555. 3) The reproductive behavior of the lovebug, Plecia nearctica Hardy (Diptera: Bibionidae) Annals of the Entomological Society of America, 1976, vol. 69, pp. 549-555. 4) Dispersal and flight activities of the lovebug, Plecia nearctica Hardy (Diptera: Bibionidae), Florida Entomologist, vol. 59, 45-54. 5) Biology and reproductive behavior of Dilophus sayi (Diptera: Bibionidae), Florida Entomologist, vol. 59, pp. 1-4.

Toolson, Eric. Water permeability and lipid composition of scorpion cuticle. Amer. Zool. 16(2):218. (with N. Hadley), 1976.

Taylor, Fritz. Foraging behavior of ants. Experiments with two species of Myrmecine ants. Behav. Evol. Sociobiol. 2:1-21, 1977.

5. Creative work and research in progress

Baca, Oswald G. Currently working on interaction of the rickettsia Cotiella burreti, with the mouse fibroblast - its mode of entry into mammalian cells. Also working on the ribosome: structure & function in Coriella burneti & E. coli.

Barton, Larry. \$15,987 from New Mexico Water Resources Institute for Characterization of Nutrients and Algae Blooms at Abiquiu and Cochiti Reservoirs.

Caldwell, Douglas. "Bacteriological Examination of Iron Pools and Moon Milk Formations of the Carlsbad Caverns" U. S. Department of the Interior National Park Service. November 1976. "Thermophiles from a New Mexico Hot Spring" an invited seminar presented at the 76th Annual Meeting of the American Society for Microbiology, May 1976. Deposition of Thermothrix thioparus in the German Collection of Microorganisms at the request of D. Claus, curator, October 1976. Deposition of Thermothrix thioparus in the American Type Culture Collection, January 1976. Reviewed two confidential grant proposals submitted to the National Science Foundation and one confidential publication submitted to the Journal of Applied and Environmental Microbiology, 1976.

Cates, Rex G. Interactions of physical factors and plant defensive systems on the ecology of the Douglas-fir tussock moth. Research allocations Committee, granted \$1480, one year. Effects of timber stand maturity and management on some stream organic compounds. Granted \$8,000, USFS, one year (with J. Gosz). The role of natural chemical defenses in the resistance-susceptibility of white fir and Douglas-fir to Orygia pseudotsugata, USDA Douglas-fir tussock moth program. Requested \$34,689, one year. Effects of plant defenses and plant community dynamics on herbivore community structure. \$61,700 for two years. NSF.

Crawford, Clifford S. NSF, \$39,880; Water balance during dormancy in the desert millipede Orthoporus ornatus; 1974-1976.

Degenhardt, William G. Study of Animas Mtns. Rattlesnake (F. & W., \$4700), completion 1977. Study of Sand Dune Lizard (N.M. Game & Fish, \$2500), completed Sept. 1976. Continuing studies of state herpetofauna during leave. Biotelemetric monitoring-Bosque turtles (Jacob Dissertation, NSF, \$3000).

Duszynski, Donald W. On sabbatical. Fall semester served as Senior Research Scientist at the University of Texas Health Science Center, Houston, Department of Physiology. Has submitted several papers in relation to this work.

Findley, James. "Morphospace and food space in a Zambian cave bat community", M.S. "The status of the neotropical bat *Barticonyleris doviesi*", M.S. "The status of the Hawaiian hoary bat," in preparation. "Relative abundance of Neotropical and African rainforest bats," in prep. "The relationship between genetic distance, genetic similarity, and morphospace in a Trinidad bat community," in prep.

Gosz, James R. Eisenhower Consortium, \$1200. Evaluation of procedures for improved water quality in ski areas. 1 year. Factors controlling nutrient losses from disturbed geosystems NSF, \$64,924, 2 years. WRRF, \$8335. Influence of road salting on water quality, 1 year.

Johnson, William W. Genetics of mating speed and competition for mates in stocks of Drosophila melanogaster.

Johnson, Gordon V. Water Resources Research Institute: \$15,987, Characterization of nutrients and algal blooms at Abiquiu and Cochiti Reservoirs (with L. Barton), Grants from U.S. Forest Service: \$10,000, Revegetation with Distichlis stricta on areas disturbed by strip mining, (with W. Martin), \$15,000, Preconditioning requirements of fourwing saltbush transplants; \$13,000, Toxic metal, salt tolerance and ionic interaction effects on the germination of alkali sacaton and fourwing saltbush.

Kerkof, Paul R. National Institutes of Health, Minority Biomedical Support Grant with Dr. P. Siverman and Dr. D. Landau, 3 year, \$27,318. National Science Foundation Grant on "Mechanism of Action of Thyroid-Stimulating Hormone." Two year, \$37,400.

Kidd, David. NSF-RANN \$61,047, Biological Limnology of Lake Powell, 1976-77. NSF-RANN, \$16,720, Heavy Metals, 1976-77 (with L. D. Potter). EPA-EIA, \$37,000, Determination of the Biological Availability of Nitrogen in the Influent Water (Rio Grande) of Cochiti and Elephant Butte, Reservoir. 18 mos.

Kogoma, Tokio. Genetic analysis of *E. coli* mutants capable of DNA replication in the absence of protein and/or RNA synthesis. Biochemical study on newly synthesized DNA during stable DNA replication in *E. coli*. Transformation of *B. subtilis* mutants with DNA synthesized in the absence of protein synthesis. Chromosome replication in *Physarum polycephalum*. HEW(NIH) Grant, \$56,390, 3 year.

Ligon, J. David. Research in Kenya for National Geographic Society, The American Museum of Natural History, The U.S. National Fish and Wildlife Laboratory, and the Research Allocations Committee of UNM. "The adaptive significance of communality in the Green Woodhoopoe, Phoeniculus purpureus," 2 years.

Martin, William C. Flora of New Mexico; Principal Investigator. Floristic inventory & vegetational Assessment, Mobile & Navajo properties, T.V.A., \$24,000; Studies of threatened and endangered species, U.S.F.S., \$3,000; Conclusion of Nat. succession on strip-mined lands in Northwestern N.M., U.S.F.S. \$5,000; with G. V. Johnson. Germination and moisture requirements of arid land plants, \$20,000, U.S.F.S.; conclusion of 2 year study with G. V. Johnson, Revegetation with Distichlis stricta on areas disturbed by strip mining, U.S.F.S., \$10,000. Literature and herbarium search for available information on threatened and endangered species in New Mexico and Arizona, U.S.F.S., \$750; Field studies of native plants, U.S.F.S., \$930; Field studies of native plants, U.S.F.S., \$1265; Summarization of information on endangered species, U.S.F.S., \$480.

Molles, Manuel C. U.S.F.S., \$7,000, Effect of Road Salting on Aquatic Invertebrate Communities; U.S.F.S., \$7,000, Effects of stream sedimentation from highway sand-and-salting on aquatic invertebrates; U.S.F.S., \$12,000, Longitudinal recovery of a stream affected by a ski area development. "Substrate Heterogeneity and the Structure of Stream Invertebrate Communities" in prep; "Longitudinal Succession in a Community of Stream Fishes," in prep.

Potter, Loren D. NSF-RANN, \$26,874, Shoreline Ecology of Lake Powell; NSF-RANN, \$57,131, Heavy Metals in Lake Powell Ecosystem, (with David Kidd). NPS, \$1500, Relation of Pollen and Flotation Analysis to Archeological Excavations, Chaco Canyon Natl. Mon.; NPS, \$7,516, Burro-mule deer grazing and browsing interactions, Bandelier Natl. Mon.; USFS, \$25,000 Effect of Strip-Mining of Coal; USFS, \$12,000, Rehabilitation of Mine Spoil Banks; ERDA, \$18,000, Vegetational Stabilization of Uranium Spoils Areas, Grants, N.M.; New Mexico Energy Resource Board, \$59,175, An Evaluation of New Mexico Humate Deposits for Restoration of Strip-Mining Sites, (with Gosz & Barton); NPS, \$7,564, Fire Ecology, Bandelier Natl. Mon.

Riedesel, Marvin L. NASA-Ames Univ. Consortium NCA2-OR510-601; \$3,000, "Melatonin as a regulator in mammalian hibernation"; Title VI, \$1800 for oxygen analyzer.

Thornhill, Randy. Research continued on mating behavior and ecology of scorpion flies (insecta: Mecoptera). Manuscript on "Male and female sexual selection and the evolution of mating strategies in insects. "The evolution of monogamy and loss of estrous in humans." Submitted to American Naturalist.

Taylor, Fritz. Mathematical modeling of insect populations in seasonal environments. Relevance of bifurcation theory to populations of insects. Comparative study of insect life histories on alfalfa along an elevational gradient.

Trujillo, John. Glycolysis-Gluconogenesis-Interaction of Phosphofructokinase-Fructose-1,6-Biphosphatase & carbohydrate metabolism in liver.

6. Activities in learned and professional societies.

Baca, Oswald G. Presented two papers at the June, 1976 meetings in San Francisco of the Biochemistry Section of FASEB. Mechanism of GTP hydrolysis catalyzed by elongation factor G and the ribosome. Fed. Proc. 35:1514 with M. Rohrbach and J. Bodley. U.V. induced crosslinking of E. coli ribosomal RNA to specific proteins. Fed. Proc. 35:1484 with J. Bodley.

Barton, Larry. Paper presented at Tri Beta Socety, New Mexico Tech.

Caldwell, Douglas E. Member of the nominating committee of the aquatic and terrestrial section of the American Society for Microbiology.

Cates, Rex G. "Evolution of plant defenses." Paper presented to Guild of Rocky Mt. population biologists; "Patterns in the production of herbivore chemical defenses in plant communities," presented to AIBS symposium in New Orleans. "Chemical plant defenses, plant complexity, and the herbivore community structure of *Cassia aphylla* (Leguminosae). Ecological Society, 1976 AIBS. Selected as co-host of Rocky Mountain Population Biology meetings, September, 1976.

Crawford, Clifford S. Papers read at meetings: "Water balance during dormancy in a desert millipede"; First Conference on Research in National Parks; New Orleans; Nov. 9-13.

Degenhardt, William G. Served on executive council of Herpetologists League. Served as parliamentarian of N.M. Herpetological Society.

Duszynski, Donald W. Attended Southwestern Association of Parasitology Meeting w/3 students, Lake Texoma, Okla (April, 1976); Attended American Society of Parasitology Meeting, San Antonio, TX (Aug. 1976); Member, Executive Council, Society of Protozoologists; Advertising Editor & Society Liaison for Support Contributions, J of Protozoology, elected regional rep. for RMCP to Executive Council of Amer. Soc. Parasitology; Member, 1979-81 Meeting-Site Selection Committee, Amer. Soc. Parasitology.

Findley, James. Annual meeting of American Society of Mammologists, Lubbock, Tx. Board of Directors. 7th North American Rat Research Symposium, Greensville, Fl. Paper read, "Morphospace and food space in a Zambian cave bat community."

Gosz, James R. The Institute of Ecology, Univ. Representative & Chairman - New Programs Committee.

Johnson, Gordon V. Papers presented at Annual Meeting of Southwestern and Rocky Mountain Division of American Association for the Advancement of Science, April, 1976: "Vegetative propagation in saltgrass rhizomes" presented by K. Pavlicek; "The effect of some growth retardants on *Atriplex canescens* seedlings," presented by B. Hjelle; "Determining and overcoming dormancy for seed germination tests of certain species of arid land plants" presented by D. Sabo, co-author W. Martin; "Characteristics of

Johnson, Gordon V. (cont.) blue-green algal blooms in two northern New Mexico Lakes," presented by G. Johnson, co-author L. Barton at Tucson, Ariz. Abstracts of these four papers were published in the Journal of the Arizona Academy of Science 11: Proceedings Supplement (1976). Secretary Botanical Section, Southwestern and Rocky Mountain Division American Association for the Advancement of Science (1973-76). Vice Chairman Botanical Section, SWARM AAAS (1976-78).

Kerkof, Paul R. Attended the First International Congress on Cell Biology in Boston, Mass. in September, 1976, with 3 students.

Kidd, David. Teaching consultant to AAAS. Director of Outstanding Biology Teacher Award Program in New Mexico (National Association of Biology Teachers). Associate Editor of SWANEWS (Southwestern Naturalists Association).

Kogoma, Tokio. "Escherichia coli Mutants capable of DNA Replication in the Absence of Protein Synthesis." Paper presented at the Annual Meeting of the American Society for Microbiology, May, 1976.

Ligon, J. David. Secretary of the Cooper Ornithological Society; Board of Directors of the Cooper Ornithological Society.

Martin, William C. AAAS meeting in Tucson, Spring 1976. (papers delivered with Warren Wagner and David Sabo); November 1976 (paper delivered with Warren Wagner); Canadian Land Reclamation Association at Guelph, Canada, "Natural Succession on strip-mined lands.

Molles, Manuel C. "Fish Species Diversity on Model and Natural Patch Reefs: Experimental Insular Biogeography" major address presented at the Guild of Rocky Mountain Population Biologists. "Habitat Alteration, Introduced Species and the Native Fishes of the Upper Colorado River Basin; A Problem of Insular Biogeography?" Paper presented at the Resources for the Future Forum on the Impact of Energy Development on Western Waters, Fish and Wildlife (Sponsored by U.S. F & W S) October, 1976.

Potter, Loren D. Vice-President for Research for the Eisenhower Consortium for Western Environmental Forestry Research, charge of research allocations and several meetings. 1) "Correlation of Indicator Plants and Archeological Sites, Chaco Canyon National Monument," a paper presented at SW Div. of AAAS, Apr., 1976 (with R. Young). 2) "Macroinvertebrates and Diatoms on Submerged Bottom Substrates, Lake Powell," a paper presented at SW Div. of AAAS, Apr., 1976 (with E. Louderbough). 3) Some

Potter, Loren D. (cont.) Ecological Principles of Mining and Mill Pond Revegetation," paper presented at Los Alamos Scientific Seminar, Aug., 1976. 4) "Ecology of Colorado River Reservoir Shorelines," paper presented at Resources for the Future Forum on the Impact of Energy Development on Western Waters, Fish and Wildlife, Oct. 1976. 5) "Ecology of Shoreline Vegetation, Lake Powell," paper presented at AIBS-NPS First Conference on Scientific Research in the National Parks, Nov. 1976.

Riedesel, Marvin L. Member, Educational Materials Review Board of the Education Committee, American Physiological Society, 1975 to present. Member, AAAS Office of International Science Advisory Committee on Desertification (AAAS/COD), 1976-78. Chairman, Committee on Desert and Arid Zones Research (CODAZR), SW&RM Div AAAS, 1975 to present, "Urea catabolism and energy balance during periods of food deprivation in a hibernator" 1976 Abstract, Fed Proc 35: 401, a paper presented at Fed. Amer. Soc. Exper. Biol. (FASEB) 60th Ann. Mtg., Anaheim, CA, April 11-16. (with G. L. Rigler & A. K. Moore). "Role of evaporation in dissipation of body heat by the ornate box turtle" 1976 Abstract, Ecological Soc. Amer. (Bull.) 57:37, a paper presented at the Ecol. Soc. Amer. 27th Ann. AIBS Mtgs., Tulane Univ., May 30-June 4. First author: B. A. Sturbaum.

Taylor, Fritz. Presented paper: "Insect populations in seasonal environments" Rocky Mountain Guild of Population Biology, Boulder, CO, Sept. 10.

Thornhill, Randy. "Scorpionflies as kleptoparasites of web-building spiders," a paper presented at Rocky Mountain Conference of Parasitologists meeting in Albuquerque, NM. "Criteria of female choice," a paper presented at Rocky Mountain Guild of Population Biologists in Boulder, CO. "Courtship behavior and sexual selection," an invitational paper presented at the Animal Behavior Society meetings in Boulder, CO. "Intra- and Intersexual selection and the evolution of mating behavior in insects, an invitational paper presented at the XV International Congress of Entomology in Washington, D.C.

Toolson, Eric. Paper presented at the American Society of Zoologists, June 1976.

7. Other professional activities.

Baca, Oswald G. Was invited to present a seminar at NM State Univ. on "Photochemical cross-linking of ribosomal proteins to ribosomal RNA. Invited to present paper in Czechoslovakia at the II International Symposium on Rickettsiae and Rickettsial Diseases.

- Barton, Larry. Consultant for several commercial firms in the southwest. Member of Sigma Xi; American Society for Microbiology; American Association for the Advancement of Sciences.
- Cates, Rex G. University of Wyoming, Biology Dept., and Biochemistry Dept., April, 1976, invited to give a seminar. NM State Univ., Biology Dept., April, 1976, invited to give a seminar.
- Degenhardt, William G. Reviewed papers for Copeia, Herpetologica, Southwestern Naturalist. Served on Research Advisory Council, Big Bend National Park and as collaborator for National Park Service, Regional Status. Spoke to the N.M. Herpetological Society.
- Duszynski, Donald W. Hosted the 1976 Annual Meeting of the Rocky Mountain Conference of Parasitologists (May, 1976).
- Gosz, James R. Seminar presented at Rutgers College, New Jersey. Papers presented at Fresno, CA (CA. Region Forest Service), Flagstaff, Ariz. (SW Region Forest Service), Salt Lake City (Intermountain Region Forest Service), Santa Fe (Santa Fe National Forest Service). Consultant for Exxon exploration in Gila National Forest.
- Johnson, Gordon V. Presented lecture to Albuquerque Bonsai Club, "Minerals and nutrition of plants," Jan. 1976. Presented lecture to Albuquerque Rose Society, "Soil minerals and plant growth," Jan. 1976. Conducted laboratory for Biology 496; Use of ^{14}C to measure primary productivity.
- Kidd, David. Consultant, CERF, one day, Spring, 1976.
- Ligon, J. David. Invited to give a seminar at Serengeti Research Institute, Seronera, Tanzania. Seminar at Max-Planck Institute for Behavioral Physiology, Lake Navuru, Kenya. Gave seminars at Arizona State University and UNM. Gave material and information for TV program, local educational channel. Talked to East African Women's League, Naivasha, Kenya; Pembroke School, Gilgil, Kenya; Local chapter of Audubon Society; Sandia Mountain Wildlife and Conservation Association.
- Martin, William C. Several off-campus talks to local organizations; TV appearance on Channel 5; consultant to many governmental agencies, ie., U.S. Air Force, BLM, Forest Service, Fish & Game, also Nature Conservancy and National Geographic.

Molles, Manuel C. Worked with N.M. Dept. of Game & Fish to assess the suitability of certain endemic aquatic species for state protected status. "Aquatic Biology Programs at the University of New Mexico." Talk given at the annual State Meeting of the NM Dept. of Game & Fish, April, 1976. Technical Advisor to UNM International Programs Officer (Gerald Slavin) at International Conference on Environmental Problems along the U.S.-Mexico Border, April, 1976.

Potter, Loren D. "The Many Facets of Pollen," paper presented as guest speaker, N.M. Medical Convention of Allergists, May 1976.

Riedesel, Marvin L. Reviewer, manuscripts for publication in Life Sciences; Ecology, Sports Med; American Journal Physiology; Southwestern Naturalist. Off-campus lecturer, AIBS/ERDA Visiting Scientist Program. "Man's Impact on the Desert and Biological Adaptations to Deserts" and "Memory, Hibernation, and Behavior" Montana State University, Bozeman, Jan. 15. "Physiological Adaptations to the Desert" and "Man's Impact on the Desert" Colorado Women's College, Denver, Jan. 8-9. "Biological Adaptations to Arid Lands," "Man's Impact on Arid Lands," and "Memory and Hibernation" West Texas State University, Canyon, March 4-5.

Thornhill, Randy

Gave seminars at Departments of Systematics and Ecology, and of Entomology, University of Kansas, Lawrence, Kans.; Museum of Comparative Zoology, Harvard University, Cambridge, MA.

THE REPORT OF THE DEPARTMENT OF CHEMISTRY

July 1, 1976 to June 30, 1977

Guido H. Daub, Chairman

I. General Departmental Information

A. Significant Achievements During the Academic Year 1976-77.

During the year 1976-77 seventeen (fifteen males and two females) undergraduate majors received the B. S. Degree and ten (eight males and two females) students received the B. A. Degree in Chemistry. A total of forty-eight students received a minor in Chemistry. At the graduate level, there were four students (three males, one female) who received the M. S. in Chemistry and five students (five males and no female) who received the Ph.D.

The Department's attempt to obtain funds from the National Science Foundation for the necessary equipment to set up a high quality X-ray crystallography laboratory was unsuccessful; however, our proposal received ratings of excellent, very good to excellent, very good, and three goods from the six reviewers. We are encouraged by these results and will apply again next year for funds to equip this kind of laboratory facility. I have been told by Dr. Thomas C. Farrar of the National Science Foundation that this was a lean year for funds and that our proposal should have an excellent chance next year.

The Department purchased the circular dichroism instrument which was funded by the NSF at the end of May, 1976. Monies received from the NSF totaled \$43,000 and the University supplied \$43,000 for the purchase of this instrument. Dr. Allen, who prepared the proposal, and was active in purchasing the actual instrument, has it functioning at this time and the members of the department will be actively using this instrument in present and future research. In addition to Professor Allen, Professors Hollstein, Tapscott, Morrow, Paine, Coleman and

Holder, have research interests which will utilize this instrument. The Department of Chemistry is grateful to Vice Presidents Perovich, Travelstead and Silverman for their role in approving matching funds for this facility. We also thank the Dean of the College of Arts and Sciences for his support.

The Department's collaboration with the Los Alamos Scientific Laboratory is continuing in that the intra-institutional loans of instrumentation is still going on. The Chemistry Department still has on loan the Cary Model 81 Raman spectrometer from the CNC-4 Group at Los Alamos; however, the Los Alamos CNC-2 Group has returned the Tronac Calorimeter loaned to them by the University. At the present time, the Tronac Calorimeter is being repaired by its manufacturer. In addition, the Department has on loan several items of equipment from Los Alamos which are being used in the dye laser project being conducted by Professors Coleman and Daub.

The Department still has need for more funding for the purchase of instrumentation and other equipment needed for its graduate research program. Some of these needs will be met by the current bond issue; however, replacement costs of instrumentation which is no longer in good condition will be needed. I am confident that such funds may be obtained as needed to help us meet these demands.

During the 1975-76 school year, the faculty in the University was asked by the Administration to estimate the cost of replacing obsolete equipment and it was Chemistry's opinion that at least \$80,000 per year would be needed during the next five years to replace such outmoded equipment, much of it needed to up-date the laboratories for Chemistry 331L, 332L and 454L. A five year plan for such improvements has been submitted to the Dean by the Department of Chemistry. I have attached copies of this plan to this report as Appendix A.

Enrollments in Chemistry still continue to hold. There is a continual need for equipment for the teaching laboratories. This situation is expected to continue and the Department's allotment from the bond issue funds should help to solve these needs (See Appendix B of this report)

Our biochemistry program jointly sponsored with the Department of Biochemistry in the School of Medicine, is still holding its own in that some new students in our graduate program are interested in this area. We hope that this relationship will continue in the future. In addition, we have recently added the proficiency examination in Biochemistry as one of the examinations taken by entering graduate students.

During the past year, the Department continued to use student help to provide a combined wood and metal shop technician. The need for a machinist and machine shop facility for Chemistry still exists. The Dean should consider hiring such a person who could serve Chemistry, Biology and Geology in such a capacity on a full time basis. This recommendation has been made for the past three years, but still has not been acted upon positively.

As in the past, members of the Department were evaluated by student opinion in the Fall Semester. These evaluations were tabulated and sent to the office of the Dean of Arts and Sciences. In general, our faculty appears to be doing a good job at both the graduate and undergraduate levels.

The school year 1976-77 was the third year that the Department's policy on not offering trailer courses in freshman and organic chemistry was in effect; however, in the Spring of 1977, it was decided to again offer trailer courses in these areas. Thus Chemistry 101 and 301, 303L were offered in the Spring Semester of 1977 with good enrollments. We also have added the trailer sections 122L (formerly 102L), 302 and 304L for the Fall Semester of 1977.

We feel that we do have the faculty to offer these trailers; however, it does place a burden on our laboratory space in the Fall of the year. We will have to limit our enrollments in these courses this Fall based on the laboratory space that is available. If indeed the Administration's prediction that freshman enrollment should be down approximately fifteen percent is correct, we should be able to handle all enrollments in the Chemistry 122L laboratory. Although we have been offering Chemistry 101L and 102L and the organic sequence in the summer as sequential courses, each section being of four weeks duration, we may not continue this policy in the future since the trailer courses have been reinstated. Thus for the Summer of 1978, I am seriously considering going back to our old plan of offering those four courses as eight-week sessions.

During the school year 1976-77 the Chemistry Department's Seminar Program was financed by donations from Alumni and other interested parties as well as the supply and expense budget of the Department. Donations to the Seminar Fund totaled approximately \$300. This program was also funded through the auspices of the University of New Mexico Colloquium Committee in the area of \$1500. An estimate of the total cost of this program for 1976-77 was somewhere between \$3500. and \$4000. The Seminar speakers and titles of their talks for the year 1976-77 are shown in Table I.

Table I

Seminar Speakers 1976-1977

Dr. R. E. Ireland September 10, 1976	The Claisen Rearrangement--Aphidicolin and Prostanoids	California Institute of Technology
Dr. Michael Hanack September 16, 1976	Generation of Vinyl Cations through Solvolytic Reactions	Institut für Organische Chemie - Universität Tübingen
Dr. Michael J. Waring September 17, 1976	Mechanism and Specificity in the Binding of Drugs to DNA	University of Cambridge
Dr. E. A. Walters October 8, 1976	Lasers in Chemical Dynamics	University of New Mexico
Dr. Wm. C. Herndon October 15, 1976	Isospectro Molecules	University of Texas, El Paso
Dr. Wm. Scovell October 20, 1976	Binding of cis-dionine Pt (II) Complexes to Nucleic Acids	Bowling Green University
Dr. Robert D. Feltham Ocyober 22, 1977	Infrared Spectra of Linear and Bent Tran- sition Metal Nitrosyls	University of Arizona
Dr. Paul J. Flory October 28, 1977	Macromolecules from a Molecular Point of View	Stanford University
Dr. Kazuo Nakamoto November 5, 1976	Recent Advances in Inorganic Vibrational Spectroscopy	Marquette University
Dr. Arnulf P. Hagen November 8, 1976	High Pressure Reactions of Small Covalent Molecules	University of Oklahoma
Dr. Charles Wilkins November 11, 1976	Chemical Applications of Pattern Recognition for Structure-Activity Studies	University of Nebraska
Dr. Karen Morse November 11, 1976	Hydroboration: The Missing Link	Utah State University
Dr. Jurgen Sauer November 19, 1976	Nitrenes as Reactive Intermediates in Organic Chemistry	Universität Regensburg Fachbereich Chemie und Pharmazie, Germany
Dr. Peter Brown November 30, 1976	Organic Mass Spectrometry	Arizona State University
Dr. J. B. Kinsinger December 3, 1976	Chemistry in the 1980's; The Cutting Edge of Chemical Research	National Science Founda- tion
Dr. Simund Bauer December 9, 1976	The Chemistry of Vibrationally Excited Molecules	Cornell University
Dr. H. A. Laitinen December 10, 1976	Tin Oxide Electrodes as Substitutes for Noble Metals	University of Florida

Dr. Myron Jacobson January 27, 1977	Regulation of Pyridine Nucleotide Metabolism	North Texas State University
Dr. E. J. Eisenbraun January 28, 1977	Anti Fertility Compounds related to Diethylstilbestrol and Steroids	Oklahoma State University
Dr. Steve Davis January 28, 1977	The Search for Visible Chemical Lasers	Kirtland Air Force Weapons Laboratory
Dr. Henry Kuivila February 4, 1977	Organostannyl Anions, Organic Halides, and Carbanions	State University of New York, Albany
Dr. John Verkade February 11, 1977	A New Nonmathematical Approach to Teaching M.O. Concepts to Undergraduates	Iowa State University
Dr. J. M. White February 16, 1977	Surface Chemistry - The Interaction of Small Alcohols with Metal Oxides	University of Texas
Dr. Victor Day February 18, 1977	Coordination Geometries for Metallo-Macrocycles	University of Nebraska
Dr. Dale W. Margerum February 25, 1977	Cu(III) and Ni(III) Peptide Complexes	Purdue University
Dr. Alan Cowley March 4, 1977	Photoelectron Spectroscopy of Phosphine Compounds	University of Texas, Austin
Dr. Howard Zimmerman March 10, 1977	Twenty Years of Organic Photochemistry: A Survey	University of Wisconsin, Madison
Dr. Howard Zimmerman March 11, 1977	Mechanistic and Exploratory Organic Photochemistry: Recent Results	University of Wisconsin, Madison
Dr. Max W. Miller March 25, 1977	The Discovery of Tiazuril, an Anti-protozoal Agent	Pfizer, Inc.
Dr. Edward E. Daub March 31, 1977	Gibbs' Contribution to Thermodynamics	University of Wisconsin, Madison
Dr. Ronald Cavell March 29, 1977	Chemistry and Stereochemistry of Penta-coordinate Trifluoromethylphosphorones	University of Alberta, Canada
Dr. A. I. Popov April 8, 1977	Uses of Multinuclear NMR for the Study of Alkali Complexes in Nonaqueous Solvents	Michigan State University
Dr. R. A. Firestone April 12, 1977	1,3-Dipolar Cycloadditions	Merck Sharp & Dohme Research Laboratories
Dr. Christie G. Enke April 15, 1977	Data Communication in the Chemistry Laboratory - Form and Function	Michigan State University
Dr. W. R. Willcott April 22, 1977	Practical NMR Notes for a LX-100 NTC 1080 FFT NMR System	University of Houston

Dr. Jerry Mills
April 22, 1977

Phosphorus Ring Compounds

Texas Tech University

Dr. H. C. Brown
May 6, 1977

The Nonclassical Ion Problem

Purdue University

B. Significant Plans and Recommendations for the Near Future

Plans to renovate the older portion of Clark Hall have been developed and a proposal was sent to the Dean in January, 1977. (See Appendix C).

Rooms 109 and 109A should be renovated so as to provide better facilities for our freshman undergraduate honors section of general chemistry (Chemistry 131 and 132). The laboratory benches in these rooms are forty to fifty years old and replacement of them with other renovations including new fume hoods and paint has been recommended. We are earnest about this endeavor and feel that we must find these kinds of funds in order to improve the laboratory situation for our B. S. majors.

When Clark Hall was built, its undergraduate laboratories were furnished with the old laboratory benches from the then existing chemistry building. This was understandable since the University did not feel that it had the funds to furnish the new building the way it should have been. There were promises that eventually new furniture would be obtained, but this has never materialized. Several years ago we did manage to obtain funds to add laboratory benches to Chemistry 207 (the freshman laboratory), we also received funds two years ago to refurbish the laboratory which is now used by Professor Paine as a research laboratory. The renovation of Room 109 and 109A is another project that is long over due and every effort should be made to allow us to make these renovations during the summer of 1978.

In addition to the above we have recommended that Rooms 104, 106, 108 and 118 be modified to provide expanded facilities for the sophomore course, Chemistry 253L, Quantitative Analysis. The modification of Room 118 has already been

completed. This room is now being used as a storage facility for unknown samples and as a crisis center. A teaching assistant is on duty a good share of the time to provide assistance to Chemistry 253L students needing help with the course material. As a temporary measure, the basement laboratory was renovated three years ago to provide added facilities for Chemistry 253L. The modification of Rooms 104, 106 and 108 would convert the entire east side of the old Clark Hall to the teaching of elementary Quantitative Analysis and would free the basement laboratory as a research area for added faculty (for example, the possible "distinguished professor" position we are considering).

Another room which must be renovated is Room 211 in Clark Hall, Chemistry's plan is to convert this room into a general inorganic chemistry research laboratory. This room is presently equipped with furniture which is well over 40 years old. When Clark Hall was built in 1953, some of the research laboratories were furnished with old laboratory benches from Old Chemistry. Although most of the research laboratories were furnished with new bench facilities, Room 211 was one of the rooms that was furnished with very old laboratory furniture. Our plans require the old benches in the room be removed and replaced with new furniture. See Appendix C for details.

The recommendations made above are intended to save the University money in the long run. The Chemistry Building, at the present time is almost filled to capacity and within a few years a new wing should be added. This wing should contain facilities for a general chemistry center, additional laboratory facilities for freshman chemistry, organic chemistry and additional general laboratory space to be used for research as outlined in Appendix C.

In the meantime, to stem the tide, the renovation of Rooms 109, 109A, 104, 106, 108 and 211 should be carried out.. A decision on this request should be

made as soon as possible so that the necessary laboratory furniture can be ordered in time for installation during the summer of 1978.

In addition to the above recommendations, the University is urged to replace the existing furniture in Rooms 112 and 116 (the current quantitative analysis laboratories) as specified in Appendix C.

There is also a need for additional help for Chemistry, Biology, and Geology in the area of an electronic technician. Mr. Earle George is now serving each of these three departments on a one-third time basis and this is not enough. We should have an additional full time electronic technician to make Chemistry's instrumentation servicing even adequate. In Chemistry we have been relying on work study personnel to help fill this need; however, only two such persons that we have hired have really been a help to Mr. George. The others are people who really had not had enough training in this area to be very useful. We must, if at all possible, acquire the services of an additional, permanent, full time electronics technician. This is another post that should be filled by July 1978. We have asked for this kind of additional help for several years now and I think every effort should be made to find this additional technician. Some faculty have asked that the new technician be the type of person who can design and build equipment. This kind of person would complement Mr. George's services since Mr. George does only repair work and is not well suited for design.

As pointed out earlier, the Department has need for a machine shop technician. During the past three years, I have informed the Dean that the University maintains an excellent shop in the College of Engineering, having all of the necessary machinery for doing high quality machine shop work. As I mentioned before in this report, funds should be provided to the Departments of Chemistry, Biology, and Geology jointly to hire a highly qualified machinist or shop technician

who would be allowed to work in the Engineering College machine shop. I strongly recommend that this position be funded starting July 1, 1978. As reported earlier here, we have been making use of seniors in the Department of Industrial Education for a shop man, but a permanent position of this kind should be funded.

In the coming year, we will resubmit our proposal to the NSF for an automated diffractometer. This proposal will be revised by Dr. Charles F. Campana. This will again be a joint proposal involving both the Chemistry and Geology Departments. Of course, other faculty members from Chemistry will participate in the preparation of this proposal. Our estimate at this time is that the cost of this equipment will be in the neighborhood of \$130,000. Of this we hope to obtain \$65,000 from the NSF and \$65,000 from the University Administration.

In my reports of the last several years I have stated that the City Fire Marshall has been critical of safety conditions in our building. Recommendations which were made were that our refrigerators used to store chemicals should be of the explosion proof type and a suitable fire alarm and emergency lighting system should be installed in the old wing of the building. As of this writing, none of these deficiencies has been rectified because of other pressing needs. Surely steps should be taken by the University to correct these deficiencies. In 1971 an accident occurred which cutoff power to several University buildings, one of which was Chemistry. At the time this happened, evening labs were being held in both the old and new wings. The students in the new wing had emergency lighting in the laboratory; however, those in the old wing were instantaneously cast into a sea of darkness. In a laboratory containing materials which could be dangerous, the students had to grope their way about in order to replace the equipment, lock their drawers and scurry from the building. Admittedly, the

chance of such a thing happening again is probably remote, but this is no excuse to put off such safety precautions. No progress has been made in this area during the past several years and I should point out that the Chemistry Department can not afford the cost of installing these systems unless the University added extra funds to our budget for this purpose.

As reported in the last several years, the Chemistry Department also has a need for a larger number of graduate assistants. Through the efforts of the Dean of Arts and Sciences College, we have managed to obtain the necessary funds for needed personnel in this area; however, we would prefer that all of these funds were tied in with teaching assistantships rather than some of them being for special assistantships. I am asking that the Dean do all in his power to convince the Provost that all of the assistantships in Chemistry for the school year be of the teaching assistantship type, rather than some of them being for teaching assistants and others being in the category of special assistants.

At the suggestion of the Dean, the Department embarked on a search for candidates for a position of "distinguished professor of Chemistry" to serve in the Chemistry Department. A committee chaired by Professor Niemczyk has been working on this, and a substantial file of possible candidates is now on hand.

In order to provide space for such a person the renovation recommendations involving Rooms 104, 106 and 108 must be started as soon as possible.

C. Appointments to Staff

Dr. Charles F. Campana joined the Department of Chemistry in August, 1976, as Assistant Professor of Chemistry. He is an inorganic chemist and specializes in X-ray crystallography.

Mr. Russell Hallett joined the Department as senior storekeeper in April, 1977.

D. Separations from Staff

Mr. Mark Davis resigned as senior storekeeper in April, 1977.

II. Composite of Information Requested on Individual Biographical Supplement:

1. Advanced Study:

None.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.:

- (a) EDWARD A. WALTERS: Sabbatical 1 January - 7 February, University of Kent, Canterbury, England; 7 February - 1 August, Max-Planck-Institut für Stromungsforschung, Göttingen, Germany. Norwegian Defence Research Establishment, Kjeller, Norway, July 6-8 to consult with Dr. Otto Røge on questions of proton transfer, Los Alamos Scientific Laboratory.

3. New Scholastic Honors, Fellowships, etc.:

- (a) ROY D. CATON, JR: Teacher of the month, February 1976, UNM (Sponsored by Los Campanas)
- (b) WILLIAM F. COLEMAN: Received McArthur Alumni Achievement Award from Eckerd College (formerly Florida Presbyterian College) May 25, 1976. Listed in newest editions of Who's Who in the West and American Men and Women of Science.
- (c) GUIDO H. DAUB: Received the Honor Scroll from the New Mexico Institute of Chemists in May of 1976, inscription reads as follows: "awarded to Guido H. Daub in recognition of his accomplishments as a dedicated and innovative teacher of chemistry; for the high quality of research and publications in the field of organic chemistry; and for exceptional leadership as chairman of the Department of Chemistry, the University of New Mexico."
- (d) ROBERT T. PAINE, JR: Member New York Academy of Sciences.
- (e) SU-MOON PARK: Nominated "American Men and Women in Sciences"
- (f) EDWARD A. WALTERS: Visiting Senior Scientist, University of Kent, Canterbury, England. Institut Guest, MPI für Stromungsforschung, Göttingen, Germany.

4. Publications:

(a) FRITZ ALLEN

- (1) "Preferred Base Sites of Actinomycin - DNA Binding by Circular Dichroism," JACS, 98, 864 (1976) with U. Hollstein and R. Moen.

(b) ROY D. CATON, JR

- (1) Review of G. Gordon and W. Zoller, "Chemistry in Modern Perspective," in Journal of Chemical Education, 1976, Volume 53, No. 10, pp A429-A430.
- (2) "Analysis of Errors in the Capillary Method for Determining Diffusion Coefficients," Analytical Chemistry, 1976, Volume 48, No. 1, pp 228-229. Co-author: Newton C. Fawcett.

(b) ROY D. CATON, JR (Cont'd)

- (3) "Determination of Diffusion Coefficients by Diffusion from Tubes," Analytical Chemistry, 1976, Volume 48, No. 3, pp 600-604. Co-author: Newton C. Fawcett.
- (4) "Development of High Pressure Liquid Chromatographic Techniques, Final Report for Period December 1, 1975 - June 30, 1976," August, 1976, CERF EE-10, Air Force Civil Engineering Center, Air Force Systems Command, Tyndall Air Force Base, Florida, 32401. Co-authors: James R. Matthews and Edward A. Walters.

(c) WILLIAM F. COLEMAN

- (1) "Spectroscopy and Photochemistry of Metal Hexafluorides." NBS Special Publication 256, pp 147-160, 1976 (co-author R.T. Paine).
- (2) 5 papers are accepted and currently in press.

(d) GUIDO H. DAUB

- (1) A Simple Method for the Radiiodination of a Lipophilic Dye, J. Nuc. Med. and Biol., 1, 217 (1974), with H.G. Pena, L. Robbins and R.S. Watts, (never previously listed among publications).
- (2) An Improved Synthesis of 4-Ethylsulfonyl-1-naphthalenesulfonamide, J. Org. Chem., 41, 883 (1976), with Thomas W. Whaley.
- (3) Synthesis of Carbon-13-Labelled 6-Substituted Benzo[a]pyrenes, Journal of Labelled Compounds and Radiopharmaceuticals Vol. XII, No. 3, with Robert Royer and David Vander Jagt.

(e) RICHARD W. HOLDER

- (1) "Ketene Cycloadditions," Journal of Chemical Education, Vol. 53, p. 81 (1976)
- (2) "Preparation of Vinylketene by 1,4-Elimination. Cyloaddition and Isomerization to Form α -Ethylidenecyclobutanones," Journal of Organic Chemistry, Vol. 41, p. 3303 (1976)

(f) ULRICH HOLLSTEIN

- (1) Preferred Base Sites of Actinomycin-Deoxyribonucleic Acid Bindings by Circular Dichroism, J. Am. Chem. Soc., 98, 864 (1976). Co-authors: F.S. Allen and R.P. Moen
- (2) Carbon-13 Nuclear Magnetic Resonance Chemical Shifts of Substituted Phenazines, J. Org. Chem., 41, 2104 (1976). Co-Author: E. Breitmaier.
- (3) Biosynthesis of Phenazines-The Role of Phenazine-1,6-dicarboxylic Acid, Tetrahedron Letters #37,3267 (1976). Co-authors: G.E. Krisov and D.L. Mock.

(f) ULRICH HOLLSTEIN (Cont'd)

385

- (4) Synthesis of 1-Phenyl-2-Phenyl-1-¹³C-ethene-1-¹³C (Trans-stilbene) and Derivatives, J. Lab. Compounds and Radiopharmaceuticals, 12, 507 (1976). Co-author: G.A. Braden.
- (5) Complete Assignment of the ¹³C n.m.r. Spectrum of Mutarotated D-ribose by Integration and Specific Deuteration, Org. Magn. Res., 8, 573 (1976). Co-author: E. Breitmaier.

(g) THOMAS E. JONES

- (1) "Simple Models for 'Blue' Copper Proteins. The Copper-Thiaether Complexes," JACS, 97(26) 7485 (1975).
- (2) "Redox Properties of Copper-Thiaether Complexes. Comparison to Blue Copper Protein Behavior," JACS, 98(7), 4322 (1976).

(h) MILTON KAHN

- (1) "Chemical Isolation of ⁸²Sr From Proton-Irradiated Mo Targets" (with P.M. Grant and H.A. O'Brien) United States Patent 3,957,945; May 18, 1976.

(i) WILLIAM M. LITCHMAN

- (1) "Heteronuclear Double Resonance: Intensity Effects as a Function of Power and Frequency" J. Mag. Res. In Press.
- (2) "Heteronuclear Double Resonance: Theoretical Description of Intensity Effects in A(X₂) and A(X₃) Systems" J. Mag. Res. In Press.

(j) GARY J. MORROW

- (1) "A new Approach to the Resolution of Enantiomers by Gas Chromatography," Tetrahedron Letters, 1047 (1976) with P.D. Maestas.
- (2) "Claisen Rearrangment with Hydroxymethyl pyridines and Hydroxymethyl-pyridones," Journal of Organic Chemistry, 41, 535 (1976), with C.R. Costin and H. Rapoport.

(k) THOMAS M. NIEMCZYK

- (1) "An Inexpensive Vacuum Furnace" with D.G. Ettinger, Chemical Instrumentation, 7, 139 (1976).
- (2) "Mechanism of Infrared-to-Visible Conversion in YF₃:Yb,Er" with D.G. Ettinger, submitted to J. Luminescence.
- (3) The Rate of Reaction of Gel ³²P Atoms with H₂O" with P.M. Swearingen, S.J. Davis and S.G. Hadley, Submitted to Chem. Phys. Let.

(l) ROBERT T. PAINE, JR

- (1) R.T. Paine and L.A. Quarterman, "Solution Properties of Inorganic Pentafluorides and Oxide Tetrafluorides in Anhydrous Hydrogen Fluoride," J. Inorg. Nucl. Chem., H.H. Hyman Memorial Issue, 85 (1976).

(l) ROBERT T. PAINE (Cont'd)

- (2) R.T. Paine, R.S. McDowell, L.B. Asprey, L.H. Jones, "Vibrational Spectroscopy of Matrix Isolated UF_6 and UF_5 ", J. Chem. Phys. 64, 3081 (1976).
- (3) R.T. Paine and R.R. Ryan, "Single Crystal X-ray Study of β - UF_5 ; The Eight Coordination of U(V)" ACTA Cryst., 32B, 0000 (1976).
- (4) W.B. Lewis, L.B. Asprey, R.S. McDowell, L.H. Jones and R.T. Paine, "Electronic Spectroscopy of Matrix Isolated UF_6 ", J. Chem. Phys. 65, 2707 (1976).

(m) E. PAUL PAPADOPOULOS

- (1) "Friedel-Crafts Thioacylation with Ethoxycarbon Isothiocyanate", J. Org. Chem. 41, 962 (1976).
- (2) "Reactions of 2-aminopyridine with Picryl Halides," J. Heterocycl. Chem., 13, 845 (1976).
- (3) "Heterocycles from N-Ethoxycarbonylthioamides and Dinucleophilic Reagents," J. Org. Chem., 41, 3233 (1976).

(n) SU-MOON PARK

- (1) "The Production of Benzophenone Phosphorescence in Fluid Solutions by Radical Ion Reaction, " Chem. Phys. Letts., 38, 257 (1976).

(o) ROBERT E. TAPSCOTT

- (1) "Tartrate-Bridges Chromium(III) Complexes. Synthesis and Characterization," Inorganic Chemistry, 1976, Vol 15, pp 154-159. Co-author: G.L. Robbins.
- (2) "Magnetic Studies of Vanadyl(IV) Tartrate Dimers," Journal of Molecular Structure, in press. Co-authors: V.C. Crawford and W.E. Hatfield.
- (3) "An ESR Study of Vanadyl(IV) Tartrate and Methyl-Substituted Tartrate Complexes," Journal of Magnetic Resonance, in press. Co-authors: M.E. McIlwain and W.F. Coleman.

(p) EDWARD A. WALTERS

- (1) "Lasers in Chemical Dynamics," Chapter in a book scheduled for publication December 15, 1976.
- (2) "Report of Sabbatical Leave, 1975-1976 Academic Year," submitted to Dr. Chester Travelstead, September 20, 1976.
- (3) Report No. CERF EE-3 to Air Force Weapons Laboratory, Edward A. Walters, "Development of High Pressure Liquid Chromatographic Techniques," October, 1975, 43 pp. (not previously listed).
- (4) Report No. CERF EE-4 to Air Force Weapons Laboratory, Roy D. Caton, Jr. and Edward A. Walters, "Development of High Pressure Liquid Chromatographic Techniques, II," February, 1976, 42 pp.

(p) EDWARD A. WALTERS (Cont'd)

- (5) Report No. CERF EE-10 to Air Force Weapons Laboratory, Roy D. Caton, Jr J.R. Matthews, E.A. Walters, "Development of High Pressure Liquid Chromatographic Techniques, III, August, 1976, 55 pp.
- (6) Interim report to Energy Resources Board, H.E. Nuttall and E.A. Walters, "An Interdisciplinary Investigation of Coal Gasification Mechanisms and Kinetics for the Optimal Development of New Mexico's Resources," September, 1976, 10 pp.
- (7) Final report to Energy Resources Board, R.D. Steele, H.E. Nuttall and E.A. Walters, "In Situ Gasification of New Mexico's Deep Seam Coal Deposits Via Non-Mining Techniques," December, 1976.

5. Other research projects or creative work in progress or completed.

(a) ROY D. CATON, Jr

- (1) Air Force Weapons Laboratory, Kirtland AFB; \$30,707; "Development of High Pressure Liquid Chromatography Techniques," December 1, 1975-June 30, 1976. (With Edward Walters, Chemistry Department). Responsible for writing renewal proposal for \$30,707.

(b) WILLIAM F. COLEMAN

- (1) Dye Laser Development, ERDA N66-17340-2, \$35,000 ending June 1, 1976 and \$6,100 September 1 - December 31, 1976, Sandia Corporation RFQ 06-5918 \$24,679 November 1, 1976 - December 31, 1977.
- (2) Uranium Spectroscopy, LASL N66-17232-1 \$5,200 January 1 - July 1, 1976 and \$8,000 in equipment.
- (3) Chromium Amino Acid Complexes, NIH Minority Biomedical Support Program, \$21,000 for 1976-77.
- (4) Laser Photochemistry, \$8,000 equipment grant from UNM.
- (5) Heavy Metal Fluorescence, Sandia Corporation RFQ 06-5830, \$31,000 equipment loan.
- (6) Catalysis at Solid Surfaces, joint with Sandia Corporation Solid State Group.
- (7) Charge Transfer Photochemistry, unsupported.
- (8) Magnetic Circular Dichroism, \$18,000 MCD unit part of departmental instrument grant from NSF.
- (9) Undergraduate Research Participation, NSF SML76-03264, \$12,460 thru May 31, 1977.

(c) GUIDO H. DAUB

- (1) Synthesis of Labelled Compounds; Synthesis and Study of ¹³C Labelled Benzo[a]pyrenes (supported by NIH with a grant of \$73,739 for the period July 1, 1976 through June 30, 1977.)

(c) GUIDO H. DAUB (Cont'd)

- (2) Synthesis and Evaluation of Organic Laser Dyes (funded by Sandia Corporation in the amount of \$24,679 for the period November 1, 1976 through December 30, 1977.

(d) RICHARD W. HOLDER

- (1) Petroleum Research Fund, \$11,000, "Cycloadditions of Disubstituted Cyclopentadienes," 2 years.
- (2) Research Corporation, \$6,000, "Sigmatropic Rearrangements," indeterminate duration.
- (3) Research Allocations Committee, UNM, \$939, "Concerted Reactions II," 9 months.
- (4) National Science Foundation Undergraduate Research Participation Program, \$1249, "Competing Sigmatropic Rearrangements," 2 months.

(e) ULRICH HOLLSTEIN

- (1) Preferred Base Sites of Actinomycin-DNA Bindings by CD, together with Dr. Allen, NIH grant, \$40,000.
- (2) Biosynthesis of Phenazines, NIH grant, \$66,000, expired 7-31-76.
- (3) Synthesis of Actinomycin analog with phenazine skeleton, NIH grant, \$20,000.
- (4) Synthesis of 5-substituted quinoxalines.
- (5) Synthesis of 1,2 and 1,3-di-¹³C labeled naphthalene.

(f) THOMAS E. JONES

- (1) Analytical Applications of Macrocyclic Thiaether Ligands, \$25,000.00, Sandia Laboratories, July 1, 1976 to October 1, 1977.
- (2) Kinetic Studies of Oxidation-Reduction of Manganese(III) Chelates.
- (3) Studies of Copper-Sulfur Complexes as Models for "Blue" Copper Proteins.
- (4) Solvent Effects in Metal Complexation Reactions.
- (5) Photochemical Decomposition of Manganese(III) Chelates, with W.F. Coleman.

(g) MILTON KAHN

- (1) Studies of the chemical behavior of "carrier free radioactive germanium and gallium are in progress.
- (2) On invitation by the Subcommittee on Radiochemistry of the National Academy of Sciences, the writing of a monograph on the radiochemistry of iodine (with J. Kleinberg) in progress.

(h) WILLIAM M. LITCHMAN

- (1) Double Resonance Effects in AX_2 and AX_3 Spin Systems, RAC \$1500, BSMS \$6000.
- (2) Carbon-13 Studies of Geometrical Isomers of Cobalt (III) Complexes.
- (3) Solvent Effects on Linear Alkyl Amines.
- (4) Control of Carbohydrate Metabolism.

(i) MIRIAM P. MALM

- (1) Writing course material for Chemistry 281 (Organic and Biochemistry for the Health Sciences).
- (2) Developing a laboratory to correlate with Chem 281.

(j) DONALD R. MCLAUGHLIN

- (1) Manuscript "The complete SCF and Full-CI potential-energy surfaces of HeH_2^+ system; ground and excited states", prepared.
- (2) Research for a definitive binding energy of HeH_3^+ completed.
- (3) Participated in 1977 department NSF undergraduate research proposal.

(k) CARY J. MORROW

- (1) Gas Chromatographic Resolution of Enantiomers," NIH, 3 years, \$27,209 for first year.
- (2) "The Synthesis of Heterocyclic and Homocyclic Compounds Having Potential Antifertility Activity," NIH-MSBS program, 3rd year of support, \$6,000.
- (3) Continued work on the synthesis of potential inhibitors of cholesterol biosynthesis.
- (4) Continued efforts to synthesize phosphorus-containing analogs of compounds related to the morphine alkaloids.

(l) THOMAS M. NIEMCZYK

- (1) An Inexpensive Sulfur Monitoring System" State of New Mexico Energy Resources Board, Aug. 15, 1975-Aug 14, 1976, \$45,000.
- (2) NIH Minority Biomedical support Grant - Project Director for the Chem. Dept., Ongoing - \$29,000 for 1976-77.

(m) E. PAUL PAPADOPOULOS

- (1) Reactions of Azoles with Isocyanates at Elevated Temperatures.
- (2) Heterocycles from N-Acylthiomides and Dinucleophilic Reagents
- (3) Reactions of Indole with Ethoxycarbonyl Isothiocyanate.
- (4) Heterocycles from N'-Ethoxycarbonylamidines.

(n) SU-MOON PARK

- (1) RAC: Electrogenerated Chemiluminescence of Naphthalene Derivatives. Completed.
- (2) RAC: Electrochemical Studies of β -Carotene, Retinal, and Retinol: In progress.
- (3) Electrochemical Studies of Carcinogenic Compounds: In progress.
- (4) Electrochemical Studies of Biologically important compounds: In progress.
- (5) Electrochemical Conversion of Solar Energy: In progress.

(o) ROBERT E. TAPSCOTT

- (1) NIH, \$38,995 direct costs, "Chelate Isomerism with meso and Prochiral Ligands," April 1, 1976-March 31, 1978.
- (2) NIH, \$30,000 jointly with other Chemistry Faculty.
- (3) Minority Biomedical Support, Sept. 9, 1976-Sept. 8, 1977.

(p) EDWARD A. WALTERS

- (1) Proton transfer studies, unsponsored at UNM but sponsored by University of Kent, Canterbury, England, during my sabbatical.
- (2) Orientational preference for energy transfer by Li_2 under single collision conditions, sponsored by Max-Planck-Institut fur Stromungsforschung during my sabbatical leave there.
- (3) Photoionization of van der Waals molecules, sponsored by AWU and LASL.
- (4) State-to-State Chemistry with molecular beams and lasers, sponsored by LASL.
- (5) Rapid proton transfer studies in aqueous, DMSO, and mixed media, unsponsored.
- (6) Coal gasification studies, sponsored by ERB, \$88,000, 1976.
- (7) In Situ coal gasification studies, sponsored by ERB, \$45,000, 1975-76.
- (8) Liquid chromatography detector development, sponsored by AWFL, \$43,000. January - June 1976.
- (9) Green River Oil Shale Characterization, sponsored by LASL.

6. Activities in learned and professional societies:

(a) FRITZ ALLEN

- (1) Paper read at American Chemical Society Meeting, San Francisco, Calif. Aug 29 - Sep 3, 1976, "Enthalpy of Schiff Base Formation," with Robert Hill.

(b) CHARLES F. CAMPANA

- (1) Advisor - Central New Mexico Section, American Chemical Society.

(c) ROY D. CATON, Jr.

- (1) Member American Chemical Society, The Electrochemical Society and Sigma Xi.

(d) WILLIAM F. COLEMAN

Papers Presented at Professional Meetings

- (1) "Development and Testing of UV Laser Dyes," present at LASL Lasers in Isotope Separation Conference, Albuquerque, NM, April 13-14, 1976.
- (2) "Matrix Isolated Luminescence Spectroscopy of Uranium Hexafluoride," presented at the 31st Symposium on Molecular Spectroscopy, Columbus, OH, June 14-18, 1976 (Co-author R.T. Paine).
- (3) "Charge Transfer Photochemistry of Cr(III) Chelates," presented at 3rd Rocky Mountain Regional ACS Meeting, Laramie, WY, June 17-19, 1976 (co-author Y.S. Kang).
- (4) "Synthesis and Characterization of New Cr(III) Ammine Complexes," presented at 3rd Rocky Mountain Regional ACS Meeting, Laramie, WY, June 17-19, 1976 (co-author Y.S. Kang).
- (5) "Luminescence of UF_6 ," invited paper presented in the Symposium on the Solid State, Laramie, WY, June 19, 1976 (co-author R.T. Paine).
- (6) "Spectroscopy and Photochemistry of Metal Hexafluorides," invited paper presented at the 12th Informal Conference of Photochemistry, National Bureau of Standards, Washington, D.C. June 29-July 2, 1976 (co-author R.T. Paine).
- (7) "Energy Transfer in the System Azulene-Cr(acac)₃," presented at the 32nd Southwest Regional ACS Meeting, Ft. Worth, TX, December 1-4, 1976.
- (8) "Redox Photochemistry of Cr(II) Ammine Complexes," presented at the 32nd Southwest Regional ACS Meeting, Ft. Worth, TX, December 1-4, 1976.
- (9) "Static and Dynamic Distortions in the Excited States of UF_6 ," presented at the 32nd Southwest Regional ACS Meeting, Ft. Worth, TX, December 1-4, 1976.

(e) GUIDO H. DAUB

- (1) Delivered a paper entitled "The Synthesis of 4-Ethylsulfonyl-1-naphthalenesulfonamide and Related Compounds", at the Rocky Mountain Meeting of the ACS at Laramie, WY, June 1976.

(f) RICHARD W. HOLDER

- (1) Attended Rocky Mountain Regional Meeting, ACS, June 17-19, 1976 at Laramie, WY.
- (2) Organic Chemistry Program Chairman, Rocky Mountain Regional Meeting, ACS, June 17-19, 1976.

(f) RICHARD W. HOLDER (Cont'd)

- (3) "Reduction of Alkyl Sulfonate Esters by Lithium Triethylborohydride," a paper presented at the Rocky Mountain Regional Meeting, ACS, June 17-19, 1976.
- (4) Awards Committee Chairman, Central New Mexico Section, ACS.
- (5) Treasure, Phi Beta Kappa, Alpha of New Mexico.

(g) ULRICH HOLLSTEIN

- (1) Read (invited) paper: Use of ^{13}C in the Elucidation of rearrangements under electron impact. Second Rocky Mountain Regional Meeting, Laramie, WY, June 17-19, 1976.

(h) THOMAS E. JONES

- (1) "Characterization of Blue Copper Protein Modes: Copper(II) Polythiaether Complexes", a paper present at the XVIIth International Conference on Coordination Chemistry, Hamburg, Germany, Sept 6-10, 1976.
- (2) Attended the 32nd Southwest Regional Meeting of the ACS, Ft. Worth, TX, December 1-3, 1976.

(i) MILTON KAHN

- (1) Member of Sigma Xi, Phi Kappa Phi, American Chemical Society, AAAS (fellow), New Mexico Academy of Science.

(j) MIRIAM P. MALM

- (1) Attended Spring meeting of the ACS, New York City, NY, Apr 1976.
- (2) Attended Executive Committee meeting of the International Society of Heterocyclic Chemistry, New York City, NY, Apr 1976

(k) DONALD R. MCLAUGHLIN

- (1) Attended annual meeting of Rocky Mountain Chemists, Boulder, CO, May 6-7, 1976.

(l) THOMAS M. NIEMCZYK

- (1) Three papers presented at the Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, March 1-5, 1976.
- (2) Paper presented at 21st Symposium on Molecular Spectroscopy, June 14-18, 1976, Columbus, OH.
- (3) Paper at the National ACS Meeting, Aug 29-Sep 3, 1976, San Francisco, CA.
- (4) Paper presented at the Pacific Conference on Chemistry and Spectroscopy, Nov 7-10, 1976, Phoenix, AZ.

(m) ROBERT T. PAINE

- (1) Treasurer of Central New Mexico Section of ACS.

(n) E. PAUL PAPADOPOULOS

(1) Presented paper at ACS Regional Meeting, Laramie, WY, Jul 17-19, 1976.

(o) SU-MOON PARK

(1) Paper presented, "Electrogenerated Chemiluminescence of Substituted Naphthalenes," 32nd Southwestern ACS Meeting, Fort Worth, TX, Dec. 2, 1976. (Paper # , Analytical-13).

(p) ROBERT E. TAPSCOTT

(1) Chairman-Elect, Central New Mexico Section, ACS.

(2) "Vandyl(IV) α -Hydroxycarboxylates of Pharmacological Importance," paper presented at the Southwestern MBS (Minority Biomedical Support Program) Symposium, Socorro, NM, Mar 6, 1976. Co-authors: N. Lovato and T.F. Them.

(3) "Vandyl(IV) Tartrates - A Model System for Stereoselective Metal-Catalyzed Enzymatic Reactions," paper presented at Southwestern MBS Symposium, Socorro, NM, Mar. 6, 1976. Co-authors: D. Padilla and R. Holland

(4) "Dihydroxydicarboxylate Complexes as Models of Stereoselective Metalloenzyme/Substrate Association," paper presented at Symposium on Biological Inorganic Chemistry, Third Rocky Mountain Regional Meeting, ACS, Laramie, WY, June 17-19, 1976. Co-author: R.M. Holland.

(5) "Vanadyl(IV) α -Hydroxycarboxylate Inhibitors of HMG-CoA Reductase," Poster Session, Symposium on Biological Aspects of Inorganic Chemistry, Vancouver, BC (Canada), June 20-25, 1976. Co-authors: T.J. Scallen and T.F. Them.

(6) "Stereoselective Syntheses of Mixed-Ligand Complexes," paper presented at 172nd National Meeting of the ACS, San Francisco, CA, Aug 29-Sep 3, 1976. Co-authors: S.K. Hahs, N.A. Lovato and D.D. Padilla.

(q) EDWARD A. WALTERS

(1) "The Kinetics of the Reaction Between p-Nitrophenylacetonitrile and Hydroxide Ion in H_2O :DMSO Mixtures," 172nd ACS National Meeting, San Francisco, CA, Aug 30, 1976.

(2) "The Ionization of p-Nitrophenyl Acetonitrile in H_2O :DMSO Mixtures," 172nd ACS National Meeting, San Francisco, CA, Aug 30, 1976.

7. Other Professional Activities:

(a) CHARLES F. CAMPANA

(1) Consultant - Sandia Laboratories.

(b) ROY D. CATON, JR.

(1) Reviewed research proposal for Petroleum Research Fund.

(2) Reviewed Manuscript for Journal of Inorganic and Nuclear Chemistry.

(b) ROY D. CATON, JR. (Cont'd)

- (3) Consultant, Civil Engineering Research Foundation, UNM.
- (4) Seminar, Analytical Chemistry Group, UNM, "Experimental Design in Analytical Chemistry".

(c) WILLIAM F. COLEMAN

Seminars Presented at Other Universities

- (1) "Principles of Laser Isotope Separation," Florida State Univ., May 19, 1976.
- (2) "Relaxation of Metal Ion Excited States," Eckerd College, May 20, 1976 and Univ. of So. Florida, May 22, 1976.

Charter Member of Two New Professional Organizations

- (3) Albuquerque Chapter of Laser Institute of America
- (4) InterAmerican Photochemical Society.

Reviewed Manuscripts for:

- (5) Solid State Chemistry (1)
- (6) Journal of Luminescence (2)
- (7) Journal of Chemical Physics (1)
- (8) Journal of Chemical Education (2)

Reviewed Proposal for:

- (9) New Mexico Energy Institute (2)
- (10) ERDA (1)
- (11) National Science Foundation (2)
- (12) Council of Library Resources (1).

Three Ph.D Theses have been completed under my direction this year.

(d) GUIDO H. DAUB

- (1) Presented a seminar entitled "The Synthesis of Chemical Carcinogens" at Pomona College on Jan. 6, 1976.
- (2) Session Chairman of the Los Alamos Scientific Laboratory 4th Life Sciences Symposium which was held at Los Alamos in Sep. 1976.
- (3) Visiting staff member short term in Group H-11 at Los Alamos Scientific Laboratory.

(e) LORRAINE DECK

- (1) Reviewed chapters of general chemistry books for publication.

(f) ULRICH HOLLSTEIN

- (1) Writing invited chapter on "Non-lactam" antibiotics for 4th Edition of Burger's "Medicinal Chemistry".

(g) MILTON KAHN

- (1) Consultant to Los Alamos Scientific Laboratory.

(h) DONALD R. MCLAUGHLIN

- (1) Reviewed article for the Journal of Heterocyclic Chemistry.

(i) CARY J. MORROW

- (1) Refereed several papers for Journal of Organic Chemistry.
- (2) Presented a demonstration on chemistry and light at a local school.
- (3) Coauthor of Departmental Proposal for summer support of Undergraduate Research (NSF-URP). Last years proposal provided \$12,500 to support 10 students working with 10 different faculty members.

(j) THOMAS M. NIEMCZYK

- (1) Consultant, Kirtland Air Force Base Weapons Laboratory

(k) ROBERT T. PAINE, JR

- (1) Consultant at Los Alamos Scientific Laboratory.

(l) SU-MOON PARK

- (1) Gave a seminar "Studies of Exciplexes by Electrogenated Chemiluminescence" at Eastern New Mexico University, Portales, NM, Dec 3, 1976.

(m) ROBERT E. TAPSCOTT

- (1) Invited speaker, Department of Chemistry, Fort Lewis College, Durango, CO.

(n) EDWARD A. WALTERS

- (1) Invited lecturer, University of Kent, Canterbury, "Lasers in Chemical Dynamics," Jan 20, 1976.
- (2) Departmental Colloquium UNM, "Lasers in Chemical Dynamics," Oct 8, 1976.
- (3) Visiting Staff member, Los Alamos Scientific Laboratory.

8. Non-teaching University service:

(a) ROY D. CATON, JR

- (1) Academic Freedom and Tenure Committee.
- (2) Chairman, Chemistry Department Safety Committee.

(a) ROY C. CATON, JR (Cont'd)

- (3) Chemistry Department Undergraduate Curriculum and Honors Subcommittee.
- (4) Sponsored picnic honoring Chemistry Graduating Seniors, May, 1976.

(b) WILLIAM F. COLEMAN

- (1) Member, Faculty Senate.
- (2) Member, Faculty Senate Executive Board.
- (3) Chairman, Faculty Senate Undergraduate Academic Affairs Committee.
- (4) Member, Arts & Sciences Promotion Advisory Committee.
- (5) Member, UNM Energy Advisory Board.
- (6) Chairman, Department Graduate and Undergraduate Studies Committee.
- (7) Faculty Advisor to ACS Student Affiliates Chapter.
- (8) Director, NSF Undergraduate Research Participation Program.
- (9) Attended UNM Priorities for Minorities Conference.

(c) GUIDO H. DAUB

- (1) Chairman, Department of Chemistry, January 1 through December 31, 1976.
- (2) Member of Biochemistry Department Evaluation Committee for the University of New Mexico Medical School.
- (3) Faculty advisor for students majoring or minoring in chemistry at the University of New Mexico.
- (4) Pre-medical and pre-dental advisor for University of New Mexico undergraduates.

(d) LORRAINE DECK

- (1) Member Safety Committee, Department of Chemistry.
- (2) Chairman, Public Relations Committee, Department of Chemistry.

(e) RICHARD W. HOLDER

- (1) Chemistry Department Committees: Undergraduate Curriculum, Chairman; Graduate Curriculum; ad hoc Undergraduate Career Advisement.

(f) ULRICH HOLLSTEIN

- (1) Member, Research Allocation Committee.

(g) MILTON KAHN

- (1) Member, University Honors Council.
- (2) Member of several departmental committees.

(h) WILLIAM M. LITCHMAN

- (1) Sponsor of Wagonwheels Square Dance Club and Exhibition Team.

(i) MIRIAM P. MALM

- (1) Member, Tenure Committee, Department of Chemistry.
- (2) Member, Annual Supplies and Stockroom Committee, Department of Chemistry.
- (3) Member, Public Relations and Social Functions Committee, Department of Chemistry.

(j) DONALD R. MC LAUGHLIN

- (1) Faculty Advisor LDSSA (Student Association).
- (2) Member, Departmental Graduate Recruitment Committee.

(k) CARY J. MORROW

- (1) General Academic Advisor.
- (2) Department Committees: Library (Chairman); Undergraduate Curriculum and Honors, Undergraduate Research Participation.
- (3) University Committees: Sandia Colloquium; Science Colloquium.

(l) THOMAS M. NIEMCZYK

- (1) Chairman, Chemistry Department Colloquium Committee.

(m) ROBERT T. PAINE, JR

- (1) Assistant Chairman, Department of Chemistry.

(n) SU-MOON PARK

- (1) Department Committees: Library; Undergraduate Instruction (Recruitment and Freshman Subcommittee).

(o) ROBERT E. TAPSCOTT

- (1) Chairman, Graduate Recruitment and Selection Committee.
- (2) Member of 9 committees-on-studies, chairman of 5 others.

(p) EDWARD A. WALTERS

- (1) Member, Graduate Recruitment and Selection Committee.
- (2) Advisor to 2 graduate students; committee of studies of 4 others.

9. Public Service:

(a) WILLIAM F. COLEMAN

- (1) Participated in 1st UNM Faculty-Staff Variety Show.
- (2) Science Fair Physical Sciences Judging Chairman.
- (3) Participated in program with APS Chemistry teachers.

(b) WILLIAM M. LITCHMAN

- (1) Professional Square Dance Caller.

(c) DONALD R. MCLAUGHLIN

- (1) Active member LDS Church.

(d) CARY J. MORROW

- (1) Team Manager, Thunderbird Little League.

(e) ROBERT T. PAINE, JR

- (1) Chairman of Social Ministry Committee, St. Lukes Lutheran Church.

(f) EDWARD A. WALTERS

- (1) Member, University Lutheran Church.

10. Personal Information:

(a) CHARLES F. CAMPANA

- (1) First child born, November 4, 1976.

(b) WILLIAM F. COLEMAN

- (1) I have lost about 100 pounds from August 1, 1976 to December 13, 1976.

(c) GUIDO H. DAUB

- (1) Lost twenty-one pounds during the period May 12 to September 25, 1976.

(d) WILLIAM M. LITCHMAN

- (1) One additional child, foster, 8 years old, Martha.

(e) SU-MOON PARK

- (1) New son born November 20, 1976.

DATE: January 14, 1977

Nathaniel Wollman, Dean, College of Arts and Sciences

DM: R. T. Paine, Chairman, Equipment Committee, Department of Chemistry

SUBJECT: Permanent Equipment

In your memorandum of January 7, 1977, you requested that we submit a plan for equipment acquisition pertinent to the 1976 Bond Issue. In a previous memorandum to you, February 26, 1976, we indicated that the Chemistry Department was in the process of composing a five-year plan for the orderly replacement and addition of capital equipment. At that time we estimated that a minimum of \$80,000 per year over five years would be required to complete the plan.

Attached you will find a copy of our five-year plan which we have attempted to present in the format requested by you. The plan is summarized in the Table and details of each year's request also are included.

At first glance it will appear that we are requesting far in excess of \$80,000/year. There are two separate financial and utilization categories presented in the Table. The category labeled as "University Funding" contains equipment primarily intended for undergraduate laboratories and small research-instructional equipment. In general, it is unlikely that external funding could be obtained for these items because of the small dollar figures and because of the add-on nature of the equipment. As a result, it appears that the University will be the primary and perhaps sole source of funds for this equipment. These yearly requests are estimated at \$80,000/year.

In the second category, "External Funding with Matching", large instrumentation facilities are listed. Each of these has a dual research-instructional utility, and they will be used in undergraduate, graduate and faculty research and in some advanced undergraduate laboratories. Each year we expect to submit a departmental proposal to a Federal agency (NSF, NIH, etc.) for the purpose of obtaining funds to purchase this equipment. The usual procedure when a proposal is funded is that the University matches the Federal dollars at a 1:1 ratio. For example, the University has provided matching dollars for the Chemistry Department in the last two fiscal years. If the Department is successful with its NSF proposal this year, \$60,000 will probably be required to match the Federal grant. Although we have been successful in the last two years, this may not hold true every year. If unsuccessful one year our time schedule will be pushed to later dates. We also realize that in successful years we may not be granted our full request under the "University Funding" category which would in turn delay the time schedule proposed in the following pages.

The attached proposal represents a plan which the Equipment Committee has spent considerable time drafting since, of course, there are conflicting ideas of how we should progress. This plan is not complete past the first two years

Nathaniel Wollman

-2-

January 14, 1977

because in that time some priorities may change. The result, however, would simply be the switching of the purchase of one piece of equipment from one year to another.

If you have any questions about the plan, please contact me or Professor Daub.

TABLE I

Chemistry Department
Permanent Equipment Five Year Plan

Year Source	1976-77	1977-78	1978-79	1979-80	1980-81
University Funding	Chem 331L Chem 332L Chem 454L \$68,310 High Power NMR Probe \$12,418.	Chem 253L \$22,000 Cary 118 spectrometer \$28,500 Parr Electro- chemical Syst. \$21,000 X-ray generator \$10,000	Chem 344 Lab \$30,000 Phase I ESR Console \$40,000 Gas Chromato- graph \$2,000 Leak Detector \$10,000	Chem 344 \$20,000 Phase II Laboratory Infrared Spectrometers \$20,000 Atomic Absorpt. Spec \$18,000 Liquid Nitrogen Tank \$7,000 Displex System \$10,000	Fluorimeter \$18,000 T-60 NMR \$40,000 Mossbauer Spectrometer \$30,000
External Funding with Matching	Automated X-ray Dif- fractometer Solid State Structure Facility \$120,000	Fast Fourier Transform Infrared Spectrometer \$110,000	Raman Spectrometer and Grating IR Spectrometer \$120,000	Laser Photochem. and Spectroscopy Facility \$150,000	Mass Spec- trometer \$100,000

Permanent Equipment Funding Request 1976-77.

<u>Priority</u>	<u>Code</u>	<u>Project Title</u>	<u>Cost</u>
A	a	Renewal of Chem 331 Lab	\$7,250
B	a	Renewal of Chem 332 Lab	\$24,850
C	a	Renewal of Chem 454 Lab	\$28,210
D	c	High Power NMR probe	\$12,418
A	c	Matching money availability for possible NSF funding of X-ray diffractometer system	\$60,000
Total Cost:			\$120,000

See page 6 for details of cost breakdowns and equipment descriptions. Since the laboratory renewal programs contain the purchases of many "smaller" items not all of the cost breakdown has been included in order to save space. Much of the money will be used to replace old equipment in discontinued experiments.

Permanent Equipment Funding Request 1977-78

<u>Priority</u>	<u>Code</u>	<u>Project Title</u>	<u>Cost</u>
A	a	Renewal of Chem 253L	\$22,000
B	c	Cary 118 spectrophotometer	\$28,500
C	c	Parr Electrochemical System	\$21,000
D	c	X-ray generator	\$10,000
A	c	Matching monies for Fast Fourier Transform Infrared Spectrometer	\$55,000
Total Cost:			\$110,000

See page 7 for details of cost breakdown and equipment description. The pricing is less specific here because of the fluctuation in quotes. These are present-day costs, however, without inflation adjustments.

Permanent Equipment Funding Request 1978-79

<u>Priority</u>	<u>Code</u>	<u>Project Title</u>	<u>Cost</u>
A	a	Renewal of Chem 344 Phase I	\$30,000
B	c	ESR Console	\$40,000
C	a	Gas Chromatograph	\$2,000
D	c	Leak Detector	\$10,000
A	c	Matching Monies for Raman Spectrometer	\$60,000
		Total Cost: \$120,000	

See page 8 for details of cost breakdown and equipment description. The Chem 344 portion is a first installment.

Permanent Equipment Funding Request 1979-80

A	a	Renewal of Chem 344 Phase II	\$20,000
B	c	Atomic Absorption Spectrometer	\$18,000
C	c	Low Resolution IR Spectrometer	\$20,000
D	b	Displex Closed Cycle Refrigerator	\$10,000
E	c	Liquid Nitrogen Storage Dewar	\$7,000
A	c	Matching Monies for Laser Spectroscopy System	
		Total Cost: \$130,000	

See page 9 for details of cost breakdowns and equipment descriptions.

Permanent Equipment Funding Program 1980-81

<u>Priority</u>	<u>Code</u>	<u>Project Title</u>	<u>Cost</u>
A	c	Fluorimeter	\$18,000
B	c	T-60 NMR	\$40,000
C	c	Mossbauer Spectrometer	\$22,000
A	c	High Resolution Mass Spectrometer	\$110,000

See page 10 for details of cost breakdowns and equipment descriptions.

Year I 1976-77

A. "University Funding" Category

Chem 331, 332 and 454 Laboratory Renewal \$68,310

Top priority this year is to be given to the completion of the rehabilitation of Chemistry 331-332, Integrated Junior Laboratory and Chemistry 454, Instrumental Analysis. The historical perspective behind the needs of these courses has been presented before. (Memorandum from G. H. Daub and R. T. Paine, June 1, 1976).

The objectives of the proposal for these laboratories are:

- a. renew the equipment in several existing experiments
- b. replace equipment for inoperative experiments
- c. initiate new experiments based on modern instrumental techniques

The end result will be a much more organized and educationally successful laboratory program. The American Chemical Society, Committee on Professional Training emphasizes that these three courses are perhaps the most important practical exposure a student receives in chemistry. We have not been able to provide a course series which satisfies such a high standard in training.

A full narrative on this project has been submitted to you in the past. The updated version may be found here in Appendix A. Most of the equipment outlined in this project can be considered to be renewal equipment.

High Power NMR Probe

The XL-100 NMR Spectrometer presently in the Chemistry Department is seriously handicapped for certain experiments which are critical for some research projects and programs within the department.

The major disadvantage of this instrument as presently constituted is the result of not having a probe capable of accepting high power pulses. Because of this lack, relaxation times in ^{13}C , ^{31}P , ^{11}B , ^{19}F , and ^{15}N spectra will be rarely obtainable. The reason lies in the fact that the width of observation and measurement for relaxation times is directly related to the power used in the pulse. Without present capability, we can observe about 1000Hz of spectral width while making relaxation time measurements. This would not be a handicap if the normal span of observed resonances in normal spectra did not cover a greater width. Those peaks which fall outside the practical limit for measuring relaxation times would be "reflected" into the observed region and obscure the peaks there. Widening the observed region so that this did not occur is not possible because of the limitations of power on these measurements. Therefore, while normal spectra can be obtained with the instrument over any width necessary, relaxation time measurements are severely limited by the power restrictions of the instrument.

To remedy the situation would require replacing the present probe with one capable of handling the higher power. Replacing the probe would also require replacing the associated circuitry as well for each nucleus which we can presently observe. To do this would require an expenditure of about \$17,000.

We suggest that since this equipment can be obtained in pieces, that the basic system with only ^1H , ^{19}F and ^{13}C capabilities be purchased. The cost would be \$12,418. The remaining attachments can be purchased from individual faculty research grants.

B. "External Funding with Matching"

The departmental instrumentation proposal to NSF this year is directed toward the establishment of an X-ray diffraction structural chemistry facility. The proposal requests funding from NSF to purchase an automated X-ray diffractometer. The total cost is about \$120,000. The best that can be hoped for is a 1:1 matching formula: \$60,000 NSF, \$60,000 UNM.

The award date for NSF proposals is in late April or early May. If we are not funded this year, we will reapply next year. If funding is obtained, we would be prepared, if necessary, to postpone some of the other request until the next year. This may be considered to be a multidepartmental instrument as faculty in Geology (Ewing) and Biochemistry (VanderJagt and Scallen) expect to use the diffractometer.

Year II, 1977-78

A. "University Funding" Category Chem 253L, \$22,000

A good deal of the laboratory equipment in the present Chem 253 lab has reached old age status and needs to be replaced. In addition, if funds are obtained to remodel the Chem 253 labs (see Appendix B), some new equipment will be required. Most of the equipment has prices in the range of \$200-400 so the entire list will not be itemized. Examples are: balances, large hot plates, electrochemical equipment, etc.

All of this equipment will fall in the replacement equipment category.

Cary 118 Spectrophotometer \$28,000

This is a new solid state electronic spectrophotometer which will replace our old Cary 14. Some use will still be made of the Cary 14, but its work load far exceeds this instrument's ability. The new spectrophotometer will be used to obtain visible and ultraviolet spectra and kinetic data for a number of research groups and advanced undergraduate laboratory students. There is presently sufficient work load to occupy two such instruments.

Parr Electrochemical System \$21,000

This instrument will be used by students and faculty in at least five research groups and in Chem 454 and 344 laboratories. The instrument will be used to determine the reversible oxidation-reduction potentials of new compounds in solution and to prepare unstable materials which can not be prepared by classical techniques. This will be a new item in our department and one for which there is immediate need.

X-ray Generator \$10,000

The work load on the present X-ray generator is so great that it cannot be used to obtain powder diffraction films by Chem 332 students and undergraduate and graduate research students. A second generator would greatly relieve this problem. The present generator is fitted with a molybdenum radiation source and is used for studies of single crystals. The new generator will be fitted with a coppersource radiation source which is suitable for powder diffraction work.

B. "External Funding with Matching" Category

An NSF Departmental Instrumentation proposal will be submitted which will request funding for a fast Fourier transform interferometer-infrared spectrometer. There will be at least five faculty participating in the proposal submission. This is a state-of-the-art high resolution infrared spectrometer. We now have a grating spectrometer which is capable of about 0.5 cm^{-1} resolution and one second time scale detection. The new equipment is capable of 0.002 cm^{-1} resolution and micro second time scale detection. It is also a much more sample versatile machine. There is a very strong need for this instrument, and it would have immediate impact in at least five research groups. The current instrument will not meet the requirements of many research goals and its work load is presently excessive. The new instrument would free the grating machine for more routine work for which it is intended.

Year III 1978-79

A. "University Funding" Category
Chem 344L, \$30,000 Phase I.

Chemistry 344L, Inorganic Chemistry Laboratory has not been offered for three years and when offered in the past it was not presented at a modern level. This is due to a complete lack of any equipment. The lab must be built from the ground up with new equipment and modern experiments. We estimate that this will require about \$50,000, and it should be done in two phases in order that the lab construction is orderly.

The major items of equipment which will be purchased the first year include:

dry box	\$6,000
differential thermal analysis	4,700
quartz microbalance and pumping system	3,800
preparative vacuum line	2,200
metal vacuum line	1,400
osmometer	1,200
gas chromatograph	2,000
photolysis source and accessories	1,000
muffle and tube furnaces	1,300
conductivity bridge and cells	700
Schlenk-ware kits	2,700
Inert-ware vacuum lines	1,100
specialized glassware	1,900

ESR Console \$40,000

The present esr spectrometer was obtained on surplus a number of years ago. The magnet is in fine condition, but the electronic console is in very poor shape. It is constructed with old tube circuitry and it is very unstable and unreliable. A new solid state console would replace the old one and return this instrument to top condition.

Leak Detector \$10,000

At present one faculty member has a 1950 vintage leak detector on loan from Los Alamos Scientific Laboratory. It is sufficient, but if return of the instrument is requested, we will be without. In addition, the detector is so old that if a part burned out there are no new parts available for replacement. This purchase would replace a loaned instrument.

Gas Chromatograph \$2,000

The present use load on our gas chromatographs is very high. In addition to one purchased for Chem 344 we need to begin to replace some of the old, heavily used instruments. This one would replace a student laboratory chromatograph.

B. "External Funding with Matching" Category

An NSF proposal will be submitted during this year to obtain funds to replace our existing government surplus Raman spectrometer and our old medium resolution infrared spectrometer. The present Raman spectrometer is in very poor condition, in fact it is nearly useless for most applications. This instrument will be used in undergraduate and graduate research in Chem 344.

Year IV 1979-80

A. "University Funding" Category
Chem 344L \$20,000 Phase II

In Phase II the major items of equipment which will be purchased will be

autoclave	\$2,700
high pressure vacuum line	2,300
optical bench and accessories	1,800
flash evaporator (1)	700
rotary evaporator (2)	1,200
photolysis Hg-Xe source	
and solution reactor	2,400
oscilloscope	2,000
recorder	2,000
low resolution mass spectrometer	5,000

Atomic Absorption Spectrometer \$18,000

At the present time the Department does not have a research grade A.A. spectrometer. This is a usual support item in a good analytical research effort, and the four analytical faculty and their research students would make extensive use of this equipment. This would be a new purchase.

Low Resolution Infrared Spectrometers \$20,000

There are presently three low resolution infrared spectrometers which are used constantly in undergraduate laboratories and research for obtaining simple "fingerprint" spectra. These instruments are approaching the end of their life expectancy and orderly replacement by 1979 will be required. Each spectrometer costs about \$10,000 and we request two for this year.

Displex Refrigerator \$10,000

There is now one closed cycle refrigerator in the department and the work load demands the purchase of a second system. This new system will be used to do low temperature spectroscopy by several faculty investigators. This system permits studies at 10° K without the use of expendable, expensive coolants (liquid helium), and it is flexible to the point that many types of spectroscopy can be applied to the cold sample.

Liquid Nitrogen Storage Dewar \$7,000

At present we must obtain liquid nitrogen in 50 l tanks which is our largest storage vessel. This means several trips to the manufacturer per week and considerable boil-off loss. A commercial 300 gallon storage tank would permit us to have a two week supply on hand. This would greatly reduce the delivery inconvenience and boil-off loss. This could also serve Geology and Biology.

B. "External Funding with Matching" Category

The NSF proposal this year will be submitted for the purchase of a laser photochemistry and diode spectroscopy facility. This would permit us to initiate a laser research program which would mesh well with the local Federal laboratory laser programs. In the end this equipment should more than pay for itself in contracts which could be obtained in laser research from local laboratories. This is a new facility. Problems in fast reaction kinetics, laser induced chemistry and super high resolution spectroscopy will be approached with the facility.

Year V 1980-81

A. "University Funding" Category

Fluorimeter \$18,000

Again this is standard piece of equipment that the Analytical Division requires, but no such equipment is present at this time. The apparatus will be used by these research groups to determine trace elements in a variety of materials and to measure fluorescent properties of compounds.

T-60 NMR \$40,000

This is a proton nmr machine which would replace our old A-60. This is the most heavily used equipment in the department and it will need replacing by 1980. The equipment is used in many classes, e.g., Chem 300 level organic labs, 331, 332 454 and then in research activities. The utility of the equipment is in routine structure identification.

Mossbauer Spectrometer \$22,000

This equipment is used for detailed structural analysis of solid inorganic and organometallic compounds. It is a standard piece of equipment which most university chemistry departments utilize. There are three faculty who urgently need this equipment for their undergraduate and graduate research activities.

B. "External Funding with Matching" Category

The Department now has a medium resolution mass spectrometer which should be replaced by a more flexible, high resolution instrument. We will submit a NSF proposal requesting funding for this equipment which is used to identify the composition of all types of compounds.

Appendix A. Year I

Chemistry 331, 332, 454 Laboratory Renewal Program

Chemistry 331 remodeling is nearly complete as a result of previous funding, and some of the Chemistry 454 program equipment will be utilized in Chemistry 331. The instrumental analysis laboratory has for a variety of circumstances been neglected over the last few years. Not the least of these circumstances is the fact that the very limited amount of equipment funds available to the department always seemed to be spent on more pressing departmental needs. As a result the equipment in the laboratory has become more unreliable and more out-of-date each year. We presently are forced to teach this course in "modern instrumental techniques" to our BS Chemistry majors in a laboratory where most of the equipment is Sandia surplus.

The course must be modernized if it is to serve the students properly. The modernization would involve a restructuring of the course and a substantial improvement in the amount and type of equipment available for use in the laboratory. The new course would begin with a new goal and a new philosophy about the material to be covered. Rather than the goal of the current course (of necessity), to introduce the students to many analytical techniques, the goal of the proposed course would be to develop the understanding needed to apply the instrumentation most efficiently to the problems at hand. The hope would be to develop the student's understanding of chemical instrumentation to the point that the student is not simply manipulating a set of "black boxes". This implies that the student must understand the fundamental relations of the chemical species to their physical and chemical properties, the relation of the physico-chemical property to the electrical signal produced, and the scope, applicability and limitations of the physico-chemical property measurement with respect to qualitative and quantitative analysis.

The topics to be covered in the laboratory are illustrated in the following list of experiments. The experiments are designed to give the student maximum "hands on" experience, a fundamental understanding of the technique being illustrated, and enough work with real samples to see the utility of the techniques.

Laboratory Curriculum

Experiment I. Electrical Measurements: DC circuits, DC measurements, AC circuits, Characteristics of Waveforms, AC voltage and frequency measurement.

Experiment II. Servo Systems and Operational Amplifiers: Characteristics of servo recorder, characteristics of operational amplifiers operational amplifier circuits.

Experiment III. Introduction to Digital Electronics: The switch, diodes, transistors, logic circuits, counters, registers.

Experiment IV. Electrochemical Measurements (I): Construction of a controlled potential polarograph, polarographic analysis, investigation of cyclic voltametric techniques.

Experiment V. Electrochemical Measurements(II): Construction of a coulometric circuit from operational amplifiers, controlled potential coulometric determinations, investigation of reaction mechanisms by coulometric techniques.

- Experiment VI. Spectroscopy Measurements(I): Calibration of a photometer, wavelength calibration of a monochromator, study of line and band sources, measurement of the instrument function of the monochromator.
- Experiment VII. Spectroscopy Measurements(II): Study of Beer's Law and deviations from Beer's Law, precision spectroscopy.
- Experiment VIII. Spectroscopy Measurements(III): Optimization of flame techniques. Study of flame emission, absorption and fluorescence.
- Experiment IX. Separations: Characteristics of a gas chromatograph, column preparation, fatty acid analyses.
- Experiment X. Individual Student Project: The student will choose an experimental area and perform an experiment in this area. The project may be to analyze a real sample or to design, construct and evaluate an analytical instrument.

The equipment in the laboratory is just not adequate to teach this course. The following list of equipment should be retired from the laboratory as it is so old it is completely unreliable or completely out-moded.

- 1 Beckman DU Spectrometer (purchased in 1954)
 - 1 Beckman DU Spectrometer (Sandia Surplus)
 - 1 B&L Model 600 Spectrophotometer (This would be useful elsewhere)
 - 1 B&L Model 505 Spectrophotometer
 - 4 Heath Operational Amplifiers
 - 2 Heath Polarographs
 - 4 Heath Recorders
 - 2 Perkin-Elmer Model 154 Gas Chromatographs (These are completely out of date and not very reliable.
- } Very old and unreliable.

The above equipment should be replaced by the following list of equipment.

Replacement List

Number Requested	Catalog No.		Unit Price	Price
4	EU-80A	Heath Voltage Reference Source	195	780
4	EU-801A	E&L Analog-Digital Designer	575	2,300
4	EU-800-JC	E&L NAND Gate Card	20	80
4	EU-800-CC	E&L Quad J-K Flip-Flop Card	25	100
4	EU-800-JE	E&L AOI Card	25	100
4	EU-55A	E&L Parts Kit and Breadboard	180	720
4	SR-204	Heath Strip Chart Recorder	395	1,580
10	310J	Analog Devices Operational Amp.	55	550
10	EU-800	E&L Universal Card	30	300
2	EU-700-77	GCA/McPherson Monochromator	2,740	5,480
2	EU-703-02	GCA/McPherson Base Assembly	270	540
2	EU-722-11	GCA/McPherson Sample Chamber	860	1,720
2	EU-703-70	GCA/McPherson AA-AE-AF Module	1,600	3,200
3	EU-701-50	GCA/McPherson Light Source Module	705	2,115

Replacement List (Cont'd)

Number Requested	Catalog No.		Unit Price	Price
3	CU-701-30	GCA/McPherson Photomultiplier Mod.	560	1,680
3	EU-707-31	GCA/McPherson Photometric Readout	1,025	3,075
4	79050	Edmund HeNe Laser	180	720
4	26-4812	Ealing Mercury Lamp	68	272
4	26-4820	Ealing Mercury Lamp Power Supply	57	228
2	WL-23456	Westinghouse Hollow Cathode Lamp	175	350
2	WL-23146	Westinghouse Hollow Cathode Lamp	175	350
2	S-37680	Sargent Welch Oxygen Regulator	90	180
2	S-37678	Sargent Welch Acetylene Regulator	80	160
2	S-37685	Sargent Welch Hydrogen Regulator	90	180
4	Model 194	Analog Devices Operational Amplifier		
		Manifold	325	1300
2	Model XVI	Sargent Welch Recording Polarograph	2350	4700
2	Model 920-00	Varian Gas Chromatographs	1350	2700

Total

\$35,460.

Chemistry 332

The Chemistry 332 laboratory in our department, like Chemistry 331 and 454, have long suffered from neglect. At one time, 15-20 years ago, the lab was well equipped, organized and educationally successful. Since then, due to increased equipment costs, greater experimental sophistication, decreased commitment by the physical chemistry faculty and increased student population, the lab and much of its equipment have become antiquated. The situation reached a critical disintegration point in 1975. At that time a renewed faculty commitment was made, and \$5,000 and a lot of "adhesive tape" brought the lab to the point that there presently are twelve experiments (bare minimum) available to the student. The experiment titles are listed in Table I. There is no duplicate equipment so if something breaks down it takes the experiment out of commission usually for the semester. Not only is this a perilous situation, but many techniques are not presented because needed equipment is broken, worn out or we have never had it available.

The funds requested here would be used in part to rebuild several of our current experiments. In addition, we propose to add 10 additional experiments. This will serve to reduce the use-load on fragile equipment and allow the student to achieve additional skills. The new equipment titles are listed in Table II and the new equipment and its experiment are listed in Table III. It should be emphasized that none of these experiments are "frilly" or unnecessary. All of the experiments are taken from a classic laboratory textbook, and the renewed and expanded laboratory will be much like a laboratory at other comparable chemistry departments. The existing lab is weak and there have been many student complaints in the past about it. The aid last year has reduced the complaints. The further requested aid will allow us to provide a lab that the department and students will be proud of. More importantly, the lab will be able to expose and instruct students in modern chemical methods.

Table II

Present Experiments: Chemistry 332

1. Magnetic Susceptibility of an Inorganic Complex
2. HCl-DCI Vibrational Spectroscopic Analysis
3. Powder X-ray Diffraction
4. Density of Unknown Gases
5. Inversion Kinetics-Polarimetry
6. Absorption Spectrum and Chain Length of a Dye
7. NMR-Boiling Point Diagram Determination
8. $N_2O_4 \rightleftharpoons 2NO_2$ Gas Equilibrium Study
9. Three Component System
10. Absorption from Solution
11. Surface Tension Determination
12. Solute Distribution in Immiscible Solvents

Table III

Proposed New Experiments: Chemistry 332

1. Statistics of Radioactive Measurements
2. Chemical Behavior of Carrier-Free Tracers
3. Half-Life Determination for Ba^{137}
4. Physical Absorption of Gases on Solid Absorbant
5. Order-Disorder Transition of NH_4Cl
6. Lattice Energy of Solid Ar
7. Band Spectrum of H_2 and N_2
8. Flask Photolysis Kinetics of $I\cdot$, I_2 Combination
9. Gas Phase Kinetics of Thermal Decomposition of Cyclopentene
10. Laser Induced Chemistry

Table IV

Requested Equipment and Estimated Costs

A. New Experiments:

- | | |
|--|---------|
| 1. Radioactive Stat:
end window Geiger-Müller counter, scales with high
voltage power supply, prepared B emitter | \$1000. |
| 2. Carrier-Free Tracer:
In ¹¹³ generator, NaI well-type scintillation probe,
scales with HV power supply | 3000. |
| 3. Half Life:
Ba ¹³⁷ generator, survey meter | 600. |
| 4. Physical Absorption
Cathetometer, rough vacuum pump, diffusion pump,
thermocouple gauge, glass line constructed in glass shop | 1500. |
| 5. Order-Disorder NH ₄ Cl
differential scanning calorimeter | 2000. |
| 6. Lattice Energy
2 small vacuum pumps, large glass dewar, machining of
cell in metal shop | 900. |
| 7. Band Spectrum
film, discharge lamps and power supplies, front
surface mirrors and lenses, film reader | 850. |
| 8. Flash Photolysis:
Flash set up | 3000. |
| Storage scope and spectrograph-share with Chem 454 | 6000. |
| 9. Gas Phase Kinetics
Furnace, rough pump, gas handling line, large variac
thermo regulator | 2500. |
| 10. Laser Chem.
Gas regulators, rough pump, plumbing, flask tube power
supply, optical components. | 3500. |

Total

\$24,850.

THE UNIVERSITY OF NEW MEXICO

415

DATE: November 30, 1976

Nathaniel Wollman, Dean, College of Arts and Sciences

R. T. Paine, Chairman, Space Committee, Department of Chemistry ETP

In the latter part of last fiscal year the Chemistry Department submitted a request for funds which would have permitted the renovation of deteriorated laboratories in Clark Hall. That request was turned down by the Central Administration due to lack of funds. The ad hoc committee on space allocation in the Chemistry Department has reassessed the departmental needs and they submit the following renovation plan and funding request.

Room 211. When Clark Hall was constructed this room was furnished with old laboratory benches from Old Chemistry so this furniture is in excess of forty years old. Room 211 served as a research laboratory for a number of years and then was rented to La Llave by the University. La Llave moved out about one and one-half years ago due to our pressing need for space. The room has been used extensively since then but the badly deteriorated laboratory tables and plumbing are making further utilization impossible. A renovation plan has been presented by the inorganic division of the department which will make the room usable again. The estimated cost for replacing the old benches with equivalent new ones is \$16,000. New benches and cabinets along the north wall and down the center of the room will be installed along with a vacuum lattice rack and shelves.

The refurbished room will be used for the most part by the four inorganic faculty and their students. Common instrumentation used by these faculty, which is now inconveniently disbursed about the building, will be centralized in this room. The equipment consists of:

- Osmometer
- Conductivity bridge
- Vacuum lines and airless-ware systems
- Leak detector
- Portable vacuum system
- Polorimeter
- Vacuum evaporators
- Magnet and quartz microbalance
- Tensimeter

New Equipment which will be located in this room includes:

- Infrared spectrometer
- Visible - U.V. spectrometer
- Dry box
- Cyclic voltametry system

The renovation and centralization of equipment will benefit the research efforts of a number of faculty and students. It will further aid in the supervision of sensitive equipment and it will reduce the duplicate purchase of a number of common items.

Rooms 104, 106, 108, 204A.

At the present time Chemistry 253, Quantitative Analysis Laboratory, utilizes Rooms 112, 116, and 118. Two rooms are for actual laboratory manipulations and one small room houses unknown samples and standard solutions. There is more enrollment in this class than these rooms can handle so the overflow is accommodated in a basement laboratory, Room B15. This situation causes a number of logistical problems for the instructors and students. The Space Committee has suggested that Rooms 104, 106, and 108 (two research laboratories and Dr. Litchman's office) be renovated and made part of the Chemistry 253 complex. Rooms 108 and 106 are old research laboratories that have not been extensively used of late. Dr. Caton has drawn plans for the conversion of these rooms to laboratories suitable for Chemistry 253. Room 104 will be converted easily to a balance room. Dr. Litchman's office will be moved to Dr. Caton's present office, Room 202 and Dr. Caton will move to Room 204A. Room 204A requires some minor repair and painting before it can be occupied. The total cost for this change is estimated to be \$80,000-\$100,000 with the bulk going for renovation of 108 and 106.

Rooms 109 and 109A.

These rooms presently house the Chemistry 121-122 freshman chemistry laboratory. This course handles our best chemistry major students. These top students must use the most run down student laboratory in the building. The laboratory benches originated from Old Chemistry so they are more than forty years old. The wood lockers are badly decayed which creates a safety problem as well as a laboratory equipment security problem. The Space Committee proposes that the rooms be refurbished, repainted and relighted and the hoods replaced. Renovation plans have been submitted by Dr. Coleman and the price estimate for renovation is \$100,000.

These last two renovation projects will be very expensive. We realize this fully and that is why we are doing as much as possible to utilize our present space before we request a new wing. During a recent open house in the Chemistry Department for high school science teachers, the teachers were shown typical student laboratories. They were surprised and disappointed when they saw laboratories such as 109, 109A B15 and 110. We can not expect to compete against other universities in our region for top undergraduates without providing competitive facilities.

The requests outlined here are the result of considerable study by the Chemistry Department. The recommendations and funding request are intended to save the University money and greatly improve the student educational/research product. With consolidations we have already made and these planned renovations we are at the point of being out of space. The Space Committee is now attempting to assess our future needs for space and an expansion plan will be submitted shortly.

Summary Budget Request

For: Renovation of Clark Hall (Chemistry)

<u>Rooms</u>	<u>Estimated Cost</u>
211	\$16,000
104, 106, 108, 204A	\$80,000-\$100,000
109, 109A	<u>\$100,000</u>
	\$196,000-\$216,000.

THE UNIVERSITY OF NEW MEXICO

DATE: December 15, 1976

TO: Nathaniel Wollman, Dean, College of Arts and Sciences

FROM: R. T. Paine, Chairman, Equipment Committee, Department of Chemistry

SUBJECT: Permanent Equipment

In your memorandum of December 3, 1976, you requested that we be prepared to submit a list of permanent equipment needs. In a previous memorandum to you, February 26, 1976, we indicated that the Department was in the process of composing a five year plan for the orderly replacement and addition of capital equipment. At the time we estimated that it would require about \$80,000 per year over a five year period to complete the plan.

Attached you will find both our equipment request for this year and a copy of our five year plan. In the first year, for which you are immediately concerned, we would expect to complete the rehabilitation of Chemistry 331, 332 and 454 laboratories and if possible purchase a high power probe for the XL-100 nmr spectrometer. The total request is for \$80,728. The priorities and justifications for these purchases are attached.

In addition we will be submitting by January 15, 1977, a NSF departmental instrumentation proposal for an automated X-ray diffractometer. The price tag is about \$120,000. The best we can hope for if the proposal is successful is a 1:1 cost sharing with NSF. If necessary, we could subtract part of this from the above request.

In following years we expect to replace old equipment in other laboratories and obtain new equipment which we badly need. Frequently there will be a dual use of the equipment in undergraduate and graduate training. The completion of the plan will greatly improve our undergraduate and graduate student product which we must competitively market to the outside chemical community. In addition, the new facilities will greatly enhance the research productivity and reputation of our faculty.

If you have any questions about our plan, please contact me or Professor Daub.

Chemistry Department
Permanent Equipment Funding Request 1976-77

<u>Priority</u>	<u>Project</u>	<u>Cost</u>
1	Renewal of laboratory equipment for Chemistry 331, 332 and 454.	\$68,310.
1	Matching monies for purchase of automated X-ray diffractometer	\$60,000
2	High power nmr probe	\$12,418.

Note: The requirement for matching monies will materialize only if NSF funds our proposal. If funded, this project should have the highest priority and if necessary part of the other projects could be deferred to the following year.

Chemistry Department

Permanent Equipment Five Year Plan

Year Source	1976-77	1977-78	1978-79	1979-80	1980-81
University Funding	Chem 331L Chem 332L Chem 454L \$68,310. High Power NMR Probe \$12,418.	Chem 253L \$20,000 Cary 118, spectrometer (multiuse) \$30,000 Parr Electro- \$20,000 Chemical System Displex System \$10,000	Graphic System \$30,000 ESR Console (multiuse) \$40,000 Gas Chromato- graph \$2,000 X-ray generator \$10,000	Chem 344 Lab \$40,000 Laboratory Infrared Spectrometer \$10,000 Atomic Absorpt. Spec (multiuse) \$18,000 Leak Detector (multiuse) \$10,000	Fluorimeter (multiuse) \$18,000 T-60 NMR \$40,000 Optical \$20,000 Benches and Components
External Funding with Matching	Automated X-Ray Diffractometer Solid State Struc- ture Facility ~\$120,000.	Fast Fourier Transform Infrared Spectrometer \$95,-\$110,000	Raman Spectrometer and Grating IR Spectrometer \$125,000	Laser Photochem. and Spectroscopy Facility \$150,000	Mass Spec- trometer \$100,000

Chemistry Department Permanent Equipment Five Year Plan Details

There are two separate financial and utilization categories presented in the accompanying summary table. The category labeled as University Funding contains equipment primarily intended for use in undergraduate laboratories and small research-instructional equipment needed to update existing large instrumental facilities in the department. In general, it is unlikely that outside funding could be obtained for these items because of the small dollar figures and because of the add-on nature of the equipment.

In the second category, External Funding with Matching, large instrument facilities are listed. These facilities have dual research-instructional utility. In each case we expect each year to submit a departmental proposal to a Federal agency (NSF, NIH, etc.,) to obtain this equipment. The usual procedure when a proposal is funded is that the University matches the federal dollars on 1:1 ratio. For example, if the Department is funded this year for the full X-ray structure facility the University would be requested to provide about \$60,000. Although we have been successful in the last two years in our attempts to obtain NSF departmental funding, this may not occur each year. If unsuccessful one year then the time schedule shown here will simply be pushed to later dates.

Specific information for each year's purchases are included here. The most detail is given for the current year. As one year is funded the specific details for the next year will be provided.

Year I, 1976-77

Priority I: The University Funding. Top priority this year is to be given to the completion of the rehabilitation of Chemistry 331-332 Integrated Junior Laboratory and Chemistry 454, Instrumental Analysis. The historical perspective behind the needs of these courses has been presented before. (Memorandum from G. H. Daub and R. T. Paine, June 1, 1976).

The objectives of the proposal for these laboratories are:

- a. renew the equipment in several existing experiments
- b. replace equipment for inoperative experiments
- c. initiate new experiments based on modern instrumental techniques

The end result will be a much more organized and educationally successful laboratory program. The American Chemical Society, Committee on Professional Training emphasizes that these three courses are perhaps the most important practical exposure a student receives in chemistry. We have not been able to provide a course series which satisfies such a high standard in training.

Chemistry 331/454

Chemistry 331 remodeling is nearly complete as a result of previous funding, and some of the Chemistry 454 program equipment will be utilized in Chemistry 331.

The instrumental analysis laboratory has for a variety of circumstances been neglected over the last few years. Not the least of these circumstances is the fact that the very limited amount of equipment funds available to the department always seemed to be spent on more pressing departmental needs. As a result the equipment in the laboratory has become more unreliable and more out-of-date each year. We presently are forced to teach this course in "modern instrumental techniques" to our BS Chemistry majors in a laboratory where most of the equipment is Sandia surplus.

The course must be modernized if it is to serve the students properly. The modernization would involve a restructuring of the course and a substantial improvement in the amount and type of equipment available for use in the laboratory. The new course would begin with a new goal and a new philosophy about the material to be covered. Rather than the goal of the current course (of necessity), to introduce the students to many analytical techniques, the goal of the proposed course would be to develop the understanding needed to apply the instrumentation most efficiently to the problems at hand. The hope would be to develop the student's understanding of chemical instrumentation to the point that the student is not simply manipulating a set of "black boxes". This implies that the student must understand the fundamental relations of the chemical species to their physical and chemical properties, the relation of the physico-chemical property to the electrical signal produced, and the scope, applicability and limitations of the physico-chemical property measurement with respect to qualitative and quantitative analysis.

The topics to be covered in the laboratory are illustrated in the following list of experiments. The experiments are designed to give the student maximum "hands on" experience, a fundamental understanding of the technique being illustrated, and enough work with real samples to see the utility of the techniques.

Laboratory Curriculum

- Experiment I. Electrical Measurements: DC circuits, DC measurements, AC circuits, Characteristics of Waveforms, AC voltage and frequency measurement.
- Experiment II. Servo Systems and Operational Amplifiers: Characteristics of servo recorder, characteristics of operational amplifiers operational amplifier circuits.
- Experiment III. Introduction to Digital Electronics: The switch, diodes, transistors, logic circuits, counters, registers.
- Experiment IV. Electrochemical Measurements (I): Construction of a controlled potential polarograph, polarographic analysis, investigation of cyclic voltametric techniques.
- Experiment V. Electrochemical Measurements(II): Construction of a coulometric circuit from operational amplifiers, controlled potential coulometric determinations, investigation of reaction mechanisms by coulometric techniques.

- Experiment VI. Spectroscopy Measurements(I): Calibration of a photometer, wavelength calibration of a monochromator, study of line and band sources, measurement of the instrument function of the monochromator.
- Experiment VII. Spectroscopy Measurements(II): Study of Beer's Law and deviations from Beer's Law, precision spectroscopy.
- Experiment VIII. Spectroscopy Measurements(III): Optimization of flame techniques. Study of flame emission, absorption and fluorescence.
- Experiment IX: Separations: Characteristics of a gas chromatograph, column preparation, fatty acid analyses.
- Experiment X. Individual Student Project: The student will choose an experimental area and perform an experiment in this area. The project may be to analyze a real sample or to design, construct and evaluate an analytical instrument.

The equipment in the laboratory is just not adequate to teach this course. The following list of equipment should be retired from the laboratory as it is so old it is completely unreliable or completely out-moded.

- 1 Beckman DU Spectrometer (purchased in 1954)
 - 1 Beckman DU Spectrometer (Sandia Surplus)
 - 1 B&L Model 600 Spectrophotometer (This would be useful elsewhere)
 - 1 B&L Model 505 Spectrophotometer
 - 4 Heath Operational Amplifiers
 - 2 Heath Polarographs
 - 4 Heath Recorders
 - 2 Perkin-Elmer Model 154 Gas Chromatographs (These are completely out of date and not very reliable.
- } Very old and unreliable.

The above equipment should be replaced by the following list of equipment.

Replacement List

<u>Number Requested</u>	<u>Catalog No.</u>		<u>Unit Price</u>	<u>Price</u>
4	EU-80A	Heath Voltage Reference Source	195	780
4	EU-801A	E&L Analog-Digital Designer	575	2,300
4	EU-800-JC	E&L NAND Gate Card	20	80
4	EU-800-CC	E&L Quad J-K Flip-Flop Card	25	100
4	EU-800-JE	E&L AOI Card	25	100
4	EU-55A	E&L Parts Kit and Breadboard	180	720
4	SR-204	Heath Strip Chart Recorder	395	1,580
10	310J	Analog Devices Operational Amp.	55	550
10	EU-800	E&L Universal Card	30	300
2	EU-700-77	GCA/McPherson Monochromator	2,740	5,480
2	EU-703-02	GCA/McPherson Base Assembly	270	540
2	EU-722-11	GCA/McPherson Sample Chamber	860	1,720
2	EU-703-70	GCA/McPherson AA-AE-Af Module	1,600	3,200
3	EU-701-50	GCA/McPherson Light Source Module	705	2,115

Replacement List (Cont'd)

tem No.	Number Requested	Catalog No.		Unit Price	Price
6	3	CU-701-30	GCA/McPherson Photomultiplier Mod.	560	1,680
7	3	EU-707-31	GCA/McPherson Photometric Readout	1,025	3,075
8	4	79050	Edmund HeNe Laser	180	720
9	4	26-4812	Ealing Mercury Lamp	68	272
0	4	26-4820	Ealing Mercury Lamp Power Supply	57	228
1	2	WL-23456	Westinghouse Hollow Cathode Lamp	175	350
2	2	WL-23146	Westinghouse Hollow Cathode Lamp	175	350
3	2	S-37680	Sargent Welch Oxygen Regulator	90	180
4	2	S-37678	Sargent Welch Acetylene Regulator	80	160
5	2	S-37685	Sargent Welch Hydrogen Regulator	90	180
6	4	Model 194	Analog Devices Operational Amplifier		
			Manifold	325	1300
7	2	Model XVI	Sargent Welch Recording Polarograph	2350	4700
9	2	Model 920-00	Varian Gas Chromatographs	1350	2700

Total

\$35,460.

Chemistry 332

The Chemistry 332 laboratory in our department, like Chemistry 331 and 454, have long suffered from neglect. At one time, 15-20 years ago, the lab was well equipped, organized and educationally successful. Since then, due to increased equipment costs, greater experimental sophistication, decreased commitment by the physical chemistry faculty and increased student population, the lab and much of its equipment have become antiquated. The situation reached a critical disintegration point in 1975. At that time a renewed faculty commitment was made, and \$5,000 and a lot of "adhesive tape" brought the lab to the point that there presently are twelve experiments (bare minimum) available to the student. The experiment titles are listed in Table I. There is no duplicate equipment so if something breaks down it takes the experiment out of commission usually for the semester. Not only is this a perilous situation, but many techniques are not presented because needed equipment is broken, worn out or we have never had it available.

The funds requested here would be used in part to rebuild several of our current experiments. In addition, we propose to add 10 additional experiments. This will serve to reduce the use-load on fragile equipment and allow the student to achieve additional skills. The new equipment titles are listed in Table II and the new equipment and its experiment are listed in Table III. It should be emphasized that none of these experiments are "frilly" or unnecessary. All of the experiments are taken from a classic laboratory textbook, and the renewed and expanded laboratory will be much like a laboratory at other comparable chemistry departments. The existing lab is weak and there have been many student complaints in the past about it. The aid last year has reduced the complaints. The further requested aid will allow us to provide a lab that the department and students will be proud of. More importantly, the lab will be able to expose and instruct students in modern chemical methods.

Table I

Present Experiments: Chemistry 332

1. Magnetic Susceptibility of an Inorganic Complex
2. HCl-DCI Vibrational Spectroscopic Analysis
3. Powder X-ray Diffraction
4. Density of Unknown Gases
5. Inversion Kinetics-Polarimetry
6. Absorption Spectrum and Chain Length of a Dye
7. NMR-Boiling Point Diagram Determination
8. $N_2O_4 \rightleftharpoons 2NO_2$ Gas Equilibrium Study
9. Three Component System
10. Absorption from Solution
11. Surface Tension Determination
12. Solute Distribution in Immiscible Solvents

Table II

Proposed New Experiments: Chemistry 332

1. Statistics of Radioactive Measurements
2. Chemical Behavior of Carrier-Free Tracers
3. Half-Life Determination for Ba^{137}
4. Physical Absorption of Gases on Solid Absorbant
5. Order-Disorder Transition of NH_4Cl
6. Lattice Energy of Solid Ar
7. Band Spectrum of H_2 and N_2
8. Flask Photolysis Kinetics of $I\cdot$, I_2 Combination
9. Gas Phase Kinetics of Thermal Decomposition of Cyclopentene
10. Laser Induced Chemistry

Table III

Requested Equipment and Estimated Costs

A. New Experiments:

1. Radioactive Stat: end window Geiger-Müller counter, scales with high voltage power supply, prepared B emitter	\$1000.
2. Carrier-Free Tracer: In ¹¹³ generator, NaI well-type scintillation probe, scales with HV power supply	3000.
3. Half Life: Ba ¹³⁷ generator, survey meter	600.
4. Physical Absorption Cathetometer, rough vacuum pump, diffusion pump, thermocouple gauge, glass line constructed in glass shop	1500.
5. Order-Disorder NH ₄ Cl differential scanning calorimeter	2000.
6. Lattice Energy 2 small vacuum pumps, large glass dewar, machining of cell in metal shop	900.
7. Band Spectrum film, discharge lamps and power supplies, front surface mirrors and lenses, film reader	850.
8. Flask Photolysis: Flask set up	3000.
Storage scope and spectrograph-share with Chem 454	6000.
9. Gas Phase Kinetics Furnace, rough pump, gas handling line, large variac thermo regulator	2500.
10. Laser Chem. Gas regulators, rough pump, plumbing, flask tube power supply, optical components.	3500.
Total	\$24,850.

Priority II: University Funding. High Power Probe for XL-100 NMR Facility

The XL-100 NMR Spectrometer presently in the Chemistry Department is seriously handicapped for certain experiments which are critical for some research projects and programs within the department.

The major disadvantage of this instrument as presently constituted is the result of not having a probe capable of accepting high power pulses. Because of this lack, relaxation times in ^{13}C , ^{31}P , ^{11}B , ^{19}F , and ^{15}N spectra will be rarely obtainable. The reason lies in the fact that the width of observation and measurement for relaxation times is directly related to the power used in the pulse. Without present capability, we can observe about 1000 Hz of spectral width while making relaxation time measurements. This would not be a handicap if the normal span of observed resonances in normal spectra did not cover a greater width. Those peaks which fall outside the practical limit for measuring relaxation times would be "reflected" into the observed region and obscure the peaks there. Widening the observed region so that this did not occur is not possible because of the limitations of power on these measurements. Therefore, while normal spectra can be obtained with the instrument over any width necessary, relaxation time measurements are severely limited by the power restrictions of the instrument.

To remedy the situation would require replacing the present probe with one capable of handling the higher power. Replacing the probe would also require replacing the associated circuitry as well for each nucleus which we can presently observe. To do this would require an expenditure of about \$17,000.

We suggest since this equipment can be obtained in pieces, that the basic system with only ^1H , ^{19}F and ^{13}C capabilities be purchased. The cost would be \$12,418. The remaining attachments can be purchased from individual faculty research grants.

Priority I: Matching Money

The departmental instrumentation proposal to NSF this year is directed toward the establishment of an X-ray diffraction structural chemistry facility. The proposal requests funding from NSF to purchase an automated X-ray diffractometer. The total cost is about \$120,000. The best that can be hoped for is a 1:1 matching formula: \$60,000 NSF, \$60,000 UNM.

The award date for NSF proposals is in late March or early April. If we are not funded this year, we will reapply next year. If funding is obtained, we would be prepared, if necessary, to postpone some of the other request until the next year.

THE UNIVERSITY OF NEW MEXICO

DATE: January 27, 1977

TO: Nathaniel Wollman, Dean, College of Arts and Sciences

FROM: Guido H. Daub, Chairman, Department of Chemistry and R. T. Paine, Chemistry RTP

SUBJECT: Projected Building and Renovation Plans for Chemistry

This is a followup memorandum to two you have received from the Chemistry Department related to our needs for space. These were dated January 20, 1977, and November 30, 1976, and are attached.

The Chemistry Department Building Committee has been studying for some time various alternatives to our pressing instructional and research space needs. We have drafted a preliminary plan containing two phases:

- (a) renovation and reorganization of old laboratory facilities in Clark Hall to provide more efficient space utilization.
- (b) construction of a new Chemistry Building Wing to house instructional and laboratory programs with a suggested size of about 25,000 -30,000 square feet.

A. RENOVATION

At the present time the Chemistry Program is very cramped in its existing quarters. The renovation projects will relieve some of the crowding condition, but additional new space is required in order for us to continually upgrade the program.

You will find attached an outline of our proposal. Plans of the present Chemistry Building are included to help demonstrate the suggested changes.

Renovation of Clark Hall

We previously submitted a request for funds to renovate Rooms 211, 104, 106, 108, 204A, 109 and 109A (see memorandum from R. T. Paine, November 30, 1976*). This request has top priority for this year. A unified plan for the complete renovation of Clark Hall will be presented here.

Since November, we have decided to reinstitute trailer sections in Chemistry 101-102 and Chemistry 301-302. Pressure has been mounting for this move. In order to have trailer sections we need additional instructional space, faculty office space and faculty research space. The following renovation projects are requested:

*(see next page)

<u>Project</u>	<u>Cost</u>
Room 211 - Research	\$18,500
Rooms 104, 106, 108 - Chemistry 253L	\$100,000
Rooms 109, 109A - Chemistry 101L-102L	\$100,000
Room 204A - Office	\$1,000
Rooms B15, B16 Chemistry 121L-122L	\$20,000
Room 203 Classroom	
Room 101 Classroom	
Miscellaneous lighting and plumbing projects	\$25,000
Room 215A - Student Office Conversion	\$12,000

Renovation: Explanatory Notes

Room 121 - a full explanation of this project has been previously submitted (see memorandum from R. T. Paine, November 30, 1976). This room will house a badly needed centralized instrument room for the Inorganic Division.

Room 104, 106, 108, 112, 116 - an explanation of this project was also given in the November memorandum. The project will provide a complete set of modern laboratories for Chemistry 253L located centrally in Clark Hall. The office Room 104 will be made into a balance room, while Rooms 106 and 108 will be converted to student laboratories with new laboratory furniture. Old furniture in Rooms 116 and 112 will also be replaced with new furniture.

Room 109, 109A. This laboratory now houses sections of Chemistry 101-102 and Chemistry 121-122. The laboratory furniture is very old and needs replacing. We suggested that these laboratories be completely renovated and reconstructed exactly as Room 207. These two laboratories together can accommodate all of the laboratory sections of Chemistry 101-102. The accompanying plan schematically shows how this may be accomplished.

Room 204A. This is a simple office renovation. Dr. Litchman will move from his present office in Room 104 to make way for the Chemistry 253L laboratory program. His new office will be Room 202. Dr. Caton will move from Room 202 to 204A adjoining his laboratory in 204B.

Room B15, B15. This laboratory is now used as an overflow laboratory for Chemistry 253L. We suggest that this laboratory be renovated for temporary housing of Chemistry 121-122 which would be housed in the new wing when it is completed. The laboratory furniture is adequate in the room but the hoods need to be renovated, additional laboratory furniture installed, new lighting installed and windows sealed off.

Room 203. This classroom requires new seating.

Room 101. This classroom requires new seating.

Room 215A This room now contains four student desks and a black board. It is open at the top five feet of wall adjoining Room 215B. This partitioning wall should be taken down and Room 215A made part of 215B. Two sections of new laboratory bench furniture and some cabinets and shelving would be required. The vacuum lattice racks in 215B should be reconstructed.

B. NEW WING

Chemistry 101-102 Instructional Center

The center would consist of the following:

- a. two T.V. viewing rooms for display of Chemistry 101-102 lecture review and instructional tapes. They would also be used for recitation meetings.
Size: 45 student capacity
Usage: 8/9 hr/day
- b. secretary's office - one secretary would handle the freshman program load
- c. faculty office
- d. teaching assistant carrels: all Chemistry 101-102, 121-122 and 141 laboratory instructors would be centrally located here in a partitioned room space for 20 carrell space offices.
- e. Self instruction room:
room for 20 carrels containing sound and visual aids equipment and related instructional material.

Chemistry 121-122 laboratory

A new laboratory for this course is desperately needed. It should be able to house six sections per week with desks for 18 students per section: total 128 student desks - we estimate about 2000 square feet.

Chemistry 331-454 Laboratory

A new laboratory is required for this course. Moving the course from its current space, Room 171, will relieve that laboratory for overflow use in Organic Chemistry. The new laboratory will be designed specifically for the course requirements. One room will serve as a "wet-laboratory" having 40 lockers and several hoods. A second laboratory of about 800 square feet will house the instrumentation for the course.

Chemistry 332 plus New Senior Laboratory

A laboratory very similar to the Chemistry 331-454 laboratory is required. There should be a wet laboratory with about 40 desks, a vacuum rack and tables for ovens and balances. An adjoining room for instrumentation would be required. About 1000 square feet total are required.

Instructional Laboratories

Several rooms are needed for housing major instrumentation facilities which we will add in the next ten years. Separate rooms for the following instruments are needed.

<u>Instrument</u>	<u>Space</u>
a) Fast Fourier Transform I.R. spectrometer	~600 square feet
b) Raman Spectrometer	~600 square feet
c) ESR Spectrometer	~800 square feet
d) Laser Spectroscopy Laboratory	~800 square feet
e) Grating I.R. Spectrometer	~500 square feet
f) Organic Instrument Room	~600 square feet
g) Mass Spectrometer	~500 square feet
h) Unassigned	~1500 square feet

All but the Organic Instrumentation laboratory could be housed in the basement in a large open laboratory which will be divided off into individual rooms by temporary partitions. This would allow greatest flexibility.

Research Space

Several faculty are now in very cramped quarters. We need three additional laboratories for these people with about 2000 square feet total.

Our current estimate on addition of faculty during the next ten years would be that the department should add three to five new faculty positions during that time. In order to accommodate such additional faculty, we would need research space of between 6,000 and 9,000 square feet. This would be additional space needed above our current situation.

An autoclave room is needed to allow faculty and students to conduct reactions under high pressure (hydrogenation, amination and other reactions requiring high pressure systems). It would be best if this room was situated as a "penthouse" on the top of the new addition. This laboratory should have approximately 700 square feet of usable space.

A new meeting room is needed with seating capacity of approximately 30 people for use as a small seminar room, a small classroom, or a faculty meeting room. This room should be approximately two times the size of Room 166 in the Riebsomer Wing. Adjoining this room should be a small room in the form of a kitchenette to allow the preparation of such things as coffee or snacks for certain kinds of meetings.

An additional classroom seating approximately 50 people should also be added. This room can be used for both seminars and small classes.

Some faculty have asked that the Chemistry Department facility include a lounge. My personal feeling is that the meeting room suggested above with the kitchenette attached should suffice for that purpose. The electronic shop we presently have in the Riebsomer Wing will probably have to be used to provide expansion space for Dr. Niemczyk's research requirements. It is suggested that a new electronics shop be included in the new wing so that Mr. George could move into a new shop and Niemczyk can absorb the current space occupied by Mr. George. This new electronics shop would require approximately 500 square feet.

We estimate that all of the usable space in the new wing will total approximately $25,000 \pm 5000$ square feet. Attached to this memorandum are copies of floor plans of our current space. In the floor plan for the old Chemistry Building, we have presented two copies of the floor plan. The first copy shows the situation as it now is and the second copy shows the situation after our recommended renovation has taken place. I hope these plans will be of some value to you in presenting our case for additional and renovated space.

THE UNIVERSITY OF NEW MEXICO

DATE: January 20, 1977

TO: Nathaniel Wollman, Dean, College of Arts and Sciences

FROM: Guido H. Daub, Chairman, Department of Chemistry

SUBJECT: Building Priorities

This is in answer to your memorandum of January 17, 1977, regarding building priorities for the Chemistry Department. Please be advised that we are sorely in need of some extensive renovation and a new wing to help relieve our present crowded situation. A memorandum was mailed to you on November 30, 1976, from Professor Paine who is chairman of our Space Committee indicating that approximately \$220,000 were needed for renovation of the original Clark Hall facility. In this memorandum he spelled out pretty definitely what we have in mind and I am attaching to this memorandum a copy of this original memorandum. I want to emphasize that the renovation will not necessarily relieve our pressing needs, but will indeed improve our facilities for teaching several courses and for research. The furniture in the room specified in this memorandum is of such age that it should be replaced as soon as the funds can be found to finance the operation. In addition, the conversion of Professor Litchman's office and Rooms 106 and 108 into an additional quantitative analysis laboratory is highly desirable at this time. If at all possible, I would hope that this latter renovation could be carried out this coming summer. I am alerting Dr. Paine on the substance of the January 17 memorandum and will encourage him to try to get some information to you on our building needs as well.

DATE: November 30, 1976

Nathaniel Wollman, Dean, College of Arts and Sciences

R. T. Paine, Chairman, Space Committee, Department of Chemistry PIP

In the latter part of last fiscal year the Chemistry Department submitted a request for funds which would have permitted the renovation of deteriorated laboratories in Clark Hall. That request was turned down by the Central Administration due to lack of funds. The ad hoc committee on space allocation in the Chemistry Department has reassessed the departmental needs and they submit the following renovation plan and funding request.

Room 211. When Clark Hall was constructed this room was furnished with old laboratory benches from Old Chemistry so this furniture is in excess of forty years old. Room 211 served as a research laboratory for a number of years and then was rented to La Llave by the University. La Llave moved out about one and one-half years ago due to our pressing need for space. The room has been used extensively since then but the badly deteriorated laboratory tables and plumbing are making further utilization impossible. A renovation plan has been presented by the inorganic division of the department which will make the room usable again. The estimated cost for replacing the old benches with equivalent new ones is \$16,000. New benches and cabinets along the north wall and down the center of the room will be installed along with a vacuum lattice rack and shelves.

The refurbished room will be used for the most part by the four inorganic faculty and their students. Common instrumentation used by these faculty, which is now inconveniently disbursed about the building, will be centralized in this room. The equipment consists of:

- Osmometer
- Conductivity bridge
- Vacuum lines and airless-ware systems
- Leak detector
- Portable vacuum system
- Polorimeter
- Vacuum evaporators
- Magnet and quartz microbalance
- Tensimeter

New Equipment which will be located in this room includes:

- Infrared spectrometer
- Visible - U.V. spectrometer
- Dry box
- Cyclic voltametry system

The renovation and centralization of equipment will benefit the research efforts of a number of faculty and students. It will further aid in the supervision of sensitive equipment and it will reduce the duplicate purchase of a number of common items.

435

Rooms 104, 106, 108, 204A.

At the present time Chemistry 253, Quantitative Analysis Laboratory, utilizes Rooms 112, 116, and 118. Two rooms are for actual laboratory manipulations and one small room houses unknown samples and standard solutions. There is more enrollment in this class than these rooms can handle so the overflow is accommodated in a basement laboratory, Room B15. This situation causes a number of logistical problems for the instructors and students. The Space Committee has suggested that Rooms 104, 106, and 108 (two research laboratories and Dr. Litchman's office) be renovated and made part of the Chemistry 253 complex. Rooms 108 and 106 are old research laboratories that have not been extensively used of late. Dr. Caton has drawn plans for the conversion of these rooms to laboratories suitable for Chemistry 253. Room 104 will be converted easily to a balance room. Dr. Litchman's office will be moved to Dr. Caton's present office, Room 202 and Dr. Caton will move to Room 204A. Room 204A requires some minor repair and painting before it can be occupied. The total cost for this change is estimated to be \$80,000-\$100,000 with the bulk going for renovation of 108 and 106.

Rooms 109 and 109A.

These rooms presently house the Chemistry 121-122 freshman chemistry laboratory. This course handles our best chemistry major students. These top students must use the most run down student laboratory in the building. The laboratory benches originated from Old Chemistry so they are more than forty years old. The wood lockers are badly decayed which creates a safety problem as well as a laboratory equipment security problem. The Space Committee proposes that the rooms be refurnished, repainted and relighted and the hoods replaced. Renovation plans have been submitted by Dr. Coleman and the price estimate for renovation is \$100,000.

These last two renovation projects will be very expensive. We realize this fully and that is why we are doing as much as possible to utilize our present space before we request a new wing. During a recent open house in the Chemistry Department for high school science teachers, the teachers were shown typical student laboratories. They were surprised and disappointed when they saw laboratories such as 109, 109A B15 and 110. We can not expect to compete against other universities in our region for top undergraduates without providing competitive facilities.

The requests outlined here are the result of considerable study by the Chemistry Department. The recommendations and funding request are intended to save the University money and greatly improve the student educational/research product. With consolidations we have already made and these planned renovations we are at the point of being out of space. The Space Committee is now attempting to assess our future needs for space and an expansion plan will be submitted shortly.

Summary Budget Request

For: Renovation of Clark Hall (Chemistry)

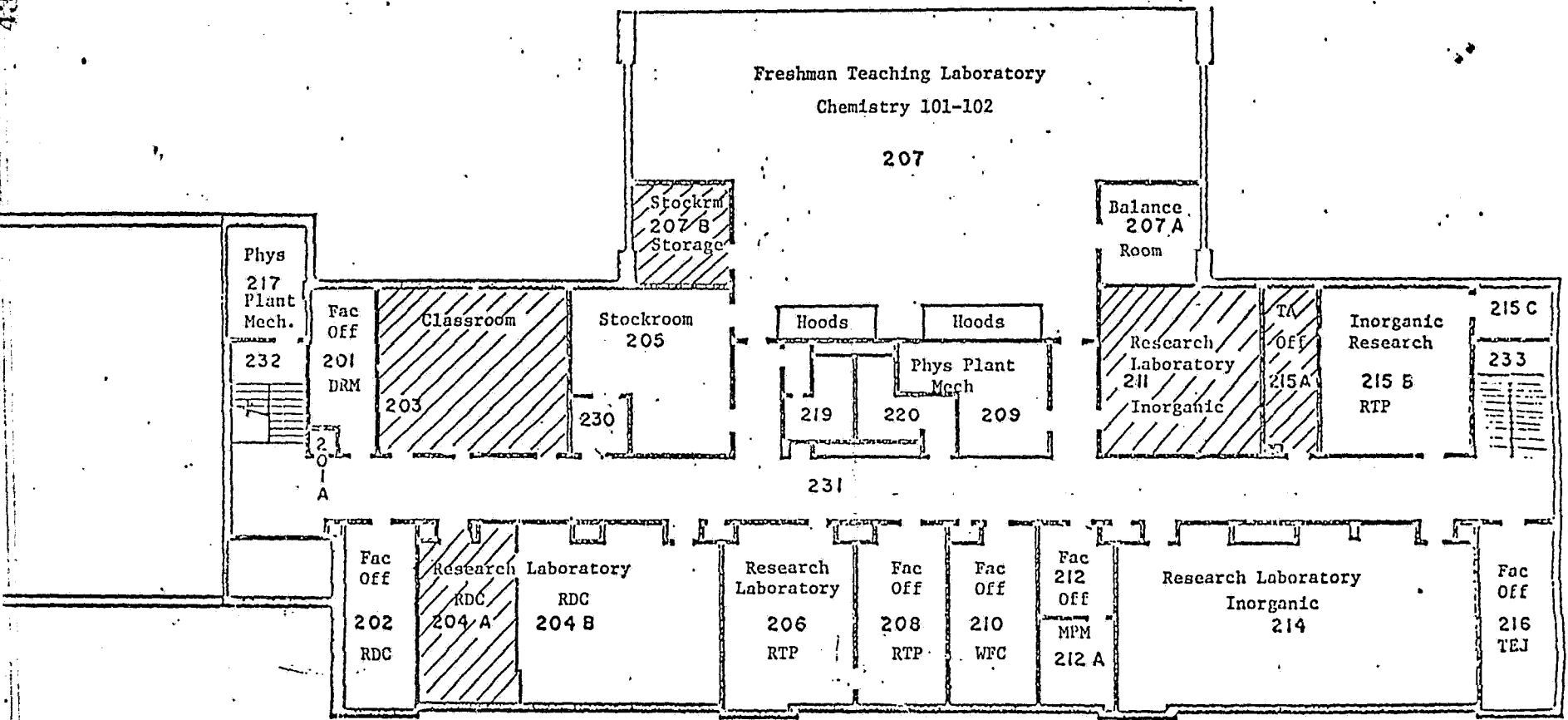
RoomsEstimated Cost

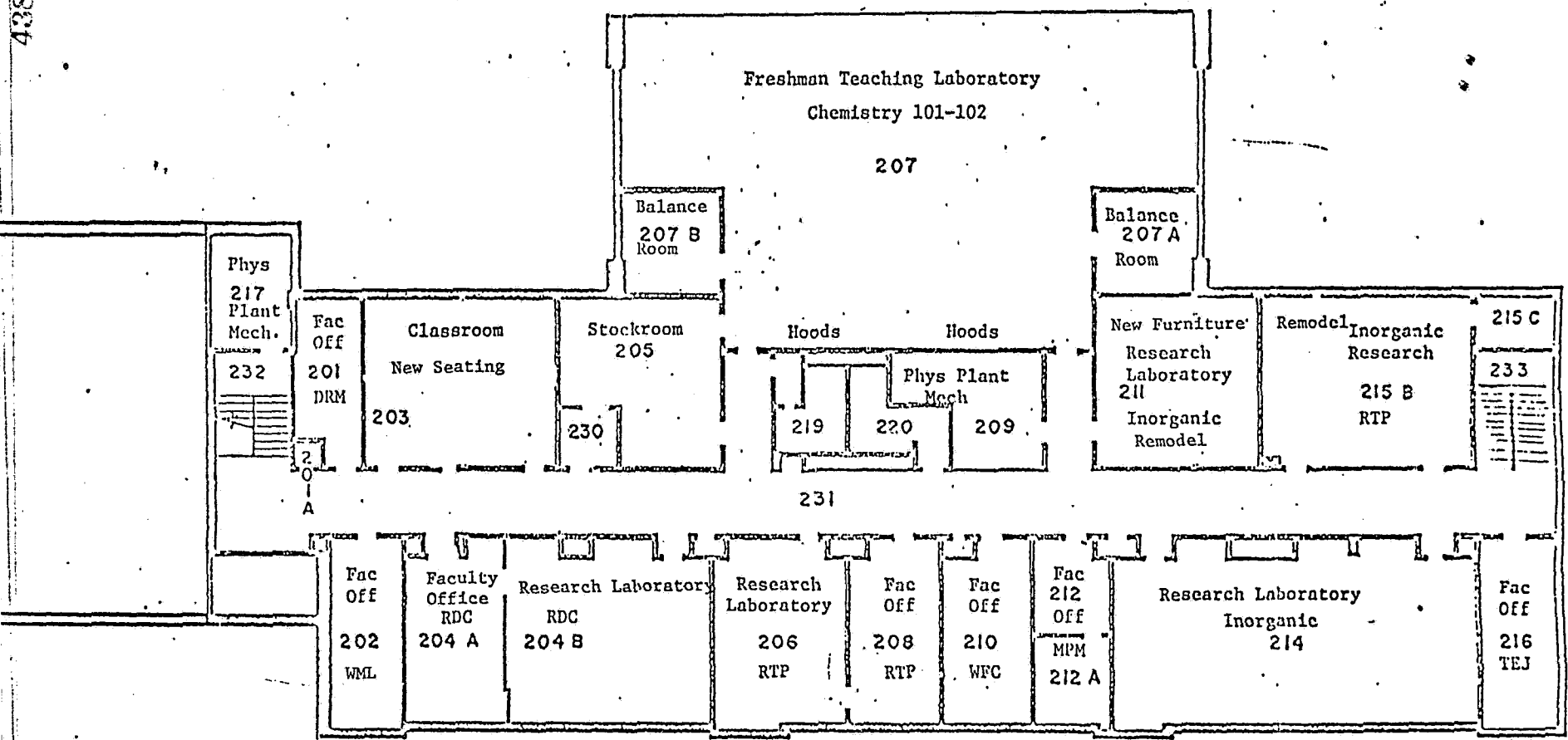
211	\$16,000
104, 106, 108, 204A	\$80,000-\$100,000
109, 109A	<u>\$100,000</u>
	\$196,000-\$216,000.




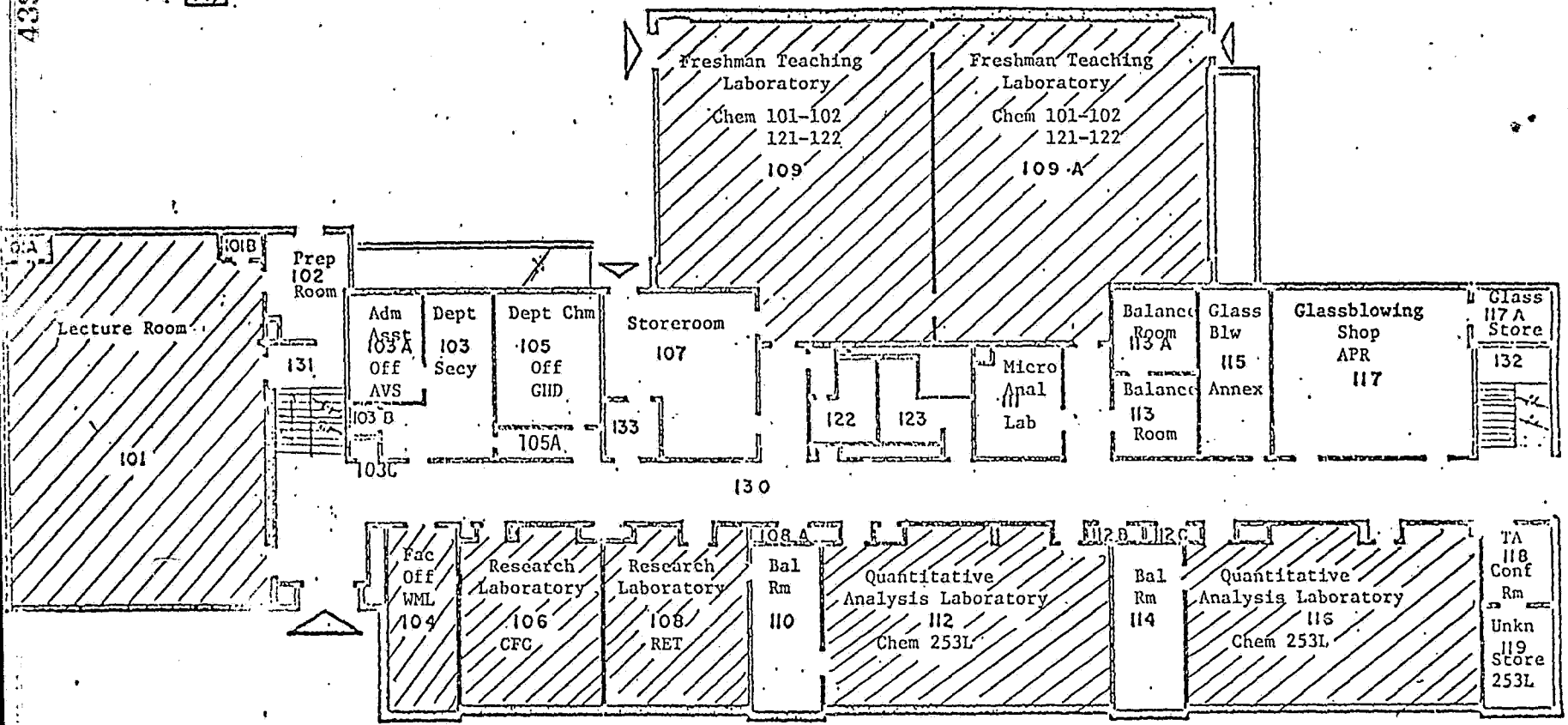
= Spaces to be Renovated

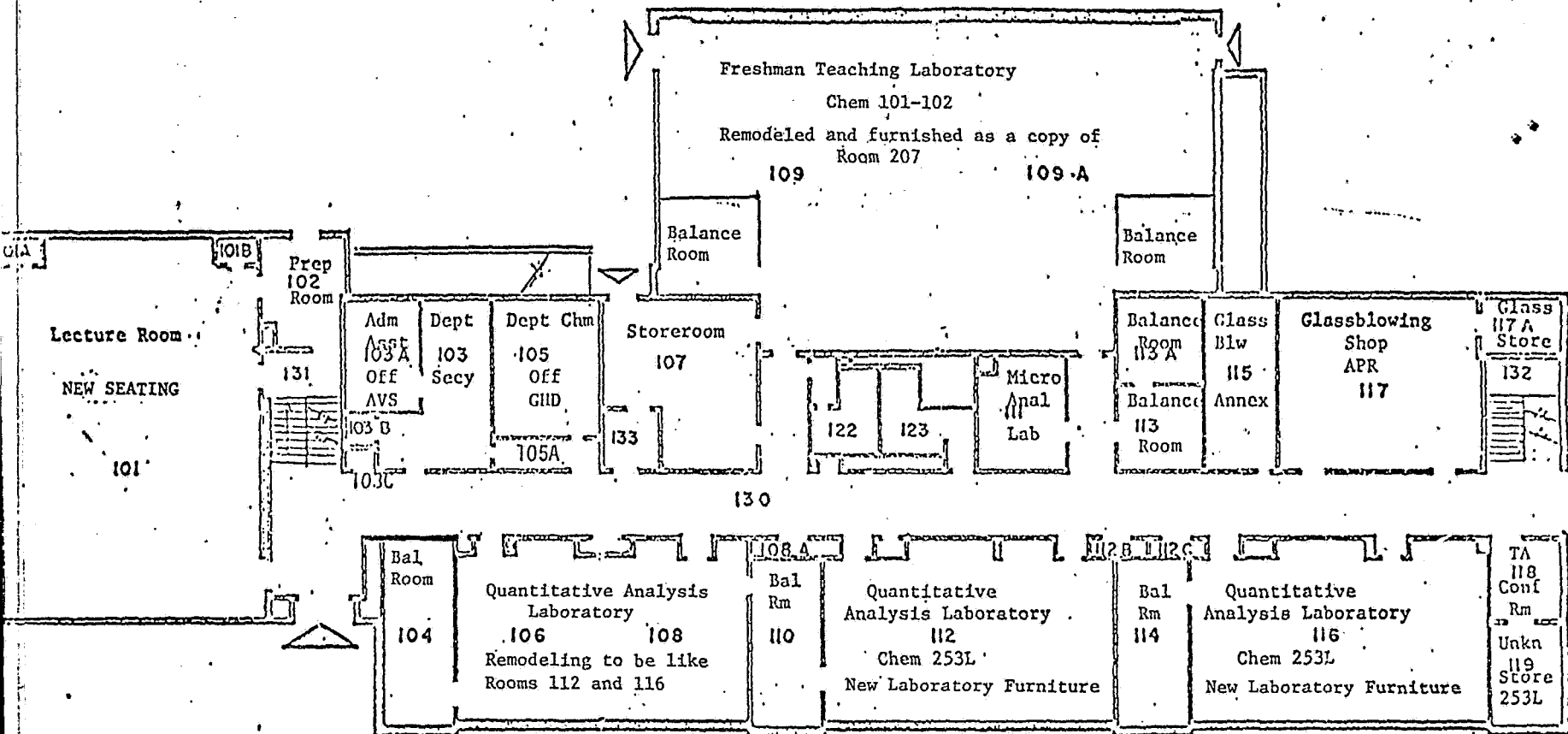
Second Floor - Old Chemistry Building






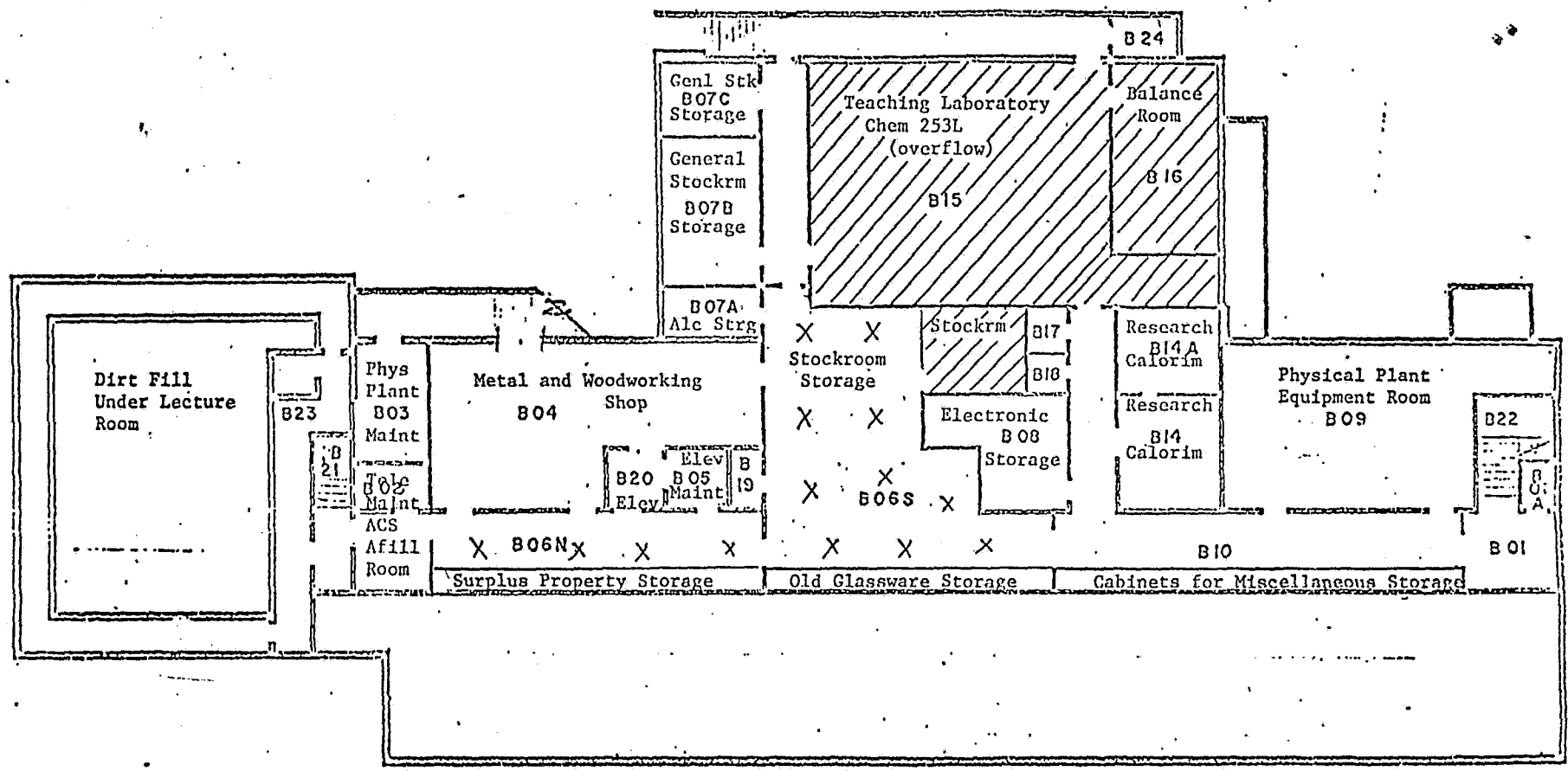
 - Spaces to be Renovated





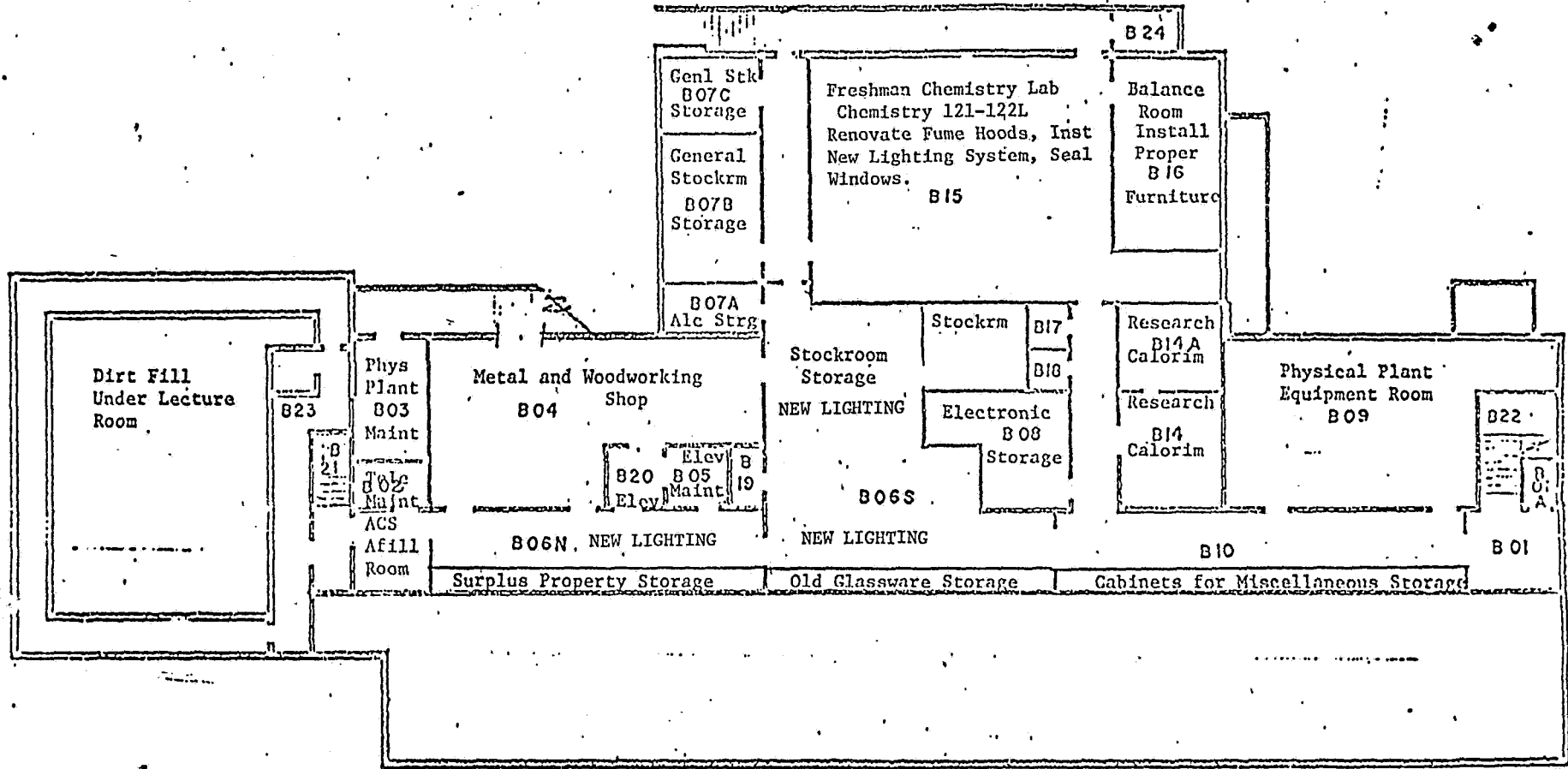
-  = Space to be Renovated
- X = Lighting Only

BASEMENT-OLD CHEMISTRY BUILDING



BASEMENT-OLD CHEMISTRY BUILDING

AFTER RENOVATION



I. Program Achievements

- A. Our graduate program in audiology received accreditation by the American Boards of Examiners in Speech Pathology and Audiology (ABESPA) in September, 1976. Both Speech Pathology and Audiology are now recognized by ABESPA.
- B. The Department Curriculum Committee, co-chaired by Drs. Richard Hood and Dolores Butt, continued the curriculum review with several changes being recommended. A major effort was made this year to identify weaknesses in both the academic and clinical programs in Audiology and to develop a closer interface among course work and clinical training activities. The curriculum committee also spent a great deal of time discussing our comprehensive examination policy and format and modifying our present examinations. Two graduate students participated in curriculum meetings and served as liaison with the student organization.
- C. With support from the Indian Health Service the Department has conducted three national conferences on communication disorders. A fourth conference dealing with manpower needs was planned this year and will be held during the 1977 Summer or Fall Semester. Each of the previous conferences has had guest speakers of national and/or international reputation and has resulted in excellent publicity for the University. Conference proceedings are recorded and will be published individually or as a combined work.

D. We have continued our efforts to upgrade all aspects of the Department through several approaches to program evaluation. Included were the following:

1. The entire faculty and student representatives participated in weekly faculty and curriculum meetings.
2. Several meetings were held with graduate students to solicit input regarding program needs and possible means and possible means of improvement.
3. A student review committee consisting of Drs. Hood, Lybolt and Lamb screened all applicants for the graduate program. Drs. Hood and Lybolt, with assistance from others when needed, reviewed academic and clinical programs and progress of almost all of the graduate students. Departmental policy is to review each student early in his/her program and again near completion of the program. Attempts are made to identify and correct any areas of weakness, academic or clinical, and to insure that students meet certification requirements of the American Speech and Hearing Association as well as graduate school requirements. Students found to be deficient in any area are notified in writing of the deficiencies and what steps are necessary to correct them.
4. This year we sent questionnaires to ex-students to obtain information on department strengths and weaknesses. Questionnaires also were sent to employers or supervisors of our graduates seeking input on their professional performance. Information from these questionnaires is being used in program planning and to support grant applications.

5. In November, 1976, we moved our clinical audiology facility to Bernalillo County Medical Center (BCMC) as part of the new Center for Otolaryngology and Communicative Disorders. Audiology and EIT are housed in a newly renovated area in the south wing of the fifth floor. We have also been assigned a small area for speech pathology on the fourth floor. In these settings students are given an opportunity to work with a variety of medically related speech, language and hearing disorders and to relate closely with medical specialists and other professionals. Both the audiology and speech pathology programs are growing rapidly with services being offered to pediatrics, neurology, medicine, physical medicine and rehabilitation, EIT and others. A special early identification program for hearing impaired children is being developed in collaboration with several neonatologists, focusing on newborn babies in the High Risk Neonatal Intensive Care Unit. Linda Weir, M.A., Matt Smith, M.A., and Judy Williams, M.A., all instructors and Clinical Supervisors, have primary responsibility for the BMC programs. The Center for Otolaryngology and Communicative Disorders is co-directed by Fred Horzon, M.D., and Lloyd Lamb, Ph.D.
6. In the 1976 Fall Semester we introduced a field study program in which advanced graduate students are assigned to professional settings to provide speech, language and/or hearing services as part of their practicum training. They are required to work alongside practicing professionals at

least four full work days per week for an entire semester. The field study semester is designed as an externship experience and intended to give a "real world" approach to the students final practicum experience. All graduate students are required to participate in this program which is offered for 6 hours credit as CD 558: Field Study. Several local facilities are cooperating in the program and we already have placed one student at a facility in El Paso, Texas. We also have been invited to send students to the Mallman Child Development Center in Miami, Florida, for their field study semesters. Mary Bolton, M.A., Instructor in Speech Pathology, coordinates this program.

7. Admission requirements for the graduate program were upgraded this year. Where the graduate school accepts students with a 3.0 GPA in their major areas, we have raised our minimum GPA requirements to 3.25.

II. Plans for 1977-1978

During the coming year we plan to continue working to improve all existing department programs. In addition, we plan to introduce new programs or give new emphasis to certain activities. Among anticipated changes are the following:

- A. We have completed the fourth year of a research and training project focusing on speech and language development and disorders among Pueblo Indian children. For the first three years support was provided through a grant from the U. S. Office of Child Development. During 1976-77 primary support came from our Bureau of Education for the Handicapped Training Grant as will be the case next year. The emphasis will continue to be on

training Indian speech and language aides and on development of therapy and test materials for use with Indian children.

- B. We anticipate moving from our clinical facilities in the Surge Building to temporary quarters in the modular buildings at the corner of Vassar and Frontier, N.E. The central administration has indicated that this should be viewed only as a temporary solution to our space problems and that we should begin planning for a permanent facility that would house the entire program under one roof.
- C. We are planning a formal teaching and research affiliation with the Speech Pathology and Audiology Division of the Los Lunas State Hospital and Training Center. Details will be provided in next year's report.
- D. As mentioned above, we are developing an early identification program for hearing impaired infants and young children. Next year we will seek grant support to expand the program to include other disorders and to introduce an early intervention component.

III. New Courses

One new course was introduced this year. This course, Com. Dis. 558: Field Study, is offered for six credit hours to graduate students in the final semester of their programs. Students enrolled in Field Study are placed in one or more cooperating facilities to gain practicum experience in on-going professional service situations. They work essentially full-time in these settings and are not allowed to take course work that will interfere with their practicum training. All students are required to participate in the Field Study program.

The following course changes also became effective Fall, 1976.

- a. Com.Ds. 450: Change title to Neurology and Neuro-pathologies of Speech and increase from 3 to 4 credits.
- b. Com.Ds. 437: Change title to Aphasia and Related Disorders.
- c. Com.Ds. 537: Change title to Clinical Aphasiology.
- d. Com.Ds. 531: Change title to Communication Problems of the Multi-handicapped.

IV. Student Enrollment

Departmental enrollment was larger this year than ever before. There were about 45 declared undergraduate majors and 51 graduate students (47 full-time and 4 part-time). Twenty students were awarded masters degrees. This year we received applications from over 80 potential graduate students, most of whom have excellent records and recommendations.

V. Personnel Changes During the Year

Linda Weir, M.A., joined the faculty in August, 1976, as Instructor and Clinical Supervisor, Audiology. She replaced John Grainger. Ms. Weir's specialty is pediatric audiology.

We have begun recruiting replacements for Dr. Wayne Swisher, who has resigned effective June 30, 1977, and Dr. Fred Christ, who plans to retire in either December, 1977, or May, 1978. Both will be replaced by Ph.D. level people at the rank of Assistant or Associate Professor.

Due to termination of two contracts with the Indian Health Service, we lost several faculty and staff this year. Included were:

Jeanette Johnson, Ph.D.
John Grainer, M.A.
Audrey Chumley, M.S.
Betty Watrous, M.A.
Louis Seymore, Electronics Technician
Connie Talley, Audiometric Technician
Two secretaries

Diana Doan, M.A., joined the faculty on a temporary, part-time basis, as Clinical Supervisor, Speech Pathology. Michael Kaplan, M.A., continued in this capacity.

John Lybolt completed requirements for the Ph.D. degree at Northwestern University. His final oral examinations were held in May, 1977.

VI. Non-University Support

Financial support for the Department of Communicative Disorders was obtained from several non-University sources during the 1975-76 academic year.

The training grant from the U. S. Office of Education, Bureau of Education for the Handicapped, was increased from \$34,000 last year to \$50,000 for 1976-77. Next year's grant has been approved at \$52,000. Next year the grant will include complete support for one clinical supervisor and one research associate, as well as partial support for a professor. It also provides stipends for five graduate students, as well as funds for equipment, travel and other project costs. Part of this grant has been earmarked as support for the Indian Para-professional training program. The new grant became effective June 1, 1977.

In June, 1975, the Department of Communicative Disorders contracted with the Indian Health Service to conduct a series of six national conferences dealing with various types of communication problems. Three conferences have been completed and a fourth was planned this year to be conducted during the 1977 Summer or Fall Semester. The contract totals \$34,500. The conferences deal with, but are not limited to, problems of the American Indians, and involve as participants people of national and international reputations

In speech, language and hearing. They are designed to inform, to define research needs and to stimulate research activities in the topic areas. Thus far the conferences have focused a great deal of favorable attention on the Department and the University.

The New Mexico Elks Cerebral Palsy Commission provides a grant each year to support a graduate student and to cover other expenses of our cerebral palsy service program. This year's grant totaled approximately \$4,000.

Partial or total support was provided under various contracts or grants for the following Communicative Disorders personnel:

- a. Dolores Butt, Ph.D., Assoc. Prof. Speech Pathology
(25 per cent)
- b. Judy Williams, M.A., Clinical Supervisor, Speech Pathology
(100 per cent)
- c. Wendy Carlson, M.S., Research Speech Pathologist
(100 per cent)
- d. Secretary-Bookkeeper, Medical School Communicative Disorders Unit (100 per cent)

VII. Supervised Clinical Practicum and Clinical Service Activities

Diagnostic speech, hearing and language evaluations and therapy were conducted by students and staff in a number of settings with patients representing a wide variety of disorders. The overall population available for student practicum again showed an increase over previous years. This year our students saw approximately 420 patients for speech and language evaluations and/or treatment. Approximately 1,000 patients were seen for hearing test services at the Speech and Hearing Center and the new Audiology Clinic established at BCMC by the Department of Communicative Disorders. Most services were provided by audiology graduate students. In addition to working at the Speech and Hearing Center and the BCMC Audiology Clinic,

students gained practicum experience in such diverse settings as the Veterans Administration Hospital, the Rehabilitation Center, Inc., the Albuquerque Public Schools, the New Mexico School for the Deaf and two pre-school deaf programs. Speech, hearing and language diagnostic and treatment activities were also carried out in several locations outside of Albuquerque both by students and staff.

VIII. Inter-Departmental Cooperation

Cooperative teaching arrangements existed this year, as in the past, with several other University programs. We have continued to work closely through formal and informal teaching arrangements and program development activities with groups including linguistics, speech communication, special education and several groups within the Medical School.

At present we are working with Fred Horzon, M.D., Associate Professor, Department of Surgery, in the Center for Otolaryngology and Communicative Disorders at Bernalillo County Medical Center. We have provided the Center a hearing test room and a two-room test suite as well as equipment. We also have one permanent audiology faculty member, Linda Weir, assigned there full-time. The Department of Surgery provides salary support for Matthew Smith, M.S., Lecturer and Clinical Supervisor, Audiology, who works as clinical audiologist at the Center. This provides our students an excellent site for clinical practicum training. As part of the Center's activities we are also developing a speech and language pathology program at BCMC that relates closely with other Medical School departments, including Neurology, Pediatrics and Physical Medicine and Rehabilitation. Ms. Judy Williams, of our faculty, is largely responsible for developing and coordinating speech and language activities at BCMC.

Several research projects are being conducted or developed in collaboration with other departments. Dr. Lloyd Lamb and Ms. Linda Weir are working with neonatologists at BCMC to develop a newborn hearing screening program for high risk infants. Dr. Wayne Swisher is involved in a joint research effort with Dr. Charles Hawkins of Electrical Engineering, using an ultra-sound technique to analyze tongue and pharyngeal wall movements. Dr. Swisher also is working with Dr. Michael Orgel, Professor of Plastic Surgery, on videofluoroscopic studies of cleft palate children.

Departmental faculty have worked closely this year with Programs for Children (PFC) of the Mental Health-Mental Development Center. Dr. John Lybolt and Ms. Judy Williams assisted in interdisciplinary diagnostic clinics and supervised student practicum at PFC. We have also assisted PFC in recruiting a language specialist, Dr. Carol Westby, who will join their staff in July, 1977, and will hold a joint appointment with Communicative Disorders. Dr. Westby will be available to teach courses and supervise student practicum in our department.

IX. Composite of information requested on individual biographical supplements

A. Mary L. Bolton

6. (a) Facilitator--Professional Standards Review Panel--
New Mexico Speech and Hearing Assn. Spring Convention
- (b) Attended ASHA Convention, Houston, Nov. 1976
- (c) Regional Editor, NAISHA Newsletter
- (d) Committee member, PSRO, Albuquerque Speech and Hearing Professionals
- (e) Chairperson, Hospitality, Albuquerque Speech and Hearing Professionals
7. Consultant, Socorro Public Schools
8. (a) Co-sponsor of UNM Chapter of National Student Speech

and Hearing Association

(b) Faculty Advisor

B. Dolores Butt

5. Project Coordinator--Training of Indians as para-professional speech and language personnel
7. (a) Mental Health Division, Indian Health Service
(b) Deaf-Blind Program--Albuquerque Public Schools
(c) Jemez Day School
8. (a) Director--Elks Cerebral Palsy Program (Department of Communicative Disorders)
(b) Chairperson--Department Curriculum Committee

C. Fred M. Christ, Sr.

2. Sabbatical leave Semester I, 1976-1977
5. (a) Foreign Accent--Spanish (in progress)
(b) An Introduction to Phonetics: A Listening Laboratory Course (Sabbatical leave project)
6. Attended ASHA Convention, Houston, Nov. 1976
8. (a) Committee Member, Linguistics Committee
(b) Faculty Advisor
(c) Coordinator, Foreign Dialect Program
9. Vestry Member, Canterbury Chapel, UAM Episcopal Church

D. Richard B. Hood

6. (a) "A comparison of two methods of speech reception threshold measurement" paper presented at the convention of the American Speech and Hearing Association, Houston, Nov., 1976
(b) "Residual hearing and success in auditory training" paper presented at the convention of the American Speech and Hearing Association, Houston, Nov., 1976
7. (a) Consultant: Aural Rehabilitation to Veterans Administration Hospital
(b) Consultant: Hearing Conservation to Navajo Forest Products Industries

- (c) Consultant: Socorro Public Schols
- (d) Co-chairperson of the Committee on Better Hearing and Speech Month
- 8. (a) Faculty Advisor
- (b) Co-chairperson, Department Curriculum Committee
- E. Lloyd E. Lamb
- 4. "Acoustic Impedance Measurement with Children" in Goldman, A. and Wilbur, L. (eds.), Acoustic Impedance and Admittance: The Measurement of Middle Ear Function, Williams and Wilkins, 1976
- 5. "Comparative Study of Tympanometry with Impedance and Oto-Admittance Techniques." Research in progress, Baylor University Medical School
- 6. Chairman, Dual scientific sessions on "Acoustic Reflex Measurements" American Speech and Hearing Assn. Convention, Houston, Nov., 1976.
- 8. (a) Chairman, Department of Communicative Disorders
- (b) Director, University Speech and Hearing Center
- (c) Co-director, Center for Otolaryngology and Communicative Disorders
- (d) Member, Research Allocations Committee
- (e) Project Director, Bureau of Education for the Handicapped Training Grant
- 9. Member, Board of Directors, Albuquerque Civic Light Opera Assn.
- F. John T. Lybolt
- 1. Earned Ph.D. degree--Northwestern University, Evanston, Ill., May, 1977
Thesis entitled: Production of /-s/, /-z/, /-t/, and /-d/ As Sound Morphemes and as Stem Terminal Phonemes by Groups of Normal-Speaking, Articulation Impaired and Syntactically Delayed Preschool Children.
- 6. (a) Attended American Speech and Hearing Convention, Nov., 1976, Houston, Texas
- (b) Attended New Mexico Speech and Hearing Assn. Convention, Oct., 1976, Albuquerque, NM
- (c) Attended American Speech and Hearing Assn Directors Conference, June, 1976

- (d) Development of Voice Onset Time: A Case Study. Paper read at ASHA Convention, Nov., 1976
 - (e) Behavior Modification in a Natural Environment. Short Course presented at NISHA Convention, Oct., 1976
 - (f) Morphophonemic Processes of Normal-Speaking Children and Children Varying in Phonological and Syntactical and Phonological Delay. Submitted to ASHA for Convention, Nov., 1977
 - (g) Selection of Screening Devices in a Hospital Outpatient Pediatric Clinic. Submitted to ASHA for Convention, Nov., 1977, with Judy Williams, M.A., and Linda Weir, M.A.
7. Consultant: Socorro Public Schools, Speech Pathology Diagnostic and Treatment, 1977
8. Clinical Coordinator, Speech and Language Pathology
- G. Wayne Swisher
4. (a) "Linear Array of Ultrasonographic Tracking of Lateral Pharyngeal Wall During Speech" Accepted for publication, Cleft Palate Journal, May, 1977.
- (b) "A Distinctive Feature Analysis of the Articulation Patterns in a Group of Cleft Palate Children" Accepted for publication, Cleft Palate Journal, April, 1977.
5. (a) "Neuroanatomy and Neurophysiology for the Speech Pathologist," a book being written for C.B. Mosby Publishing Co., to be completed by Nov., 1977.
- (b) "Respiratory Patterns in a Group of Cleft Palate Children During Speech," a paper submitted to the 1977 ASHA Convention, Chicago, Ill.
- (c) "The Use of Mercury Strain Gauges in the Assessment of Respiratory Patterns in Adults," a paper submitted to the 1977 ASHA Convention, Chicago, Ill.
6. (a) "Oral Pressures, Intelligibility Scores, and Acceptability Ratings in a Group of Esophageal Speakers," a paper presented at the ASHA Convention, Houston, Texas, Nov., 1976
- (b) Chairman of the technical paper session for the ASHA Convention, Houston, Texas, Nov., 1976
- (c) Chairman of the technical paper session for the ASHA Convention to be held in Nov., 1977, Chicago, Ill.
7. (a) Consultant to: Indian Health Service
- (b) Consultant to: Veterans Administration Hospital

- (c) Consultant to: Public Health Service Hospital Cleft Palate Clinic, Gallup, NM
- (d) Consultant to: New Mexico Cleft Palate Clinic, Albuquerque, NM
- (e) Medical Advisor for the American Cancer Society/Lost Chord Club Visitation Program

8. Faculty Advisor

9. Board member of the Del Norte Baptist Kindergarten

II. Judy Williams

- 5. Collecting data on the sensitivity of screening tests (speech) to pick up children with mild hearing losses.
- 6. (a) Presented paper "The Role of the Communication Specialists in a Hospital Setting" at the American Speech and Hearing Convention, Houston, Nov., 1976
- (b) New Mexico representative to ASHA workshop on the "problems of the Aged"
- (c) New Mexico's ASHA representative to the ASHA Committee "Equality of the Sexes in the Profession"
- 7. (a) Consultant to Program for Children--(diagnostic clinic)
- (b) Provided inservice training for the staff at Programs for Children
- (c) Consultant to: Socorro Public Schools
- 8. Developed speech pathology department at BCMC. The program provides screening, diagnostic, and therapy services for both inpatients and outpatients.

I. Linda Weir

- 5. (a) Joint screening program with Speech Pathology in the Pediatric outpatient clinic. Collecting data re: incidence of speech and hearing problems. An abstract was submitted to ASHA for presentation at the Fall, 1977 ASHA convention.
- (b) Beginning an early identification program with the High Risk Neonatal Intensive Care Unit at BCMC. Data will be collected during the next year; computer retrieval will be utilized in analysis.
- 6. (a) Attended ASHA, Nov., 1976, Houston, Texas
- (b) Attended NMSHA, April, 1977, Las Cruces, NM
- (c) Attended monthly ASAP meetings in Albuquerque, NM

- (d) Attended Symposium on Impedance Screening for Children, June, 1977, Nashville, Tenn.
- 7. (a) Consultant to: Industrial Screening, Sept., 1976
- (b) Consultant to: Industrial Screening (Price's Dairy) Jan., 1977
- (c) Consultant to: Socorro School Screening, April, 1977
- (d) Consultant to: Impedance School, May, 1977
- (e) Off-campus presentation: spoke to Programs for Children Developmental Disabilities Team re: the importance of hearing testing as a part of their assessment
- (f) Presentation: In service meeting with BCMC neonatologists and PICU nurses regarding the early identification of hearing loss in high risk newborns.
- (g) Member, Cleft Palate Team, Rehabilitation Center, Inc.

The Report of the Department of Economics
July 1, 1976 - June 30, 1977
Gerald J. Boyle, Chairman

I. General Departmental Information..

The Department continues to move forward on the path laid out four or five years ago. Specialization in natural resources economics at the graduate level has become a fact of life. The natural resource group has maintained its level of sponsored research and is the mainstay of the graduate program -- the sponsored research providing both research topics and financial support for graduate students. However, this method of supporting a graduate program is not without its problems, two of which deserve mention. First, sponsored research depends on the sponsor and rarely is the commitment made in the spring when graduate students are deciding where to go; as a result, we are often forced to accept less than the best (this could be moderated if the University was willing to take a chance on the level of sponsored research and guarantee funds at the time of need). A second problem, possibly a more serious one, is the natural division which occurs in a two-tiered Department. Since natural resources is a specialty much in demand at the moment, there is a substantial salary differential between the specialists and the remainder of the Department. There is little that can be done about this but is a widely appreciated

condition.

Two permanent faculty have been added for 1977-78. Dr. Gary Libecap is a specialist in economic history and industrial organization -- he will add strength in a weak area. Mr. Ronald Johnson has been brought in to fill the gap left by the resignation of Professor Schulze -- he will offer courses in natural resource economics and become active in the research program. A good result of adding to the faculty is the new-found ability to increase the sections of intermediate theory courses. These have grown to enrollments as high as 100 -- such classes are unwieldy and doubling the numbers of sections makes the teaching of micro and macro theory much more effective.

Professor Schulze has resigned and will move to U.S.C. in Los Angeles (an incomprehensible choice on his part). As I mentioned above, he will be replaced by Assistant Professor Johnson in both the teaching and research areas since the level of funding in natural resources continues at a high level.

Professors Gregory, Brown and Parker (1 semester) will be on sabbatical leave during 1977/78. To partially offset this loss of teaching, we have hired Professor Edna Loehman who is on sabbatical from the University of Florida. She will offer courses in her specialty as well as intermediate theory. The funds to make this appointment are being provided from released time funds within the department.

- 3 -

In summary, the Department continues to meet its responsibilities and the graduate program remains at a satisfactory level. While personnel changes are taking place at least we are maintaining the quality of the faculty.

Publications

"Renewable Resources and Toxic Residuals", *Economic and Social Measures of Biologic and Climatic Change*, CIAP, Vol. 6, GPO, 1976, (With W. D. Schulze)

A Preliminary Economic Feasibility Study For The Establishment of an Energy-Water Complex in the Tularosa Basin, New Mexico Water Resources Research Institute, WRRRI Report No. 068, February 1976 (With R. Lansford, et.al.)

"The Potential for Desalinization in the Tularosa Basin of New Mexico" for *International Journal of Desalinization*. (with R. Lansford, et.al.)

"The Economic Feasibility of Nuclear Desalination of Groundwater in New Mexico" paper submitted to Contributed Papers Section, American Agricultural Economics Association, 1976 Summer Meetings, Pennsylvania State University, August 15-18, 1976 (with R. Lansford, et.al.)

"Predicting Water Based Recreation: A Generalized Approach", Working Paper Series No. 5, University of New Mexico, (with J. Baxter, W. Schulze, M. Thayer)

"The Impact of Water Quality on Agricultural Water Utilization in the Rio Grande Basin of New Mexico", Technical Completion Report, Project No. 3109-14501, New Mexico Water Resources Research Institute, July 1976.

"Upstream Crowding and the Downstream Externality: A Theoretical and Empirical Analysis", *Journal of Environmental Economics and Management*, forthcoming (With W. Schulze)

"The Optimal Utilization of Renewable Resources", *Journal of Environmental Economics and Management*, forthcoming, (With W. Schulze)

"The Economics of Solar Energy: New Term Prospects", invited paper for *Natural Resource Journal*, forthcoming (With S. Noll, M. Thayer, R. Katson and W. Schulze)

Research Projects in process or completed.

1974-1977: Principal Investigator, NSF-RANN, "Collaborative Research on Assessment of Man's Activities in the Lake Powell Region" (Economics Subproject)

1975-1977: Principal Investigator, NSF-RANN, "An Economic and Environmental Evaluation of Solar and Geothermal Energy Sources" #APR7518249

1976-1979: Senior Investigator, USEPA, "Methods Development for Assessing Tradeoffs in Environmental Management"

8M--11/24/75

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1976 TO DECEMBER 31, 1976

462

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. **Non-teaching University service** (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

The University of New Mexico

463

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 19__ TO DECEMBER 31, 19__

Name _____ Rank (or title) _____

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

464

FOR THE PERIOD JANUARY 1, 1976 TO DECEMBER 31, 1976Name Peter Gregory Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

Travel in Central America for the Yunguán, Novillo, summer, 1976.

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

"The Impact of Inflation on Industrial Wages in Mexico," Industrial Relations Research Association, Proceedings of the Twenty-Eighth Annual Winter Meeting, pp. 28-31.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

"Recent Changes in Employment in Mexico and Comparison in Less Developed Countries,"A research paper presented at the meeting."Políticas de Ingresos en México," presented for the International LabourConference, Lima, Peruvian Republic, 1976. Also presented in Costa Rica,June-July, 1976. Also presented in Caracas.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

"Employment Limitations of Developing Countries: Wages and Employment Conditions: A
Study of Mexico," presented at the Fourth World Congress, International
Labour Relations Association, Geneva, Switzerland, September 1976.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

"The Association of Banks for Reconstruction and Development andIndustrial Bank of Latin America, 1976. Also presented at the Congreso para América Latinay el Caribe (Economic and Social Development in Latin America and the Caribbean)held at the University of Puerto Rico, San Juan, Puerto Rico, 1976. Also presented at the
International Labour Relations Association, Geneva, Switzerland, September 1976.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Member, Faculty of Economics, University of New Mexico, Spring, 1976Member, Faculty of Economics, University of New Mexico, Spring, 1976

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

Member, Board of Directors, University of New MexicoMember, Board of Directors, University of New Mexico

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

465

FOR THE PERIOD JANUARY 1, 19____ TO DECEMBER 31, 19____

Name Mr. J. A. [illegible] Rank (or title) _____
1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD

466

FOR THE PERIOD JANUARY 1, 19__ TO DECEMBER 31, 19__

Name Albert M. Church Rank (or title) Prof.

1. Advanced study (Include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1976 TO DECEMBER 31, 1976

Name SAMFORD CORBIN Rank (or title) Professor

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

VISITING PROFESSOR, UNIVERSITY OF CALIFORNIA, LA JOLLA, CALIFORNIA, SUMMER 1976

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

"THE GARDNER - A NEW APPROACH TO THE HISTORY OF ARBITRATION" GARDNER, J. B., VOL. 27, NO. 1, PP. 18-23, COMPTON, 1976.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

ISSUES IN LABOR POLICY, WITH THE UNIVERSITY OF CALIFORNIA, LA JOLLA, CALIFORNIA, SUMMER 1976.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

LABOR ARBITRATION ASSOCIATION, SUMMER 1976.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

CONSULTANT TO THE UNIVERSITY OF CALIFORNIA, LA JOLLA, CALIFORNIA, SUMMER 1976.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

LABOR ARBITRATION ASSOCIATION, SUMMER 1976.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

3M-11/24/75

468

Name Tham Chuan Rank (or title) 1st Lt. Col. in Ret.

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

1. "On the Laine's North High Plains: an Apparent 'Dead' Lake", *Science*, Vol. 512, No. 1, 1973.
2. "Larvae of the 'dark zone'", *Journal of Economic Entomology*, 1973.
3. "The New Mexico H. critical survey for 1975: an economic status report", *Entomological Society of America*, 1975.
4. "On the Laine's North High Plains: an Apparent 'Dead' Lake", *Science*, Vol. 512, No. 1, 1973.
5. "Larvae of the 'dark zone'", *Journal of Economic Entomology*, 1973.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

[illegible]

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)
I have given four speeches since 1976.

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 1976 TO DECEMBER 31, 1976

469

Name Franklin Lee Brown, Jr. Rank (or title) Associate Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

None

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

None

3. New scholastic honors, fellowships, etc.

None

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

a) Costs, Gains, and Risks, by F. L. Brown and A. B. Lockwood published by Johns Hopkins Press for Resources for the Future, Inc.b) "A New Way to Measure Price Levels", with Lou Redman, Staff member, Electrical World, Dec. 7, 1975. (Previously unreported)c) "Water Demands for Energy Development", with Allen Ince, Journal Resources for the Future

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

a) A Policy Study of the San Juan National Science Foundation, with Allen Ince, Report 8/76 through 1/77, 214 pp.b) Impact of Environmental Movement on the Non-Mining Mining Industry of the West, with Richard Mead & Allen Ince, 1/76 through 1/77, 224 pp.c) The Emerging Future Market for Coal in the U.S., 1/76 through 7/77, 292 pp.d) Energy in the West, with Public Law 94-420, 1/76 through 1/77.

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

a) Member of National Association of Economists, American Economic Association, Western Economic Association Conferenceb) Member of Economic Institute, University of New Mexico, 1976c) Impact of Energy Development on the Environment in the West, with Allen Ince, Report 8/76 through 1/77, 214 pp.

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultations, industrial designs, patents, etc.)

a) Consultant to National Energy Board, 1976b) Member of National Energy Board, 1976c) Member of National Energy Board, 1976d) Member of National Energy Board, 1976

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

5. continued
 - e) "Environmental Systems Study on the Development of Fossil Fuel Resources in the Southwest", 3/1/75 - 3/1/76, \$92,160
6. continued
 - c) "Energy and Fuels Production Projections for the Upper Colorado River Basin" with James Sawyer and David Abbey, paper presented at Conference on the Impact of Energy Development on Fish and Wildlife in the Upper Colorado River Basin, Albuquerque, NM, October, 1976.
7. continued
 - f) Symposium on the Delivery of Legal Services - participant
 - g) Symposium on Energy sponsored by Association of Technical Librarians - panelist.

3M-11/24/78

471

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 19____ TO DECEMBER 31, 19____

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

Sheet six was 1. for General Report on Israeli water policy for
the Water Commission of the

to support a claim that the defendant is a member of a source from state.

[illegible]

2. Jointly with

(Use additional sheet if more space is needed)

DEPARTMENT COPY

4. Con't.

Marymar Ediciones, Buenos Aires, 1976. Assorted articles were also published or approved for publication during the year.

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 19__ TO DECEMBER 31, 19__

Name Alfred L. Verner Rank (or title) Professor of Chemistry

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

(Use additional sheet if more space is needed)

DEPARTMENT COPY

5. continued
(in progress) Co editor with Allen V. Kneese and Walter O. Spofford, collection of papers concerned with the impact of energy development on Western waters, fish and wildlife. Manuscript to be considered by RfF for publication.
6. continued
"A First Look at the Recreational-Land the Impacts of Energy Development," Report presented at Southwest Region Under Stress Meeting, with James Gosz, October 21, 1976 meeting in Albuquerque.
7. continued
Consultant to Mountain Bell Telephone on "Long Run Incremental Cost Pricing".

The University of New Mexico

ANNUAL SUPPLEMENT TO BIOGRAPHICAL RECORD
FOR THE PERIOD JANUARY 1, 19⁷⁶ TO DECEMBER 31, 19⁷⁶

475

Name Ronald S. Cummings Rank (or title) Professor of Economics

1. Advanced study (include additional earned degrees or progress toward them, listing name and location of institution and date degree granted; professional certification, thesis titles, etc., not previously reported)

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

3. New scholastic honors, fellowships, etc.

4. Publications (give title, publisher or name of journal, page numbers, date, etc.)

Calendar year 1976 publications listed on 1976 annual supplement.

5. Other research projects or creative work in progress or completed during period (if outside-sponsored research is involved, give sponsor, amount of grant, title of project, and duration)

(a) Work which is currently under review for publication:

"Managing Water Resources for Pollution and Land Control in
Northwest Mexico" (John A. Smith and R. Leland), under review with
Resources for the Future to be published as a chapter in the fol-
lowing book: (continued on attached sheet).

6. Activities in learned and professional societies (meetings attended, offices held, professional papers read, etc.)

(1) Member, Editorial Board, Food Technology.

(See attached sheet.)

7. Other professional activities (exhibits, concerts, dramatic productions, off-campus talks, radio or TV appearances, consultancies, industrial designs, patents, etc.)

8. Non-teaching University service (administrative, committee work, faculty advisor, etc.)

Major Professor (Ph.D. candidate) for 1 year.

Major Professor (M.A. candidate) 2 students. Term of service in each of various
committees.

9. Public service (church activities, Community Chest, Boy Scouts, etc.)

10. Personal information (any change in marital status, number of children, citizenship, military status, etc.)

Annual Supplement to Biographical Record - (continued)

- 5(a) - Water Resources Management in Latin America (Co-editor with P. Crosson and K. Frederick) currently (as of 11/76) in RFF's review process for publication through Johns Hopkins Press.

"Optimal Investment Strategies for Boomtowns: A Theoretical Analysis" (with W. D. Schulze), under review with the Amer. Econ. Rev. (10/76).

"Impacts of Reduced Water Allocations to Irrigated Agriculture in the Southwest: A Case Study" (with M. Gisser), under review with Amer. J. Agri. Econ. (11/76).

5(b) - Research Reports:

- (b.1) "Reductions of Water Allocations to Irrigated Agriculture in New Mexico: Impacts and Technological Change" (with M. Gisser), report to the N.M. Energy Resources Board, December, 1976, 98 pp.
- (b.2) "A Time Series Profile of Urban Infrastructure Stocks in Selected Boomtowns in the Rocky Mountain States" (with A. Mehr), report to the Los Alamos Scientific Laboratory, December, 1976, 112 pp.; forthcoming as a LASL publication.
- (b.3) "The Economics of HDR Geothermal Production: A Methodological Overview" (with S. Jones and J. McFarland), report to LASL and the Electric Power Research Institute, December, 1976, 25 pp.
- (b.4) See 1975 supplement for other reports completed in 1976.

5(c) - Work in Progress:

"Investment Strategies for Social Infrastructure", expected completion date, summer 1977. Funded by a grant from the Los Alamos Scientific Laboratory. (\$37,000).

"Steady-state Groundwater Stocks and Irrigation Development in New Mexico"; expected completion date - spring, 1977.

"Economic Feasibility of an HDR Geothermal Facility"; expected completion date - summer, 1977. Funded by a grant from the Electric Power Research Institute (\$56,000) and the Los Alamos Scientific Laboratory (\$24,500).

"Optimal Production Rates from Gas Reservoirs -- An Empirical Framework"; expected completion date - summer, 1977. Funded by a grant from the Los Alamos Scientific Laboratory - (\$20,000).

477

6. - Continued

(2) "Water Scarcity in the Upper Colorado River Basin", paper read at U.S. - Mexico Transnational Resources Study Meetings, San Diego, Nov. 4-7, 1976.

(3) "An Evaluation of the Federal Energy Administration's "PIES" Model", presented at the NSF/RFF sponsored National Energy Outlook Conference, Reston, Va., Aug. 15-17, 1976.

JULY 1, 1976 - June 30, 1977

Joseph B. Zavadil, Chairman

I. General Information

- A. If indeed the Great Scorer will mark us not according to whether we won or lost but rather how we played the game, perhaps 1976-77 was a better year than it seemed to many of us along the way--particularly to the beleaguered faithful of the Policy and Personnel Committee. For the P & P Committee (Rudy Anaya, George Arma/Ernie Baughman, Jim Barbour/Morris Hayes, Linda Brodkey, Cheri Brown/Mike Hays, Paul Davis, Bob Fleming, and Ham Hill) the year was an endless contest with recruiting, and in May we could hardly claim victory. In September we started by announcing five open positions in the MLA Job Information List and the Affirmative Action Register. By mid-December we had screened over a thousand letters of application and scheduled interviews during the MLA meeting in New York with twenty-four of the strongest candidates. By mid-January, however, we lost one of the positions to a budget freeze that never thawed, and a second was filled by an internal transfer from administrative to regular faculty status. Our favorite senior candidate to replace Franklin Dickey played Hamlet until the second week in April and then took another offer. Two other candidates successively turned down offers for one of the junior positions. So when May arrived a weary P & P Committee rightly wondered how the score should be tallied. To be sure, we were happy to have Peter White appointed as Colonial Americanist to one of the junior positions, and even happier to have Edith Buchanan continue for another year in the senior Renaissance position. Yet we had lost three very attractive candidates, and we had lost two positions (the second an instructorship opened when Jim Shay resigned in February but eventually closed when the sure-throat 1977-78 budget became final in April). And all this happened in a year during which enrollment in our courses increased by 2.8% (while university-wide enrollment decreased). In fact, we had specifically lost over \$30,000 directly from the Freshman English program, where our major increase in enrollment occurred. [If you do not like the allusion to General Rice and his pious sportsmanship with which this paragraph began, might you prefer Leo Durocher ("Nice Guys finish last")? or perhaps Bill Veck ("I do not think winning is the most important thing. I think winning is the only thing")? Yes--this was also the year of English 300 The Literature of Baseball, J. Barbour, Prop.]

In the paragraphs that follow, departmental accomplishments in the several parts of our total program are summarized. So the tone of this report now will turn brighter and more positive. Freshman English under Lynn Bloom and Mike Hogan clearly had a good year. In fact, response from the full department to student need and demand for improved instruction in writing has been especially significant and promising. During 1977-78 all senior faculty will begin to teach Freshman classes regularly, as well

we continue to meet increasing enrollment in expository writing at the sophomore level. In addition, we will be implementing the following "English Writing Standards," which were adopted at a meeting of the department on May 6:

"The English Department expects that students will use correct grammar, spelling, and punctuation in writing unified and purposeful papers. Writing that deviates significantly from the following standards will not receive a grade higher than D.

GRAMMAR AND MECHANICS

1. The writer composes sentences that are grammatically complete and structurally sound, satisfying rather than frustrating the reader's desire to understand. Sentence patterns vary to express complexity of thought and to prevent monotony.
2. The writer uses words accurately, observing accepted principles of diction and usage.
3. The writer consistently spells properly, uses correct grammar, and follows the basic rules of punctuation. Misspellings, grammatical errors, and faulty punctuation become damning weaknesses when they divert the reader's attention from the ideas expressed.

CONTENT AND ORGANIZATION

1. The writer presents a worthwhile thesis.
2. The writer's arguments are mature and understandable, supported by reasonable evidence.
3. The writer organizes ideas logically and directs the argument to a satisfying conclusion."

We are circulating this statement to all departments in the college in the hope that we can assist in the struggle for better writing in classes other than our own.

I. Freshman English Program

Freshman English Directors: Lynn Bloom (Fall), Mike Hogan (Spring)

Freshman English Assistant Director: Zena Taichert

Freshman English Committee: Rose Amstutz, Krys Douglas, Charyl Fresch (Spring), Mike Hogan (Fall), Peter Page.

The Progress Report for Fall 1976 prepared and distributed by the Director of Freshman English, Professor Lynn Bloom, lists most of the activities in Freshman English during the past academic year. What follows, therefore, should be viewed as a supplement to that document.

Spring Semester 1977 saw the successful implementation of a number of projects that were planned in Fall 1976. These include such diverse matters as the videotaping of Freshman English classes, the introduction of a resource paper to English 101, greater coordination with Tutorial English (which will not concentrate on English 100), and the use of common readings and a final examination based on these in English 102.

New textbooks for the 100 and 101 courses were selected during the Spring, for adoption in Fall 1977, and new syllabi have been written for the courses affected. The adoption of a workbook in English 100, a replacement for a programmed text, insures that students will apply in their writing as well as attempt to memorize the grammatical principles and mechanical conventions the course teaches. The new reader for English 101, while yet concentrating on language, will offer a wider range of essays. Also, the Harbrace Handbook was selected for introduction to all Freshman English courses next year; this popular, traditional handbook should prove to be more accessible to all UNH departments, and thus more widely referred to throughout the University, than the previous handbook.

Several other decisions made in Spring 1977 promise significant changes in the Freshman English Program in the near future. The Freshman English Committee voted to strengthen the 101 final examination: effective Fall 1977, a panel will grade all exams on a pass/fail basis, and students must pass this final in order to receive a grade of "C" or higher for the course. Also, we look forward to having many full-time faculty teaching in the program as a result of the English Department's approval of a policy (the motion originated in the Freshman English Committee) that all full-time faculty teach a Freshman English course at least once every two years--effective in Spring 1978. (Presented by Mike Hogan)

2. Undergraduate Program

Coordinator (Spring): Morris Raves

Undergraduate Advisors: Bill Dowling, Mike Fischer, Dorothy Logan, Roy Pickett

Through the fall semester the Undergraduate Program was administered primarily through the Chairman's office and four special advisers: Bill Dowling (for students planning to attend graduate school in English), Dorothy Logan (for students working toward secondary school certification), Roy Pickett (for students planning to attend professional schools in Medicine or Law, for example), and Mike Fischer (for students seeking general liberal education). In the spring Morris Raves assumed responsibility for reviewing the undergraduate program and presenting subsequent recommendations for change to the full department. His recommendations were discussed by the department at two meetings in April and May, and motions were adopted to consider further specific changes in curriculum in the fall. Professor Raves also composed the new four-page printed brochure

an English Department offerings and programs which will be distributed state-wide to high school students interested in attending the university.

3. Creative Writing Program

Director: David Johnson

Creative Writing Committee: David Johnson, Mike Fischer, Leslie Silko, Tom Mayer, Al Reed.

Creative Writing prizes this year were awarded to three students. Lewallyn Finch Vinor won the Academy of American Poets Prize. Brooke Stewart won the Lenna M. Todd Memorial Prize for Poetry; Mark Chouinard and Lewallyn Vinor received Lenna M. Todd awards for fiction. Creative Writing faculty continue to be impressed by the work of their best students.

Faculty in the program will again be active in the Rio Grande Writers Association next year. At this organization's second annual meeting in Las Vegas, New Mexico, on April 22-23, Rudolfo Anaya, Gene Franklin, and David Johnson were elected to the Board of Directors, and Professor Anaya was re-elected President of the Board. During the past year the Association published an anthology of the work of its members: Voices From the Rio Grande; and its newsletter regularly offers a great deal of helpful information to writers and teachers throughout the region.

During the spring semester David Johnson gave much energy and time to the planning of a new enterprise for the program: the UNM Writers Workshop. Scheduled for June 13 - July 1 at the beginning of the summer term, the Workshop included intensive writing and instructional sessions, conferences, readings, and lectures. Student participants devoted the entire day, morning through evening, to the Workshop; and more than fifteen writers, publishers, editors, and teachers contributed to the total program. Creative Writing faculty hope that the Workshop will become an annual summer event.

4. Graduate Program

Graduate Director: David Jones

Graduate Committee: Edith Buchanan, Greg Candela, David McPherson, Mary Power

Most of the administrative activity in the Graduate Program implemented policies adopted during 1975-76, particularly those concerning the M.A. Exam and the Ph.D. Projects option. Efforts to recruit minority students for graduate study attracted more candidates than usual in the past. Actual increase in minority enrollment in the fall may be only modest, but we have reason to be encouraged.

Between July 1976 and May 1977, six students completed the M.A. and twelve the Ph.D. Of the twelve new Ph.D.s, five already held

regular faculty positions at other institutions, and only three made a full effort in the job market during the year. Two of these, George Soule and Lon Holmberg, have not been able to secure positions. Carole Yee, the third, has been appointed to a very good position at New Mexico Tech (Socorro). A fourth student, Ellen Dowling, who is presently ABD, also won a good position at Texas A & M. We can say, therefore, that two of the four people seriously campaigning for a job during the year were successful. We probably should see a message in the division by sex.

5. The department sponsored several excellent lectures during the year:
 - a. The most distinguished performance came from pre-eminent English poet/critic Charles Tomlinson. On November 5, 10, and 14 Tomlinson delivered the Witter Bynner Lectures on Poetry, which were made possible by a grant from the Witter Bynner Foundation of Santa Fe. The three lectures bore the titles "Celtic Affinities: Some Directions in British Poetry," "A Reply to Greek and Latin With the Bare Hands: William Carlos Williams," and "The Poet as Translator: Ezra Pound and Others" and together discussed the general topic "The Recoverable Past." Combined attendance for the lectures exceeded 350.
 - b. On October 21, William Holtz, Professor at the University of Missouri, lectured on "Samuel Johnson and The Abominable Fancy."
 - c. On March 10, Robert Potter, Professor at UC Santa Barbara, spoke about "Tiger's Hearts and Pearlless Minds: Shakespeare's Liberated Women."
 - d. On April 18, OM Brack, Professor at Arizona State University, gave us "Famous Last Words: The Art of Literary Dying in the Eighteenth Century." Professor Brack's lecture is the first in an anticipated series of annual exchanges between us and the ASU English Department. Sam Hill completed the deal this time by speaking at Tempe on April 29.
6. The Department also sponsored or co-sponsored the following literary events:
 - a. The UNM Chicano Poetry Series, "Sol y Sangre":
 1. September 15-17--Jose Armas, Angela de Hoyos, Javier Pacheco
 2. October 20-22--Neptali de Leon, Josi Mora, Jose Montoya
 3. November 17-19--Orlando Romero, Ron Arina, Rudy Anaya
 - b. A poetry workshop (December 1-2) by Saeva Orlen, poet from the University of Arizona.
 - c. A reading on April 28 by winners and runners-up in student writing contests.

7. In May Edith Bachman and George Arms were named Outstanding Teachers of the Year at the University--for undergraduate and graduate teaching respectively. (Each received a \$500 award from the Greater HMM Fund.) He is the department head for both Edith and George have earned this recognition. We congratulate them--and the committee wise enough to select them for the records.
8. The W. H. Lawrence Fellow for Summer 1977 is Alan Kaprielian, a New York writer who has published two novels (Incapable Things and All this Night Herein) and a number of short stories. While in residence at the Lawrence Ranch, Mr. Kaprielian will be conducting sessions on a third novel (The Deadly North, East, South, and Central Y.M.) and devoting most of his energy to a fourth (Rising Snow and Falling Angels).
9. The major enrollment pattern for 1976-77 is obvious. The number of 100-level classes dropped increased from 220 to 216. Correspondingly enrollment at the 100-level level increased by 11.2%. The number of 200-level, upper-level and graduate classes declined from 119 to 104, and enrollment at these levels declined by 37%. Enrollment declined 52 of our total teaching staff to the Freedom program from the rest of our curriculum.
10. Major plans for 1978-79: Japan. We want to make a strong center appointment. And we want our two first positions back.
11. New 100-level faculty for 1977-78 are Peter White, who has two very well courses in Colonial American Literature and Institutions of Pennsylvania State U.P. (1976), and Anita Hester, who is completing her first book program this summer with a line dissertation on Thomas Jefferson and on Japan and second dissertation on American literature and culture of the American South and West. Both are members of the Department of the Arts and Sciences and are both in the College of Arts.
12. Later they are going to recruit a position at the University of the South.

Very truly yours,
 [Signature]

Very truly yours,
 [Signature]
 [Name]
 [Title]
 [Address]
 [City]
 [State]
 [Zip]

PART II

ANNUAL REPORT - 1976/77

1. ADVANCED STUDY

Paul Davis

-Course in producing instructional materials.

Peter C. Page

-Graduate Certificate in Applied Linguistics awarded 8/31/76 from Indiana University, Bloomington, Indiana.

Roy G. Pickett

-Took a course in Spanish at UNM during the summer session of 1976.

James L. Thorson

-Accorded M.A. Status, Oxford University, September 30, 1976.

2. SABBATICALS ETC.

Rudy F. Anaya

-Travel abroad, Mexico, research.

Ernest W. Baughman

-Sabbatical leave, Semester I, 1976-77. Travel including Copenhagen, Helsinki, Stockholm, and Leningrad. Visits to folklore Archives, the Danske Folkeminderanling, Copenhagen, and the oldest archive in Europe in Helsinki. Five weeks spent in the Library of the Essex Institute in Salem Mass. A side trip to Bowdoin College for a meeting of the Hawthorne Society.

Lyra Z. Bloom

-Summer travel to Scandinavia--Iceland, Finland, Norway, Denmark, Sweden;
-Summer teaching at Webster College (St. Louis) M.A. in Women's Studies--
"Modern Feminist and Sexist Fiction."

Horrie Hayes

-Sabbatical, Semester I, 1976-77: research at British Museum, Victoria and Albert Museum, Folio House (Glasgow), Fitzwilliam Museum (Cambridge), Geoffrey Keynes Collection (Brinkley, Newmarket).

Gene Franklin

-Sabbatical leave, Fall 1976/77. Traveled north through some of the Mountain states and into Canada as far as Edmonton, then back home via the West Coast. Visited the Europa Institute in Boulder, the Univ. of Colorado, Univ. of Alberta, Univ. of British Columbia, and Humboldt State University.

Patrick J. Gallagher

-Research at the University of Michigan, Ann Arbor, summer 1976.

Jane Kopp

-Monterey, California, March 7-9, Western Association of Graduate Schools

2. Continued

485

David G. McPherson

-Travel in Mexico, summer, 1976.

Stanley T. Noyes

-Travel and hiking in Spain, summer 1976.

Ellen Spolsky

-Sabbatical leave begun in September 1975 and continued through August 1976.

James L. Thorson

-Sabbatical Leave, Semester I, 1976-77. Travel to Oxford and London, England, and to Sarajevo, Zagreb, Ljubljana, Belgrade, and Skopje, Yugoslavia for research, theater, art exhibits, etc.

Mary Nees Whidden

-Sabbatical Leave, fall semester, 1976/77. Research at University of Virginia, Univ. of So. Florida, summer and fall.

Hugh Witemeyer

-Leave of Absence Without Pay: Fall semester 1976/77.

3. NEW SCHOLASTIC HONORS ETC.

Lynn Z. Bloom

-Greater URM Fund grant for videotape research (awarded Nov. 1975 for research to begin in 1977).

Patrick J. Gallacher

-Member of the Executive Council, Medieval Association of the Pacific

Hamlin Hill

-TAM Research Allocations Committee grant-in-aid; appointment as a Director, National Endowment for the Humanities Summer Seminar for College Teachers, Summer 1977.

Jane Kopp

-Two first prizes in annual poetry competitions offered by Poetry Society of Texas.

Patricia C. Smith

-"Professor of the Month," November 1976, Las Campanas.

James L. Thorson

-Elected Senior Visiting Research Fellow, Jesus College, Oxford, for the academic year 1976-77.

-Research Allocations grant for travel.

-Named Rocky Mountain Correspondent-Editor for Restoration, a new newsletter.

Mary M. Weigle

-Cultural Properties Review Committee, State of New Mexico, Award of Honor, presented April 24, 1976.

-Honorable Mention, Chicago Folklore Prize for 1976.

Ernest W. Baughman

-Named to New Mexico Folklore Society Roll of Honor and included on the Register in Zimmerman Library.

Hugh Witemeyer
-National Endowment for the Humanities Fellowship 1976-77.

4. PUBLICATIONS

Rudy A. Anaya
-A Novel, Heart of Aztlan, (Editorial Justa Publications, Berkeley, Ca.).
-"The Place of the Swallows", a short story, Voices From the Rio Grande Anthology.

George Arnes
-Review of Kenneth J. Glymer's John Hay and Thurman's John Hay as a Man of Letters, American Literature, 1976, Volume 48, pp. 238-39.
-Foreword, G. C. and I. Carrington, Plots and Characters in the Fiction of W. D. Howells, pp. vii-viii. Hamden, Conn., Archon Books, 1976.
-Commentary (on Edel's Henry James Letters), Nineteenth-Century Fiction, 1976, Volume 31, pp. 244-247. Co-author: C. E. Lohmann.
-Continuing work on the Howells letters. A third volume has now been "sealed," i.e. approved for publication, but actual publication not yet scheduled.

James F. Barbour
-"Carlyle and the Conclusion of Moby-Dick." New England Quarterly, 49 (June 1976) pp. 214-24.
-"A Possible Source and Model for 'The Story of China Aster' in Melville's The Confidence-Man." American Literature, 48 (January 1977), pp. 577-83.

Lynn Z. Bloom
-Book: The New Assertive Woman, with E. Coburn, J. Pearlman, Dell paperback.
-Papers "A Checklist to Improve Writing Papers," in Writing Exercises From Exercise Exchange, ed. Littleton Long. Urbana: NCLE, 1976, pp. 13-15.
-"Be It Ever So Humble, They Can Go Home Again," rpt. in Writing Exercises from Exercise Exchange, ed. Littleton Long. Urbana: NCLE, 1976, pp. 89-92.
-"Goraga Is 'Greece Under Pressure': A Woman's Diary of Captivity." New America: A Review, 2 (Fall 1973-Spring 1976), 60-68.
-"H. Zeus, Modern, and Messages: Linguistic Innovations in Advanced Composition." Journal of English Teaching Techniques. IX:1-2 (Spring-Summer, 1976), 23-29.
-"What's Really Basic About Teaching TAs." ERIC. August, 1976.
-"The Diary as Popular History," Journal of Popular Culture. IX:4 (Spring, 1976), pp. 799-807.
-Entry, "Vanishing Species," College Composition and Communication, May, 1976, p. 154.
-Entry, "Woman Birth," Woman Energy, 1:1 (1976), 39.
-Review of Robert Eastings, No More Thore: A History of the Illinois Baptist State Association, in the Old Northwest: A Journal of Life and Letters, Dec. 1976.
-Articles: In the St. Louis Post-Dispatch: Katharine Tall, My Father Bertrand Russell, Feb. 15, 1976; Ronald Clark, The Life of Bertrand Russell, Feb. 15, 1976; Eleanor Meserog, Whither Thou Goest, April 4, 1976; Benjamin Spock, Fire and Child Care, 4th edition, May 23, 1976; John Maynard-Graham, Dark River in the River, Aug. 8, 1976; Rita Knorr, Maria Montessori, Aug. 22, 1976; Judith Denson-Gorfor, Walk in My Shoes: An Odyssey of Womanlife, Sept. 14, 1976; Andrew Tobias, Fire and Ice: The Story of Charles Revson, Oct. 3, 1976; Peggy Larson, Roger Baldwin, Founder of the American Civil Liberties Union, October: 24, 1976.

4. Continued.

Lynn Z. Bloom Continued

- Reviews in the St. Louis Post-Dispatch continued.
- Linda Gordon, Woman's Body, Woman's Right: A Social History of Birth Control in America, Nov. 7, 1976; Nicholas Demerath, Birth Control and Foreign Policy, Nov. 7, 1976; Magda Denes, In Necessity and Sorrow, Nov. 7, 1986.

William C. Dowling

- The Boswellian Hero (Georgia University Press, forthcoming)
- "Back in the Saddle Again," New York Times Op-Ed page, 7, Nov. 1976.
- "Solipsism and Despair in Boswell's Life of Johnson" (in New Essays on Biography, Cornell University Press, forthcoming)

Morris Baves

- "Blake and the Artistic Machine: An Essay in Decorum and Technology," PMLA, scheduled for October 1977 issue. 35 pp. plus 9 photos with descriptive captions.
- Review of Howard, John, Blake's "Milton," scheduled for Blake issue of Studies in Romanticism, 1977.
- Comprehensive index to Foster Damon's Blake Dictionary, scheduled for publication as a separate volume by Brown Univ. Press, 1977. 200 pp. approx.

Michael Fischer

- Review of Weickel, Thomas, The Romantic Sublime: Studies in the Structure and Psychology of Transcendence, in Blake Newsletter, 1976-77, Vol. 10, pp. 93-95.
- "The Imagination as a Sanction of Value: Northrop Frye and the Uses of Literature"; The Centennial Review (accepted for publication).

Robert E. Fleming

- "John Doane's Contributions to The New Mexico Sentinel," CIA Journal, 19 (June 1975), 524-532. (With Tim Quirk).
- Review of God Is Red by Vine Deloria, Jr., Rocky Mountain Review of Language and Literature, 30 (Spring 1976), 123-25.

Gene Franklin

- Poems: "There Can Come to You," Punch, No. 42-43, p. 3; "Americana West," New Mexico Magazine, Vol. 54, No. 1, p. 9; "Today's Lesson," The Paris Review, Vol. 16, No. 51, p. 80; "At the Kansas City International Airport," "As Hares Millie as Young Cherry Trees," Boundary 2, Vol. IV, No. 1, pp. 277-278; "Sunset," "Going Ape," Albino Quarterly, Winter 1976, pp. unnumbered; "The Rapids," "Post-Humanist," "Blue," "Communication," The Cat and the Masp, No. 1, pp. 73-75; "Hands," Three Rivers Poetry Journal, No. 7/8, pp. 25-26; "Eden Falls, a Folio-Fuckie," Albino Quarterly, Spring 1976, pp. unnumbered; "A Lone Cowboy," New Mexico Magazine, Vol. 54, No. 7, p. 36; "White Panther," New Mexico Magazine, Vol. 54, No. 9, p. 29.
- Autobiography: "Long & Shadowy Habits" (Poem), Poets West, pp. 38-39.
- Article: Afterword for Taking Possession, poems by Bert Almon, Solo Press.
- Reviews: Under Sealed Orders, poems by Robert Peterson, in The San Marcos Review, pp. 107-108.
- Editorial: "Innocence and Clarity," The San Marcos Review, pp. 103-104.

Patrick J. Gollacher

- "Fred, Lamentation, and Catharsis in Chaucer's Nun's Priest's Tale," Speculum, January, 1976 pp. 69-68.

4. Continued

Nanlin Hill

- "The Biographical Equation: Mark Twain," American Humor 3:1-5 (Spring 1976);
- "The Durability of Old Southwestern Humor," Mississippi Quarterly 29:119-23 (Winter 75-76);
- "Mark Twain" in American Literary Scholarship, 1974, pp. 75-85 (Durham: Duke University Press, 1976);
- "Black Humor and the Mass Audience" in American Humor: Essays Presented to John G. Gerber, ed. O M Brack, Jr. Scottsdale, Ariz., 1976;
- Review of Morton Gurewitsch, Comedy, The Irrational Vision in American Humor, 3:19-21 (Spring 1976);
- Review of George Carrington, The Dramatic Structure of Huckleberry Finn in American Literary Realism 9:361-83 (Autumn 1976).

Leon Howard

- "Melville and the American Tragic Hero," in Four Makers of the American Mind. Durham, N.C., Duke University Press, 1976, pp. 65-82;
- "Carlyle and the Conclusion of Moby-Dick," New England Quarterly, XLIX, 214-24 (June, 1976). James Barbour co-author.

David M. Johnson

- Poems: "A Calling" Thunderbird (Spring 1976); "Mexican Pharmacy" & "News from Olympia" Albireo Quarterly (Spring 1976); "Mexico Dreams" Wind (Vol. 6, no. 28, 1976); "Excession," "Albuquerque's Mt. Calvary Cemetery," "Keeping in Touch," "Spring Rites," Shepherd's Pie (Bard Press), 1,3. "Cycles" Scratch Territory #13 (Fall 1976); "Jemez Mountains" New Mexico Magazine (accepted).
- Poems: Anthologies: "One Afternoon in Tlaquepaque," "Collecting: A Modern Paradigm," Voices From the Rio Grande (1977); "Albuquerque's Mt. Calvary Cemetery," Southwest: A Contemporary Anthology (to be published); "Rain in Albuquerque," "Ranter," "The Skunk in Winter" & others, The Indian Rio Grande: Recent Poems from Three Cultures (Summer 1977)
- Article: "Fast and Feast: Sources of Festival," Parabola: Myth and the Quest for Meaning (accepted for Spring 1977)
- Reviews: Ronald L. Grimes' Symbol and Conquest: Public Ritual and Drama in Santa Fe, New Mexico (Cornell University Press, 1976), to be published in Parabola (Spring 1977)
- Anthology: "Landoller National Monument" Sandscript: An Anthology of New Mexico Poetry MFS, 1976.
- Book-Poetry: Pilgrim Country. San Marcos Press, 1976.
- Editing: Co-editor, The San Marcos Review; Co-editor, Voices from the Rio Grande; Editor, Shadows of the Mind: Poems from Harvey Junior High School (a small chapbook).

Jane Kay

- Poetry: "Dist. Bond," The Smith, Volume 3, No. 18, pp. 194-195; "Farm Wife," Smith, Volume 7, No. 51-53, p. 41; "Androgynous," Margaret Maypole Orangoutang Repress, no. 17, p. 3; "Holding Married" and "Farm Wife," in Travels: An Anthology of Texas Poetry, Contemporary Arts Museum of Houston, 1976, p. 97; "Fernero" and "Historia" in Revista Mexicana de Cultura (Suplemento Seminal de El Nacional, VI Época, No. 416 (December 1976), p. 8.

C. Continued

David G. McPherson

- "The Origins of Overdo: A Study in Jonsonian Invention," Modern Language Quarterly 37 (1976), 221-233.
- Ben Jonson Meets Daniel Heinsius, 1613," accepted for publication by English Language Notes, galley proofs read and returned.

Ivan Melada

- Review of two biographies of D. H. Lawrence accepted by Rio Grande Review of Books, awaiting publication.
- Review of D. Aaron, The Unwritten War: American Writers and the Civil War written for Rio Grande Review. To be submitted when backlog is cleared.

Stanley T. Noyes

- Book: Faces and Spirits: Poems by Stanley Noyes. Santa Fe, The Sunstone Press, 1974;
- Anthologies: The Turquoise Land, N. M. State Poetry Society, 1974; Desert Review Anthology, Desert Review Press, 1974; Poets West, ed. by Lawrence P. Springarn and Harold Morse, Perivale Press, 1975; Poems accepted for four more anthologies.
- The Last True Cowboy (novel) completed, 1975. Three chapters included in Puerto del Sol, summer, 1976; Three or four additional chapters to appear in Puerto del Sol, spring 1977 issue.

David A. Benley

- Crooked Road: The Story of The Alaska Highway (New York: McGraw-Hill, 1976).

Harvena Richter

- A new poem plus three other reprinted poems in a feature article on H. R. in the July 2nd, 1976, issue of the New Mexico Independent;
- Three-poem sequence in Autumn 1976 issue of South Dakota Review;
- Poems on the Home Forum page of the C.S. Monitor; May 6th, Nov. 17th, and Dec. 30th, 1976.

Leslie Silbo

- Novel: Ceremony, published by Viking Press, March 1977
- "An Old-Time Indian Attack Conducted in Two Parts", Yardbird Reader, pp. 77-84, Poets 85, 1976.
- "Dear Country" a poem in Harold Ho, p. 1, Santa Glasha College Press.
- "Colum, New Mexico, Indian Capital of the World" from novel Ceremony in New American. Univ. of New Mexico,

Paulette G. Smith

- "Horden Indians Unchaining," article, La Confluencia Vol. I, no. 1, spring 1976.
- "Horden", poem, La Confluencia, 1, 1, Spring 1976.
- Talking to the Land, book of poetry, accepted for publication, Blue Moon Press, scheduled to appear Spring 1977.
- Several poems to appear in anthologies.

4. Continued

Ellen Spolsky

- Donald R. Howard, The Idea of the Canterbury Tales, review, forthcoming in English Studies.

James L. Thorson

- Article: "American Satiric Fiction Since World War II," currently being translated in Serbian for publication in Belgrade.

Fred Warner

- "The Hanging Judge Once More Before the Bar," The Papers of the American Bibliographical Society. Vol. 70, pp. 89-96.

Mary M. Weigle

- Brothers of Light, Brothers of Blood: The Penitentes of the Southwest, Albuquerque, UHM Press, 1976.
- A Penitente Bibliography, Albuquerque, UHM Press, 1976.
- The Annual Lightning Tree Southwestern Reader, Santa Fe, The Lightning Tree, 1976.

Hugh Witemayer

- English and Italian Portraiture in Daniel Defoe's "Nineteenth-Century Fiction", 30 (1976), pp. 477-94.
- Review of Metaphor and The Poetry of Williams Pound, and Stevens, IV in Paiduma, 5 (1976), 191-3.

5. OTHER RESEARCH PROJECTS OR CREATIVE WORK IN PROGRESS ETC.

Rudy A. Anaya

- Voices From the Rio Grande, an anthology of the 1st Rio Grande Writers Conference--Advisory Editor. (BGM Press, Albug. NM)
- TV Scripts, Bilingual Educational Services, Los Angeles, CA

George Arns

- Continuing work on the Howells letters.

James W. Barbour

- "A Checklist of Criticism on Early Afro-American Novelists." Studies in Black Literature (accepted for publication in 1977).
- "The Manual: Epitaph for Eddie Whitkus" (submitted)
- "The Light of the World: Hemingway's Comedy of Errors" (submitted)
- "The Significance of Textual Changes in Hemingway's 'A Very Short Story'" (submitted)

Ernest W. Bargman

- Article completed: "Excommunications and Banishments from the First Church in Salem and the Town of Salem."
- Article begun: A comparison of church and court records of members and non members of Salem Parish, 1629-1649.

5. Continued

Lynn Z. Bloom

- Completed research on Freshman English curriculum, UNM, sponsored by Greater UNM Fund (1975) and Dept of Arts & Sciences (1976)--research reports available for May, 1976; Sept. 1976, and forthcoming research to determine whether the GST is equivalent to the English 101 final exam--no funds necessary;
- Services supplied by myself and Red Young Strategies for Composition, a major composition book to be published by Random House in 1979.

William C. Dowling

- Completed 250-page first draft of The Logic of Literary Interpretation. The book on which I am currently working.

Norris Eaves

- In progress a book on Blake's ideas about art, in relation to technology; a book on Blake's Marriage of Heaven and Hell (about 100 pp of typescript completed).

Michael Fischer

- "Romanticism and Romanticism: The Romantic Defense of Poetry as a Critique of Capitalism";
- The Adversary Defense of Poetry: A Look Back at the 1960's, submitted for publication.
- "Romanticism in Our Time: Harold Bloom and Literary History";
- "What Was Romanticism? The Example of Matthew Arnold".

Robert E. Fleming

- Reviews pending on Phyllis Southwestern American Literature.
- Article pending in Arizona Quarterly.
- Willard Motley pending with Twayne.
- James Walter Johnson and Anna Bentons: A Reference Guide is nearly complete; contract from G. K. Hall calls for delivery of ms. by Feb. 1, 1977.

Cheryl Hope French

- Revision of article for re-submission to Milton Quarterly: "Milton's Eve and the Problem of the Additions to the Command"

Cara Franklin

- The Mystic Writing-Pad, a book of poems, is in process of being printed by The Red Hill Press.
- Completed a manuscript of poems, Identities.
- Continued work on the novel I've been working on for some three years (now on typescript page 284).
- An article, "The Reason for Surrealism," was accepted by Chelaea magazine and is due for publication soon (about 25 pp., incl. footnotes).

Patrick J. Gallagher

- Proof-read an article to be published in the Proceedings of the Second International Conference on Neo-Latin Studies; title: "Shame and the Dramatic Epiphany in Natalis Comes and Coluccio Salutati."
- Finishing an article on irony in Chaucer's Merchant's Tale.

5. Continued

Hamlin Hill

- To Get to the Other Side, Changing Laughter in America (with Walter Blair), a 200,000-word critical history of American humor under contract to Oxford University Press--in press.
- Mark Twain, The Critical Reputation, under contract, completion date, September 1977.
- The Collected Correspondence of Mark Twain, Volume II, under contract to University of California Press, completion date, September 1977.
- "Mark Twain" in American Literary Scholarship, 1975 (Durham, Duke Univ. Press), in press.

Laen Howard

- Mysteries and Manuscripts (about 100 pp., probably for private circulation only).

David M. Johnson

- Contributing editor to Live Bored Dance, an anthology of poetry from the Santa Fe Public Schools, 1975-76.

David E. Jones

- Director, Hamlet, by William Shakespeare--UNM Experimental Theatre January 1976--Univ. of Albuquerque, Stage One, Feb. 1976.
- Director, Hedda Gabler, by Henrik Ibsen--UNM Experimental Theatre, March 1976.
- Director, Waiting for Godot, by Samuel Beckett--The Vortex (theatre) November 1976.
- Articles completed on Hedda Gabler, Mother Courage, and Albee's All Over.

Jane Kepp

- Completed editing of manuscript of an anthology of contemporary Southwest writing, to be published in 1977.
- Signature section of poems, forthcoming in Latitudes.

Dorothy M. Logan

- Writing Essays About Literature: A Literary Rhetoric, New York, Holt, Rinehart and Winston, Inc. Second Edition to be published in early 1979.
- Co-author: Summa Cockatoos.
- A book, The Process of Writing in progress.

David C. McPherson

- In progress: book on Ben Jonson's comedies.

Ivor Mendo

- Continued research for last year's new course, American Classics and Best Sellers.
- Extensive research for last year's new course Frontier in American Literature.
- Continued research for a revised course, Survey of Victorian Literature.
- Manuscript on War, Industrialism, and English Literature still in search of a publisher.

Stanley M. Hayes

- New collection of poetry, True West Poems, in progress.
- Editing (with Gene Brunkin) The Indian Rio Grande: Contemporary Poems from Three Cultures, to be published by San Marcos Press, Carrizillo, probably in 1977.

5. Continued

Peter C. Page

- Article, "Poe's Satire of Intuition in Hywela" completed and being considered for publication in Poe Studies (Scholarly Journal).

Ray G. Pickart

- Research in stylistics and literary criticism.
- Continuing study of Spanish

Harvonn Richter

- Work on Virginia Woolf's diaries in the Berg collection, New York public library, October, 1976—for an article on V.W. currently in work.
- Outline and introduction (139 pages) on Conrad Richter on Writing (book to be drawn from my father's writing notebooks, letters, journals).
- Continuing work on poetry.

Ellen Spolsky

- Paper completed, "The Speech Acts of the Wife of Bath: In His Wikingyng Ful Contrarious" co-authored with Ellen Kaufman, Linguistics Dept.
- Research in the Library of Congress for a book on Chaucer, in progress, supported by UMN Research Allocations Comm.

James L. Thorsen

- Research into the literature of the Popish Plot continuing.
- Research into Yugoslav-American literary relations continuing.

Marcia Tillotson

- Received grant from UMN RAC to do research on Byron Apocrypha at Houghton Library (Harvard), Beinecke Library (Yale), Library of Congress, etc., Dec. 1976-Jan. 1977.

Rud Maxner

- Continued research about textual authenticity of the works of Robert Louis Stevenson.

Mary M. Waigle

- "Ghently Ringolanta and Dons Sebast'ana: Two Legends of the Penitente Brotherhood," Accepted for Publication in Western Folklore.
- Review of Claire F. Barker, Ed., "Women and Folklore" for Signs: Journal of Women in Culture and Society.
- Review of Paul Horgan, Lamy of Santa Fe, for Rio Grande History.

Mary Bess Whidden

- "First-Person Narration in the Elizabethan Minor Epic" in circulation
- Elizabethan Concept Secrecy in progress
- "William Percy" in progress.
- "Was the Girl in Circum?" in circulation.

Joseph B. Zavadil

- Research on Medieval Hagiography and Middle English Narrative.

4. ACTIVITIES IN INARNED AND PROFESSIONAL SOCIETIES ETC.

Rudy A. Anaya

- CCIM Coordinating Council of Literary Magazines, Member of Board, meetings attended 1976: Boulder, Co.; April; Denver, Col., August; Houston, TX.,
- President, Rio Grande Writers Association;
- MLA Institute on Minority Literature, Chapel Hill, N.C., Summer 1976;
- RMLA, Paper read, Catcher, Santa Fe.
- Humanities on the Border Conference, UTRP, El Paso, May.

Georgez Arns

- Attended Rocky Mountain Modern Language Association, Santa Fe, Oct. 22-23.
- Attended Modern Language Association, New York City, Dec. 26-29.

James F. Barbaur

- RMLA in October 1976
- MLA member

Ernest W. Baughman

- Program Committee, New Mexico Folklore Society: attended meeting May, 1976 Albuquerque; Editor of Publications (no publications issued in 1976 because of lack of funds).
- Meeting of Hawthorne Society, Boudoin College, September, 1976

Lynn E. Bloom

- Editorial board, Journal of English Teaching Techniques.
- Consultant reader, RMLA; Journal of Popular Culture.
- Chairperson, Popular Culture Section, Midwest Modern Language Assn.
- Secretary, Creative Writing Section, Midwest Modern Language Association, St. Louis, Nov. 1976.
- Section Chairperson, "Forms of Narrative," Modern Language Association, New York, December, 1976.

Paul Davis

- Paper-RMLA Conference on the Passive Uses of Solar Energy, May 1976
- Address--"A Humanistic Perspective on Solar Energy" Southeast Junior Science and Humanities Symposium, March 28-30, 1976.

William J. Dawling

- Attended MLA, Dec. 27-29, NYC.

Harold Eves

- "Blacks and the Artistic Machine," a paper presented by invitation at the conference on Blacks and the Art of His Time, Univ. of California, Santa Barbara, March 1976.

Robert F. Fleming

- Chaired Ethnic Studies Symposium at 1976 meeting of RMLA in October.

Gene Franklin

- Attended founding meeting of the Rio Grande Writers Association in the Spring.

Patrick J. Gallagher

- Chairman of section on Ovid in the Middle Ages, annual meeting of the Medieval Association of the Pacific, Univ. of California at Davis, February 1976.
- Attended annual meeting of the Modern Language Association, New York, December, 1976.

Michael J. Hogan

- "Foreign Landscapes: On Teaching Creative Writing," a paper presented at the Midwest Modern Language Association meeting, Creative Writing session, November, 1976.

Leon Howard

- Attended meeting, Modern Language Association of America, San Francisco, December, 1975.
- Attended meeting, Rocky Mountain Modern Language Association, Santa Fe, October, 1976

Jane Kopp

- "Creativity in Graduate Education" (with Anne P. Taylor), a paper read at Council of Graduate Schools annual meeting, Denver, Colorado, Dec., 1976.
- "An Interdisciplinary Approach to Bilingual Education," address delivered to the Symposium for the Development of Institution of Higher Education Bilingual Bicultural Teacher Preparation programs, Albuquerque, June 1976.

David G. McPherson

- Modern Language Association, member.

Ivan Melada

- Member, Modern Language Association.
- Member, Rocky Mountain Modern Language Association.
- Active Member, Friends of the Huntington Library.

Stanley T. Noyes

- Elected to Board of Directors, Rio Grande Writers' Association, Spring 1976-Spring 1977.
- Two day meeting attended at D. H. Lawrence Ranch, October, 1976.

Peter G. Page

- Attended Rocky Mountain Modern Language Association annual meeting, Santa Fe.
- Attended National Convention Modern Language Association, New York City.
- Attended Poe Studies Association Meeting, New York.

Harvey Richter

- Rio Grande Writer's Conference--participation in symposium and a poetry reading, April 1976.

James Shay

- Paper: "All of the Speculative Grammarians are Madists, but not all of the Madists are Speculative Grammarians," joint meeting of Int'l Conference on Medieval Grammar and Medieval Acad. of the Pacific, Davis, CA., Feb. 1976.
- Attended Rocky Mountain MLA, October 1976, in Santa Fe.

6. Continued

Laelie Silko

- Paper presented to the MLA meeting in New York (Native American Lit. panel)
- Member of the Board of Directors of the Coordinating Council of Literary Magazines.

Patricia G. Smith

- Member of Board of Advisors, La Confluencia, a journal of bilingual and bicultural education.

Ellen Spolsky

- "The Late Gothic Form of the Canterbury Tales" co-author, Ellen Ehrlich, read at the meeting of the Medieval Association of the Pacific, Feb. 1976.
- "Medieval and Modern Romances: Sir Lancelot's Lady and Lolita," read at MLA meetings, Dec. 1976.
- Attended Medieval Academy of America Meeting, March, 1976.

James E. Thorson

- Vice President, New Mexico State Conference of AWP, Semester II, 1975-76

Marcia Tillotson

- Presentation of paper at 1976 meeting of the Modern Language Association of America, New York City, Dec. 27-29, 1976: "The Teaching of Grammar and English as a Second Language" (Fred Warner co-author).

Fred Warner

- Chairman of seminar on "Literature and the Teaching of Composition" annual meeting of Modern Language Association of America. New York Dec. 26-29, 1976.
- Presentation of paper at this meeting (Composition Section) "The Teaching of Grammar and English as a Second Language" (Marcia Tillotson co-author).

Mary M. Waigle

- "Evillore of the Penitentes," a paper presented at New Mexico Folklore Society, Albuquerque, 8 May 1976.
- "Folklore Collection in Hispanic New Mexico during the 1930s," a paper presented at the Annual Meeting of the American Folklore Society, Nov. 1976.

Hugh W. Womayer

- Attended Modern Language Association Meeting, New York, December, 1976.

7. OTHER PROFESSIONAL ACTIVITIES ETC.

Rudy A. Anaya

- El Grito Negro, a Chicano Poetry Series, Fall '76, UNM - Sponsor and Director
- The Grande Writers Conference, Organizer, presenter at panel on SW Lit.
- 200 Years of Solitude, panel on Chicano Lit., organized, taped for Radio, (Albuquerque)
- City Series, Albuquerque - Board Member
- El Paso Community College, Readings from my work, October

7. Continued

Georgia Arnes

- Executive Committee of Indiana Univ. Press edition of W. D. Howells.
- Executive co-editor of The Explicator.
- Director and vice-president of The Explicator Literary Foundation.
- Advisory board, Abstracts of English Studies.
- Advisory board, RSC: A Journal of the American Renaissance.
- Editorial board, Ariel (Canada).

Lynn Z. Bloom

- Addressed on Assertive Training to: UMI Lecture Under the Stars, Albuquerque Junior League, National Secretaries Association (St. Illinois branch), St. Louis Catholic Charities.
- Book reviewer, St. Louis Post-Dispatch

Paul Davis

- Consultant: Holt, Rinehart, Winston.

Morris Evans

- Co-Editor, Blake Newsletter, An Illustrated Quarterly

Gena Franklin

- Served as general coordinator of the Rio Grande Writers Conference held at the Univ. of New Mexico last April. In this connection appeared on KRMZ-TV. During this conference, participated in a symposium on "Creative Writing in the Schools" and also read from my own poetry.
- Was guest reader at New Mexico State Univ. in March.
- Co-founded The San Marcos Review, a literary periodical whose first issue appeared in Winter 1976.

Patrick J. Gallagher

- At the request of Dean Virgil W. Tapscott, of Rice University, I participated in the decision on rank and tenure of Professor Jane Chance Hitzsche, Dept. of English, Rice University.

Marilyn Hill

- Editorial consultant: Media Division, National Endowment for the Humanities
- Fremont Films, Los Angeles
- University of California Press, American Literary Realism, FMA.
- Less than, of varying sobriety, to Albuquerque Civitan Club, Rocky Mountain Professional Marketing Association, University of Chicago Festival of "Comedy in Chicago."

Laur Howard

- Completed term of service (25 years), Advisory Board, Nineteenth-Century Fiction, June, 1976.
- Member, Advisory Board, Northeastern-Norwexy Edition, The Writings of Herman Melville.

7. Continued

David M. Johnson

- Poetry Readings: New Mexico Annuary, Santa Fe (Feb. 22, 1976); Bicentennial readings on KMLR Radio: June 28, 29, 30, July 1, 2.
- Pamphlets: "Workers Speak Out" (Jan. 22-76); "Future of Work & Education in NM" (3/24/76); "The American Family" (9/12/76); New Mexico Humanities Council.
- Talks: "Sex Stereotypes in Contemporary Society" Delta Delta Delta (9/13/76).
- Teachers Workshop: "Poetry Writing for Kids" Cochiti Elementary School, Feb. 16, 18, 1977.
- Panel: "Contemporary Family," Los Alamos, Feb. 23, 1977; sponsored by the New Mexico Humanities Council.
- Post-in-Residence, Harvey Jr. High, Spring 1977; Poetry-in-the-Schools, National Endowment for the Arts.
- Project Director: Grant funding the "Rio Grande Writers Newsletter," New Mexico Arts Commission, 1976-77.
- Secretary, Rio Grande Writers Association.
- Interviewer: Rockefeller Brothers Theological Fellowships, Spring 1977.
- Special Courses: The UEM Writers Workshop, June 13-24, 1977.

David R. Jones

- Founder & Artistic Director of a new theatre, The Vortex, Albuquerque, New Mexico, November 1976--opening.

Jane Kopp

- Poetry reading, Contemporary Arts Center, Albuquerque, July 1976

Stanley T. Noyes

- Readings: Harvard Library, Taos, March 2, 1975; Rio Grande Writers' Conference, UEM, Albuq., April 24, 1976; St. John's College, Santa Fe, May 4, 1976 (with San Lorenzo and Arthur Bro); Chantrel Fiesta of the Arts, El Paso, June 25, 1976;
- Reading and poetry/Fiction workshop, La Sociedad Para Las Artes, MSU, Las Cruces, October 29, 1976.

Harvonn Richter

- Spring semester: weekly seminars at my home for former writing students working on novels.

Johna Shoy

- At United Earth Mountain MLA, October, 1976 in Santa Fe.

Paula Sillho

- WFLC readings, WFL station, Univ. of South Carolina, Columbia (March, 1976)
- Guest lecturer, American Indian Literature, Ft. Borthold Community College, New Acom, North Dakota (June, 1976)
- thurs poet at Wellesley College, Cambridge, Mass. (April 1976)
- Reading, WFL station, Univ. of Arizona, Tucson, Arizona (April, 1976)

Patricia C. Smith

- Consultancies: 2-day workshop in materials production, Native American Materials Development Center, Albuquerque, February 13-14, 1976; 1-day workshop, creative writing, NAMDC, June 1976; 2-day workshop, for teachers of English and Navajo, bilingual creative writing, Rock Point Community School, Chino, Arizona, October 1976.
- Interviewed on Couch Bill Mendi Show, November 1976

James L. Thorsen

- Lectures: "American Satiric Fiction since World War II," given at Univ. of Sarajevo November 1, University of Zagreb, November 2, University of Ljubljana, November 4, University of Belgrade, November 5, and Univ. of Skopje, November 11, 1976.
- Spoke at orientation meetings for new students at UNM on July 16 and 23.

Marcia Tillotson

- Consultant for Pacific Foundation in Hawaii (Pacific v. FCC), on "dirty words" in literature.

Mary M. Weigle

- "The Pontificates of New Mexico," Maxwell Museum Association Lecture Series, Albuquerque, March 10, 1976.
- Talk at Book and Author Luncheon, St. John's College, Santa Fe, October 8, 1976.

Hugh Wisniewer

- Read book-length manuscript for Rutgers Univ. Press and article-length manuscript for Victorian Studies.

Joseph B. Zarecki

- Judge, Essay Contest, New Mexico-Arizona House Association
- Judge, Essay Contest, Albuquerque Tribune

8. NON-STACKING UNIVERSITY SERVICE ETC.

Betsy A. Ayres

- Personal and Policy Committee, Dept. of English, UNM, member
- Creative Writing Committee, Dept. of English, UNM, member

George Arns

- Committee on American Studies
- Serving member of English Department Policy and Personal Committee (fall semester).
- A & S Forum Advisory Committee (spring semester).
- University Course Review Committee.

James E. Boucher

- Policy and Personal Committee, English Department

Harriet W. Brighman

- Policy and Personal Committee, Department of English
- Member of Committee on American Studies.

8. CONTINUED

Ivan Z. Bloom

- Director, Freshman English (fall semester)
- Ex officio, Chairperson, Freshman English Committee

Edith Buchanan

- Department of English Graduate Committee
- Graduate Committee on Projects, Department of English
- Chairperson of University Curricula Committee

Paul Davis

- Academic Freedom and Tenure Committee
- Faculty Senate
- Policy and Personnel Committee, English Department
- Selection Committee, Undergraduate Seminar Program
- Undergraduate Academic Affairs Committee
- Judge, Irene Wong Prize
- Pembright/Marshall Committee

William C. Dowling

- Designed and Produced English Department course description booklet.
- Submitted plan for complete reorganization of English major and minor.

Morris Evans

- JUN Press Committee
- English Department Undergraduate Studies Committee
- Ad hoc sub committee to plan an introductory course in literature
- Various graduate studies committees

Michael Fisher

- Faculty Advisor, English Graduate Student Association
- Undergraduate Advisor, Department of English

Charvi H. French

- Freshman English Committee

Glen Franklin

- Director of Creative Writing (through spring 1976).
- Advisor, D. H. Lawrence Fellowship Committee

Patrick J. Gillocker

- Student #8 name, Locksaine Astwood, won a Marshall Scholarship, for which I wrote letter of recommendation and coached the student in various ways.

Harlan Hill

- Ex-Off Graduate Professional Education Committee;
- Intercity Press Committee
- American Studies Committee
- Arts & Sciences Promotion Committee--Humanities
- Departmental Graduate Committee (Spring)
- Policy and Personnel Committee, Dept. of English (Autumn)

Michael J. Hogan

-Freshman English Committee

Leon Howard

-Ph.D. Committees (completed dissertations): Chairman, 2; Member 1.

-Chairman, M.A. Thesis: 1

David M. Johnson

-Director, Creative Writing, Department of English

-General Honors Council

David R. Jones

-Graduate Director, Department of English 1974-present

Jane Kepp

-Graduate Committee (+ Minorities Subcommittee)

-Task Force on Program Development (Chairperson)

-Provost Search Committee

-Administrator, Title VII Grant

-Policy and Personnel Committee, English Department

-Computing and Info. Sci. Exec. Committee

Dorothy M. Logan

-Advisor for Undergraduate English Majors

-Member Admissions and Registration Committee

David C. McPherson

-Graduate Committee of English Department

Ivan Maludu

-MA Exam Committee, summer 1976

-Ph.D. exam committee, fall 1976

-Member Department Library Committee, spring 1976

-Chairman Department Library committee and University Liaison, Fall 1976

Peter C. Pope

-Freshman English (curriculum and policy) committee

Ray G. P. Abbott

-Director of completed Ph.D. dissertation in English

-Member of Freshman English Committee

-Registration advisor for English majors

-Member of the graduate committee in the Linguistics Department

Raymond Richter

-M.A. and thesis advisor

8. Continued

Leslie Maxman Silko

- Member, Search Committee for the New UNM Provost
- Member, Creative Writing Committee, English Department
- Member, Board of Directors, Native American Studies Center, UNM

Patricia C. Smith

- Creative Writing Committee, English Department

James L. Thomson

- Chairman, Faculty Policy Committee, Semester II, 1976.
- Ex-Officio Member, Board of Regents of the Univ. of N.M., Semester II, 1976
- Member, English Department Policy and Personnel Committee

Maria Villotam

- Resigned as co-director of Freshman English Program in June, but worked as co-director during Spring 1976 semester

Mary M. Weigle

- University Press Committee
- Bicentennial Committee
- American Studies Committee
- Library Search Committee for Social Science Bibliographer

Mary Rose Whidden

- Director of Undergraduate Studies, Department of English, spring semester

Hugh Wittenmeyer

- University Faculty Library Committee, spring semester 1976

Joseph E. Zavall

- Department Chairman
- Faculty Senate Executive Committee
- Chair of Senate Committee on Community and School Relations
- Advisor for English Honors and English Philosophy

9. Public Service

Rody A. Anaya

- Lecturer, readings, visits to NM schools: Jarama HI, Bernalillo HI, Maricopa HI
- Lecturer on my work, Delta Gamma Sorority, Oct., Univ. of Albuq., and National College of Teachers, Albuquerque
- Guest Poet, Albuq. Public Library, April

James L. Barker

- Albuquerque Little League Rules Committee
- St. Joe Lutheran Church

War Z. Bloor

- Albuquerque University Faculty Wives Council Club executive board

9. Continued

Edith Bushman

- New Mexico Opera Association
- Albuquerque Opera Guild

William C. Dowling

- Church activities
- Community Chest
- Boy Scouts

Stanley T. Noyes

- "Who Reads Poetry—and Why Not?": talk given to Santa Fe Unitarian Fellowship.

Leslie M. Silko

- Parent representative for Head Start Parent Policy Council

Ellen Spolsky

- President, Albuquerque Gan Jawiah Nursery School and Kindergarten
- Member of the Board of Directors, Akiba Day School

Hugh Witzensyer

- Pacific Region Selection Committee for the Marshall Scholarship, fall 1976

10. PERSONAL INFORMATION

Michael Fischer

- Married Kim Wiek, June 26, 1976

Patricia C. Smith

- Divorced, January 1976

THE REPORT OF THE DEPARTMENT OF GEOGRAPHY

July 1, 1976 - June 30, 1977

Richard E. Murphy, Chairman

I. General Department Information

With the loss of Bandelier-East as new quarters which had been expected and for which plans had been drawn in detail, the Geography Department was faced at the beginning of the 1976-77 academic year with the recurrent problem of adequate quarters. The matter was discussed with Dr. Chester Travelstead, Provost, and Mr. Van Dorn Hooker, University Architect, who came over to Hodgkin Hall to review the situation with the Department Chairman. The result of these deliberations was an expectation that the Geography Department would remain in Hodgkin Hall for the next few years until such time as full provision would be made for space for the Geography Department within a new Social Science Building or other suitable quarters. Thus, the attention of the Department was given to providing better for our needs within Hodgkin Hall. Indeed the building is spacious enough, and the adjustments which were and are being made are proving ever more satisfactory for the Department's needs.

During the course of the year, the Department deliberated on the nature of the undergraduate and graduate programs. The results will be reflected in the undergraduate Bulletin and the graduate Bulletin.

One of the two assistant professors resigned, but he has been replaced by a highly recommended geographer, already in possession of the Ph.D., who is expected to assume the duties thus vacated and enhance further our course offerings. In particular, we look toward a general increase in our offerings at the sophomore level which will give us a more fully rounded program.

A. Significant Achievements

The quarters for the Geography Department in Hodgkin Hall have been significantly improved during this academic year, and the revision of the course descriptions and reorganization of our courses for our degree programs should help significantly in the advisement of our students and in their planning of their programs.

In the downstairs, Room 106B has been assigned to the Geography Department as a cartography laboratory. The room is well suited to this purpose. The lighting, both natural and artificial, is good, and there is a small wash room adjacent which is useful for cleaning pens, ink, etc. Room 106, a small adjacent room with a door to the outside, has been converted into a direct exit, thus meeting fire regulations. There is adequate space in this anteroom for a light table. The provision of this cartography laboratory answers one of the basic physical needs of the Department. Meanwhile,

Room 305 has been approved for small classes up to 15 in number because of the availability of an outdoor fire escape leading from the hall adjacent. This room has been converted into a physical geography laboratory for the use of the teaching assistants in conducting the regular laboratory which accompanies the freshman course. Thus, another basic requirement has been met. Meanwhile, the classroom has been greatly improved with the provision of adequate darkening venetian blinds inside mounted runners. The seating arrangement in the classroom has been turned to face the other way, better utilizing the space. Two additional racks with pulleys for hanging wall maps have been installed. New seating has been provided, and a motion picture screen has been secured in place at the front of the room. These changes in Hodgkin Hall will help greatly in carrying out our responsibilities in teaching our courses, particularly those which have been added more recently such as cartography and the physical geography laboratory.

The staff of the Geography Department engaged in serious discussion of our course offerings and the organization of our courses, and as a result, there was a considerable revision of the material on the Geography Department in both the undergraduate and graduate bulletins, and particularly in the former. Every course description was reviewed, and the majority of them were revised to make

them reflect, as closely as possible, the present content.

The courses were reorganized under six basic headings:

- I. Introductory courses
- II. Regional geography
- III. Advanced courses in physical geography
- IV. Advanced courses in geographical methodology
- V. Advanced courses in human geography
- VI. Seminars, workshops, and problems

These revisions should help greatly in our advisement and in the planning by the students of their own programs.

The revisions will affect to some degree the graduate program as well as the undergraduate. In the graduate program itself, after discussion with the graduate students, requirements for taking graduate seminars will be made more stringent, and this change will be reflected in the new graduate Bulletin.

Two new courses have been added; one at the graduate level and one at the undergraduate level. Associate Professor Stanley Morain will teach a seminar in remote sensing, and Associate Professor Elinore Barrett will teach a new course in food production systems which will examine the way in which man has evolved his methods for providing for his nutrition. In addition, the field course has been raised from an undergraduate to a graduate level course, since the bulk of the enrollment is made of graduate students.

A number of our graduate students and several members of the staff participated in a major way in both the

regional meeting in Denver and the national meeting at Salt Lake City of the Association of American Geographers. New Mexico was well represented in the chairing of sessions and the presentation of papers.

B. Plans and Recommendations

The Department anticipates further revisions in Hodgkin Hall to make even better use of space, and the Department hopes to expand some aspects of its endeavors to capitalize on available facilities and the qualifications of the staff. In particular, the staff of the Geography Department hopes to expand its work in cartography, remote sensing, climatology, and the Southwest. We anticipate moving our computer terminal from Room 301 to 302D. We expect that Room 301 will be converted into a departmental library and reading room with individual carrels for graduate students. Professor Bennett will move his office to one of the upstairs offices, and his office, Room 206, will be converted into a room for the storing and servicing of materials on weather and climate which we expect to be provided by the National Weather Service in connection with an anticipated appointment of Professor Iven Bennett as State Climatologist.

Professor Bennett has been asked to serve as the Acting State Climatologist, and a formal request is being sent to the President of the University asking that this be approved. Letters from the National Oceanic and Atmos-

pheric Administration were sent to the President of the University and to the Governor of the State recommending this appointment which would put New Mexico in line with the majority of other states in providing for this office and service. The staff of the Geography Department feels that this appointment would enhance our research capabilities and increase the opportunities for graduate work in climatology here at the University. We hope earnestly that a teaching assistant might be assigned to service the materials which would thus be coming to the University. Climatology is one aspect of the work of the Department in which the Department can render a rather unique service to the University, the community, and the State.

Another unique realm of endeavor is in cartography. The cartography course has been expanded from three to four hours because of the laboratory work involved. The provision of space for a cartography laboratory solves one of the acute problems in implementing this program, but the laboratory still lacks enough equipment, particularly a sufficient number of drafting tables. In addition, more material is needed for our map reading and air photo interpretation course, and together, these courses can form a solid basis for training in cartography. These, in turn, tie in with our developments in remote sensing.

The University in general and the Geography Department in particular is in a unique position to capitalize on developments in remote sensing. The Technology Application Center is a storehouse and a disseminating agency for remote sensing materials, and the remote sensing aspect is headed by Associate Professor Stanley Morain of the Department who is also at present Acting Head of the Technology Application Center. As indicated above, in addition to our regular course in remote sensing, we are inaugurating a graduate seminar in remote sensing. Thus the combination of cartography, air photo interpretation, and remote sensing can be developed into a full-fledged program in this realm.

Our new staff member, Dr. Jerry Lee Williams, will bring with him capabilities in quantitative techniques, location theory, urban geography, and economic geography which should enable us to begin an expansion along these lines. We hope to augment his work with additional staff in this realm with a special focus on the Southwest.

As a matter of fact, the Southwest in general appears to be a very fruitful focus for additional effort wherein the various aspects of geography can be brought to bear on the study of this particular region. Professor Iven Bennett's courses on the Southwest have proven to be well attended, and we should like to capitalize on this interest with a general geographical investigation of the various aspect of our state and this part of the country.

C. Appointments to Staff

Dr. Jerry Lee Williams has accepted an appointment as Associate Professor starting with the fall semester, 1977. He will have responsibility for the courses in quantitative methods, location theory, urban geography, and economic geography. Dr. Williams has just completed the doctorate at the University of Oregon, and he received his M.A. from the University of Indiana. Dr. Williams has spent some time in teaching and research in Africa, and his doctoral dissertation examined aspects of shop location in Malawi, a study in economic geography applying location theory to another cultural environment. Dr. Williams will develop a regional course on Africa to add to our offerings.

D. Separation from Staff

Assistant Professor Wesley N. Redfield resigned as of the end of the 1976-77 academic year, with the expiration of his three-year term appointment.

II. Composite of Information Requested on Individual Biographical Supplements

Following are indicated the achievements, productivity, and other activities of the staff of the Geography Department for the calendar year 1976.

Advanced Study

Assistant Professor Wesley N. Redfield completed all requirements for the Ph. D. degree in the fall of 1976.

Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc.

In January, during the between semester break, Associate Professor Elinore M. Barrett conducted research at the Bancroft Library at Berkeley on Mexican colonial copper mining.

In February, Associate Professor Stanley A. Morain participated in the Thailand Remote Sensing Training Project sponsored by the U.S. State Department and the USGS/OIG in Bangkok. In the same month, he went to Katmandu, Nepal, for an Introductory Remote Sensing Workshop under the auspices of the U. S. State Department, the USGS/OIG, and the UNDP. In July, he attended a UN/FAO Seminar on the Application of Remote Sensing for Natural Resources Survey, Planning and Development, held at the University of Reading in England.

Professor Richard E. Murphy was on leave of absence during the 1975-76 academic year as a Senior Fulbright Lecturer at the University of the Saarland in Saarbrücken, West Germany. The invitation to lecture there specified reintroducing political geography, a subject neglected in Germany since World War II. In February, he went on a lecture tour in the United Kingdom as a guest of the Fulbright program there. In March, he participated in an American Studies Seminar sponsored by the Deutsch-Amerikanisches Institut in Freiburg, West Germany. In April,

he attended a seminar in Berlin for Fulbright grantees throughout Europe and the Middle East. During the spring and summer there were opportunities for travel in France, West Germany, and East Germany. In July, he traveled through Poland and returned to the United States on a Polish ship sailing from Gdynia.

Professor Rodman E. Snead made a survey of a portion of the California coast for ten days in March. Professor Snead is collecting data for a book on coastal landforms. In August, he met in New York with representatives of Wiley for discussions of a new edition of his Atlas of World Physical Features. Later in the same month he gathered data in Colorado, Wyoming, and Montana for his course on the Physiography of North America. In December, he went to Jamaica for research on arcuate bays along the northwestern coast.

New Scholastic honors, fellowships, etc.

Professor Rodman E. Snead received a grant from the Research Allocations Committee for his study of arcuate bays in northwestern Jamaica.

Publications

Associate Professor Elinore M. Barrett:

Review of: Beals, Ralph L., The Peasant Marketing System of Oaxaca, Mexico, in Annals of the Association of American Geographers, 1976, Vol. 66, pp. 469-471.

Associate Professor Stanley A. Morain:

Contributing Author to Chapters 14 ("Fundamentals of Image Interpretation") and 22, ("Crops and Soils") in Manual of Remote Sensing, Vol. II, American Society of Photogrammetry, 1975.

"Use of Radar for Vegetation Analysis" in Remote Sensing of the Electromagnetic Spectrum, July, 1976, pp. 61-78.

"Evaluation of Remote Sensing Techniques Applied to Water Resource Problems of New Mexico," New Mexico Water Resources Research Institute, July, 1976, Technical Completion Report on project #3109-204, WRRI Report #077, co-author: Mike White.

"University Education in Remote Sensing: Ill-Defined and Ill-Equipped" in Proceedings 3rd Symposium on Machine Processing, Purdue University, 1976, published by IEEE.

Professor Rodman E. Snead:

"La Cordillera Islands, Puerto Rico: A Geomorphic Enigma" in Ecumene, Vol. VIII, March, 1976, pp. 63-71.

Other research projects or creative work in progress

Associate Professor Elinore M. Barrett has completed an article on "Indian Hospitals of Colonial Michoacán" and has submitted it for publication. Her research, utilizing microfilm from Mexican archives, continues on colonial Mexican copper mining.

Professor Iven V. Bennett completed the first draft of a manuscript on the Geography of the Southwest. Also, he has written the portions on North and South America for a text on World Regional Climatology. Work on these manuscripts continues.

Professor Robert D. Campbell has completed an article on "Evaluation of Man-Environment Systems" which has been accepted for publication in 1977 in Man-Environment Systems. Currently he is developing a system concept of cultures.

Assistant Professor Douglas H. Gordon is reviewing David Kornhauser's Urban Japan (Longman, 1976) for the Professional Geographer.

Associate Professor Stanley A. Morain is completing a map of "New Mexico's Vegetation Types and Land Use" at a scale of 1:1,000,000.

Professor Richard E. Murphy has completed a manuscript on Physical Geography: An Introduction Survey for Wiley (formerly for Hamilton, a subsidiary of Wiley). This is part one of a contemplated two-part work on physical and human geography. His work continues also on the classification of political units and ethnic groups and also on a world map of tectonic plates.

Professor Rodman E. Snead has prepared a new edition of his Atlas of World Physical Features which will be published by Robert E. Krieger Publishing Co. in 1977 or 1978. Professor Snead is preparing a volume on Coastal Landforms and Surface Features: A Photographic Atlas and

Glossary to be published by Dowden, Huchinsen, and Ross.

Also, he is completing a report on geomorphological investigations in the Balakot region of Pakistan based on field work carried out last November for Professor George Dales, an archaeologist at Berkeley. The report will be published in the University of California archeology series.

Activities in Learned and Professional Societies

Associate Professor Elinore M. Barrett attended the annual meeting of the Association of American Geographers in New York as a member of the Association Council.

Professor Iven V. Bennett continued to serve on the Advisory Board of the New Mexico Solar Resource Project of the Bureau of Engineering Research.

Professor Robert D. Campbell was appointed a member of the Program Committee for the 1977 annual meeting of the Association of American Geographers.

Associate Professor Stanley A. Morain served as President of the Rio Grande Chapter of the American Society of Photogrammetry and also on the Technical Review Board of this society. He served also as a member of the New Mexico State Land-Use Advisory Committee. Associate Professor Morain also serves as a member of the Remote Sensing Committee of the Association of American Geographers. At a symposium on Remote Sensing and Land Management in the South and Southwest held at Texas A&M University, he

read a paper on "Mapping New Mexico's Resources: Toward Better Management Through Remote Sensing."

Assistant Professor Wesley N. Redfield attended the Regional Rail Planning Seminar in Salt Lake City sponsored by the Council of State Governments.

Other Professional Activities

Professor Iven V. Bennett received notification that action has been initiated by the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce, to gain his appointment as State Climatologist of New Mexico.

Assistant Professor Douglas H. Gordon served as cartographic Consultant to the redistricting of voting precincts, Bernalillo County. During the year he sponsored visits of three Japanese geographers, Professor H. Hotta of Hachinohe Technical College, Dr. N. Hasegawa of Tohoku University, and Dr. Y. Akagi of Hiroshima University.

Associate Professor Stanley A. Morain served as a consultant to a workshop held in Houston in August conducted by NASA and entitled Active Microwave Users Workshop - design of SEASAT/SAR Experiments.

Professor Richard E. Murphy presented a number of lectures and attended discussions in Germany and the United Kingdom as follows:

- a. Lecture on January 27 at the Deutsch-Amerikanisches Institut in Saarbrücken on "The Delimitat-

ion of the Political Area of the United States."

b. Informal meeting on February 23, with staff and students in geography at the London School of Economics.

c. Lecture on February 23, at King's College, University of London, on "Problems of Classifying Landforms on a World-wide Scale."

d. Lecture on February 24, at Birkbeck College, University of London, on "The Development of the Land Ownership and Control Patterns of the Western United States."

e. Lecture on February 25, at the University of Edinburgh on "The Development of the Land Ownership and Control Patterns of the Western United States."

f. Lecture on February 26, at the University of St. Andrews, Fife, Scotland, on "Problems of Classifying Landforms on a World-wide Scale."

g. Lecture on March 4, at the American Studies Seminar sponsored by the Deutsch-Amerikanisches Institut in Freiburg on "The Delimitation of the Political Area of the United States."

h. On May 31, the editor of the Saarbrücken Zeitung held a conference, to which he was invited, for a discussion of German-American political relations following a presentation by a visiting Herr Professor Kattenburg.

In November he presented a lecture and series of slides to the honorary geographical fraternity at UNM on his year as a Fulbright lecturer in Germany and associated travels.

Assistant Professor Wesley N. Redfield served as a member of the Governor's Task Force on Rail Planning, participating in the development of the New Mexico State Rail Plan Work Statement.

Non-Teaching University Service

Associate Professor Elinore M. Barrett served as Acting Chairman of the Geography Department during the 1975-76 academic year. She was also a member of the Associate Provost's Tenure Advisory Council.

Professor Iven V. Bennett served on the Social Science Advisory Promotion Committee of Arts and Sciences, and he is a thesis advisor.

Professor Robert D. Campbell served as chairman of the IARS Advisory Committee and as a member of the Advisory Committee for Vice President Mercure. Also, he served as a member of the American Studies Advisory Committee. He is a thesis and dissertation advisor.

Assistant Professor Douglas H. Gordon served as Acting Chairman and then as Chairman of the Asian Studies Committee.

Associate Professor Stanley A. Morain served as a thesis advisor.

Professor Richard E. Murphy served as Chairman of the Geography Department after his return from Germany, and he has been approved for another three-year term. Also, he is a member of the Russian Studies Committee.

Professor Rodman E. Snead served as the faculty sponsor of Gamma Theta Upsilon, international honorary

geographical society. He serves also as liaison officer for UNM for the Danforth Scholarship program. He is a thesis advisor.

All the staff served as faculty advisors to students, but the principal responsibility for this was with the Department Chairman.

Public Service

Assistant Professor Douglas H. Gordon served as Geographic Consultant to the State of New Mexico Indo-China Refugee Resettlement Program. Also, he served as a Japanese language medical interpreter for the Presbyterian Hospital.

Associate Professor Stanley A. Morain presented talks to the HUBRC&D in Albuquerque in April, to the Belen Rotary Club in May, to Sureste RC&D in June in Hobbs, and to the Middle Grande Conservancy in Albuquerque in October.

Professor Richard E. Murphy gave a talk in September on the nature of geography to a group of advanced 7th graders at the Cleveland Middle School in Albuquerque.

Personal Information

There was nothing to add in this category for the Geography Department in 1976.

ANNUAL REPORT OF THE DEPARTMENT OF GEOLOGY

July 1, 1976 to June 30, 1977

Douglas G. Brookins, Chairman

1. General Departmental Information

A. Significant Achievements

The Department of Geology consists of 15 full-time faculty, 5 part-time faculty, 75 graduate students, and 125 undergraduate majors (note: an additional 85 undergraduates are listed as planning to major in geology).

During 1976 the department granted 21 bachelor's degrees, 7 master's degrees, and 3 Ph.D. degrees. This compares with 19, 2 and 1 degrees respectively for the previous year.

This past year has been excellent for employment of geology majors. Numerous industries as well as Federal and State laboratories have been vigorously interviewing our students and our placement is 100 percent of B.S., M.S. and Ph.D. recipients; further, numerous summer jobs are available for both undergraduate and graduate students. As in previous years, we are unable to supply the number of geologists in demand from our department.

Many of our B.S. and M.S. recipients receive offers from such well established institutions of higher learning as MIT, Columbia, SUNY-Albany, VPI, UCLA, UC-Berkeley, and Stanford. This is a reflection of the strength of our overall program, and we are attempting to make our program even stronger by continuing to insist on quality of combined teaching and research on the part of the faculty and a thorough understanding of the fundamentals of geology for our students. Our admissions

committee has reviewed the files of some 100 applicants for Graduate School and recommended admission for approximately 35 students for Fall 1977. Of these, we will be able to offer financial assistance to only seven to ten students, thus we expect fewer than twenty new students for the Fall 1977 semester. If our projections are correct, then for the 1977-78 Academic Year we will have a graduate enrollment of 60 to 65, a decrease of 10 to 15. This is in keeping with our policy of trying to reduce the student/faculty ratio to about four (note: five years ago geology listed nearly 90 graduate students with a faculty of only 13). We feel that a level of about 60 students is best suited for our size faculty and we certainly do not plan to lower standards to accept marginal students. In this manner we continue to make offers of financial assistance to some of the best students nationwide and our graduate program continues to be increasingly recognized both in the U.S. and abroad.

During the past year the Geology Department managed research grants and contracts totalling \$1,808,200. Much of this money is used for purchase of equipment used both for research and teaching and many of our students are supported as RA's by research funds. From release time and other departmental sources we endeavor to provide financial support to all of our graduate as well as deserving undergraduate students.

The Geology Faculty continues to improve in all areas. Our 14 full-time faculty for the past year published some 160 papers, including 12 percent co- or solely-authored by graduate students.

In October 1976 the Geology Department co-hosted the Annual Meeting of the Association of Earth Science Editors. The Department was also heavily involved with the various meetings of the New Mexico Geological

Society (Fall and Spring meetings) and participated as much as possible with the functions of the Albuquerque Geological Society. This past year also saw an expansion of our interaction with Sandia Laboratories, the Los Alamos Scientific Laboratory, and with sister institutions. Further, many of our faculty serve on the review boards and/or committees for the State Energy Resources Board and Energy Institutes.

The following scientists (with their respective affiliations) visited the Geology Department to give talks and to consult with faculty and students:

1. Dr. Charles E. Chapin, N. M. Bur. Mines and Mineral Resources
2. Dr. Stephen Lambert, Sandia Laboratories
3. Mr. Ed Pettigrew, Utah International Co.
4. Dr. Terry Gerlack, Sandia Laboratories
5. Dr. F. J. Sawkins, Univ. Minnesota
6. Dr. Joseph V. Smith, Los Alamos Scientific Laboratory
7. Dr. Brian Skinner, Yale University (Sandia-UNM Colloquium Speaker)
8. Dr. Hans-Ulrich J. Schmincke, Ruhr University, Germany
9. Dr. Jean-Claude Mareschal, University of Toronto
10. Dr. Stephen Huestis, Univ. California - Berkeley
11. Dr. Paul Mohr, Smithsonian Astrophysical Observatory
12. Dr. John Summers, Lehigh University
13. Dr. Nicholas E. Short, NASA-Goddard
14. Mr. David Fitch, Ranchers Exploration
15. Dr. Christopher Oftedahl, Univ. of Trondheim, Norway
16. Dr. Y. Weiler, Israel Petroleum Institute, Israel
17. Dr. Scott Baldridge, Los Alamos Scientific Laboratory
18. Dr. C. H. Simonds, NASA-Lunar Science Institute, Houston

19. Dr. Moon J. Lee, Continental Oil Co.
20. Dr. Philippe Lambert, Bur. De Recherches Geologiques et Minieres
Service Geologique National, Orleans, France
21. Dr. Joseph Bridwell, Los Alamos Scientific Laboratory
22. Mr. J. M. Browning, Pres., Browning Associates, Calgary, Canada:
Distinguished AAPG Lecturer
23. Dr. Robert M. Schmalz, Penn. State Univ., Distinguished AAPG Lecturer
24. Dr. Robert S. Dietz, Arizona State Univ.,
25. Mr. Bruce Rubin, Western Utilities, Inc.
26. Dr. Kirtley Mather, Prof. Emeritus (Harvard) and Adjunct Professor
UNM presented a special lecture: "The Scopes
Trial and its Aftermath". Dr. Mather is the
last living principal participant in this
famous trial.
27. Dr. K. F. J. Heinrich, National Bureau of Standards

The following graduate students received financial support from the
source noted:

1. Mark Ander, RA, USGS
2. J. Berkley, RA, NASA
3. S. Bolivar, RA, NSF & LASL
4. T. Bornhorst, RA, NMERB
5. R. Della Valle, RA, USERDA
6. E. Erb, RA, NMERB
7. J. Gooding, RA, NASA
8. H. Holcombe, RA, NSF
9. W. Mansker, RA, NASA
10. S. May, RA, NASA
11. W. Riese, RA, USERDA
12. J. Wadell, TA
13. K. Affholter, RA - Dept.

14. J. Aubele, RA-NASA
15. R. Broomfield, RA, NMERB
16. E. Brooks, RA, NMERB
17. D. Broxton, TA
18. J. Bruneau, RA, USERDA
19. J. Connolly, TA
20. C. Cook, TA
21. S. Craigg, TA
22. L. Crumpler, RA, NASA
23. G. Dorn, RA, NSF
24. D. Edwards, TA
25. K. Emanuel, TA
26. S. Finley, TA
27. M. Fulp, TA
28. M. Gerety, RA, NMERB
29. T. Gorham, TA
30. G. Huss, RA, NASA
31. J. Kasten, RA, USGS
32. K. Kietzke, RA-TA-Dept.
33. R. Korb, TA
34. R. Kinsman, Dept. Scholarship
35. D. Krier, RA, NMERB
36. J. Lawrence, RA-Dept.
37. K. Loeber, RA-NMERB
38. P. Longmire, RA, LASL
39. G. Lux, RA, USGS
40. S. Manydeeds, TA

41. D. McMillen, RA-Dept.
42. C. Nelson, TA
43. R. Northrop, RA
44. C. Olsen, LASL (Full Time)
45. R. Padgett, TA
46. M. Parchman, TA
47. J. Place, Gulf Minerals
48. J. Potter, RA, Sandia Labs.
49. J. Register, RA, Sandia Labs.
50. M. Register, RA, Dept. & USERDA
51. D. Reiter, TA
52. D. Rhodes (Gilmore), RA-Dept.
53. C. Sanguinetti, RA, Grad. Tuition Scp.
54. A. Skeryanc, RA, SURP
55. C. Smith, RA, USGS
56. G. Smith, TA & RA, Dept.
57. C. Sullivan, RA, NSF & Dept.
58. D. Swenson, TA
59. R. Warren, RA, NASA
60. S. Wentworth, RA, NASA
61. R. Widdicombe, RA, Dept.
62. J. Wilson, RA, NMERB
63. C. Zimmerman, TA & RA-USGS
64. D. Phillips, RA, NMERB

52

Many of our graduate and undergraduate geology majors work on research projects and are paid on an hourly basis. In addition, some \$8,500 in scholarships was awarded as follows:

1. Leonard Scholarships (for undergraduates)

B. Chakoumakos, \$550.

C. Hudson, \$550.

T. Pink, \$550.

K. McCutcheon, \$550.

S. Griffiths, \$550.

P. Johnson, \$550.

E. Peterson, \$550.

R. Bowlin, \$475.

R. Gonzales, \$475.

J. Ezell, \$375.

M. Ostrower, \$375.

2. Sun Oil (\$750.), Tenneco (\$1,000), Albuquerque Gem & Mineral (\$290.)
(for graduates and undergraduates)

\$291.42 each from the combined above scholarships were awarded to the following graduate students:

K. Affholter

R. Broomfield

D. Krier

R. Lawrence

R. Padgett

D. Swenson

J. Wilson

3. The New Mexico Geological Society made awards to the following students:

K. Affholter

D. Krier

C. Sanguinetti

4. The El Paso Natural Gas Co. awarded \$625 to LeRoy Nelson.

The Geology Museum and Meteorite Museum were visited by approximately 5,000 school children as well as by smaller groups of Boy Scouts, Cub Scouts and others.

The department's role in providing manpower to the State's mineral and energy needs was intensified during the past year. Special seminar courses in Petroleum Geology and Uranium Geology-Geochemistry were made available at times for both students and industrial personnel. Service to the greater Albuquerque area was magnified by the offering of courses through the Division of Continuing Education and summer school.

B. Significant Plans and Recommendations

In June 1976 the Hydrology Branch of the U. S. Geological Survey vacated the second floor and some basement space in Northrop Hall. The southern wing of the second floor and the basement space was allocated to Geology and renovation has been in progress since Fall 1976; it is hoped that all renovation will be complete by the start of the Fall 1977 semester. Further, the Geology Department hopes to utilize all of the non-classroom second floor space on the east wing, currently used for faculty and student offices from several departments, within two years. The newly acquired space plus anticipated future space will allow the Department to meet its five year goals.

The Geology Department has also been charged with the responsibility of upkeep on the Harding Pegmatite area near Dixon, New Mexico. The land on which the pegmatite is located is a gift to the University by Dr. Arthur Montgomery; at present he and the lawyers for UNM have initiated steps to have the land transferred to UNM through an Act of Congress. The land itself has been very advantageous to both the University and the Geology Department; not only have many individuals and groups visited the area but significant research projects have been started as well.

As pointed out in our five year plan submitted earlier this year, the Department is in need of permanent personnel for a chemist to assist our Staff Chemist, Mr. Husler, and a draftsman-photographer.

C. Appointment to Staff

Dr. Stephen E. Huestis was appointed as Assistant Professor effective Fall 1977. His Ph.D. is in Geophysics (Univ. California, San Diego) and he will assist Dr. Jiracek in the Department's geophysics program. The addition of Dr. Huestis comes at a badly needed time as Dr. Jiracek will be on sabbatical leave for 1977-78.

Mr. Frank Gorham taught Petroleum Geology as an Adjunct Professor during the Spring 1977 semester. The course was well received and the Department is happy to have made this arrangement with Mr. Gorham.

Ms. Sheryl Bentley re-joined the Department as Staff Secretary in January 1977. Mrs. Ramona Caplan has joined the Department as part-time Staff Secretary and Mrs. Chris Chavez has joined the Departemnt as Bookkeeper, both effective January 1977.

D. Separations from Staff

Mrs. Katherine Cowart resigned as Staff Secretary in December 1976. Dr. Frederick Dowsett, who served as Visiting Assistant Professor for 1976-77 Academic Year, resigned effective May 1977.

II. Composite of Individual Biographical Supplement

1. Advanced Study

Raymond V. Ingersoll: Ph.D., September, 1976, Stanford University, Thesis Title: Evolution of the Late Cretaceous fore-arc basin of northern and central California.

2. Travels

Douglas G. Brookins: USERDA financed travel to Harvard University (March) and to northern Saskatchewan, Canada (September); field work in California and New Mexico.

Jonathan F. Callender: Travel to Coast Ranges, California for student field trips and field work. Travel to Los Angeles, California for research in salt petrography. Travel throughout central New Mexico for research on Rio Grande rift. Travel to Geol. Soc. America annual meeting, Denver, Colorado. Travel to Amer. Geophys. Union Fall meeting, San Francisco, California.

Frederick R. Dowsett, Jr.: July-August, geological tour of Australia, guest lecturer at Department of Geology and Mineralogy, University of Queensland, Brisbane, Australia.

Wolfgang E. Elston: Visiting Lecturer, UNM German Summer School at Taos, July 6-7. Gave talk on "Goethe und die Ursprünge der Geologie" (Goethe and the Origins of Geology) and led geologic field trips in

German. Geologic summer field work in Pyramid, Animas, and Peloncillo Mountains, southwestern New Mexico; numerous short visits to southwestern New Mexico; field trip (with U. S. Geological Survey) to San Francisco volcanic field, Flagstaff, Arizona; June 8-10, 1976, travel to Pacific northwest.

Raymond V. Ingersoll: Travel to various locations in western U. S. for various geologic investigations.

George R. Jiracek: Taught geophysics portion of Fundamentals of Geoscience for Sandia Applications, March and November, 1976.

Klaus Keil:

1. San Antonio, Texas. Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), January 18-20, 1976.
2. San Antonio, Texas, Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), February 5, 1976.
3. Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT), NASA-Johnson Space Center, February 6-8, 1976.
4. Pasadena, California. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, February 26-March 1, 1976.
5. Houston, Texas. Chaired Facilities Subcommittee meeting, Lunar Sample Analysis Planning Team (LSAPT), NASA-Johnson Space Center, March 12-14, 1976.
6. Houston, Texas. Seventh Annual Lunar Science Conference, NASA-Johnson Space Center, Houston, Texas, March 15-18, 1976.
7. Pasadena, California. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, April 12-14, 1976.
8. Houston, Texas. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting NASA-Johnson Space Center, April 29-May 2, 1976.

9. Pasadena, California. Viking Flight to Mars, uplink exercise, Jet Propulsion Laboratory, May 23-26, 1976.
10. Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, June 1-19, 1976.
11. Houston, Texas. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA-Johnson Space Center, June 20-24, 1976.
12. Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, June 25-30, 1976.
13. Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, July 1-September 15, 1976.
14. Lehigh, Pennsylvania. Meteoritical Society meeting, Lehigh University, Oct. 20-21, 1976.
15. Sao Paulo, Brazil. Studying Brazilian meteorites. October 20-December 19, 1976.

Albert M. Kudo: Travel to: Denver for workshop on Andesites; Austin, Texas; Wyoming for field work during summer; NE NM for NMGS Field Conference; Denver for Geological Society of America Annual Meeting; San Francisco for Amer. Geophys. Union Ann. Meeting. Led field trip during Spring break to California (Death Valley).

Gary Perrin Landis: Research field work in Jemez, Pecos-Picuris: Special Course, "Fundamentals of Geoscience" (Geochemistry-Economic Geology sessions) taught spring and fall 1976 for Sandia Lab personnel.

3. New scholastic honors, fellowships, etc.

Douglas G. Brookins: Who's Who in the West (16th Ed.), American Men and Women of Science (13th Ed.), Community Leaders and Noteworthy Americans, Noteworthy Americans of the Bicentennial Era, Intern. Biography Dictionary (1976), Personalities of the West and Midwest.

Jonathan F. Callender: Listed in: American Men and Women of Science, (13th Ed.), Who's Who in the West.

Rodney C. Ewing: American Men and Women of Science (13th Ed.)

Raymond V. Ingersoll: Awarded Ph.D. (Stanford Univ.) "with great distinction"

George R. Jiracek: Tenure granted and promoted to Associate Professor on July 1, 1976.

Klaus Keil:

1. Secretary, Commission on Meteorites, International Union of Geological Sciences.
2. Secretary, Commission of Cosmic Mineralogy, International Mineralogical Association.
3. Secretary, International Association for Geochemistry and Cosmochemistry.
4. Member, Leonard Medal Committee, Meteoritical Society.
5. Chairman, U. S. National Committee for Geochemistry, National Academy of Sciences.
6. Ex-officio member, Subcommittee on the Geochemical Environment in Relation to Health and Disease, U. S. National Committee for Geochemistry, National Academy of Sciences.
7. Member, Editorial Board, Journal "Chemical Geology".
8. Member, Geophysics Research Board, National Academy of Sciences, Washington, D.C.
9. Member, Surface Sampler Team, Viking Mars Mission.
10. Vice-chairman, Lunar Sample Analysis Planning Team, Johnson Space Center, Houston, Texas.

11. Member, Editorial Board, Colorado School of Mines Quarterly
Golden, Colorado.
 12. Member, Committee on Public Education and Information,
Mineralogical Society of America.
 13. Chairman, U. S. Geodynamics Committee, Subcommittee on "Chemical
Differentiation of Magmas", Geophysics Research Board, National
Academy of Sciences, Washington, D.C.
 14. Chairman, Facilities Subcommittee, LSAPT, NASA-Johnson Space
Center, Houston, Texas.
 15. Chairman, Session on "Origin and evolution of polymict breccias",
Sixth Lunar Science Conference, Houston, Texas.
 16. Co-chairman, Organizing Committee, Symposium on "Interrelationships
among meteoritic and lunar breccias", American Geophysical
Union Meeting, December 11, 1975.
 17. Visiting Associate in Geochemistry, Division of Geological and
Planetary Sciences, California Institute of Technology, Pasadena,
California.
 18. Member, Viking Flight Team, Jet Propulsion Laboratory, Pasadena,
California.
 19. Received the National Aeronautics and Space Administration (NASA)
Exceptional Scientific Achievement Medal.
- Lee A. Woodward: Travel to Hawaii, California, Washington, Idaho,
Montana, and Colorado.

4. Publications

Roger Y. Anderson:

Anderson, Roger Y., "Short-term sedimentation response in lakes in western United States as measured by automated sampling:" Limnology and Oceanography, v. 22, 17 ms pg., 10 figs. (in press, Feb.).

Anderson, Roger Y., "Correlation and structural relationships of the Castile-Salado evaporite sequence in ERDA #6, AEC #7, and AEC #8 boreholes, Eddy and Lea Counties, New Mexico": Sandia Lab. Consulting Report, 33 p.

Anderson, Roger Y., "Geologic evaluation of the Los Medanos (ERDA #9) W.I.P.P. site, Eddy County, New Mexico": Sandia Lab. Consulting Report, 28 p.

Anderson, Roger Y., "Microfossil analysis of AFWL core samples": C. R. Reynolds Consulting Rept., 17 p. (co-author: K. K. Kietzke)

Douglas G. Brookins:

Brookins, D. G., "Strontium isotopic composition of the Madera Formation (Pennsylvanian) near Albuquerque, New Mexico": Geochim. Cosmochim. Acta., v. 40, 1976, p. 611-616. (co-author: B. Mukhopadhyay)

Brookins, D. G., "Rb-Sr whole-rock geochronology and clay mineralogy of the Madera Formation near Albuquerque, New Mexico": Jour. Sed. Petrology v. 46, 1976, p. 680-689. (co-author: B. Mukhopadhyay)

Brookins, D. G., "United States uranium resources: the 1975-2000 outlook" Resources Policy, v. 2, 1976, p. 142-154.

Brookins, D. G., "The Grants Mineral Belt, New Mexico: comments on the coffinite-uraninite relationship, clay mineral reactions, and pyrite formation": N. M. Bur. Mines and Min. Res. Spec. Vol. No. 6, 1976, p. 158-166.

- Brookins, D. G., "Uranium deposits of the Grants, New Mexico Mineral Belt": U. S. E. R. D. A. Final Rpt. GJO-1636-1, 1976, 120 p.
- Brookins, D. G., "Radiometric dating of Silurian glauconite: discussion": Amer. Assoc. Petroleum Geol., v. 60, 1976, p. 883.
- Brookins, D. G., "Geochemistry, origin and age of the Glastonbury gneiss body, Massachusetts and Connecticut: a progress report": Geol. Soc. Amer. Abs. w. Prog., v. 8, 1976, p. 464. (Co-authors: G. W. Leo, L. J. Schwarz, and J. J. Rowe)
- Brookins, D. G., "Carbonatites associated with kimberlites from mid-continental U. S. A.": EOS Trans. Amer. Geophys. Un., v. 57, 1976, p. 355. (Co-author: S. L. Bolivar)
- Brookins, D. G., "High 87/86 strontium ratios in fracture-filling calcite from GT-2": EOS Trans. Amer. Geophys. Un., v. 57, 1976, p. 352-353. (Co-author: A. W. Laughlin)
- Brookins, D. G., "Rubidium-strontium geochronologic study of GT-1 and GT-2": EOS Trans. Amer. Geophys. Un., v. 57, 1976, p. 352. (Co-author: A. W. Laughlin)
- Brookins, D. G., "Trace element analyses of granite cores from LASL dry hot rock experiment": EOS Trans. Amer. Geophys. Un., v. 57, 1976, p. 350. (Co-authors: S. B. Helmick, J. P. Balagna, and J. W. Husler)
- Brookins, D. G., "The Oklo Phenomenon: geological and nuclear aspects": Amer. Assoc. Petroleum Geol. Bull., 1976.
- Brookins, D. G., "Late Cenozoic basaltic volcanism along the Jemez Zone of New Mexico and Arizona": Geol. Soc. Amer. Abs. w. Prog., v. 8, 1976, p. 598. (Co-authors: A. W. Laughlin and P. E. Damon)

- Brookins, D. G., "Geochemistry of Uranium deposits east and northeast of the San Mateo Springs Grant, McKinley and Valencia Counties, New Mexico": Geol. Soc. Amer. Abs. w. Prog., v. 8, 1976, p. 622.
(Co-author: W. C. Riese)
- Brookins, D. G., "High $^{87}\text{Sr}/^{86}\text{Sr}$ ratios in deep seated, fracture filling calcite from drill hole GT-2, Los Alamos Scientific Laboratory Dry Hot Rock Program": Jour. Vulcan. and Geoth. Res., v. 3, 1976, p. 18-24. (Co-author: A. W. Laughlin)
- Brookins, D. G., "Position of uraninite and/or coffinite accumulations to the hematite-pyrite interface in sandstone-type deposits": Economic Geol., v. 71, 1976, p. 944-948.
- Brookins, D. G., "Sapphirine Bearing Granulite Xenoliths from Stockdale Kimberlite pipe, Kansas": Amer. Mineralogists, v. 61, 1976.
(Co-author: H. O. A. Meyer)
- Brookins, D. G., "Geochronologic Contributions to Problems of Stratigraphy and Correlation in the Penobscot Bay area, Eastern Maine with Regional Implications", Geol. Soc. Amer. Mem. 148, 1976, Symposium on New England Stratigraphy, Hartford, Conn., Mar. 19, 1971, p. 129-145.
- Brookins, D. G., "Geophysical studies of the Prairie Creek kimberlite, Murfreesboro, Arkansas": EOS Trans. Am. Geophys. Un., v. 57, 1976, p. 762. (Co-authors: S. L. Bolivar, R. D. Lewis, and H. O. A. Meyer)
- Brookins, D. G., "Geochemistry of the Elliott County, Kentucky kimberlites", EOS Trans. Am. Geophys. Un., v. 57, 1976, p. 761.
Co-author: S. L. Bolivar)

Brookins, D. G., "Uranium geochemistry of some United States kimberlites":

EOS Trans. Am. Geophys. Un., v. 57, 1976, p. 762. (Co-authors:

R. S. Della Valle and S. L. Bolivar)

Brookins, D. G., "Mineralogy of the diamond bearing 'kimberlite',

Murfreesboro, Arkansas", EOS Trans. Am. Geophys. Un., v. 57, 1976,

p. 761. (Co-authors: W. L. Mansker, G. P. Landis, and J. W. Husler)

Brookins, D. G., "Occurrence of kimberlites in the United States",

EOS Trans. Am. Geophys. Un., v. 57, 1976, p. 761. (Co-author:

H. O. A. Meyer)

Brookins, D. G., "Shale as a Repository for Radioactive Waste: the

evidence from Oklo": Environmental Geology, 1976.

Brookins, D. G., "Plutonium Retention at the Oklo (Fossil Nuclear

Reactor) Uranium Mine, Gabon: Implications to Problems of Radio-

active Waste Disposal Site Selection": Geol. Soc. Amer. Abs. w.

Prog., v. 8, 1976, p. 792-793.

Brookins, D. G., "Role of Argillaceous Units in the Formation of

Uranium Deposits, Grants Mineral Belt, New Mexico": Geol. Soc.

Amer. Abs. w. Prog., v. 8, 1976, p. 974-975. (Co-author: M. J. Lee)

Brookins, D. G., "Oklo - geologic isolation implications": LASL:

LA-UR 76-2906 (Symposium on Waste Management '76: Tucson, AZ,

Oct. 1976). (Co-authors: K. E. Apt and E. A. Bryant)

Brookins, D. G., "Rb-Sr Geochronologic investigation of Precambrian

samples from drill holes GT-1, GT-2, and EE-1: Los Alamos Dry Hot

Rock Program, Fenton Hill, New Mexico: LASL Rpt. to USERDA, 1976,

35 p. (Co-author: A. W. Laughlin)

- Brookins, D. G., "Summary of Precambrian geology and geochronology of northeastern New Mexico": N. M. Geol. Soc. Guidebook, v. 27, 1976, p. 129-135. (Co-authors: J. F. Callender and J. M. Robertson)
- Brookins, D. G., "Rb-Sr, K-Ar and Fission Track Geochronological studies from LASL Drill Holes GT-1, GT-2, and EE-1" (in press). (Co-authors: R. B. Forbes, A. W. Laughlin, C. W. Naeser, and D. L. Turner)
- Brookins, D. G., "Calc-Alkaline andesites within the Rio Grande rift": EOS Trans. Am. Geophys. Un., v. 57, 1976, p. 1023. (Co-authors: S. L. Bolivar, J. A. Kasten, and A. M. Kudo)
- Brookins, D. G., "Interpretive summary of Oklo": Workshop on geologic data requirements for radioactive waste management assessment models": UNM Rpt. NE-27(76) Union Carbide 297-1, 1976, p. 20-21.
- Brookins, D. G., "Oklo Paragenesis", in Investigations of the Oklo Natural Fission Reactor, LASL Report LA-6576, K. E. Apt, Ed., 1976, p. 36-49.
- Brookins, D. G., "Geochemistry of Alkali and Alkaline Earths", Ibid., 1976, p. 50-59.
- Brookins, D. G., "Geochemistry of Plutonium", Ibid., 1976, p. 60-69.
- Jonathan F. Callender:
- Callender, J. F., Guidebook to Albuquerque basin of the Rio Grande rift, New Mexico. New Mexico Bureau of Mines and Mineral Resources, Circular 153, 31 pp., 1976. (Co-authors: V. C. Kelley, A. M. Kudo and L. A. Woodward)
- Callender, J. F., "Kinematics of Tertiary and Quaternary deformation along the eastern edge of the Lucero uplift, central New Mexico", New Mexico Geological Society Special Publication No. 6, 1976, pp. 53-61. (Co-author: R. E. Zilinski)

- Callender, J. F., "Preliminary determination of mechanical properties on rock salt from southeastern New Mexico", 17th Symposium on Rock Mechanics, 1976, pp. 506, 1-7. (Co-authors: R. R. Dropek, W. R. Wawersik and B. Weaver)
- Callender, J. F., "Summary of Precambrian geology and geochronology of northeastern New Mexico", New Mexico Geological Society Guidebook, 1976, 27th Field Conference, pp. 129-135. (Co-authors: D. G. Brookins and J. M. Robertson)
- Callender, J. F., "Strain-rate dependence in dolomite inferred from impact and static compression studies", Journal of Geophysical Research, 1976, Volume 81 (in press). (Co-authors: D. E. Grady, R. E. Hollenbach and K. W. Schuler)
- Callender, J. F., "Structural Framework of Rio Grande rift, New Mexico and Colorado", a paper presented at Geological Society of America, Rocky Mountain Section, May 1976. (Co-authors: V. C. Kelley and L. A. Woodward)
- Callender, J. F., "Placitas-Juan Tabo contact metamorphic aureole: Evidence for progressive dynamothermal evolution through time", a paper presented at national meeting of Geological Society of America, November, 1976. (Co-authors: J. L. Berkley and K. Keil)
- Callender, J. F., "Compression wave studies in Blair Dolomite", Sandia Laboratories report, January 1976. SAN 76-0005, 70 pp. (Co-authors: D. E. Grady, R. E. Hollenbach and K. W. Schuler)
- Callender, J. F., "Preliminary report on fabric studies in deformed and undeformed salt from ERDA #7 and #8", Sandia Laboratories consulting report, 20 pp.

Callender, J. F., "Heatflow and thermal waters of Rio Grande rift", 1976,
New Mexico Bureau of Mines and Mineral Resources, open-file map.

(Co-authors: G. R. Jiracek, J. M. Potter and R. E. Zilinski)

Callender, J. F., "Magnetic anomaly map of Rio Grande rift", 1976, New
Mexico Bureau of Mines and Mineral Resources, open-file map. (Co-
authors: G. R. Jiracek, J. M. Potter and R. E. Zilinski)

Callender, J. F., "Bouguer gravity map of Rio Grande rift", 1976, New
Mexico Bureau of Mines and Mineral Resources, open-file map.

(Co-authors: G. R. Jiracek, J. M. Potter and R. E. Zilinski)

Frederick R. Dowsett, Jr.

Dowsett, F. R., Jr., "COOLIT, A Fortran IV program that simulates
fractional crystallization in the formation of Layered Intrusions,"
Computers and Geosciences, in press, (Co-author: Robert Haines)

Dowsett, F. R., Jr., "Fractional crystallization in layered mafic and
ultramafic intrusions: A computer simulation model," in prepara-
tion. (Co-author: Robert Haines)

Dowsett, F. R., Jr., "Statistical analysis of the compositions of
alkali feldspars from volcanic and hypabyssal intrusive igneous
rocks," in preparation. (Co-author: Rodney C. Ewing)

Wolfgang B. Elston:

Elston, W. E., Cenozoic Volcanism in Southwestern New Mexico, a Volume
in Memory of Rodney C. Rhodes, 1943-1975. New Mexico Geological
Society Special Publication No. 5, 1976, 151 p. (Co-editor: Stuart
A. Northrop)

- Elston, W. E., "Progress Report on the Mogollon Plateau Volcanic Field, Southwestern New Mexico, No. 3 - Surface Expression of a Pluton," New Mexico Geological Society Special Publication No. 5, 1976, pp. 3-28. (Co-authors: Rodney C. Rhodes, Peter J. Coney and Edmond G. Deal)
- Elston, W. E., "Tectonic Significance of Mid-Tertiary Volcanism in the Basin and Range Province: A Critical Review with Special Reference to New Mexico," New Mexico Geological Society Special Publication No. 5, 1976, pp. 93-102.
- Elston, W. E., "Control of Mineralization by Mid-Tertiary Volcanic Centers, Southwestern New Mexico, New Mexico Geological Society Special Publication No. 5, 1976, pp. 125-130. (Co-authors: Rodney C. Rhodes, Edward E. Erb)
- Elston, W. E., "Glossary of Stratigraphic Terms of the Mogollon-Datil Volcanic Province, New Mexico," New Mexico Geological Society Special Publication No. 5, 1976, p. 131-144.
- Elston, W. E., "Influence on Tectonic Setting, Composition, and Erosion on Basaltic Landforms: New Mexico and Mars," NASA Technical Memorandum, TM X-3364, 1976, pp. 129-132. (Co-authors: Jayne Aubele, Lawrence S. Crumpler and Dean B. Eppler)
- Elston, W. E., "Influence of Tectonic Setting, Composition, and Erosion on Basaltic Landforms: New Mexico and Mars," invited paper presented at NASA Planetology Program Principal Investigators Conference, Flagstaff, Arizona, March 8-10, 1976.

Elston, W. E., "Mid-Tertiary Volcanism and Plutonism, Southwestern New Mexico," Geological Society of America, Abstracts with Programs, 1976, v. 8, No. 5, p. 585. Paper read at annual meeting of Rocky Mountain Section, Geological Society of America, Albuquerque, New Mexico, May 20, 1976.

Elston, W. E., "Basaltic Volcanism in Western New Mexico," paper read at U. S. Geological Survey San Francisco Volcanic Field Conference, Flagstaff, Arizona, June 7, 1976.

Elston, W. E., Foreword to Cenozoic Volcanism in Southwestern New Mexico, a Volume in Memory of Rodney C. Rhodes, 1943-1975, New Mexico Geological Society Special Publication No. 5, 1976, p. v.

Elston, W. E., Memorial to Rodney Charles Rhodes, Cenozoic Volcanism in Southwestern New Mexico, A Volume in Memory of Rodney C. Rhodes, 1943-1975, New Mexico Geological Society Special Publication No. 5, pp. 1-2.

Elston, W. E., Geologic Road Log - Field Trip No. 4, 29th Annual Meeting, Rocky Mountain Section, Geological Society of America (mimeographed), second day, 18 p., third day, 70 p. (Co-authors: C. E. Chapin, R. E. Clemons, P. J. Coney, E. G. Deal, J. C. Ratte, W. R. Seager, Co-editor: C. E. Chapin).

Elston, W. E., Reconnaissance Geologic Map of the Mogollon-Datil Volcanic Province, and Preliminary Tectonic Map of Mogollon-Datil Volcanic Province. New Mexico Geological Society, 1976, 2 sheets, 1:350,000. (Co-authors: T. J. Bornhorst and E. E. Erb).

Rodney C. Ewing:

- Ewing, R. C., "A Numerical Approach Toward the Classification of Complex, Orthorhombic, Rare-Earth, AB_2O_6 -Type Nb-Ta-Ti Oxides," The Canadian Mineralogist, 1976, Volume 14, pp. 111-119.
- Ewing, R. C., "Metamict Mineral Alteration: An Implication for Radioactive Waste Disposal," Science, 1976, Volume 192, pp. 1336-1337.
- Ewing, R. C., Editor of New Mexico Geological Society Guidebook: Vermejo Park, 1976, 303 p. (Co-editor: B. S. Kues)
- Ewing, R. C., "The Harding Mine, Taos County, New Mexico," in New Mexico Geological Society Guidebook: Vermejo Park, pp. 263-276. (Co-author: R. H. Jahns)
- Ewing, R. C., "Metamict columbite re-examined," Mineralogical Magazine, 1976, Volume 40, pp. 898-899.
- Ewing, R. C., "Euxenite from Ampangabe, Madagascar," The Canadian Mineralogist, in press. (Co-authors: K. G. Snetsinger and T. E. Bunch)
- Ewing, R. C., "Darapskite, $Na_3(NO_3)(SO_4) \cdot H_2O$, A New Occurrence as a Cave Flower in Big Bend National Park, Texas," Mineralogical Magazine, in review. (Co-author: C. A. Hill)
- Ewing, R. C., "The Crystal Structures of the $ThSiO_4$ Polymorphs: Huttonite and Thorite," in review, Acta Crystallographica.
- Ewing, R. C., "Study of the Relationships of the Texture, Fabric and Composition of Fine-Grained Terrigenous Sediments and Sedimentary Rocks (Mudstone and Shale) to the Occurrence of and Exploration for Oil and Gas: A First Year Report," SURP Contract No. 02-8900. (Co-author: B. S. Kues)

Raymond V. Ingersoll:

Ingersoll, R. V., "Petrologic evolution and petrofacies of the Late Cretaceous part of the Great Valley Sequence, northern and central California:" Geological Society of America, Abs. w. Programs, v. 8, no. 3, p. 384-385.

Ingersoll, R. V., "Late Cretaceous turbidite sedimentation and submarine fan facies of the Great Valley Sequence, northern and central California": Pacific Section, American Association of Petroleum Geologists, Annual Meeting Program, p. 12.

Ingersoll, R. V., "Applications of plate tectonics to petroleum geology along the Pacific margin of North America:" Pacific Section, American Association of Petroleum Geologists, Annual Meeting Program, P. 37. (Co-authors: W. R. Dickinson, S. A. Graham and T. E. Jordan)

Ingersoll, R. V., "Common provenance for lithic grains in Carboniferous sandstones from Ouachita Mountains and Black Warrior Basin:" Journal of Sedimentary Petrology, v. 46, p. 620-632. (Co-authors: S. A. Graham and W. R. Dickinson)

Ingersoll, R. V., "Petrology and provenance of Neogene sand from the Nicobar and Bengal fans, DSDP sites 211 and 218:" Geological Society of America, Abs. w. Programs, v. 8, no. 6, p. 934. (Co-author: C. A. Suczek)

George R. Jiracek:

Jiracek, G. R., "Electromagnetic reflection from multilayered snow models:" J. Glacio, 14 (72), p. 501-515. (Co-author: W. I. Linlor)

Jiracek, G. R., "Deep electrical resistivity investigations coupled with dry geothermal reservoir experiments in New Mexico: preliminary field and numerical results:" Proc. Conf. on Explor. Geothermal Reser., Golden, Colo., in press. (Co-author: R. J. Phillips)

- Jiracek, G. R., "Deep electrical resistivity investigations coupled with dry geothermal reservoir experiments in New Mexico: preliminary field and numerical results:" Digest of NSF Geothermal Res., in press.
(Co-author: R. J. Phillips)
- Jiracek, G. R., "Deep resistivity investigations at two known geothermal resource areas (KGRAs) in New Mexico: Radium Springs and Lightning Dock:" New Mexico Geol. Soc. Spec. Pub. No. 6, p. 71-76. (Co-author: C. Smith)
- Jiracek, G. R., "Deep geothermal exploration in New Mexico using electrical resistivity:" Proc. Second U. N. Symp. Devel. and Use of Geothermal Resour., Vol. 2, p. 1095-1102. (Co-authors: C. Smith and G. A. Dorn)
- Jiracek, G. R., "Deep electrical resistivity soundings in the Rio Grande rift (abs.):" Abstracts with programs, Annual 1976 Meeting, Geol. Soc. Amer., p. 940-941. (Co-authors: C. Smith, M. T. Gerety)
- Jiracek, G. R., "Geophysical measurements at Fenton Hill (abs.):" EOS Trans. Amer. Geophys. Un., 57 (8), p. 600. (Co-author: P. R. Kintzinger)
- Jiracek, G. R., "Electrical measurements at the Los Alamos Scientific Laboratory's geothermal project (abs.):" Geophysics, in press.
(Co-authors: P. R. Kintzinger, F. West, and G. Dorn)
- Jiracek, G. R., "Deep electrical investigations of geothermal prospects in the Basin and Range province of Southern New Mexico (abs.):" Geophysics, in press. (Co-authors: C. Smith and M. E. Ander)
- Jiracek, G. R., "New Mexico State University annual energy conference - geothermal energy": Geothermal Energy, 4(7), p. 19-23. (Co-authors: C. Smith, P. Morgan and C. A. Swanberg)

Jiracek, G. R., "Bougher gravity map of Rio Grande rift:" N. Mex. Bur.

Mines and Min. Resources, open-file map. (Co-authors: R. E. Zilinski, J. M. Potter and J. F. Callender)

Jiracek, G. R., "Heatflow and thermal waters of Rio Grande rift:" N.

Mex. Bur. Mines and Min. Resources, open-file map. (Co-authors: R. E. Zilinski, J. M. Potter and J. F. Callender)

Jiracek, G. R., "Magnetic anomaly map of Rio Grande rift:" N. Mex. Bur.

Mines and Min. Resources, open-file map. (Co-authors: R. E. Zilinski, J. M. Potter and J. F. Callender)

Klaus Keil:

Keil, K., "Carbonaceous and non-carbonaceous lithic fragments in the

Plainview, Texas chondrite: origin and history:" Geochim. Cosmochim. Acta 40, 177-189, 1976. (Co-author: R. V. Fodor)

Keil, K., "A komatiite-like lithic fragment with spinifex texture in the

Eva meteorite: origin from a supercooled impact-melt of chondritic parentage. Earth and Planet. Sci. Lett. 29, 1-6, 1976. (Co-author: R. V. Fodor)

Keil, K., "Progress by the consorts of Angra dos Reis:" Lunar Science VII,

Johnson Space Center, Houston, Texas, 443-445, 1976. (Co-authors: M. Prinz, P. F. Hlava, C. B. Gomes, W. S. Curvello, G. J. Wasserburg, F. Tera, D. A. Papanastassiou, J. C. Huneke, A. V. Murali, M. S. Ma, R. A. Schmitt, G. W. Lugmair, K. Marti, N. B. Scheinin, and R. N. Clayton)

Keil, K., "Luna 16 revisited: A progress report:" Lunar Science VII,

462-464, 1976. (Co-authors: G. Kurat, A. Kracher and R. Warner)

- Keil, K., "Comparison of lunar rocks and meteorites: Implications to histories of the moon and parent meteorite bodies:" Cosmochemistry of the moon and the Planets, Nauka, Moscow, 738-753, 1976 (in Russian). (Co-authors: M. Prinz, and R. V. Fodor)
- Keil, K., "Origin and history of a meteorite parent-body regolith breccia: carbonaceous and non-carbonaceous lithic fragments in the Abbott, New Mexico, chondrite. New Mexico Geol. Soc. Spec. Publ. No. 6, 206-218, 1976. (Co-authors: R. V. Fodor, L. L. Wilkening, D. D. Bogard and E. K. Gibson)
- Keil, K., "Catalogue of Apollo 16 rake samples from the LM area and station 5." Spec. Publ. No. 13, UNM Institute of Meteoritics, 1-87, 1976. (Co-authors: R. D. Warner, E. Dowty, M. Prinz, G. H. Conrad and C. E. Nehru)
- Keil, K., "Electron microprobe analyses of minerals from Apollo 16 rake samples:" Spec. Publ. No. 14, UNM Institute of Meteoritics, 1-141, 1976. (Co-authors: E. Dowty, J. A. Green, P. F. Hlava, R. B. Moore, C. E. Nehru, M. Prinz and R. D. Warner)
- Keil, K., "Electron microprobe analyses of olivine, pyroxene, and plagioclase from Apollo 17 rake sample mare basalts:" Spec. Publ. No. 15, UNM Institute of Meteoritics, 1-158, 1976. (Co-authors: R. D. Warner, R. G. Warren, W. L. Mansker and J. L. Berkley)
- Keil, K., "Electron microprobe analyses of spinel, Fe-Ti oxides, and metal from Apollo 17 rake sample mare basalts:" Spec. Publ. No. 16, UNM Institute of Meteoritics, 1-113, 1976. (Co-authors: R. D. Warner, J. L. Berkley, W. L. Mansker and R. G. Warren)

- Keil, K., "Electron microprobe analyses of opaque mineral phases from Apollo 11 basalts:" Spec. Publ. No. 17, UNM Institute of Meteoritics, 1-22, 1976. (Co-authors: C. E. Nehru and R. D. Warner)
- Keil, K., "The origin of chondrules: experimental investigation of metastable liquids in the system Mg_2SiO_4 :" Geochim. Cosmochim. Acta 40, 889-896, 1976. (Co-authors: M. Blander, H. N. Planner, L. S. Nelson and N. L. Richardson)
- Keil, K., "Ultramafic and mafic dredge samples from the equatorial mid-Atlantic Ridge and fracture zones:" J. Geophys. Res. 81, 4087-4103, 1976. Co-authors: M. Prinz, J. A. Green, A. M. Reid, E. Bonatti and J. Honnorez)
- Keil, K., "Argon content of the Martian atmosphere at the Viking 1 landing site: Analysis by X-ray Fluorescence spectroscopy:" Science 193, 804-805, 1976. (Co-authors: B. C. Clark, P. Toulmin, A. K. Baird and H. J. Rose)
- Keil, K., "Catalog of the Meteorite collection of the Institute of Meteoritics at the University of New Mexico, Spec. Publ. No. 18, UNM Institute of Meteoritics, 21 pages, 1976. (Co-authors: D. E. Lange and L. LaPaz)
- Keil, K., "The Kenna ureilite: An ultramafic node with evidence for igneous, metamorphic, and shock origin:" Geochim. Cosmochim. Acta, 19 pages, 1976. (Co-authors: J. L. Berkley, H. G. Brown, N. L. Carter, J. C. Mercier and G. Huss)
- Keil, K., "Composition and origin of Luna 16 aluminous mare basalts:" Proc. 7th Lunar Sci. Conf., Geochim. Cosmochim. Acta, 21 pages, 1976. (Co-authors: G. Kurat, A. Kracher, R. Warner and M. Prinz)

- Keil, K., "Meteorite-free Apollo 15 crystalline KREEP:" Proc. 7th Lunar Sci. Conf., Geochim. Cosmochim. Acta, 12 pages, 1976. (Co-authors: E. Dowty, M. Prinz, J. Gros and H. Takahashi)
- Keil, K., "Consortium investigation of breccia 67435:" Proc. 7th Lunar Sci. Conf., Geochim. Cosmochim. Acta, 24 pages, 1976. (Co-authors: R. D. Warner, H. N. Planner, A. V. Murali, M. S. Ma, R. A. Schmitt, W. D. Ehmann, W. D. James, R. N. Clayton and T. K. Mayeda)
- Keil, K., "Petrology and K-Ar age of volcanic tuff and ash from the Walvis Seamount Province, DSDP Site 359, Leg 39B, 17 pages, 1976. (Co-authors: R. V. Fodor, J. W. Husler, and R. H. McKee)
- Keil, K., "Preliminary results from the Viking X-ray fluorescence experiment: The first sample from Chryse Planitia, Mars:" Science, 4 pages, Oct. 1976. (Co-authors: P. Toulmin, B. C. Clark, A. K. Baird and H. J. Rose)
- Keil, K., "Activated release of alkalis during the vesiculation of molten basalts under high vacuum: implications for lunar volcanism:" Geochim. Cosmochim. Acta 40, 675-686, 1976. (Co-authors: J. L. Gooding and D. M. Muenow)
- Keil, K., "Petrologic Investigation of the Pukele Valley Olivine-melilite nephelinite:" Proc. Geol. Soc. Amer., Regional Meeting, 1976. (Co-authors: W. L. Mansker, J. Husler and G. Bauer)
- Keil, K., "Meteoritic basalts:" Proc. Geol. Soc. Amer., Regional Meeting, 1976.
- Keil, K., "Supercooling of laser-melted silicates: Application to the formation of meteorites:" Proc., 148 Meeting, Electrochemical Society, Dallas, Texas, 1976. (Co-authors: M. Blander, H. N. Planner, L. S. Nelson and N. L. Richardson)

- Keil, K., "Observations of changes in the melting point of 99.999 Y203 in various gases:" Proc., 148th Meeting, Electrochemical Society, Dallas, Texas, 1976. (Co-authors: S. R. Skaggs, L. S. Nelson, N. L. Richardson and H. N. Planner)
- Keil, K., "Petrology of volcanic tuff and breccia from the Walvis Seamount Province and Rio Grande rise, South Atlantic Ocean:" DSDP Leg 39B. Proc., Geol. Soc. Amer. Annual Meeting, 1976. (Co-author: R. V. Fodor)
- Keil, K., "Estudio Mineralogico, petrologico e quimico de meteoritos Brasileiros: Revisao de um programa de pesquisa Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-author: C. B. Gomes)
- Keil, K., "Evidencias de metamorfismo de choque no meteorite Paranaiba:" He. Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: E. Kirchner, C. B. Gomes and J. Nelson)
- Keil, K., "O augita achondrito Angra dos Reis e sua importancia para a origin e historia de seu corpo parental:" Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: C. B. Gomes and W. S. Curvello)
- Keil, K., "The Geological exploration of Mars: The U. S. Viking Program:" Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: A. K. Baird, B. C. Clark, H. J. Rose and P. Toulmin)
- Keil, K., "Meteorite Avanhandava:" SP Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: W. Paar, C. B. Gomes and E. Jarosewich)
- Keil, K., "Meteorito Conquista:" MG Proc. 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: E. Kirchner, C. B. Gomes and R. L. L. Murta)

- Keil, K., "Meteorite Seita Lagoas:" MG Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-author: C. B. Gomes)
- Keil, K., "Meteorito sao Jose do Rio Preto:" SP Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: E. Kirchner, C. B. Gomes and E. Jarosewich)
- Keil, K., "Meteorite Uberaba:" MG Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: C. B. Gomes and E. Jarosewich)
- Keil, K., "Meteorite Patrimonio:" MG Proc., 29th Congress of the Brazilian Geological Society, 1976. (Co-authors: C. B. Gomes, E. Jarosewich and W. S. Curvello)
- Keil, K., "Placitas-Juan Tabo contact metamorphic aureole: Evidence for progressive dynamothermal evolution through time:" Proc., Geol. Soc. America, 1976. (Co-authors: J. L. Berkley and J. F. Callender)
- Keil, K., "Mineralogy and petrology of some ultramafic and mafic dredge samples from the equatorial mid-Atlantic Ridge:" Proc., Amer. Geophys. Union, 1976. (Co-authors: M. Prinz, J. A. Green, A. M. Reid, E. Bonatti and J. Honnorez)
- Keil, K., "The Melrose (b) howardite: A complex meteorite parent body regolith breccia, Proc., Amer. Geophys. Union, 1976. (Co-authors: S. Sibray, P. M. Starzyk, R. A. Schmitt and G. I. Huss)
- Keil, K., "Comparison of meteoritic and lunar breccias and the origin of meteorite parent body regolith breccias:" Proc., Amer. Geophys. Union, 1976.
- Keil, K., "Notes on the chondrites from northeastern New Mexico:" Abstracts, Meteoritical Society Meeting, 1976. (Co-author: D. E. Lange)
- Keil, K., "The Shaw chondrite: Evidence for an igneous origin:" (Co-authors: J. L. Berkley, R. V. Fodor, G. J. Taylor and R. M. Fruland)

Albert M. Kudo:

- Kudo, A. M., "Major-element variations of late Cenozoic basalts of New Mexico: in Cenozoic volcanism in Southwestern New Mexico:" N. M. Geol. Soc. Special Publication No. 5, p. 82-88. (Co-author: K. Aoki)
- Kudo, A. M., "Maare and tuff rings of New Mexico: in Tectonics and Mineral Resources of Southwestern North America:" N. M. Geol. Soc. Special Publication No. 6, p. 109-114. (Co-authors: J. C. Aubele, L. S. Crumpler and K. N. Loeber)
- Kudo, A. M., "Guidebook to Albuquerque Basin of the Rio Grande Rift, New Mexico:" N. M. Bureau of Mines and Min. Res., Circular 153, 31 p. (Co-authors: V. C. Kelley, L. A. Woodward and J. F. Callender) --
- Kudo, A. M., "A review of the volcanic history and stratigraphy of Northeastern New Mexico:" N. M. Geol. Soc. Guidebook, 27th Field Conference, Vermejo Park, p. 109-110)
- Kudo, A. M., "Dacites of Bunsen Peak, the Birch Hills, and the Washakie Needles, Northwestern Wyoming, and their relationship to the Absaroka Volcanic Province, Wyoming-Montana:" Geol. Soc. America Bull., v. 87, p. 1455-1462. (Co-authors: L. L. Love and D. W. Love)
- Kudo, A. M., "Volcanoes and related basalts of the Albuquerque Basin, New Mexico:" N. M. Bur. of Mines and Min. Res., Circular, in press. (Co-author: V. C. Kelley)
- Kudo, A. M., "K-Ar ages of basalt flows at Canjilon Hill, Isleta Volcano, and the Cat Hills Volcanic Field, Albuquerque-Belen Basin, New Mexico: Isochron/West:" (Co-authors: V. C. Kelley, P. E. Damon and M. Shafiqullah)

- Kudo, A. M., "Volcanism within the Rio Grande Rift:" Geol. Soc. America Abstracts with Programs, v. 8, no. 5, p. 597.
- Kudo, A. M., "The Crandall Plutons, Coarse-grained equivalents of Shoshonite-Absarokites, Park County, Wyoming:" Trans. Amer. Geophys. Union, v. 57, no. 12, p. 1018. (Co-author: D. E. Broxton)
- Kudo, A. M., "Calc-alkaline Andesites within the Rio Grande Rift:" Trans. Amer. Geophys. Union, v. 57, no. 12, p. 1021. (Co-authors: J. A. Kasten, S. L. Bolivar and D. G. Brookins)
- Barry S. Kues:
- Kues, B. S., "Silurian reef complex, Rockford, Ohio: Constitution, growth, and significance:" Amer. Assoc. Petrol. Geologists Bull., v. 60, p. 428-451. (with Indiana Univ. Paleontology Seminar)
- Kues, B. S., "Paleontological resource assessment of 500,000 acres in the Rio Puerco Grazing Environmental Impact Study Area of New Mexico:" Open file report, U. S. Bureau of Land Management, Albuquerque, New Mexico, 66 p., (Co-authors: J. W. Froelich, S. G. Lucas and R. K. Olmo).
- Kues, B. S., "Paleontology and stratigraphy of the Red Tanks Member, Madera Formation (Pennsylvanian) near Lucero Mesa, New Mexico:" in Woodward, L. A. & Northrop, S. A. (eds.) Tectonics and mineral resources of southwestern North America -- a volume honoring Vincent Kelley: New Mexico Geol. Soc. Spec. Publ. 6, p. 102-108. (Co-author: K. K. Kietzke)
- Kues, B. S., "Guidebook of Vermejo Park, northeastern New Mexico:" New Mexico Geol. Soc. Guidebook, 27th Field Conference, 303 p. (edited, with R. C. Ewing)

- Kues, B. S., "Control of mudcrack patterns by the infaunal bivalve Pseudocyrena." Jour. Sed. Petrology, v. 47, p. 844-848. (Co-author: C. T. Siemers)
- Kues, B. S., "Osha Canyon Formation (Pennsylvanian), a new unit of Morrowan age in north-central New Mexico:" Amer. Assoc. Petrol. Geologists Bull., v. 61, in press. (Co-authors: H. DuChene and L. A. Woodward)
- Kues, B. S., "Polyplacophora from the Salem Limestone (Mississippian) in central Indiana:" Jour. Paleontology, in press.
- Gary P. Landis:
- Landis, G. P., "H₂S and SO₂ detected in fluid inclusions:" (abstr.), submitted for Annual Mtg., Geol. Soc. Amer., Denver, 1976. (Co-authors: D. I. Norman and F. J. Sawkins)
- Landis, G. P., "Post-Devonian Diatremes in Southeast Missouri:" Investigation of the Avon Kimberlite and some emplacement parameters, Western Am. Geophys. Union Mtg. Abstr. (Co-authors: W. L. Mansker, D. G. Brookins and J. W. Husler)
- Landis, G. P., "Evaluation of Geothermal Potential of the Basin and Range Province of New Mexico:" semi-annual report (6/27/75-12/31/75) USGS grant #14-08-0001-G-255. (Co-authors J. F. Callender and G. R. Jiracek)
- Landis, G. P., "Evaluation of Geothermal Potential of the Basin and Range Province of New Mexico:" Final Technical Report (6/27/75-6/27/76). USGS grant #14-08-0001-G-255.
- Landis, G. P., "Quartz-wolframite oxygen isotope geothermometry and implications for the geochemistry of tungsten hydrothermal transport and deposition:" in preparation for Geochimica et Cosmochimica Acta.

Landis, G. P., "Light Wolframite," A correlation of wolframite density to H_2O and CO_2 content contained in fluid inclusions:" in preparation for Canadian Mineralogist.

Landis, G. P., "Age of mineralization, Pasto Bueno Tungsten - Base metal ore deposit, Northern Peru:" in preparation for Economic Geology.
(Co-authors: J. Obradovich and C. Naeser)

Landis, G. P., "Fluid inclusion gas analysis and fluid chemistry, Pasto Bueno, Peru:" in preparation for Economic Geology (Co-authors: possibly with D. Norman and C. Barker)

Stephen G. Wells:

Wells, S. G., "Sinkhole Plain Evolution in the Central Kentucky Karst:" Nat. Speleological Soc. Bull., 1976, v. 38, no. 4, pp. 103-106.

Lee A. Woodward:

Woodward, L. A., "Structural framework of Rio Grande rift, New Mexico and Colorado:" Geol. Soc. Am. Abs. w. Prog., v. 8, no. 5, p. 573.
(Co-authors: J. F. Callender and V. C. Kelley)

Woodward, L. A., "Geology of San Ysidro quadrangle, New Mexico:" New Mexico Bur. of Mines and Min. Res., Geol. Map 37 (with an accompanying text). (Co-author: R. L. Ruetschilling)

Woodward, L. A., "Guidebook to Albuquerque Basin of the Rio Grande rift, New Mexico:" New Mex. Bur. of Mines and Min. Res., Circular 153, 30 p. (Co-authors: V. C. Kelley, A. M. Kudo and J. F. Callender)

Woodward, L. A., "Tectonics and mineral resources of southwestern North America - a volume honoring Vincent C. Kelley:" New Mex. Geol. Soc. Spec. Pub. No. 6, 218 p. (Co-author: S. A. Northrop)

Woodward, L. A., "Foreword:" New Mex. Geol. Soc. Spec. Pub. No. 6, p. v. (Co-author: S. A. Northrop)

- Woodward, L. A., "Laramide deformation of Rocky Mountain foreland: geometry and mechanics:" New Mex. Geol. Soc. Spec. Pub. No. 6, p. 11-17.
- Woodward, L. A., "Structural framework on the southern Raton Basin, New Mexico:" New Mex. Geol. Soc. 27th Guidebook, Vermejo Park, p. 125-127. (Co-author: D. O. Snyder)
- Woodward, L. A., "Tectonic map of the southern Raton Basin, New Mexico:" New Mex. Geol. Soc. 27th Guidebook, Vermejo Park, in pocket. (Co-author: D. O. Snyder)
- Woodward, L. A., "Stratigraphy of younger Precambrian rocks along Cordilleran hingeline, Utah and Southern Idaho:" Rocky Mountain Assoc. Geologists Guidebook, Geology of the Cordilleran Hingeline.
- Woodward, L. A., "Geology of Gallina quadrangle, Rio Arriba County, New Mexico (with an accompanying text):" New Mex. Bur. Mines and Min. Res. Geologic Map. (Co-authors: G. G. Gibson and D. McLelland)

5. Other research projects or creative work in progress or completed during period.

Roger Y. Anderson:

NSF Research Grant EAR75-22359 "A remote sampling approach to the investigation of geologic and climatic processes" one-year, \$15,000, total grant amount \$34,900.

Lake Powell Project (with Loren Potter) Seasonal relationships in Lake Powell core samples: UNM Geology Dept. Student Aid support.

Re-interpretation of the San Augustin plains core (with Austin Long, Univ. of Arizona).

Climatic-solution history of the Delaware Basin, Texas and New Mexico: Preliminary research preparatory to pending contract with Sandia Labs.

Deep-ocean sedimentation in the Bering Sea (with W. E. Dean, U. S. Geological Survey): Development of deep-ocean automated sediment collectors.

Douglas G. Brookins:

"Uranium Deposits of the Grants, New Mexico Mineral Belt" (1975-1978; \$135,000; USERDA)

"Pilot Studies for National Uranium Resources Evaluation" (1975-1977; two grants; \$140,000, Los Alamos Scientific Laboratory)

"Kimberlites and Other Ultramafic Rocks of Midcontinental U.S.A." (1975-1976; \$43,500; NSF)

"Geothermal Resources of New Mexico" (1975-1977; three grants, N. M. with U.S.G.S., \$170,000; one of eight principal investigators).

"Geochronology of the Zuni Mountains" (UNM RAC, \$1,500, 1976).

"Radioactive waste disposal studies: 1. Oklo, Gabon fossil nuclear reactor (unfunded), 2. Evaluation of geochemical criteria for shales versus bedded salt deposits (proposal pending).

"Uranium Abundances in Precambrian rocks of New Mexico (unfunded), basic geochronologic and strontium isotopic studies (unfunded).

Jonathan F. Callender:

Evaluation of geothermal potential of the Basin and Range Province of New Mexico: New Mexico Energy Research and Development Grant, 1/1/76 to 12/31/77, \$209,163 (2 yrs.) (with D. G. Brookins, W. E. Elston, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg and L. A. Woodward)

Evaluation of geothermal potential of the Basin and Range Province of New Mexico: U. S. Geological Survey Extramural Geothermal Research Program Grant #14-08-0001-E-225, 7/1/76 to 6/30/77, \$140,846 (with D. G. Brookins, W. E. Elston, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg and L. A. Woodward)

Fabric studies on undeformed and deformed rock salt: Sandia Laboratories Grant #02-8857, 7/1/75 to 10/31/76, \$19,969.

Fabric and permeability studies on undeformed and deformed rock salt: Sandia Laboratories Grant #02-8857 (extension, 10/31/76 to 9/30/76, \$14,995 (pending).

Joints in Dakota sandstone and their relation to regional stress patterns and reservoir porosity: New Mexico Geological Society Guidebook, 28th Field Conference, 1977. (Co-authors: F. Gorham and L. A. Woodward)

Tectonics and development of northern part Rio Grande rift, New Mexico and Colorado: Geological Society of America, Abs. w. Programs, V. 9, in press, 1977. (Co-author: L. A. Woodward)

Contact metamorphism near the Sandia pluton, central New Mexico:
Geological Society of America Bulletin, 1977. (Co-author: J. L. Berkley)

The Rio Grande rift and its relation to models of evolution of Basin
and Range province: Geology, 1977. (Co-author: R. Livaccari)

Fabrics in undeformed and experimentally deformed halite: Geological
Society of America Bulletin, 1977. (Co-author: W. R. Wawersik)

Melanges and their bearing on environments of subduction: Geology,
1977.

Geology of the York Mountain area, central Coast Ranges, California:
Geological Society of America Bulletin, 1977.

Frederick R. Dowsett, Jr.:

Computer simulation modelling of fractional crystallization in
layered mafic and ultramafic intrusions. Statistical analysis of alkali
feldspars from volcanic and shallow intrusive igneous rocks.

Wolfgang E. Elston:

Principal Investigator, NASA grant NGR 32-004-032, Supplement No. 8,
Mars: Search for evidence of dynamic processes, January 1 to December 31,
1976, \$20,950.

Principal Investigator, NASA grant NGL 32-004-011, Volcanological
approach to the interpretation of lunar features, June 1, 1974-May 31,
1977, \$50,000.

Principal Investigator, NASA grant NSG-7066, Geological interpretation
of lunar probe photography, September 1974 to January 31, 1976, \$11,690.

Co-investigator, New Mexico Energy Research and Development Program Grant 104, Application of volcanology to petroleum exploration in southwestern New Mexico, January 15, 1976 to January 14, 1977, \$51,250.
Co-investigator: Samuel Thompson III, N. Mex. Bureau of Mines and Mineral Resources.

Co-investigator, U. S. Geological Survey Geothermal Program grant 14-08-001-G-255, Evaluation of geothermal potential of the Basin and Range province of New Mexico, June 28, 1975 to June 27, 1977, \$282,122.
Co-investigators: D. G. Brookins, J. F. Callender, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, L. A. Woodward.

Co-investigator, New Mexico Energy Research and Development Program grant 75-117, Evaluation of geothermal potential of the Basin and Range province of New Mexico, January 1, 1976 to December 31, 1976, \$103,235.
Co-investigators: D. G. Brookins, J. F. Callender, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, L. A. Woodward.

UNM Research Allocation grant for typing of manuscripts for New Mexico Geological Society Special Publication No. 5 and for literature survey of possible configuration of late Paleozoic plates and spreading centers from distribution of volcanic rocks, March 3-June 15, 1976, \$455.

Un-sponsored research: World-wide distribution of ring dikes and related confocal subvolcanic complexes. Relationship of ore deposits to Cenozoic centers, southwestern New Mexico.

Rodney C. Ewing:

Texture and fabric of fine-grained sedimentary rocks (Sandia Corp., \$25,000).

"Symmetry in Minerals" manuscript in preparation for Natural History Magazine of the American Museum of Natural History.

Raymond V. Ingersoll:

Further investigation of Neogene sand from the Nicobar and Bengal Fans; Guidebook for the Cordilleran section meeting of the Geological Society of America, 1977, (Fieldtrip to the Great Valley Sequence of California); 3 papers in preparation on different aspects of my Ph.D. dissertation; continuing study of circum-Pacific arc-trench systems; new staining methods for the recognition of feldspars; sandstone petrology of the Santa Fe Formation, Rio Grande Rift.

George R. Jiracek:

Principal investigator, National Science Foundation Grant GI-42835, Deep electrical resistivity investigations coupled with dry geothermal reservoir experiments in New Mexico. \$49,600, 4/1/74 to 3/31/75; renewal (with R. J. Phillips, Jet Propulsion Laboratory), Grant AER75-20188, \$76,700, 9/1/75 to 2/28/77.

Co-principal investigator with D. G. Brookins, J. F. Callender, W. E. Elston, A. M. Kudo, G. P. Landis, C. A. Swanberg, and L. A. Woodward; U. S. Geological Survey Grant #14-08-0001-E-255, Evaluation of Geothermal Potential of the Basin and Range Province of New Mexico, \$149,843, 6/27/75 to 6/26/76; \$140,846, 6/27/76 to 6/26/77.

Co-principal investigator with D. G. Brookins, J. F. Callender, W. E. Elston, A. M. Kudo, G. P. Landis, C. A. Swanberg and L. A. Woodward; New Mexico Energy Research Development Program Grant UNM #117-69-B, Evaluation of Geothermal Potential of the Basin and Range Province of New Mexico, \$105,928, 1/1/76 to 12/31/76.

Klaus Keil:

Research Grant from NASA Langley Research Center, Hampton, Virginia, entitled "X-ray fluorescence analysis of Marsian soil during the 1975-1976 U. S. Viking Unmanned Landing on Mars." July 1, 1972-March 31, 1977, \$75,464.

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy and chemistry of polymict-brecciated stone meteorites." June 1, 1973-May 31, 1976, \$87,693.

Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1974-January 31, 1977, \$165,436.

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology and chemistry of polymict-brecciated stone meteorites." June 1, 1974-May 31, 1977, \$91,475.

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology and chemistry of brecciated stone meteorites: Impact and igneous histories of meteorite parent bodies." June 1, 1975-February 29, 1976, \$78,700.

Research Grant from NASA L. B. Johnson Space Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1975-Jan. 31, 1978, \$184,772.

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites." March 1, 1976-February 28, 1979, \$153,490.

Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites." Mar. 1, 1976-Feb. 28, 1978, \$67,041.

Research Grant from NASA L. B. Johnson Space Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Mar. 1, 1976-Jan. 31, 1979, \$184,772.

Albert M. Kudo:

Research on NMERDB and USGS Geothermal Grants

Research in Wyoming

Barry S. Kues:

"Invertebrate fauna of the uppermost Pennsylvanian Red Tanks Member, Madera Formation, in central New Mexico. Part I. Gastropods and Scaphopods" (Manuscript in preparation)

"Paleontology and stratigraphy of the Oketo Shale Member (Barneston Limestone, Lower Permian) of Kansas and Nebraska" (Manuscript in preparation)

"The geobiologic significance of the echinoid Echinometra as an agent of bioerosion in the southern Florida Keys" (with C. T. Siemers) (in prep.)

"A diverse Desmoinesian (Pennsylvanian) gastropod assemblage from the Sangre de Cristo Mountains, north-central New Mexico" (in preparation)

"A new Upper Pennsylvanian eurypterid from the Lucero Uplift, central New Mexico" (with K. K. Kietzke) (Manuscript in preparation)

Studies of brachiopods, bivalves, and cephalopods of the Red Tanks Member, Madera Formation, central New Mexico.

Studies of the texture, fabric, and composition of fine-grained sedimentary rocks in New Mexico (with R. C. Ewing and T. Skeryanc; S.U.R.P. Grant renewed for second year, 1976-77, \$25,000).

Brachiopods and Molluscs of the Morrowan (Lower Pennsylvanian) Osha Canyon Formation, north-central New Mexico.

Invertebrate fossils as natural resources; an inquiry into the effects of land use and land protection on fossil resources.

Gary P. Landis:

Stable isotope lab operational as of Fall, 1976.

Stable Isotope geochemistry of Los Alamos Dry Rock Geothermal Test Experiment, LASL contract, \$4,500.

Water in magmas and water-magma interaction, Sandia Laboratories, renewal, \$15,500.

Oxygen Isotope Geochemistry and Geothermal Energy Potential in New Mexico, NMERDP, \$18,600.

Evaluation of Geothermal Potential of the Basin and Range Province of New Mexico: U. S. Geological Survey Extramural Research Program; P. I. and project administrator with seven other co-investigators (projected two-three year program), first year U.S.G.S., \$149,843.

Geothermal Energy, second year NMERDP 1976-77, \$105,928.

Geothermal Energy, second year U.S.G.S., \$140,846.

A new technique for fluorination of oxygen isotope samples using specially purified fluorine gas.

Geochemistry of sedimentary uranium deposits; systematics of sulfur, carbon, and oxygen isotopes as further evidence for chemical conditions of uranium transport and deposition indicated by clay mineral equilibria, with R. Della Valle, Ph.D.

Evolution of volcanic caldera: an in-depth study of water-magma interaction and of modeling physical and chemical mechanisms. This work is a logical extension to 25 years of work in the Mogollon-Datil volcanic rocks of New Mexico by W. E. Elston and his students. NSF support will be requested for this work.

Geochemistry as it pertains to nuclear waste disposal site selection and evaluation, Eddy County, New Mexico; science advisory panel and consultant for Sandia Laboratories (ERDA).

Metamorphic fluids; a case history from the Placitas - Juan Tabo contact metamorphic aureole, Sandia mountains of New Mexico, with J. L. Berkley, J. F. Callender, and K. Keil. A comprehensive examination of metamorphic reactions, phase equilibria, trace element and isotope partitioning during dynamothermal metamorphism (chlorite - biotite/andalusite - sillimanite/K-feldspar).

Geology and geochemistry of skarn mineralization at the San Pedro mine, San Pedro Mountains, New Mexico: Computer modeling of solution fluids based upon input from geologic, fluid inclusion, stable isotope, and other geochemical studies, with M. Fulp (M.S. - Ph.D.)

Geology, ore petrography, and stable isotopes of the Precambrian Terrero massive sulfide orebody. Pecos, New Mexico; with W. D. Riesmeyer (M.S.)

Geology, mineralogy, and geochemistry of a Tertiary fossil-geothermal system of possible acid-sulfate vapor dominated character, Alum Mountain, Gila Wilderness, New Mexico; with H. R. Northrop (M.S.)

Orbicular granite textures in the Precambrian intrusion of the Sandia Mountains, New Mexico; stable isotope evidence for origin.

^{36}S distribution in natural and experimentally synthesized sulfide phases, an improved sulfur isotope geothermometer. (Technique uses SF_6 and a triple collecting $12'' - 90^\circ$ RMS mass spectrometer. The flight tube and special source and collector of this mass spectrometer were designed and built while at the U. S. Geological Survey laboratories in Denver. This equipment, valued at about \$20,000 has been obtained as surplus property. In addition, a tandem (dual) $12'' 90^\circ$ mass spectrometer valued in excess of \$100,000 was obtained from LASL through cooperative efforts with Prof. D. G. Brookins. This equipment will be made operational as time and money permit, in order to continue this project).

Carbon and oxygen isotope studies of contact metamorphic effects on potential petroleum reservoirs, a possible exploration tool.

Pleistocene and Glacial geology, and paleoclimatology of the Sangre de Cristo Range, New Mexico.

Paleoclimatology studies of Southwest utilizing geochemistry and geomorphology (with S. Wells).

Geology of the Precambrian rocks, Sangre de Cristo Range, New Mexico (with J. F. Callender, R. C. Ewing, W. D. Reismeyer). Specifically this study will investigate the tectonic basin environment represented by the suite of metavolcanic rocks exposed to the south, and the meta-sedimentary rocks to the north. Igneous intrusive events, metamorphism, mineralization, and tectonic processes will be associated investigations.

Lee A. Woodward:

Grant for \$105,928 from New Mexico Energy Research and Development board for Jan. 1-Dec. 31, 1976 to investigate geothermal potential of the Basin and Range Province of New Mexico (co-investigator).

Grant for \$149,843 from U. S. Geological Survey Extramural Geothermal Research Program Grant #14-08-0001-E-255, for July 1, 1975 to June 30, 1976 to investigate geothermal potential of the Rio Grande rift, New Mexico (co-investigator).

Grant for \$140,846 from U. S. Geological Survey July 1, 1976 to June 30, 1977. Grant #14-08-0001-G-348 "Evaluation of geothermal potential of the Basin and Range Province of New Mexico" (co-investigator).

6. Activities in learned and professional societies:

Roger Y. Anderson:

Annual Meeting, Cordilleran Section, Geological Society of America,
Albuquerque, New Mexico, 1976

Annual Meeting, Geological Society of America, Denver, Colorado, 1976

Member, Geological Society of America

New Member, American Association for the Advancement of Science

Douglas G. Brookins:

Penrose Conference in Helen, Georgia on "Geochronology of Metamorphic Rocks," invited speaker, two talks: "An Overview of the Rb-Sr Geochronologic Method," "The Rb-Sr Systematics of Precambrian Core from the Los Alamos Scientific Laboratory Hot Dry Rock Program, Hole GT-2."

American Geophysical Union, Annual Meeting, Washington, D.C.,
April: three papers.

Joint U. S. Geological Survey: Maine Geological Society Workshop on Geology of Maine, Reston, Virginia, April: "New Geochronologic Dates from Coastal Maine."

Rocky Mountain Section, Geological Society of America, Albuquerque, New Mexico, May: Field trip leader for 'The Grants Mineral Belt,' two papers.

EPA, ERDA and NRC Workshop on Radioactive Waste Management, Santa Fe, New Mexico, June: one paper: "Geochemistry of the Oklo Fossil Nuclear Reactor."

Attended the International Symposium on Radioactive Waste Management, Denver, Colorado, July.

Mid-western annual meeting of the American Geophysical Union, Ann Arbor, Michigan, October, six papers."

National meeting of the Geological Society of America, Denver, Colorado, November: two papers."

Rocky Mountain Section, American Association of Petroleum Geologists, Billings, Montana: invited paper: "The Oklo Uranium Deposit, Geology and Geochemistry," March; joint Wyoming Geological Society - American Institute of Mining, Metallurgical and Geological Engineers, invited talk, April: "The Meaning of the Oklo Fossil Nuclear Reactor to the Problem of Radioactive Waste Disposal."

American Association of Earth Science Editors, UNM, October: "Geology at UNM."

New Mexico Institute of Chemists; Honor Schroll Committee.

Editorial Staff for Geology.

Editorial Staff for Colorado School of Mines Quarterly Journal.

Jonathan F. Callender:

Vice President and President-elect, New Mexico Geological Society

Vice Chairman, Geological Society of America, Rocky Mountain Section

Field trip chairman, Geological Society of America, Rocky Mountain Section

Publications committee, New Mexico Geological Society

Frederick R. Dowsett, Jr.:

Geological Society of America, Rocky Mountain Section Meeting,
May 20-21.

New Mexico Geological Society Field Conference, Vermejo Park,
September 30 - October 2.

Geological Society of America Annual Meeting, November 8 - 11.

Wolfgang B. Elston:

President, Southwest Section, National Association of Geology Teachers, November 1, 1975 to October 31, 1976. Organized and chaired annual meeting in Albuquerque, May 20, 1976; chaired selection committee for 1976 Best Earth Science Teacher for New Mexico; chaired nominating committee for officers of Southwest Section for 1976-77; arranged NAGT exhibit at 1976 Annual Meeting of Geological Society of America.

Invited participant, Planetology Program Principal Investigators Conference, Flagstaff, Arizona, March 8-10, 1976. Read paper on "Influence of tectonic setting composition and erosion on basaltic landforms, New Mexico and Mars," (with Jayne Aubele, Lawrence S. Crumpler, and Dean B. Eppler). Arranged for participation in Viking Mars Mission at Jet Propulsion Laboratory of two graduate students, L. S. Crumpler and Jayne Aubele.

Invited participant in Maurice Ewing Symposium "Problems in the Evolution of Island Arcs, Deep Sea Trenches, and Back-Arc Basins," Lamont-Doherty Geological Observators, Columbia University, Arden House, Harriman, N. Y., March 28-31, 1976.

Invited participant, Mars Penetrator Planning Conference, Sandia Laboratories and NASA-Ames Research Center, Albuquerque, N. Mex., April 28-30, 1976.

Convened 1 1/2-day symposium on Ash-flow tuffs, 16 years after Smith (1960), for annual meeting of Rocky Mountain Section, Geological Society of America, May 20-21, 1976 (co-convenor: Charles E. Chapin, N. M. Bureau of Mines and Mineral Resources). Read paper on "Mid-Tertiary Volcanism and Plutonism, Southwestern New Mexico." Organized

and led 3-day field trip to Mogollon-Datil volcanic field, May 22-24, 1976 (co-organizer: C. E. Chapin; co-leaders: C. E. Chapin, R. E. Clemons, N. M. State University; E. G. Deal, Eastern Kentucky University; J. C. Ratte, U. S. Geological Survey; W. R. Seager, N. M. State Univ.)

Invited participant in U. S. Geological Survey San Francisco Volcanic Field Conference, June 7-10, 1976. Read paper "Basaltic Volcanism in Western New Mexico."

Attended New Mexico Geological Society 27th Annual Field Conference, Vermejo Park and vicinity, September 30 to October 2, 1976.

Attended annual meeting Geological Society of America, Denver, Colorado, November 8-11, 1976.

Rodney C. Ewing:

Registration chairman for Rocky Mountain Section, Geological Society of America meeting in Albuquerque, N. Mex., May 20-21, 1976.

Co-editor of New Mexico Geological Society Vermejo Park Guidebook

Attended Friends of Mineralogy - MSA meeting in Tucson, Arizona, February 15-17, 1976.

Attended Geological Society of America meeting in Denver, November 8-12, 1976)

Attended AGU in San Francisco, California (December 6-10, 1976)

Attended New Mexico Geological Society field conference, October 1-2, 1976.

Invited speaker at ERDA sponsored symposia on "Glass and Crystalline Ceramic Radioactive Waste Forms" (Jan. 4-5, 1977).

Raymond V. Ingersoll:

Attended Geological Society of America Rocky Mountain Section Meeting, Albuquerque, N. M.

Attended Geological Society of America Cordilleran Section, Pullman, Washington.

Attended AAPG-SEPM Pacific Section, San Francisco, California

Attended Ewing Symposium, Harriman, N.Y.

Attended New Mexico Geological Society Annual field trip to Vermejo Park, New Mexico.

Attended Geological Society of America Annual Meeting, Denver, Colorado.

Read Professional papers at all meetings attended, except New Mexico Geological Society.

New Mexico Coordinator and Program Committee Member for Rocky Mountain Section of AAPG and SEPM.

George R. Jiracek:

Member, Mining & Geothermal Committees of Society of Exploration Geophysicists.

Vice President, Albuquerque Geological Society.

Co-Chairman, Geothermal Session of Society of Exploration Geophysicists meeting, 10/28/76, Houston, Texas.

American Geophysical Union Spring Annual Meeting, April 12-16, 1976, Washington, D. C.

Conference on Exploration for Geothermal Reservoirs, May 4-5, 1976,
Golden, Colorado.

Los Alamos Scientific Laboratory Workshop on Geophysical Exploration
for Dry Hot Rock, June 22, 1976, Los Alamos, New Mexico.

Society of Exploration Geophysicists 46th Annual International Meeting,
October 24-28, 1976, Houston, Texas.

Workshop on Evaluation of Electrical Methods in the Geothermal
Environment, by invitation only - expenses paid workshop, November 5-7,
1976, Snowbird, Utah.

Geological Society of America Annual Meeting, November 9, 1976,
Denver, Colorado.

American Geophysical Union Fall Annual Meeting, December 6-10, 1976,
San Francisco, California.

Klaus Keil:

Secretary, Commission on Meteorites, International Union of Geological
Sciences.

Secretary, Commission on Cosmic Mineralogy, International Mineralogical
Association.

Secretary, International Association for Geochemistry and Cosmochemistry.

Member, Leonard Medal Committee, Meteoritical Society.

Chairman, U. S. National Committee for Geochemistry, National Academy
of Sciences.

Ex-officio member, Subcommittee on the Geochemical Environment in Relation to Health and Disease, U. S. National Committee for Geochemistry, National Academy of Sciences.

Member, Editorial Board, Journal "Chemical Geology".

Member, Geophysics Research Board, National Academy of Sciences, Washington, D. C.

Member, Lunar Sample Analysis Planning Team, Johnson Space Center, Houston, Texas.

Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado.

Member, Committee on Public Education and Information, Mineralogical Society of America.

Member, Editorial Board, Lunar Science Studies, NASA, Houston, Texas.

Chairman, Facilities Subcommittee, Lunar Sample Analysis Planning Team, NASA, Johnson Space Center, Houston, Texas.

Co-chairman, Organizing Committee, Symposium on "Interrelationships among meteoritic and lunar breccias". Western AGU meeting, Jac Tar Hotel, San Francisco, California.

Vice-chairman, Lunar Sample Analysis Planning Team (LSAPT) NASA Johnson Space Center, Houston, Texas.

Named "Correspondent Member of the Natural History Museum, Vienna", by the Minister of Education and Science of the Republic of Austria, and the Director of the Museum.

Member, Viking Mars Flight Team, Jet Propulsion Laboratory, Pasadena, California.

San Antonio, Texas. Chaired meeting of the Facilities Subcommittee, Lunar Sample Analysis Planning Team (LSAPT), January 18-20, 1976.

San Antonio, Texas. Chaired meeting of the Facilities Subcommittee, Lunas Sample Analysis Planning Team (LSAPT), February 5, 1976.

Houston, Texas. Lunar Sample Analysis Planning Team (LSAPT), NASA-Johnson Space Center, February 6-8, 1976.

Pasadena, California. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory. February 26 - March 1, 1976.

Houston, Texas. Chaired Facilities Subcommittee meeting, Lunar Sample Analysis Planning Team (LSAPT), NASA Johnson Space Center, Houston, Texas, March 12-14, 1976.

Houston, Texas. Seventh Annual Lunar Science Conference, NASA Johnson Space Center, Houston, Texas March 15-18, 1976.

Pasadena, California. Viking Flight to Mars, uplink training session, Jet Propulsion Laboratory, April 12-14, 1976.

Houston, Texas. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting L. B. Johnson Space Center, Houston, Texas, April 29 - May 2, 1976.

Pasadena, California. Viking Flight to Mars, uplink exercise, Jet Propulsion Laboratory, May 23-26, 1976.

Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, June 1-19, 1976.

Houston, Texas. Chaired Lunar Sample Analysis Planning Team (LSAPT) meeting, NASA Johnson Space Center, June 20-24, 1976.

Pasadena, California. Viking Flight to Mars, Jet Propulsion Laboratory, June 25-30, 1976.

Lehigh Pennsylvania. Meteoritical Society Meeting, Lehigh University, October 20-21, 1976.

Albert M. Kudo:

Program Chairman, Annual Meeting, Rocky Mountain Section, Geological Society of America.

Read paper at Annual Meeting, Rocky Mountain Section, Geological Society of America.

Read paper at Annual Meeting, American Geophysics Union.

Attended Field Conference, New Mexico Geological Society, at Vermejo Park.

Barry S. Kues:

Finance Chairman, Geological Society of America, Rocky Mountain Section Meeting, May, 1976.

Co-editor, New Mexico Geological Society Field Conference 27 Guidebook.

Attended New Mexico Geological Society Annual Field Conference, September, 1976.

Publications Committee, New Mexico Geological Society, 1976-77.

Gary P. Landis:

Program Co-chairman, Geological Society of America, Rocky Mountain Section Meeting, May, 1976, Albuquerque, NM.

Co-author on paper (Norman, Landis, and Sawkins, 1976), Geological Society of America Annual Meeting, October 6-10, 1976, Denver, CO.

Stephen G. Wells:

Attended New Mexico Geological Society Field Trip to Vermejo Park, New Mexico, October, 1976.

Attended Annual Meeting of Geological Society of America, Denver, Colorado, November, 1976.

Elected to Board of Directors and elected as Chief Scientist of the Cave Research Foundation, November 1976.

Lee A. Woodward:

Selected for membership in Association of Earth Science Editors.

Co-chairman for 1976 Annual Meeting of the Association of Earth Sciences Editors, October 17-20, 1976, Albuquerque, Sheraton Inn.

Chairman, Rocky Mountain Section of Geological Society of America Annual Meeting, May 19-23, 1976, UNM campus.

Co-author of paper "Structural framework of Rio Grande rift, New Mexico and Colorado;" read at Geological Society of America meeting in Albuquerque, May 20, 1976.

Attended Geological Society of America Penrose Conference on "Late orogenic sedimentation and tectonism" in Banff, Alberta, April 4-8, 1976.

Field trip leader, October 19, 1976, Association of Earth Science Editors Annual Meeting.

7. Other professional activities:

Roger Y. Anderson:

Member, Site Selection Peer Review Panel, ERDA, W.I.P.P. (Nuclear Waste Isolation Pilot Plant), Sandia Laboratories.

Consultant, Sandia Laboratories (W.I.P.P. Project). Geologic evaluation of Delaware Basin evaporites.

Consultant, C. R. Reynolds, Microfossil analysis of core samples.

Feb., 1976, Review of NSF proposal "Magnetic Stratigraphy of continental deposits in the San Juan Basin, New Mexico and adjacent areas" by E. H. Lindsay & R. F. Butler.

Aug., 1976, Review of manuscript for Limnology & Oceanography "An inexpensive, easily constructed sediment trap" by E. R. Long et al.

Aug., 1976, Review of Petroleum Research Fund (Am. Chem. Soc.) proposal: by T. R. Worsley (Calcareous nannoplankton).

Mar., 1976, As above, for S. J. Mazullo on geochemistry of continental sabkhas.

Nov., 1976, As above, for William W. Hay on quantitative stratigraphic correlation using calcareous nannoplankton.

Douglas G. Brookins:

Department of Physics and Astronomy Colloquium, January: "Oklo: A Fossil Nuclear Reactor."

Sandia Laboratories Colloquium: "Radioactive Waste Disposal Studies: the Data from Oklo," February.

Invited participant in many short workshops and seminars on radioactive waste disposal at the Los Alamos Scientific Laboratory.

Consultant: Sandia Laboratories.

Visiting Staff Member, Los Alamos Scientific Laboratory.

Review proposals for NSF, NASA, Lunar Research Inst., American Chemical Society.

Reviewed papers for Geology, Economic Geology, Earth & Planetary Science Letters, Geol. Soc. Amer. Bull., Geochimica et Cosmochimica Acta, New Mexico Geological Society.

Talk on Geology at Onate Elementary School, May.

Geology Departmental Colloquium: "Oklo: Applications to Radioactive Waste Disposal Problems", Dec.

Jonathan F. Callender:

Consultant, Sandia Laboratories

Project Correspondent, U. S. Geodynamics Committee

Visiting Staff Scientist, Los Alamos Scientific Laboratories

Voice of America Interview; interviews for Albuquerque newspapers

Wolfgang E. Elston:

Invited colloquium speaker on "Mid-Tertiary Volcanism, Plutonism, Tectonism, and Mineralization, Southwestern New Mexico," Univ. of Texas-El Paso, October 27, 1976; New Mexico State University, October 28, 1976.

Led student field trip to Meteor Crater, Hopi-Buttes, Gallup-Grants area, March 23-25, 1976.

Led student field trip to mines and geology of southwestern New Mexico, October 15-17, 1976.

Field conference with personnel of U. S. Geological Survey, Lordsburg area, October 21-23, 1976.

Field trip to volcanic areas of southwestern New Mexico with Professor Christoffer Oftedahl, Technical University of Trondheim (Norway), November 19-21, 1976.

Member, Commission 17 (The Moon) of International Astronomical Union, contributed to draft report of Working Group 2 (Geology) and Geophysics of the Moon, J. A. O'Keefe, NASA-Goddard Chairman) presented to International Astronomical Union, Grenoble, France, August 1976.

Consultant, Los Alamos Scientific Laboratory.

Interviewed on geology of Mars by KNME-TV, June 1976.

Reviewed research proposals for National Science Foundation.

Reviewed papers for Geological Society of America and Earth and Planetary Science Letters.

Reviewed geologic map of Mars quadrangle MC-6 (R. Greeley and J. Guest) for U. S. Geological Survey. Contributed to U. S. Geological Survey 1:25,000,000 geologic map of Mars (compiled by David Scott and Michael Carr).

Accepted co-editorship (with Charles E. Chapin, N. M. Bureau of Mines and Mineral Resources) of symposium on ash-flow tuffs, to be published as a Special Paper by the Geological Society of America (about 1978).

Rodney C. Ewing:

Supervised Harding Pegmatite property.

Reviewed manuscript submitted to the American Mineralogist.

Attended one-day meeting on radioactive waste disposal at Sandia Corporation (July).

John Paul Fitzsimmons:

Consulting for Mann Engineering Corp. on bedrock at Eagle Creek damsite near Ruidoso, N. M.

Translation from Russian of over 100 articles (675 pages) on geology, soil mechanics, and strength of materials. Published by Plenum Press.

Petrographic consultation for Conoco and for Pechiney Development, Inc.

Raymond V. Ingersoll:

Talk to Albuquerque Gem and Mineral Club

Talk to Albuquerque Geological Society

George R. Jiracek:

April 15, 1976, Geophysical measurements at Fenton Hill: American Geophysical Union National Meeting, Washington, D. C.

May 4, 1976, Deep Electrical Resistivity Investigations Coupled with Dry Geothermal Reservoir Experiments in New Mexico (Field and Numerical Results): invited talks at Conf. on Explor. for Geothermal Reser., Golden, Colorado.

June 1, 1976, Geothermal Exploration in New Mexico by Electrical Resistivity, invited talk at Univ. of Calif., Riverside, California.

June 22, 1976, Electrical resistivity studies at the LASL dry hot rock drill site, invited talk at LASL Workshop on Geophysical Exploration for Dry Hot Rock, Los Alamos, New Mexico.

August 6, 1976, Geothermal Exploration in New Mexico by Electrical Resistivity, invited talk Oregon State Univ., Corvallis, Oregon.

October 28, 1976, Electrical Measurements at the Los Alamos Scientific Laboratory's Geothermal Project, Society of Exploration Geophysicists 46th Annual International Meeting, Houston, Texas.

October 28, 1976, Deep Electrical Investigations of Geothermal Prospects in the Basin and Range Province of Southern New Mexico, Society of Exploration Geophysicists 46th Annual International Meeting, Houston, Texas (paper presented by Christian Smith).

November 5-7, 1976, Portions of three committee reports at Workshop on Evaluation of Electrical Methods in Geothermal Environment, Snowbird, Utah.

November 9, 1976, Deep Electrical Resistivity Soundings in the Rio Grande rift, invited talk at Geological Society of America Annual Meeting, Denver, Colorado.

Klaus Keil:

Consultant, Sandia Laboratories, Albuquerque, New Mexico.

Reviewed six lunar sample proposals submitted to NASA for funding.

Reviewed 17 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.

TV interview with Kathy Schroeder on the U. S. Viking Program, August 27, 1975.

TV interview with Mr. Wellington on the U. S. Viking Program.

Hosted Inorganic Chemical Analysis Science Team, U. S. Viking Mission to Mars, in the Institute of Meteoritics (Drs. A. Baird, Pomona, Calif.; H. Rose and P. Toulmin, USGS, Reston, Virginia; B. Clark and A. Castro, Martin Marietta, Denver, Colo.; and W. Kelliher, NASA Langley Research Center, Hampton, Virginia), September 18-19, 1975.

Radio interview in "The U. S. Mars Mission", KRKE 610, January 4, 1976.

Television interview with Channel 5 on "Mission to Mars", January 29, 1976.

Television interview with Channel 7 on "Mission to Mars", May 1976.

Television interview with Channel 13 on "Mission to Mars", May, 1976.

Presented talk on "U. S. Mars Mission", University of New Mexico, Albuquerque, New Mexico. September 1976.

Albert M. Kudo:

Gave two talks at the Dept. of Geological Sciences, University of Texas, Austin on October 21, 1976.

Barry S. Kues:

Judge, New Mexico high school science fair, March, 1976.

Lecture and field trip, YWCA group, September, 1976.

Numerous short talks, identification of rocks and fossils, etc. for the public.

Gary P. Landis:

Visiting Staff Member, Los Alamos Scientific Laboratories; Geothermal project and initial design - fabrication - and instruction in use of extraction lines and mass spectrometers.

Outside consultant, Sandia Laboratories; nuclear waste disposal project - member science advisory panel, Menlo Park, California.

Review proposals and manuscripts.

Review for Economic Geology: 1) Marco Einaudi, "Environment of ore deposition at Cerro de Pasco, Peru", and 2) Peterson, Noble, Arenas, "Geology of the Julcani Mining District, Peru."

Stephen G. Wells:

Consultant for Sandia Laboratories, Hydrologic Review Committee
for W.I.I.P.

Lee A. Woodward:

Presented lectures to personnel of Sandia Laboratories on "Fundamentals
of Geoscience for Sandia Applications" during March and October, 1976.

8. Non-teaching University service:

Roger Y. Anderson:

Chairman, Univ. Committee on Paleocology

Member, Research Policy Committee

Douglas G. Brookins:

Assumed duties as Chairman of the Geology Department, July 1, 1976.

Chairman, Promotion Advisory Committee, 1975-76 academic year.

Member, Tenure Advisory Committee, 1975-76.

Faculty advisor for four Ph.D. candidates, six M.S. candidates.

Member, UNM Gifts Committee.

Member, UNM Press Committee.

Jonathan F. Callender:

University Research Policy Committee

General library liason for Geology Department

Graduate Admissions Committee

Chairman, Undergraduate Curriculum Committee

Committee on examinations

Thin-section Lab Supervisor

Wolfgang E. Elston:

Member, Research Allocations Committee, Semester II, 1975-76.

Member, Graduate Committee, Semester I, 1976-77. Chairman, Subcommittee on Graduate Committee on Evaluation and Planning, Section A.

Member, A & S Advisory Committee on Promotions, Math and Science, Semester I, 1976-77.

Chairman, Departmental Personnel Committee.

Chairman of one Ph.D. committee and seven M.S. committees (4 M.S. degrees awarded in 1976).

Rodney C. Ewing:

Undergraduate Curriculum Committee

Graduate Admissions Committee

Faculty Search Committee (Geophysicist)

Honors Committee on USP course offerings

Honors Council

John Paul Fitzsimmons:

Undergraduate advisor in Geology

Raymond V. Ingersoll:

Member, Geology Department Graduate Curriculum Committee

Member, 8 thesis and dissertation Committees

Chairman of 1 thesis Committee

Graduate and Undergraduate Faculty Advisor.

George R. Jiracek:

Major advisor, 2 current Ph.D. candidates

Major advisor, 4 M.S. candidates

Klaus Keil:

Administration of the Institute of Meteoritics and its collections.

Member of several internal committees in the Department of Geology.

Chairman and member of several thesis and dissertation committees
in the Department of Geology.

Member of the Dean's Committee to evaluate new proposed general
science courses.

Albert M. Kudo:

Chairman of UNM and Sandia Colloquium Committee

Member of Departmental Graduate Admissions Committee

Barry S. Kues:

Advisor to graduate and undergraduate students

Membership on several intradepartmental Committees

Gary P. Landis:

Faculty advisor for 1 Ph.D. candidate and 3 M.S. candidates

Chairman, Graduate Programs Committee

Committee on Examinations

Faculty advisor, Student Chapter, AIME

Stephen G. Wells:

Faculty advisor for Undergraduate Research Project

Undergraduate Committee for Geology Dept., - development of
recommendations concerning grading practices in Geology 101.

Lee A. Woodward:

Chairman of the Department of Geology, January 1 - June 30, 1976.

Chairman of two (2) dissertation committees.

9. Public service:

Roger Y. Anderson:

Lecture on Scientific Mysticism, Unitarian-Universalist Fellowship,
Laguna Beach, CA., July, 1976.

Identification of rocks and fossils for public.

Douglas G. Brookins:

Board of Trustees, Congregation Albert

Co-chairman, Religious School Committee, Congregation Albert

Budget and Allocations Committee, Jewish Community Council of Albuquerque.

Jonathan F. Callender:

UNM Community College Course

Field trip for undergrads., Univ. of Vermont

Lectures at Albuquerque public schools, Albuquerque Geological
Society, Sierra Club, Parents without Partners, New Mexico Mountain
Club and others.

Wolfgang E. Elston:

Member, Advisory Board, Explorer Troop 296, Boy Scouts of America

Gave advice on mineral deposits and local geology to the public.

Member, Parent-Teacher-Student Association, Albuquerque High School.

Rodney C. Ewing:

Albuquerque Gem & Mineral Society presentation, 4/26/76.

Albuquerque Senior Citizens presentation, 4/29/76.

Los Alamos Geological Society presentation, 1/24/76.

Fine Arts Seminar on Nature of Systems, 2/13/76.

Science Fair judge, 3/18/76.

John Paul Fitzsimmons:

Assisted several Boy Scout groups in merit-badge studies on mineral and rocks.

George R. Jiracek:

February 1976, Television Channel 5 and 13, interview on earthquake hazards and prediction.

February 26, 1976, Midtown Optimist Club, luncheon talk on earthquake hazard in New Mexico.

August 18, 1976, Television Channel 7, interview on earthquake hazards and prediction.

September 30, 1976, Zia Elementary School, talk on volcanoes and earthquakes.

November 10, 1976, New Mexico Energy Resources Board public forum, talk on UNM geothermal exploration program.

November 18, 1976, Department of Geology seminar on Geology, Geophysics, and Geothermal: A Believable Team.

November 22, 1976, Department of Engineering Energy and the Environment course, talk on geothermal energy.

Klaus Keil:

Talk on "Non-destructive analysis of the soil of Mars: The X-ray fluorescence spectrometer on board of Viking" Assoc. for non-destructive Testing, Albuquerque, NM, Feb. 17, 1976.

Talk on "Exploration of Mars: The U. S. Viking Program", 21 Club, UNM, March 8, 1976.

Talk on "To the Moon and beyond: Geological exploration of the planets", Rock Founder, Santa Fe, NM, March 9, 1976.

Talk on "Geological exploration of Mars: The U. S. Viking Program",
Physics Department, UNM, April 2, 1976.

Albert M. Kudo:

PTA Board, Bellehaven Elementary School.

Talks at various public and private elementary and middle schools.

Gary P. Landis:

Judge for Annual Science Fair March 1976

Parent Booster Club, Arroyo del Oso Elementary School

Den Dad, Cub Scouts Pack 410

Local Church Activities

Lee A. Woodward:

Appointed to Advisory and Peer Review Committee of the Energy
Institute for Fossil Fuels (sponsored by New Mexico Energy Resources
Board).

10. Personal information:

Jonathan F. Callender:

Moved to 1044 Stanford Dr., NE, Albuquerque

Barry S. Kues:

Married, to Georgianna E. Honea, June, 1976.

Gary P. Landis:

Moved to new home, February, 1976.

ADDENDUM

2. Sabbaticals

Wolfgang E. Elston: Visiting Lecturer, UNM German Summer School at Taos, June 21-22, 1977. Lectures (in German) on "Alfred Wegeners Kontinentalverschiebungstheorie" (Alfred Wegener's Theory of Continental Drift) and "Karl May, der deutsche Schriftsteller des Wilden Westens" (Karl May, German author of the Wild West) and geologic field trips. Geologic field work in Animas Mountains, southwestern New Mexico, January, 1977, Peloncillo Mountains, June, 1977.

3. New scholastic honors, fellowships, etc.

Wolfgang E. Elston: Elected to Society of Economic Geologists.

4. Publications

Wolfgang E. Elston:

Elston, W. E., and Erb, E. E., "Cenozoic Volcano-Tectonic Setting of KCM No. 1 Forest Federal Well, Animas Mountains, Hidalgo County, New Mexico," New Mexico Bureau of Mines and Mineral Resources Circular 152, 1977, pp. 53-62.

Elston, W. E. and Erb, E. E., "Volcano-tectonic setting of the KCM No. 1 Forest Federal Well, Winkler Anticline, Hidalgo County, New Mexico": Geological Society of America, Abstracts with Programs, 1977, v. 9, no. 1, p. 17. Paper read at 11th Annual Meeting of South-Central Section, Geological Society of America, El Paso, Texas, March 17, 1977.

Elston, W. E. and Erb, E. E., 1977 (submitted), Ring complexes: Encyclopedia of Earth Sciences, v. 16, Volcanoes and Volcanology (Jack Green, editor), Dowden, Hutchinson, and Ross, Inc.

Crumpler, L. S., Aubele, J. C., and Elston, W. E., 1977 (submitted),

Two-stage evolution of Tharsis volcanoes on Mars from Viking
Orbiter imagery: NASA Technical Memorandum TM X-

Crumpler, L. S., Aubele, J. C., and Elston, W. E., 1977, Magnetic
profiles characteristic of maar craters: Anomalies associated
with peripheral ring dikes: NASA Technical Memorandum TM X-3511,
p. 122-125.

Raymond V. Ingersoll:

Ingersoll, R. V., Rich, E. I., and Dickinson, W. R., 1977, "Great Valley
Sequence, Sacramento Valley, California": Geological Society of
America, Cordilleran Section, Fieldtrip guidebook, 72 p.

Barry S. Kues:

Kues, B. S., "Survey of paleontology and paleontological resource
assessment of Western Coal and Public Service Company leased lands
near Bisti, New Mexico". Report to Western Coal Company, Albuquerque,
N. M., 89 p. (Co-author: J. W. Froehlich)

5. Other research projects or creative work in progress

Wolfgang E. Elston:

Principal Investigator, NASA grant NGR-32-004-062, Supplement No. 8,
Mars: Search for evidence of dynamic processes, \$1,000. Duration:
2-1/2 months.

Principal Investigator, NASA grant NGR-32-004-062, Supplement No. 9,
Mars: Search for evidence of dynamic processes, \$22,050, January 1, 1977
to December 31, 1977.

Co-investigator, New Mexico Energy Research and Development Program
grant 76-350, Application of volcanology to petroleum exploration in

southwestern New Mexico, March 1, 1977 to February 28, 1978, \$51,250.

Co-investigator: Samuel Thompson III, N. Mex. Bureau of Mines and Mineral Resources.

Co-investigator, New Mexico Energy Research and Development Program grant 76-264, Evaluation of geothermal potential of the Basin and Range Province of New Mexico, \$103,235, January 1, 1977 to December 31, 1977.

Co-investigators: D. G. Brookins, J. F. Callender, G. R. Jiracek, A. M. Kudo, G. P. Landis, C. A. Swanberg, and L. A. Woodward.

No-cost extension requested:

Principal Investigator, NASA grant NGL-32-004-011, Supplement 3, Volcanological approach to the interpretation of lunar features: June 1, 1977 to June 30, 1978, \$22,715.

Barry S. Kues:

Bureau of Land Management: Paleontological survey and land use impact assessment of San Juan Basin, New Mexico; March-Oct., 1977; \$82,776; with Dr. J. W. Froehlich, Dept. of Anthropology.

Western Coal Company & Public Service Company: Paleontological survey and strip-mining impact assessment of lands near Bisti, New Mexico; April-May, 1977; \$8,229; with Dr. J. W. Froehlich, Dept. of Anthropology.

"Study of the relationships of the Texture, Fabric, and Composition of Fine-grained Terrigenous Sediments and Sedimentary Rocks (Mudstone and Shale) to the Occurrence of and Exploration for Oil and Gas: A first year report" S.U.R.P. Contract No. 02-8900 (Co-author: R. C. Ewing)

6. Activities in learned and professional societies

Wolfgang E. Elston:

Attended 11th Annual Meeting, South-Central Section, Geological Society of America, El Paso, Texas, March 17-18, 1977. Co-authored paper (with E. E. Erb), Volcano-tectonic setting of the KCM No. 1 Forest Federal well, Winkler anticline, Hidalgo County, New Mexico (paper read by E. E. Erb).

Invited participant, Geological Society of America Penrose Conference on Tectonic Significance of Metamorphic Core Complexes in the North American Cordillera, Tucson, Arizona, May 2-6, 1977. Contributed to discussion on "Regional tectonic setting: The 'ignimbrite flareup' in New Mexico."

Invited participant, NASA Planetology Program Principal Investigators Conference, St. Louis, Missouri, May 23-25, 1977.

Member, Selection Committee, Best Earth Science Teacher of the Year (for New Mexico), Southwest Section, National Association of Geology Teachers.

Co-leader (with L. S. Crumpler and J. C. Aubele) geologic field trip to basaltic volcanic fields Mount Taylor and Rio Grande regions for invited participants, June 6-8, 1977.

Gave presentations to N. M. Energy Resources Board, January 14, 1977 and April 21, 1977.

Raymond V. Ingersoll:

Field trip leader, 1977 Annual Meeting, Cordilleran Section, Geol. Soc. America.

8. Non-teaching University Service

Wolfgang E. Elston:

Member, Graduate Committee, Chairman, Subcommittee on Evaluation and Planning, Section A. Chaired ad hoc evaluation committees for evaluation of graduate programs in Music Education, Music History and Literature, Comparative Literature, and Portuguese. Reports of these evaluations were submitted to the Graduate Committee.

The Annual Report of the Institute of Meteoritics

July 1, 1976 to June 30, 1977

Klaus Keil, Director

I. General Departmental Information

A. The Institute of Meteoritics has continued to develop vigorously during the report period. Major activities in the Institute concerned research, teaching and public service. In all these activities, emphasis is given to close collaboration of faculty, staff and students.

Research activities of the staff and students of the Institute of Meteoritics cover a wide range of topics and can be categorized into five major areas. First, the highlight of our research activities was unquestionably the successful landing of two Viking unmanned spacecraft on the planet Mars on July 20, 1976 and September 3, 1976. As part of this mission the Director of the Institute of Meteoritics has, since 1970, been a member of a 5-man science team charged with the responsibility for designing, developing, building and running of a miniturized x-ray fluorescence spectrometer on each Lander on the planet Mars. As of this writing, these instruments have had no malfunctionings, have analyzed 12 Martian soil samples and accumulated over 6,500 hours of analytical time! The program is funded through 1978, and we are hopeful to analyze another 16 Martian soil samples. As a result of our work so far, our view of the surface composition has already changed dramatically: It appears that the planet is covered by a venier of wind-deposited, fine-grained dust consisting of a mixture of iron-rich, water-bearing clays, sulfates, iron oxide, carbonates, and possibly SiO_2 . Second, a major research area in the Institute is the study of stone meteorites with the aim to understand the origin and evolution of their parent bodies. Major accomplishments in the report period include the recognition

of formation of impact-melted meteorites and lithic fragments in chondrites in the regoliths of their parent bodies, in some instances as much as 1 billion years after the formation of the solar system, as well as the recognition of cumulate achondrites, i.e. rocks that formed by crystal settling on their parent bodies. Third, another area of emphasis in the report period was the study of lunar samples returned by the U.S. - Apollo and the Soviet Luna missions. Our long-range objective in lunar research is to understand the evolution of the lunar regolith; the petrogenesis of mare basalts; and the origin of the ancient lunar crust. During the report period, major accomplishments include the development of a model for the depositional history of the uppermost portion of the Apollo 17 deep drill core; identification of a new mare basalt type ("very low-Ti mare basalt"); as well as identification of new cumulate rock types from Apollo 17. Fourth, an experimental program aimed at the origin of meteoritic chondrules and terrestrial and lunar rocks from the super-cooled state utilizing laser technology has resulted in major discoveries and an understanding of the origin of super-cooled textures. This research is now directed towards Fe-bearing silicate systems in a conventional furnace, and work in the report period has proven the feasibility of this technique. Fifth, a variety of projects on mafic terrestrial rocks, particularly Hawaiian basalts, oceanic (drilled and dredged) basalts, ultramafic rocks, and inclusions in diamond, has contributed to an understanding of the origin of terrestrial volcanic and ultramafic rocks. All in all, this research has resulted in the publication of twenty six (26) papers published in major national and international journals, as well as publication of twenty eight (28) abstracts of talks presented at national and international meetings. We were fortunate to attract many research grants to the Institute in support of the projects outlined above, totalling \$1,375,806.00.

Teaching activities of the Institute staff concern formal classes in meteoritics, astrogeology, ore microscopy, electron microprobe analysis, nuclear waste disposal, and modern analytical techniques in geology and, in particular, direction of graduate student research projects, problem courses, theses and dissertations. Graduate students and undergraduate students have actively participated as assistants to staff of the Institute on the research projects mentioned above, as well as in thesis and dissertation projects in these areas. One student (T.L. Steinborn) completed his Ph.D dissertation and one student (H.G. Brown) completed his M.S. thesis in the Institute of Meteoritics and received his degree in the Department of Geology.

Public service activities of the Institute staff vary widely, but are largely concerned with the maintenance and enlargement of the Institute of Meteoritics' meteorite collection, which is a stunning display of unique specimens and a major attraction of the UNM campus. It also serves as a research collection to Institute staff as well as scientists in other institutions. Many special guided tours were given to college and high-school classes, and many rocks suspected to be meteorites that were submitted by the interested public were analyzed free of charge. In addition, many popular talks were given in an attempt to educate the people of New Mexico in recognizing meteorites, and to urge their cooperation in the recovery of meteoritic material.

The international reputation of the Institute is documented by the many honors that were bestowed on its staff. One particular award should be noted here: The Director of the Institute was awarded the NASA Medal for Exceptional Scientific Achievement for his work on lunar samples; this is the highest NASA award. The international reputation of the Institute is further documented by the many national and international

visitors that came here for study and lectures. These were:

1. Dr. C.H. Simonds, Lunar Science Institute, Houston, Texas
2. Dr. K.F.J. Heinrich, Natl. Bureau of Standards, Washington, D.C.
3. Dr. Robert Hutchison, British Museum, London, England.
4. Dr. Martin Prinz, Amer. Museum of Natural History, New York, N.Y.
5. Dr. M. Blander, Argonne Natl. Laboratory, Argonne, Illinois
6. Dr. Usman Sayeed, Florida International University, Miami, Florida
7. Dr. Lee Rudy, University of California, La Jolla, Calif.
8. Dr. James Gunnerson, Nebraska State Museum, Lincoln, Nebraska
9. Dr. J. Saxena, Brooklyn College, Brooklyn, New York

During the report period, the following staff was employed at the Institute of Meteoritics.

Dr. Klaus Keil, Director
 Mary Fillmon, Secretary
 Dr. G.J. Taylor, Senior Research Associate
 Dr. R.V. Fodor, Postdoctoral Research Fellow
 Dr. R. Warner, Postdoctoral Research Fellow
 Dr. U. Sayeed, Visiting Research Associate
 David Lange, Staff Research Scientist
 George Conrad, Microprobe Specialist

J. Berkley,	Graduate Research Assistant
J. Gooding,	" " "
G. Huss,	" " "
W. Mansker,	" " "
H.N. Planner	" " "
R. Warren	" " "
S. Wentworth	" " "
G. Lux	" " "

S. Willcut,	Undergraduate Research Assistant
S. O'Kelly,	" " "
D. Dixon,	" " "

Except for the Director, the Secretary, the Senior Research Associate, the Staff Research Scientist (1/2 time), and the Microprobe Specialist, salaries for all other employees including student research assistants, were entirely derived from outside grants.

During the report period, the following dissertations and theses were completed in the Institute of Meteoritics and the candidates received their degrees from the Department of Geology.

T. Steinborn (Ph.D): Particle-size effects in energy dispersive x-ray fluorescence analysis.
 H.G. Brown (M.S.): Petrology and geochemistry of shonkinite, hawaiite, and nepheline monzonite of the Island of Kauai, Hawaii.

B. Significant Plans and Recommendations

One important and urgent need for the Institute is the addition of a full-time, permanently employed, Ph.D level Research Associate. The present permanent scientific staff of the Institute consists only of the Director, the Senior Research Associate, and the Staff Research Scientist (1/2 time). All other scientific personnel is on contract and grant salaries. The addition of a permanent Research Scientist to the staff would allow us to increase our involvement in sponsored research and the cost would ultimately be off-set by increased outside funding that a new person could attract. Specifically, we would like to get involved on a large scale in the study of oceanic basalts drilled from the ocean floor, a project that the present scientific personnel could not do justice to, without neglecting other duties. Consideration of an additional Research Associate (Ph.D) for the Institute of Meteoritics is therefore urgently requested.

II. Composition of Individual Biographical Supplement

A. Advanced Study

J. Gooding

1. Jet Propulsion Laboratory, Pasadena, California. Participated in the Viking Mission to Mars as an Associate Member of the Inorganic Chemical Analysis Science Team. May 15-Dec. 30, 1976.
2. Department of Chemistry and Radiation Center, Oregon State University, Corvallis, Oregon. Studied methods of Instrumental Neutron Activation Analysis and carried out analyses of meteoritic chondrules. June 1-30, 1977.

G. Huss

1. Jet Propulsion Laboratory, Pasadena, California. Participated in the Viking Mission to Mars as an Associate Member of the Inorganic Chemical Analysis Science Team. Jun. 1 - Aug. 15, 1977.

B. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during period.

Klaus Keil

1. Pasadena, California. Jet Propulsion Laboratory. Member of the Inorganic Chemical Analysis Science Team of the U. S. Viking Mission to Mars. July 1 - Sept. 15, 1976.
2. Houston, Texas. Chaired Lunar Sample Analysis Planning Team meeting, Johnson Space Center, Sept. 9 - 12, 1976.
3. La Jolla, California. Gave talk on "Geochemistry of Mars: Preliminary results of the Viking x-ray fluorescence spectrometer", Dept. of Chemistry, University of California, Sept. 30, 1976.
4. Bethlehem, Pa. Attended Meteoritical Society Meeting, chaired session and gave talks, Lehigh University, Oct. 18-20, 1976.
5. Miami, Florida. Gave talk on "The origin and significance of meteorites" and "The Geology of Mars: The results of the U.S. Viking Mission", Florida International University, Oct. 21-22, 1976.
6. Sao Paulo, Brazil. Research on Brazilian meteorites at the University of Sao Paulo, Brazil, Oct. 25-29, 1976.
7. Ouro Preto, Minas Gerais, Brazil. Participated as invited speaker at the meeting of the Geological Society of Brazil and presented nine (9) talks on Brazilian meteorites and one invited lecture on "The Geology of Mars: The U.S. Viking Mission", Oct. 29-Nov. 1, 1976.
8. Sao Paulo, Brazil. Research on Brazilian meteorites and class on "Meteoritics" at the University of Sao Paulo, Nov. 2- Nov. 30, 1976.
9. Brasilia, Brazil. Talk on "The Geology of Mars: Results of the U.S. Viking Mission" at the Department of Geology, Federal University of Brasilia, Nov. 18-19, 1976.
10. Rio de Janeiro, Brazil. Studied Brazilian meteorites in the Museu Nacional, Nov. 30- Dec. 3, 1976.
11. Salvadore, Bahia, Brazil. Talks on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" at the Department of Chemistry and Geology, University of Bahia, as well as a popular lecture on "The U.S. landings on Mars" for the Salvadore Rotary Club., Dec. 4-9, 1976.
12. Recife, Pernambuco, Brazil. Lectured on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" in the Department of Geology, University of Pernambuco, as well as presented popular talk on "The U.S. landings on Mars", Dec. 10-13, 1976.
13. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical analysis Science Team of the U.S. Viking Mission to Mars, Jan. 13-14, 1977.

14. Grants, New Mexico. Talk on the "Geology of Mars: The U.S. Viking Missions" to the AIME, Jan. 15, 1977.
15. Houston, Texas. Chaired meeting of the Lunar Sample Analysis Planning Team, Johnson Space Center, Jan. 26-30, 1977.
16. Washington, D.C. Participated in meeting of the Lunar and Planetary Council, Universities Research Association, Feb. 17-18, 1977.
17. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, March 1-2, 1977.
18. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, March 11-13, 1977.
19. Santa Fe, New Mexico. Presented talk on "The U.S. Viking Missions to Mars", The American Society of Mechanical Engineers, New Mexico Section, Feb. 4, 1977.
20. Houston, Texas. Attended Lunar Science Conference and co-authored three talks, Johnson Space Center, March 14-17, 1977.
21. Pasadena, California. Jet Propulsion Laboratory, Member of the Inorganic Chemical Analysis Science Team of the U.S. Viking Mission to Mars, April 18-20, 1977.
22. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, April 27-May 1, 1977.
23. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Houston, Texas, June 17-20, 1977.
24. Taos, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.

G.J. Taylor

1. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, and presented a paper on "Cooling rates of LL-chondrites" and co-authored a paper on "The Shaw meteorite: Evidence for an igneous origin," Oct. 18-21, 1976.
2. Houston, Texas. Attended Lunar Science Conference, Johnson Space Center, and presented paper on "Petrology of Apollo 17 deep drill core 1. Depositional history based on modal analyses of 70009, 70008, and 70007," March 14-18, 1977.

R.V. Fodor

1. Edinburgh, Scotland. Presented talk at the Oceanographic Congress, on "Petrology of volcanic rocks from an aseismic rise: implications for the origin of the Rio Grande Rise, South Atlantic Ocean", Sept. 15-24, 1976.
2. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, Oct. 18-20, 1976.
3. Seattle, Washington. Gave talk on "Brecciated ordinary chondrites: their origins and histories" at the Department of Oceanography, University of Washington, Jan. 12-14, 1977.
4. Raleigh, N.C. Presented talk on "Mineral chemistry of Hawaiian volcanic rocks" at the Department of Geology, North Carolina State University, March 13-15, 1977.

R.D. Warner

1. Denver, Colorado. Attended the Ann. Meeting of the Geological Society of America, Nov. 8-11, 1976.
2. Houston, Texas. Attended Eighth Lunar Science Conference, Johnson Space Center, and presented talk on "Chemistry of 30 Apollo 17 rake basalts; 71597 a product of partial olivine accumulation," March 14-18, 1977.
3. Granville, Ohio, Presented talk on "Lunar basalts" at Owens-Corning Fiberglass Corporation Technical Center, March 28-29, 1977.

D. Lange

1. Bethlehem, Pa. Attended Meteoritical Society Meeting at Lehigh University and presented talk on "Notes on the chondrites from northeastern New Mexico", Oct. 18-21, 1976.
2. Washington, D. C. Visited Meteorite Collection of the U.S. National Museum, Smithsonian Institution, October 22-25, 1976.
3. New York, N.Y. Visited Meteorite Collection of the American Museum of Natural History, Oct. 26-28, 1976.
4. Denver, Colorado. Attended Ann. Meeting of the Geological Society of America, Nov. 8-12, 1976.

G. Conrad

1. Miami, Florida. Attended Eleventh Ann. Conf. of the Microprobe Society of America, August 9-13, 1976.
2. Sao Paulo, Brazil. Assisted Prof. C.B. Gomes in setting-up and maintenance of the electron microprobe laboratory, Department of Geology, University of Sao Paulo, Sept. 1-30, 1976.

J.L. Berkley

1. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, and co-authored talk, Oct. 18-21, 1976.
2. Denver, Colorado. Attended Ann. Meeting of the Geological Society of America, Nov. 8-11, 1976.

J.L. Gooding

1. Pasadena, Calif. Jet Propulsion Laboratory, was an Associated Member of the Inorganic Chemical Analysis Science Team, U.S. Viking Mars Missions, May 15 - Dec. 30, 1976.
2. Corvallis, Oregon. Studied at the Radiation Center, Oregon State University, June 1-30, 1977.

H.N. Planner

1. Sonoma, Calif. Attended the Geological Society of America Penrose Conference on "The application of crystal growth theory and experiments to rock-forming processes," Nov. 28-Dec. 3, 1976.

G.R. Huss

1. Pasadena, Calif. Jet Propulsion Laboratory, was an Associate member of the Inorganic Chemical Analysis Science Team, U.S. Viking Mars Missions, Jan. 1-Aug. 15, 1977.

R.G. Warren

1. Denver, Colorado. Summer employment as exploration geologist for Exxon Co., USA, Uranium Division, May 24-Aug. 20, 1976.
2. Los Alamos, New Mexico. Summer employment as geologist, for Los Alamos Scientific Laboratory, May 23-Aug 19, 1977.

W.L. Mansker

1. Ann Arbor, Michigan. Attended meeting of the American Geophysical Union (midwestern Region), and presented talk on "Post-devonian diatremes in Southeast Missouri: Investigation of the Avan Kimberlite and some emplacement parameters", Oct. 21-23, 1976.
 2. Denver, Colorado. Attended the Ann. Meeting of the Geological Society of America. Nov. 8-11, 1976.
- C. New scholastic honors, fellowships, etc.

Klaus Keil

1. Secretary, Commission on Meteorites, International Union of Geological Sciences.
2. Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association.
3. Secretary, International Association for Geochemistry and Cosmochemistry.

4. Chairman, Leonard Medal Committee, Meteoritical Society.
5. Member, Editorial Board, Journal "Chemical Geology".
6. Member, Surface Sampler Team, Viking Mars Mission.
7. Vice-chairman, Lunar Sample Analysis Planning Team, Johnson Space Center, Houston, Texas.
8. Member, Editorial Board, Colorado School of Mines Quarterly, Golden, Colorado.
9. Visiting Associate in Geochemistry, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California.
10. Member, Viking Flight Team, Jet Propulsion Laboratory, Pasadena, Calif.
11. Received the National Aeronautics and Space Administration (NASA) Exceptional Scientific Achievement Medal.
12. Member, Lunar and Planetary Science Council, Universities Space Research Association, Houston, Texas.
13. Theodore von Karman award of the Air Force Association, collectively to the entire Viking Team.

R.G. Warren

1. New Mexico Geological Society Scholarship, in support of thesis field work in New Mexico.

W.L. Mansker

1. University of New Mexico, Department of Geology Scholarship, in support of travel to present paper at the American Geophysical Union (Midwestern Region) meeting in Ann Arbor, Michigan.

J.L. Gooding

1. Associate Member, Inorganic Chemical Analysis Science Team, U.S. Mission to Mars.

G.R. Huss

1. Associate member, Inorganic Chemical Analysis Science Team, U.S. Mission to Mars.

D. Publications

a) Scientific articles published in major national and international journals, scientific publications of the Institute of Meteoritics, as well as books.

Note: Listed are only publications that have appeared in the report period. Not listed are papers that are in press or in preparation. Since most publications of the Institute of Meteoritics are co-authored by several members of the Institute, only one list of publications is given, rather than duplicating listings on an individual-by-individual basis.

1. M. Prinz, R.V. Fodor, and K. Keil: Comparison of lunar rocks and meteorites: implications to the histories of the moon and parent meteorite bodies. In "Cosmochemistry of the Moon and the Planets", Nauka, Moscow, 738-753.
2. K. Keil, Preface: The Kenna Consortium. *Geochim. Cosmochim. Acta* 40, 1427, 1976.
3. J.L. Berkley, H.G. Brown, K. Keil, and G. Huss, The Kenna ureilite: an ultramafic rock with evidence for igneous, metamorphic, and shock origin, *Geochim. Cosmochim. Acta*, 40, 1429-1438, 1976.
4. D. Lange, and K. Keil, Meteorites of northeastern New Mexico, New Mexico Geol. Soc. Guidebook, 27th Field Conf., Vermejo Park, 293-299, 1976.
5. W. Paar, K. Keil, C.B. Gomes, and E. Jarosewich, Studies of Brazilian meteorites II. The Avanhandava meteorite: Mineralogy, petrology, and chemistry. *Revista Brasileira de Geociencias* 6, 201-210, 1976.
6. G. Kurat, A. Kracher, K. Keil, R.D. Warner and M. Prinz: Composition and origin of Luna 16 aluminous mare basalts. *Proc. Lunar Sci. Conf.* 7th, 1301-1321, 1976.
7. A. El Goresy, M. Prinz and P. Ramdohr: Zoning in spinels as an indicator of the crystallization histories of mare basalts. *Proc. Lunar Sci. Conf.* 7th, 1261-1279, 1976.
8. E. Dowty, K. Keil, M. Prinz, J. Gros and H. Takahashi: Meteorite-free Apollo 15 crystalline KREEP. *Proc. Lunar Sci. Conf.* 7th, 1833-1844, 1976.
9. R.D. Warner, H.N. Planner, K. Keil, A.V. Murali, M.-S. Ma, R.A. Schmitt, W.D. Ehmann, W.D. James, Jr., R.N. Clayton and T.K. Mayeda: Consortium investigation of breccia 67435. *Proc. Lunar Sci. Conf.* 7th, 2379-2402, 1976.
10. M. Prinz, K. Keil, J.A. Green, A.M. Reid, E. Bonatti and J. Honnorez: Ultramafic and mafic dredge samples from the Equatorial Mid-Atlantic Ridge and fracture zones. *J. Geophys. Res.* 81, 4087-4103, 1976.
11. B.C. Clark, P. Toulmin, A.K. Baird, K. Keil and H.J. Rose: Argon content of the Martian atmosphere at the Viking I landing site: analysis by x-ray fluorescence spectroscopy. *Science* 193, 804-805, 1976.
12. P. Toulmin, B.C. Clark, A.K. Baird, K. Keil, and H.J. Rose: Preliminary results from the Viking x-ray fluorescence experiment: The first sample from Chryse Planitia, Mars. *Science* 194, 81-84, 1976.
13. B.C. Clark, A.K. Baird, H.J. Rose, P. Toulmin, K. Keil, A.J. Castro, W.C. Kelliher, C.D. Rowe, and P.H. Evans: Inorganic analyses of Martian surface samples at the Viking landing sites. *Science* 194, 1283-1288, 1976.
14. A.K. Baird, P. Toulmin, B.C. Clark, H.J. Rose, K. Keil, R.P. Christian, and J.L. Gooding: Mineralogic and petrologic implications of Viking geochemical results from Mars: Interim report. *Science* 194, 1288-1293, 1976.

15. R.J. Drozd, B.M. Kennedy, C.J. Morgan, F.A. Podosek, and G.J. Taylor: The excess fission xenon problem in lunar samples. Proc. Lunar Sci. Conf., 7th, 599-623, 1976.
 16. G. Ryder and G.J. Taylor: Did mare-type volcanism commence early in lunar history? Proc. Lunar Science Conf., 7th, 1741-1755, 1976.
 17. A.V. Murali, M.-S. Ma, R.A. Schmitt, R.D. Warner, K. Keil and G.J. Taylor: Chemistry of 30 Apollo 17 rake basalts; 71597 a product of partial olivine accumulation. In Lunar Science VIII, The Lunar Science Institute, Houston, 703-705, 1977.
 18. G.J. Taylor, K. Keil and R.D. Warner: Petrology of Apollo 17 deep drill core-I. Depositional history based on modal analyses of 70009, 70008, and 70007. In Lunar Science VIII, The Lunar Science Institute, Houston, 925-927, 1977.
 19. R.D. Warner, G.J. Taylor and K. Keil: Petrology of breccias from Apollo 17 rake samples. In Lunar Science VIII, The Lunar Science Institute, Houston, 985-987, 1977.
 20. G.J. Taylor, K. Keil and R.D. Warner: Very low-Ti mare basalts. Geophys. Res. Lett. 4, 207-210, 1977.
 21. E.K. Gibson, D.E. Lange, Klaus Keil, T.E. Schmidt and J.M. Rhodes, The Kramer Creek, Colorado Meteorite: A new L4 chondrite. Meteoritics 12, 95-107, 1977.
 22. K. Keil, Preface: The Angra dos Reis Consortium. Earth Planet. Sci. Lett. 35, 271, 1977.
 23. M. Prinz, K. Keil, P.F. Hlava, J.L. Berkley, C.B. Gomes, and W.S. Curvello, Studies of Brazilian meteorites III. Origin and history of the Angra dos Reis achondrite. Earth Planet. Sci. Lett. 35, 317-330, 1977.
 24. R.V. Fodor, J.W. Husler, and N. Kumar, Petrology of volcanic rocks from an aseismic rise: implications for the origin of the Rio Grande rise, South Atlantic Ocean. Earth Planet. Sci. Lett. 35, 225-233, 1977.
 25. R.J. Drozd, C.J. Morgan, F.A. Podosek, G. Poupeau, J.S. Shirck, and G.J. Taylor: Plutonium - 244 in the early solar system? Astrophys. J. 212, 567-580, 1977.
 26. F.A. Podosek, J.S. Shirck, and G.J. Taylor: ²⁴⁴Pu geochemistry and geochronology. Lunar Science VIII, 781-783, 1977.
- b) Abstracts published in proceedings of meetings and in journals.
1. M. Prinz and K. Keil, Meteoritic basalt. Geol. Soc. Amer. Abstracts for Rocky Mt. Section Meeting, 1976.
 2. D.E. Lange, K. Keil, and J.E. Welsh, The Hikiwan, Arizona, chondrite: an oriented stone, paper presented at Meteoritical Society 40th Annual Meeting, Cambridge, England, 1977.

3. G.J. Taylor, Cooling rates of LL-chondrites; Meteoritics, II, 374-375.
4. A.K. Baird, B.C. Clark, K. Keil, H.J. Rose, and P. Toulmin, The geological exploration of Mars: the U.S. Viking program. Proc., 29th Congress of the Brazilian Geological Society, 1976.
5. D.E. Lange and K. Keil, Notes on the chondrites from northeastern New Mexico; Meteoritics, II, 315-316, 1976.
6. M. Prinz, C.E. Nehru, J.L. Berkley, K. Keil, E. Jarosewich, and C.B. Gomes, Petrogenesis of the Serra de Mage cumulate eucrite, paper presented at Meteoritical Society 40th Annual Meeting, Cambridge, England.
7. G.E. Harlow, C.E. Nehru, M. Prinz, G.J. Taylor, and K. Keil, Pyroxene relations in the Serra de Mage meteorite, paper presented at Meteoritical Society 40th Annual meeting, Cambridge, England, 1977.
8. R.J. Floran, M. Prinz, P.F. Hlava, K. Keil, B. Spettel, and H. Wanke, The Johnstown orthopyroxenite (diogenite) and its relationship to meteoritic cumulates, paper presented at Meteoritical Society 40th Annual Meeting, Cambridge, England, 1977.
9. R.J. Floran, M. Prinz, P.F. Hlava, K. Keil, C.E. Nehru, and J.R. Hinthorne, Chassigny revisited: A cumulate dunite with hydrous amphibole-bearing melt inclusions, paper presented at Meteoritical Society 40th Annual Meeting, Cambridge, England, 1977.
10. J.L. Berkley, R.V. Fodor, G.J. Taylor, K. Keil, and R.M. Fruland, The Shaw meteorite: evidence for an igneous origin, Meteoritics, II, 249-250, 1976.
11. M. Prinz, K. Keil, P.F. Hlava, J.L. Berkley, C.B. Gomes, and W.S. Curvello, Studies of Brazilian meteorites. III. Origin and history of the Angra dos Reis achondrite, Meteoritics, II, 352, 1976.
12. K. Keil and C.B. Gomes, Estudo mineralogico, petrologico e quimico de meteoritos Brasileiros: revisao de um programa de pesquisa, 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 344-345, 1976.
13. E. Kirchner, K. Keil, C.B. Gomes and J. Nelen, Evidencias de metamorfismo de choque no meteorito Paranaiba, Mt., 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 346, 1976.
14. K. Keil, C.B. Gomes, and W.S. Curvello, O augita achondrito Angra dos Reis e sua importancia para a origem e historia de seu corpo parental, 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 347-348, 1976.
15. E. Kirchner, K. Keil, C.B. Gomes, and E. Jarosewich, Meteorito Sao Jose do Rio Preto, Ap. 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 349, 1976.
16. W. Paar, K. Keil, C.B. Gomes, and E. Jarosewich, Meteorito Avanhandava, Sp., 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 350 1976.

17. E. Kirchner, K. Keil, C.B. Gomes, and R.L.L. Murta, Meteorito Conquista, MG., 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 351, 1976.
 18. C.B. Gomes, K. Keil, and E. Jarosewich, Meteorito Uberaba, MG., 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 352, 1976.
 19. C.B. Gomes, K. Keil, E. Jarosewich, and W.S. Curvello, Meteorito Patri-
monio, MG., 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 353, 1976.
 20. C.B. Gomes, and K. Keil, Meteorito Sete Lagoas, MG., 29 Congresso Brasileiro de Geologia, Resumos dos Trabalhos, 354, 1976.
 21. Hlava, P.F., Lavas of unusual composition from Molokai, Hawaii, paper presented at Geological Society of America Rocky Mountain Section Annual Meeting, Albuquerque, New Mexico, 1976.
 22. W.L. Mansker, K. Keil, J. Husler, and G.R. Bauer, Petrologic investigation of an olivine-melilite-nephelinite flow in Pukele Valley, Oahu, Hawaii, paper presented at Geological Society of America Rocky Mountain Section Annual Meeting, Albuquerque, New Mexico, 1976.
 23. R.G. Warren, A.M. Kudo, and K. Keil, Rio Grande rift basalts: pleistocene alkali basalts and their inclusions, Western Fra Cristobal Range, New Mexico, paper presented at Geological Society of America Rocky Mountain Section Annual Meeting, Albuquerque, New Mexico, 1976.
 24. C.E. Nehru, R.D. Warner, and K. Keil, Opaque mineral crystallization in high titanium mare basalts. EOS 58, 430, 1977.
 25. W.L. Mansker, D.G. Brookins, G.P. Landis, and J.W. Husler, Post-devonian diatremes in Southeast Missouri: Investigation of the Avan kimberlite and some emplacement parameters. EOS, 1976.
 26. R.D. Warner, Lunar Mare basalts: a review. Geol. Soc. Amer., abstracts, 1976.
 27. B.C. Clark, A.K. Baird, H.J. Rose, P. Toulmin, K. Keil, A. Castro, and W. Kelliher, Inorganic analyses of Martian surface samples by x-ray fluorescence spectrometry. Amer. Astronom. Soc., Div. Planet Sci., 8th Ann. Meeting, Honolulu, V-28.
 28. A.K. Baird, P. Toulmin, B.C. Clark, H.J. Rose, K. Keil, and J.L. Gooding, Mineralogic-petrologic implications of Viking geochemical results from Mars: Interim report. Amer. Astronom. Soc., Div. Planet. Sci., 8th Ann. Meeting, Honolulu, V-29.
- E. Other research projects or creative work in progress or completed during period.

Klaus Keil

The following research grants and contracts were in effect during the report period.

1. Research Grant from NASA Langley Research Center, Hampton, Virginia, entitled "X-ray fluorescence analysis of Martian soil during the 1975-1976 U.S. Viking Unmanned Landing on Mars." July 1, 1972 - March 31, 1977. 75,464.00
2. Research Grant from NASA Manned Spacecraft Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1974-January 31, 1977. 165,436.00
3. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology and chemistry of polymict-brecciated stone meteorites." June 1, 1974-May 31, 1977. 91,475.00
4. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology and chemistry of brecciated stone meteorites: Impact and igneous histories of meteorite parent bodies." June 1, 1975-February 29, 1978. 78,700.00
5. Research Grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1975-Jan. 31, 1978.. 184,772.00
6. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites". Mar. 1, 1976-Feb. 28, 1979. 153,490.00
7. Research Grant from NASA Headquarters, Washington, D.C., entitled "Mineralogy, petrology, and chemistry of brecciated stone meteorites". Mar. 1, 1976-Feb. 28, 1978 67,041.00
8. Research Grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled: "Electron microprobe analysis of returned lunar samples." Mar. 1, 1976-Jan 31, 1979 ... 184,500.00
9. Research grant from NASA Langley Research Center, Hampton, Virginia, entitled: x-ray fluorescence Analysis of Martian soil via the Viking x-ray fluorescence spectrometer, April 1, 1977- Jun. 30, 1979. 36,000.00
10. Research grant from NASA Headquarters, Washington, D.C., "Mineralogy, petrology, and chemistry of brecciated stone meteorites. Mar. 1, 1977-Feb. 28, 1980.. 153,380.00
11. Research grant from NASA L.B. Johnson Space Center, Houston, Texas, entitled "Electron microprobe analysis of returned lunar samples." Feb. 1, 1977-Jan. 31, 1980. 185,548.00

Total Grants in effect

\$1,375,806.00

F. Activities in learned and professional societies.

Klaus Keil

a. Offices

Secretary, Commission on Meteorites, International Union of Geological Sciences

Secretary, Commission on Cosmic Mineralogy, International Mineralogical Association. >

Secretary, International Association for Geochemistry and Cosmochemistry.

Chairman, Leonard Medal Committee, Meteoritical Society.

b) Meetings and professional papers.

1. Houston, Texas. Chaired Lunar Sample Analysis Planning Team Meeting, Johnson Space Center, Sept. 8-12, 1976.
2. Albuquerque, N.M. Geological Society of Albuquerque, gave talk on "Geology of Mars: The U.S. Viking Missions", Sept. 21, 1976.
3. Albuquerque, N.M. American Society of Heating, Refrigerating, and Air-conditioning Engineers, Inc., presented talk on "The U.S. Viking Missions: Scientific results; Sept. 21, 1976.
4. La Jolla, California. Presented talk on "Geochemistry of Mars: Preliminary results of the Viking X-ray fluorescence spectrometer," Dept. of Chemistry, University of California, Sept. 30, 1976.
5. Albuquerque, N.M. Presented talk in Popejoy Hall, Univ. of New Mexico, on "The story of Viking: The U.S. landings on Mars". This talk was attended by 1700 people! Oct. 13, 1976.
6. Bethlehem, Pa. Co-authored three talks at the Meteoritical Society Meeting, Lehigh University, entitled "Notes on the chondrites from Northeastern New Mexico," "The Shaw meteorite: Evidence for an igneous origin", and "Studies of Brazilian meteorites III. Origin and history of the Angra dos Reis achondrite". Also organized and chaired session on the Angra dos Reis Consortium and gave introductory address.
7. Miami, Florida. Gave talks on "The origin and significance of meteorites" and "The Geology of Mars: The results of the U.S. Viking missions", Florida International University, Oct. 21-22, 1976.
8. Ouro Preto, Minas Gerais, Brazil. Participated as invited speaker at the meeting of the Geological Society of Brazil and presented an invited lecture on "The geology of Mars; The U.S. Viking Mission". Furthermore, I presented nine (9) talks on Brazilian meteorites, entitled "Estudo mineralogico, petrologico e quimico de meteoritos Brasileiros: revisao de um programa des pesquisa", "Evidencias de metamorfismo de choque no meteorito Paranaína",

"O augita achondrito Angra dos Reis e sua importancia para a origem e historia de seu corpo parental", "Meteorito Sao Jose do Rio Preto", "Meteorito Avanhandava", "Meteorito Conquista", "Meteorito Uberaba", "Meteorito Patrimonio", and "Meteorito Sete Lagoas".

9. Sao Paulo, Brazil. Taught course on "Meteoritics" in the Graduate school of the Department of Geology, University of Sao Paulo, Nov. 2-30, 1976.
10. Brasilia, Brazil. Gave Talk on "The geology of Mars: Results of the U.S. Viking Mission" at the Department of geology, Federal University of Brasilia, Nov. 18-19, 1976.
11. Salvadore, Bahia, Brazil. Presented talks on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission" at the Departments of Geology and Chemistry, University of Bahia, as well as a popular talk on "The U.S. landings on Mars" before the Salvadore Rotary Club, Dec. 4-9, 1976.
12. Recife, Pernambuco, Brazil. Presented lectures on "The origin and significance of meteorites" and "The geology of Mars: Results of the U.S. Viking Mission", Department of Geology, University of Pernambuco, and presented popular talk on "The U.S. landings on Mars", Dec. 10-13, 1976.
13. Grants, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Mission" to the AIME, Jan. 15, 1977.
14. Albuquerque, New Mexico. Gave talk on "Composition and evolution of the Martian surface: Results of the Viking x-ray fluorescence experiment" at Sandia Laboratories, Feb. 2, 1977.
15. Santa Fe, New Mexico. Presented talk on "The U.S. Viking Missions to Mars", to the Ame. Soc. of Mechanical Engineers, New Mexico Section, Feb. 4, 1977.
16. Albuquerque, New Mexico. Presented talk on "Scientific results of the U.S. Viking Missions to Mars", to the 21 Club, UNM, Feb. 14, 1977.
17. Albuquerque, New Mexico. Presented talk on "The geology of Mars: Results of the U.S. Viking Mars landings", to the Albuquerque Gem and Mineral Club, April 25, 1977.
18. Albuquerque, New Mexico. Presented talk on "Exploration of Mars: The U.S. Viking Mission", to Albuquerque Rock Hounds, June 12, 1977.
19. Taos, New Mexico. Gave talk on "The geology of Mars: The U.S. Viking Missions" (in German) at the UNM German Summer School, June 23-24, 1977.

G.J. Taylor

1. Bethlehem, Pa. Attended Meteoritical Society meeting, Lehigh Univ., and presented paper on "Cooling rates of LL-chondrites" and co-authored a paper on "The Shaw meteorite: Evidence for an igneous origin", Oct. 18-21, 1977.

2. Houston, Texas. Attended Lunar Science Conference, Johnson Space Center, and presented paper on "Petrology of Apollo 17 deep drill core I. Depositional history based on modal analyses of 70009, 70008, and 70007, March 14-18, 1977.

R.V. Fodor

1. Edinburgh, Scotland. Presented talk at the Oceanographic Congress on "Petrology of volcanic rocks from an aseismic rise: implications for the origin of the Rio Grande Rise, South Atlantic Ocean, Sept. 15-24, 1976.
2. Seattle, Washington. Gave talk on "Brecciated ordinary chondrites: Their origins and histories" at the Department of Oceanography, University of Washington, Jan. 12-14, 1977.
3. Raleigh, N.C. Presented talk on "Mineral chemistry of Hawaiian volcanic rocks" at the Department of Geology, North Carolina State University, March 13-15, 1977.

R.D. Warner

1. Houston, Texas. Attended Eighth Lunar Science Conference, Johnson Space Center, and presented talk on "Chemistry of 30 Apollo 17 rake basalts; 71597 a product of partial olivine accumulation", March 14-18, 1977.
2. Granville, Ohio. Presented talk on "Lunar basalts" at Owens-Corning Fiberglass Corporation Technical Center, March 28-29, 1977.

D. Lange

1. Bethlehem, Pa. Attended Meteoritical Society Meeting at Lehigh University and presented talk on "Notes on the chondrites from northeastern New Mexico," Oct. 18-21, 1976.

J.L. Berkley

1. Bethlehem, Pa. Attended Meteoritical Society Meeting, Lehigh University, and co-authored talk, Oct. 18-21, 1976.
2. Denver, Colorado. Attended Ann. Meeting of the Geological Society of America, Nov. 8-11, 1976.

W.L. Mansker

1. Ann Arbor, Michigan. Attended Meeting of the American Geophysical Union (mid-western Region), and presented talk on "Post - devonian diatremes in Southeast Missouri: Investigation of the Avon Kimberlite and some emplacement parameters", Oct. 21-23, 1976.

J.L. Gooding

1. Albuquerque, N.M. Gave talk on "The Viking Missions to Mars" to UNM Geology Dept. Seminar, Feb. 15, 1977.

G. Other professional activities.

Klaus Keil

1. Consultant, Sandia Laboratories, Albuquerque, New Mexico.
2. Reviewed four lunar sample proposals submitted to NASA for funding.
3. Reviewed 14 scientific papers submitted for publication to the American Mineralogist; Earth and Planetary Science Letters; Geochimica et Cosmochimica Acta; Meteoritics; and Science.
4. Radio interview with Ray Herne, Jan. 24, 1977.
5. Radio interview with KRST-FM, March 9, 1977.
6. Several interviews with the Lobo, Albuquerque Journal and Albuquerque Tribune regarding U.S. Viking Mars Missions.
7. TV interview, channel 13, on U.S. Viking Mars Missions, Oct. 11, 1977.
8. TV interview, channel 7, on U.S. Viking Mars Missions, Oct. 12, 1977.
9. Leader of the Kenna Consortium
10. Leader of the Angra dos Reis Consortium.
11. Hosted the Meeting of the Southwest Probe Users Group, April 21, 1977.

G.J. Taylor

1. Associate Editor, Proceedings of the Eighth Lunar Science Conference.
2. Reviewed five (5) scientific papers submitted for publication in Geochimica et Cosmochimica Acta, and one for Meteoritics.
3. Reviewed three grant proposals submitted for funding to NASA.

H. Non-teaching University Service

Klaus Keil

1. Administration of the Institute of Meteoritics and its collections.
2. Member of several internal committees in the Department of Geology.
3. Chairman and member of several theses and dissertation committees in the Department of Geology.
4. Member of the Dean's Committee to evaluate new proposed general science course.
5. Member of the A & S Committee on Academic Programs.

I. Public Service

Klaus Keil

1. Many private showings of moon rocks to interested citizens, school classes, civic groups, etc.
2. Many private showings of the meteorite museum to interested citizens, school classes, civic groups, etc.
3. Talk on "Geology of Mars: The U.S. Viking Missions", to the Albuquerque Geological Society, Sept. 21, 1976.
4. Talk on "The U.S. Viking Missions: Scientific results", to the New Mexico Chapter of the American Society of Heating, Refrigerating, and Airconditioning Engineers, Albuquerque, Sept. 21, 1976.
5. Presented talk in Popejoy Hall, UNM, attended by 1700 citizens on "The story of Viking: The U.S. landings on Mars," Oct. 13, 1976.
6. Presented talk on "The geology of Mars: The U.S., Viking Mission" to the ADME, Grants, N.M., Jan. 15, 1977.
7. Presented talk on "The U.S. Viking Missions to Mars" to the Amer. Society of Mechanical Engineers, New Mexico Section, Santa Fe, N.M., Feb. 4, 1977.
8. Presented talk on "The geology of Mars: Results of the U.S. Viking Mars landings", to the Albuquerque Gem and Mineral Club, April 25, 1977.
9. Presented talk on "Exploration of Mars: The U.S. Viking Mission" to Albuquerque Rock Hounds, June 12, 1977.
10. Investigated without charge many rocks suspected to be meteorites and brought in by citizens.

G.J. Taylor

1. Showed lunar samples to a Cub Scout group and to numerous other visitors.
2. Gave "Planetary Science" lecture to monthly meeting of Kiwanis Club, Albuquerque.

R.D. Warner

1. Led guided tour of Meteorite Museum for members of the Association of Science Editors, Oct. 17, 1976.

D. Lange

1. Vice-President, Central New Mexico Audubon Society.
2. President, Central New Mexico Audubon Society.
2. Member of the Candelaria Farms Nature Preserve task force which is setting up and designing a nature center.

4. Provided guided tours to 6 grade school classes to the Meteorite Museum.
5. Inspected without charge many rocks suspected to be meteorites and brought in by citizens.
6. Designed and carried out meteorite display for New Mexico Mineral Exhibition.

G. Conrad

1. Provided 11 guided tours of the Microprobe laboratory.

H.N. Planner

1. Six (6) donations of blood to United Blood Services, Albuquerque.

G.R. Huss

1. Many talks on recognizing meteorites to laymen.
2. Gave talk on "The U.S. Viking Missions" at Lost Angeles, California Auto Show, Feb., 1977.
3. Gave talk on "The U.S. Viking Missions" to Lakewood, California, Jaycees, May, 1977.

W.L. Mansker

1. Gave tour of Institute of Meteoritics, Meteorite Museum, and Dept. of Geology to Albuquerque Senior Citizens Club.
2. Committee Chairman, Rodney C. Rhodes Memorial Scholarship Committee (Sigma Gamma Epsilon).

J. Personal information

R.V. Fodor

1. Accepted position as Assistant Professor, Department of Geology, North Carolina State University, Raleigh, N.C.

H.N. Planner

1. Married to Doris J. Rhodes at Aquinas Newman Center, UNM, April 16, 1977.

THE REPORT OF THE DEPARTMENT OF HISTORY

July 1, 1976 - June 30, 1977

Gerald D. Nash, Chairman, Semester I
Donald D. Sullivan, Acting Chairman, Semester II

I. GENERAL DEPARTMENTAL INFORMATION

A. Significant Achievements

1. The following courses were added to the

History curriculum:

108-109	History of the Americas
383	Society and Development in Latin America, 1492-Present
452	Revolutionary China
456	Islam
555	Interdisciplinary Seminar, Asia

2. Activities Beyond the Formal Curriculum

- a. Two History journals, The Historian, Editor Gerald D. Nash, and The New Mexico Historical Review, Acting Editor Donald Cutter, continue to publish in the Department.
- b. New Mexico Historians Guild, initiated by the UNM History Department in 1974, met in Las Cruces in March. Fifty historians from most of the State universities met to discuss mutual interests.

- c. Professor Andre-Guillaume de Bertier de Sauvigny, of the Institute of Catholique of Paris, was a visiting lecturer on April 8. He spoke on 'Paris during the Restoration."
- d. Professor John K. Fairbank of Harvard University, Council on East Asian Studies, spoke on "China Today" during his visit to the Department on Novemeber 18.
- e. Stuart Udall, former secretary of the Interior, addressed several History classes during his campus visit, February 1-11.
- f. Professor Vagn Waahln, Senior Lecturer in Denmark, was on campus March 16. He spoke to the History Department faculty and graduate students on 'The Vikings."
- g. The History Department adopted a new set of Procedures in order to standardize the operation of the department.
- h. The second issue of the departmental Newsletter, Peter Kolchin, editor, was distributed in January, 1977. Four hundred copies were sent to other Universities and History Ph.D. alumni.

- i. An informal get-together for History undergraduate students and faculty was held in the departmental lounge on April 13. Approximately seventy students attended.
- j. The History Department held its annual dinner for faculty, staff and graduate students on May 5.

3. Honors

- a. The Phi Alpha Theta International History honorary society's William M. Dabney Award for the best paper read at a Phi Alpha Theta conference was awarded to Debra Boender, Ph.D. candidate.
- b. John Turcheneske, Ph.D. candidate, won an award for "best article of the year" in The Chronicles of Oklahoma. Michael Lawson, Ph.D. candidate, also won an award for "best article of the year" in the journal South Dakota History.
- c. Ray Burrola, Salomé Hernandez and Roberto Salmon, Ph.D. candidates, were awarded Ford Foundation Fellowships for the academic year 1976-77.
- d. Richard Melzer, Ph.D. candidate, was awarded an NDEA (Title VI) by Ibero-American Studies.

- e. The Charles Florus Coan award for the graduating senior with the highest GPA was awarded to John Martin Prechtel with a grade point of 3.88.
- f. Two Grunsfeld Awards were given to undergraduate History majors--Erik M. Johnson and Patti Robinson.

4. Teaching Positions Held by 1976-77 Graduates, Ph.D.'s

- a. Darlis Ann Miller, New Mexico State University.
- b. Veronica Tiller, University of Utah.

B. Significant Plans and Recommendations for the Near Future

- 1. The Department will undertake extensive revision of their Ph.D. requirements, especially concerning comprehensive examinations.
- 2. The Department plans to review its entire curriculum offerings and to update them in the near future.
- 3. In cooperation with the new state requirements for the Bi-lingual Education Credential, the History Department offered for the first time in the Summer of 1977 a course in the History of the Spanish Southwest given in Spanish rather than in English.

4. The Department intends to offer a course on
Ethnic and Women's History next spring
and will bring in guest lecturers.

C. Appointments to Staff

1. Visiting or Part-time Appointments

- a. Nechah Furman, U.S. survey, Semester I,
1976-77.
- b. Michael Weber, Historian and the Museum,
Semester I, 1976-77.
- c. Cortez Williams, Blacks in Latin America,
Semester II, 1977.
- d. Christon Archer, Southwestern History,
Summer, 1977.

2. New Faculty Appointments

- a. Peter Kolchin, Associate Professor, Ph.D.
Johns Hopkins University, U.S., Civil
War & Reconstruction, replaced retired
Professor George Smith, August 1976.
- b. John Marrone, Instructor, Ph.D. Cornell
University, Western Civilization, August
1976.
- c. Paul McAllister, Assistant Professor,
Ph.D. University of Missouri, U.S.
Federal Period, replaced Visiting Assis-
tant Professor Paul Brewer, August 1976.

- d. Glenn Robertson, Instructor, Ph.D. University of Virginia, U.S. survey, August 1976.

3. New Staff

- a. Janna Fendley, Secretary, July 1, 1976.
- b. Keith Ann Whalen, Assistant to the Editor, The Historian, September 1, 1976.

4. Promotions

- a. Noel Pugach to Associate Professor.
- b. Howard Rabinowitz to Associate Professor.

D. Separations from Staff

- a. Manuel Servín, leave of absence due to illness in the academic year 1976-77.

E. Deceased

- a. George Winston Smith, December 8, 1976, Professor Emeritus, U.S., Civil War.

II. Composite of information requested on individual biographical supplements: (period January 1 - December 31, 1976).

1. ADVANCED STUDY

- | | |
|------------------------|--|
| a. CONNIFF, Michael L. | Ph.D., Stanford University, May 1976, diss. title: "Rio de Janeiro During the Great Depression, 1928-1930: Social Reform and the Emergence of Populism in Brazil." |
| b. McALLISTER, Paul E. | Ph.D., July 1976, University of Missouri-Columbia. |
| c. PORTER, Jonathan | ACLS Workshop on Elites and Political Decision Making in Chinese History, Philadelphia, June 12-25, 1976. |

2. SABBATICAL, SUMMER TEACHING, TRAVEL, ETC.

- | | |
|---------------------------|--|
| a. CUTTER, Donald C. | Taught summer session at Utah State University. Historian in residence, Western Writers Seminar, Logan, Utah. |
| b. DABNEY, William M. | Travel to England, Ireland, and Scotland. |
| c. ELLIS, Richard N. | Sabbatical, Fall 1976. |
| d. KERN, Robert W. | Sabbatical, Semester I, 1976. Travel in Spain, Great Britain, France, and Canada. |
| e. LIEUWEN, Edwin | January, Venezuela, Honored Guest at Oil Nationalization Ceremonies. |
| f. MARRONE, John T. | Christmas 1976 travel to Egypt. |
| g. McCLELLAND, Charles E. | Research trip to San Francisco area, May and June, 1976. Teaching at German Summer School of New Mexico, Taos, June-July 1976. |

- h. PORTER, Jonathan Sabbatical leave from 8/76. Travel in Taiwan (Republic of China), Hong Kong, Macau. Research at the Institute of Modern History, Academia Sinica and the Archives of the National Palace Museum, Taipei, Taiwan.
- i. ROBBINS, Richard G., Jr. Sabbatical during 1975-76 academic year. From Feb. to June 1976 I was in the Soviet Union doing research.

- j. SLAUGHTER, M. Jane Research - summer 1976 at N. Y. Public Library.

3. NEW SCHOLASTIC HONORS

- a. CONNIFF, Michael L. Awarded Research Allocations Committee grant of \$1500 for research in Brazil in Summer 1977, project entitled, "Urban Politics in Brazil."
- b. CUTTER, Donald C. Named Honorary Hidalgo of San Antonio.
- c. KERN, Robert W. Winner, Humanities Research Grant (renewable), American Philosophic Society, for preparation of The Anarchist International: The International Workingmen's Association 1922-1939.
- d. KOLCHIN, Peter National Endowment for the Humanities Fellowship (Aug. 1975-July 1976). Charles Warren Center, Harvard Univ., Fellowship (Sept. 1975-June 1976).
- e. LIEUWEN, Edwin Appointed Professor of Sociology (UNM), June 1976.
- f. MCCLELLAND, Charles E. Research Allocations Committee summer research grant.

- g. PORTER, Jonathan Fellowship for research in Chinese Civilization, American Council of Learned Societies.
- h. RABINOWITZ, Howard N. UNM Research Allocations Committee Grant for research in Montgomery, Alabama.
- i. ROBBINS, Richard G., Jr. Fellowship from the International Research and Exchanges Board for research in the USSR.

4. PUBLICATIONS

BOOKS

- a. NASH, Gerald D. Reprint of U.S. Oil Policy, 1890-1964 by Greenwood Press, 1976.

ARTICLES

- a. BERTHOLD, Richard M. "The Rhodian Appeal to Rome in 201 B.C.," Classical Journal 71 (1975-76) pp. 97-107; "Tell Us Another One, Vitruvius," accepted by Classical Philology; "Which Way to Marathon?" accepted by Revue Des Etudes Anciennes.
- b. CUTTER, Donald C. Four articles for Dictionary of Canadian Biography on "Tadeo Haenke," "Alejandro Malaspina," "Tomas de Suria," and "José Cardero"; three contributions to the Encyclopedia of Southern History on "The Santa Fe Trade," "Pedro Menéndez de Aviles," and "The Exploration of the South"; foreword for Fireman The Royal Corps of Engineers in The Western Borderlands (Glendale, Arthur Clark Co., 1976);

présentation of Turner, Frontiers in American Hist. in Edward Connery Latham, ed., 76 United Statesiana, Bicentennial Exhibition volume of the American Association of Research Libraries; "Prelude to a Pageant in the Wilderness" in Western Historical Quarterly, January 1977.

c. DABNEY, William M.

"The Unlucky Charles Cochrane," Proceedings of the Conference on Scottish Studies, 1976, Volume No. 3, pp. 32-47.

d. ELLIS, Richard M.

"Commentary" in Indian-White Relations: A Persistent Paradox, ed. by Jane Smith and R. Kvasnicka, Howard Univ. Press, 1976, pp. 146-151; "Published Source Materials on Native Americans," Western Historical Quarterly, April 1970, v. 7, pp. 187-192; "Indians at Ibapah in Revolt," Nevada Historical Society Quarterly, Fall 1976, v. 19, pp. 162-170.

e. IKLÉ, Frank W.

"The Franco-Japanese Agreement of 1907, Seedbed of diplomatic revolution and midwife to World War I," in Festschrift in Honor of the 70th Birthday of Woodbridge Bingham, China National Publication Co., Taipeh, Taiwan, December 1976.

f. KERN, Robert W.

"Anarchist Principles and the Reality in Spain: Emma Goldman as a Participant in the Civil War, 1936-1939," The Journal of Contemporary History, 11 (1976), pp. 237-259.

- g. KRAMER, Steven P. "Neo-socialism: the belgian case," Res Publica, 1976, volume 13, no. 1, pp. 59-80; "Gance's Beethoven," Sight and Sound, 1976, vol. 45, no. 2, pp. 109-111, co-author: James Welsh; "The Myth of Soviet Aggression," Commonweal, 1976, vol. 113, no. 12, pp. 359-362, co-author: Leo Friedmann; "Education for Equality?," Commonweal, 1976, vol. 113, no. 3, pp. 81-83.
- h. McCLELLAND, Charles E. "A Step Forward in the Study of Universities," Minerva, 1976, Volume 14, No. 1, pp. 150-161; "Aristocracy and University Reform in Eighteenth-Century Germany," in Lawrence Stone (ed.), Schooling and Society. Studies in the History of Education (Baltimore: Johns Hopkins University Press, 1976), pp. 146-173.
- i. NASH, Gerald D. "Gross National Product, or Product of National Grossness," Reviews in American History, Vol. 4 (June 1976), pp. 237-243.
- j. PORTER, Jonathan "Review of the Regional Conferences of the Association for Asian Studies," Asian Studies Professional Review, pp. 16-23, vol. V (Fall/Spring 1975-76); "Image and Reality in the Mu-fu: A Review Article," Ch'ing-shih-wen-t'i, vol. 3, no. 5 (November 1976), pp. 91-110.
- k. PUGACH, Noel H. Article accepted for publication: "American Friendship for China and the Shantung Question at the Washington Conference," Journal of American History.

1. RABINOWITZ, Howard N. "From Reconstruction to Redemption in the Urban South," Journal of Urban History, vol. 2, no. 2 (February, 1976), pp. 169-194; "The Washington Legend 1865-1900: The Heroic Image in Flux," American Studies, vol. 17, no. 1 (Spring, 1976), pp. 5-24; "From Exclusion to Segregation: Southern Race Relations, 1865-1890," Journal of American History, vol. 63, no. 2 (September 1976), pp. 325-350; "The Conflict Between Blacks and the Police in the Urban South, 1865-1900," The Historian, vol. 39, no. 1 (November, 1976), pp. 62-76.
- m. ROBBINS, Richard G., Jr. "Russia's Famine Relief Law of June 12, 1900: A Reform Aborted," Canadian-American Slavic Studies, V, no. 1 (Spring, 1976), pp. 25-37.
- n. SLAUGHTER, M. Jane Article accepted for publication: "Women and Socialism: The Case of Angelica Balabanoff" for April 1977 Social Science Journal.
- o. SULLIVAN, Donald "Innuendo and the 'Weighted Alternative' in Tacitus," The Classical Journal 71 (1976), pp. 312-326.
- p. SZASZ, Ferenc M. "The Many Meanings of History," (reprinted as a complete pamphlet, Long Beach, California, 1976); contributor to "The Many Meanings of History, Part IV" The History Teacher, IX (February, 1976), pp. 217-227.

BOOK REVIEWS

a. CONNIFF, Michael L.

Forman, Shepart, The Brazilian Peasantry in Modern Language Journal (Dec. 1976).

b. CUTTER, Donald C.

Beck and Haase, Historical Atlas of California, in Journal of the West; Kushner, The Long Road to Delano, in International Migration Review; Stanton, The Great U.S. Exploring Expedition, in Journal of San Diego History; Mathes (ed.), Californiana III, Documentos para la historia de la transformacion colonizadora de California, 1679-1686 (3 vols.) in The Americas; Miller, Horn's Fort, in History, Reviews of New Books; Moorhead, The Presidio: Bastion of the Spanish Borderlands, in New Mexico Historical Review; Denver Public Library, Nothing Is Long Ago, in Journal of the West; Gibson, The West in the Life of the Nation, in History, Reviews of New Books; The Spanish Speaking in the United States, in Latin American Research Review; Darley et al, The Penitentes of New Mexico, in Hispanic American Historical Review; Nasatir, Borderland in Retreat: From Spanish Louisiana to the Far Southwest in Pacific Historical Review; Burma, Spanish-Speaking Groups in the United States, in Latin American Research Review.

c. DABNEY, William M.

Evans, Emory G., Thomas Nelson of Yorktown: Revolutionary Virginian in American Historical Review, Oct. 1976, vol. 81, pp. 963-964.

d. ELLIS, Richard N.

A. Hoopes, The Road to the Little Big Horn in Journal of American History, March 1976; Hudson, Four Centuries of Southern Indians in Journal of Southern History, May 1976; Carroll, The Papers of the Order of Indian Wars in American Historical Review; Kroeker, Great Plains Command in Journal of American History, Dec. 1976; Adams & Chavez, The Missions of New Mexico, 1776 in American West, Dec. 1976; Minge, Acoma in American West, Dec. 1976; Briggs, Without Noise of Arms in American West, Dec. 1976; Chavez, The Dominguez-Escalante Journal in American West, Dec. 1976; Dutton, Indians of the American Southwest in Journal of Arizona History, Spring 1976; Terrell, The Plains Apaches in Chronicles of Oklahoma, Fall, 1976; Faulk, Crimsoned Desert in Nevada Historical Society Quarterly, Summer 1976; Magnussen, Peter Thompson's Narrative of the Little Big Horn Campaign in Southern California Historical Quarterly, Fall 1976; Dary, The Buffalo Book in American Indian Quarterly.

e. IKLÉ, Frank W.

Franz Schuette "Erinnerungen aus der Christenheit von Omura," Journal of Asian Studies, November 1976.

f. KRAMER, Steven P.

Smith, Paul (ed.), The Historian and Film, in Teaching History, 1976, vol. 1, no. 2, pp. 78-79.

g. LIEUWEN, Edwin

Tugwell, Politics of Oil in Venezuela, in Hispanic American Historical Review, May 1976, pp. 353-359.

h. NASH, Gerald D.

Frank Evans and Harold Pinckett (eds.), Research in the Administration of Public Policy, in Journal of Southern History, vol. 42 (February, 1976), pp. 138-139; Jeffrey G. Williamson, Late 19th Century American Economic Development, in Canadian Journal of History, vol. 10 (January, 1976), pp. 435-436; Morris Hundley, Water in the West, in Western History Quarterly (June, 1976), pp. 310-311; Kevin Starr, Americans and the California Dream, 1850-1915, Hal Williams, The Democratic Party and California Politics, 1880-1896, and Walter J. Stein, California and the Dust Bowl Migration, in The Historian, vol. 39, no. 1 (November, 1976) pp. 158-60.

i. PUGACH, Noel H.

Harold Joyce Noble, Embassy at War, in American Historical Review, vol. LXXXI (Oct. 1976), pp. 1004-1005.

j. RABINOWITZ, Howard N.

John Mercer Langston, From the Virginia Plantation to the National Capitol, in Reprint Bulletin-Book Reviews, XX (Winter, 1975-76), p. 15.

k. ROEBUCK, Janet

Pinchbeck & Hewitt, Children in English Society, in Societas, vol. V, no. 2, Spring, 1975

1. SZASZ, Ferenc M.

William R. Hutchinson, The Modernist Impulse in American Protestantism, in Choice, October, 1976, p. 1000; Luther Lee, Five Sermons and a Tract, in Choice, February, 1976, p. 1590.

5. RESEARCH

COMPLETED RESEARCH

- a. CONNIFF, Michael L.

MS article entitled, "The Tenentes in Power: A New Perspective on the Brazilian Revolution of 1930"; "Embratur," for International Encyclopedia of Economic and Social Institutions, forthcoming; "Guayaquil Through Independence: Urban Development in a Colonial Setting," for The Americas, forthcoming, January 1977.

- b. DABNEY, William M.

Summer 1976, research in the British Library (British Museum) and National Library of Scotland, Edinburgh.

- c. ELLIS, Richard N.

History of the All Indian Pueblo Council; New Mexico history, with Warren Beck; biographical sketch of Robert Bennett for book on commissioners of Indian Affairs.

- d. IKLÉ, Frank W.

Article completed, "Diplomacy in East Asia: An Expression of General World Views."

- e. KERN, Robert W. Publication accepted for Red Years/Black Years: A Political History of the Spanish Anarchists 1911-1937, by the Institute for the Study of Human Issues, American Philosophical Society; two articles accepted for publication in 1977 or 1978.
- f. KRAMER, Steven P. Between December 5 and January 8, with a grant from the Research Allocation Committee, I did research in Belgium on the topic of Belgian socialism: 1944-1950.
- g. MARRONE, John T. Study of Duke University Medieval Manuscript.
- h. McCLELLAND, Charles E. Completed chapter, "The German Parallel," for Martin Meyerson (ed.), The Future of the Research University (publication planned for 1977).
- i. NASH, Gerald D. Consultant, Great Plains History Project, Univ. of Mid-America, preparation of course guides, 44 pp.; consultant, Univ. of Tennessee Press; article on State and Local Economic Policies for Dictionary of American Economic History to be published by Scribner (10,000 words).
- j. RABINOWITZ, Howard N. Finished book length ms. entitled Race Relations in the Urban South 1865-1890 and had it accepted for publication by Oxford University Press; revised "The Washington Legend 1865-1900:..." for publication as "George Washington as Icon 1865-1900" in Ray B. Browne (ed.) Uncle Sam's Icons (Popular Press, 1977).

k. ROEBUCK, Janet

Reviews of Samuel Village
Life and Labour, Cullen
The Statistical Movement,
and Weisser Brit. Working
Class Movements forthcoming
in American Historical
Review.

l. SULLIVAN, Donald

Article completed,
"Augustinian and Joachite
Elements in the Millenarian
Ideology of Cusanus."

RESEARCH IN PROGRESS

a. BAKEWELL, Peter J.

Continued work on book on
the history of silver mining
in Potosí (Bolivia) and in
colonial Spanish America
in general.

b. BERTHOLD, Richard M.

Working on book on Rhodes.

c. DABNEY, William M.

Research on the Cochrane
family in progress.

d. KERN, Robert W.

Research continued on The
Anarchist International and
a textbook, The Inter-Left
from Marx to Mao.

e. KOLCHIN, Peter

Continued research on long-
term project, a comparative
study of American slavery
and Russian serfdom.

f. LIEUWEN, Edwin

Biography of Alvaro
Obregon continued; Bancroft
Library Research; history of
OPEC continued; research in
Caracas, Venezuela.

g. McALLISTER, Paul E.

Studies of Ante-Bellum
Politics in Missouri and
of Ante-Bellum Political
Practices in progress.

h. McCLELLAND, Charles E.

Continuing work in progress
on a book on the evolution
of the German university
system, 1700-1914.

- i. PORTER, Jonathan Research on Bureaucracy, Innovation, and Technical Expertise in China, 1800-1970 in progress, supported by ACLS Grant for Research in Chinese Civilization.
- j. PUGACH, Noel H. A Study of the China Arms Embargo in the 1920s.
- k. RABINOWITZ, Howard N. Working on a book review for Reprint Bulletin-Book Reviews and review article for South Atlantic Urban Studies; continued research for articles on Mayor T.A. Kercheval of Nashville and black politician Holland Thompson of Montgomery.
- l. ROBBINS, Richard G., Jr. Current research; Russian Provincial Governors, 1880-1905.
- m. ROBERTSON, W. Glenn The Civil War in the Suffolk-Franklin-Zuni Triangle, and The Battle of the Crater both in progress.
- n. SLAUGHTER, M. Jane Articles in progress - "Methodology and Approach to the Study of Women in Western Civilization" and "Women in the Spanish Civil War and Italian Resistance"; continuing work on text for survey course on History of Women.
- o. SULLIVAN, Donald Monograph on the end of the Middle Ages as reflected in modern historiography in progress.

6. ACTIVITIES IN LEARNED AND
PROFESSIONAL SOCIETIES

a. BAKEWELL, Peter J.

Attended annual meeting of South Eastern Conference on Latin American Studies, Miami, May 1976 and there was commentator in a session on foreigners in colonial Spanish America; attended annual meeting of American Society for Ethnohistory, Albuquerque, October 1976 as commentator, participant, and presented a paper there; attended annual meeting of American Historical Association, Washington D.C., December 1976 and presented a paper; became member of Committee on Historical Statistics, Conference on Latin American History.

b. CUTTER, Donald C.

Served as President of Western History Association until October; gave Presidential address at Annual Conference in Denver; presided over annual business meeting and two regular meetings of the WHA Council (St. Louis and Denver); member of Steering Committee for Southwest Bicentennial; Chairman of the Senior Seminar, Southwest Bicentennial Celebration, at Flagstaff; attended the annual conference of the Organization of American Historians, St. Louis; Independent evaluator, National Endowment for the Humanities and for National Endowment for the Arts; Honorary Director of Westerners International; delivered two addresses in the Symposium on the Hispanic Roots of California, sponsored by the Del Amo Foundation (talks to be publ.); Chairman of session

of the Western Social Science Conference, Tempe; Chairman of session on Modern New Mexico at Regional Phi Alpha Theta Conference, Santa Fe; Delivered paper at Symposium on the Spanish Colonization of the American Southwest in the Late 18th Century at Univ. of California, San Diego (talk to be publ.); delivered lecture as part of a series "The Missions of San Antonio-A Heritage for All Americans," at Mission San Francisco de la Espada (talk publ.); lecture at Oklahoma State Univ. sponsored by Phi Alpha Theta; spoke to Senior Seminar, Cameron State Univ., Lawton, Okla.; spoke to Oklahoma City Civil War Round Table; spoke twice in the H.C. Pender Distinguished Lecturer Series at Central State Univ., Edmond, Okla.

c. DABNEY, William M.

Attended Western Social Science Association meeting, Tempe, and read paper.

d. ELLIS, Richard N.

Program chairman, Indian Studies section, Western Social Science Assoc. conference; Chairman, sites selection committee, Western History Association; member, board of editors, Red River Valley Historical Review; member, board of editors, American Indian Quarterly; member, board of editors, Teaching History; Chairman of session, Arizona History Conferences and Seminars in Celebration of Civilization in the Southwest; participant in Senior Seminar & Symposium on the Southwest;

- attended conferences of the Organization of American Historians, Western History Association, Western Social Science Assoc., Inter-mountain Archivists, Symposium on Agriculture in the Great Plains, Phi Alpha Theta regional meeting, New Mexico Archival and Historical Collections Conference; member of Advisory Council, National Archives and Records Service; membership committee, Organization of American Historians; membership committee, Western History Association.
- e. IKLÉ, Frank W. Member, Executive Board, Western Conf. of Assoc. of Asian Studies; Regional Representative of WCAAS to Association of Asian Studies; paper read, WCAAS, Flagstaff, Oct. 1976.
- f. KERN, Robert W. Board of Directors, International Labor and Working Class History Assoc.; member, The American Historical Assoc. and the Society for Spanish and Portuguese Historical Studies; chaired panel at Los Angeles meeting of latter on New Mexico Labor history, April, 1976.
- g. KOLCHIN, Peter Commentator at Organization of American Historians Convention, St. Louis, April 1976.
- h. LIEUWEN, Edwin Pacific Coast Branch Meeting of Amer. Hist. Assoc., La Jolla, Aug. 1976 - chairman of one session; Amer. Hist. Assoc. Meeting, Washington D.C. (attended).

- i. McCLELLAND, Charles E. Commentator on Session V at Southern Historical Assoc. Annual Meeting, Atlanta, Nov. 1976.
- j. NASH, Gerald D. Editor-in-Chief, The Historian; attended Amer. Hist. Assoc, Pacific Coast Branch, convention La Jolla, Calif., August 1976, member Executive Council, member of Program Comm.; attended Western Hist. Assoc. meeting, Denver, October 1976, chairman, session on Curators.
- k. PORTER, Jonathan Executive Secretary, Western Conference, Association for Asian Studies; Chairman, Ad Hoc Committee on Regional Conferences, Assoc. for Asian Studies; attended annual meeting AAS, Toronto, March, 1976; member of panel, Western Conference AAS annual meeting, October, 1976, Flagstaff.
- l. PUGACH, Noel H. Attended and read a paper, annual meeting of the Pacific Coast Branch of the Amer. Historical Assoc. (San Diego) August, 1976; member, Board of Editors, Proceedings of the Western Conference of the Assoc. for Asian Studies, 1975-76.
- m. RABINOWITZ, Howard N. Attended Organization of American Historians Convention, St. Louis, April 1976; comment presented at the Southern Historical Assoc. Convention, Atlanta, November 1976.
- n. ROBBINS, Richard G., Jr. Attended the National Convention of the American Assoc. for the Advancement of Slavic Studies, Oct. 1976.

- o. SLAUGHTER, M. Jane Paper read, Western Social Science Conference, Arizona State Univ., May 1976; attended Berkshire Conference on Women's History, Bryn Mawr, June 1976; appointed Program Chair for Women's Program of WSSA Conference.
- p. STEEN, Charlie Presented paper at the annual meeting of the Western Society for French History (paper will be published in the Proceedings of the society); continued on the Advisory Board of the Society.
- q. SZASZ, Ferenc M. Read paper at Southwestern Social Science Association Meeting in Dallas, April 1976 (the paper won a cash award as the best paper in American History for that meeting).

7. OTHER PROFESSIONAL ACTIVITIES

- a. CUTTER, Donald C. Served as acting editor of the New Mexico Historical Review from May to Dec.; interviewed on KOB Radio, Albuquerque; TV interview on "En San Antonio" Spanish station, Ch. 21; TV interview on "Roth's Round-up" Ch. 9, Denver; master of ceremonies at Phi Alpha Theta Annual Conference Banquet; MC of Southwest Bicentennial Banquet, Flagstaff; MC of West. Hist. Assn. Annual Banquet, Denver; manuscript opinion for Pacific Northwest Quarterly; MS opinion for books by Univ. of New Mexico Press and Univ. of Texas Press; MS opinion for The American West; MS opinion for Western Historical Quarterly; spoke to Oklahoma City Civil War Roundtable travelling study group.

b. DABNEY, William M.

Several off-campus speeches to various groups in the city.

c. ELLIS, Richard N.

Consultant, Pueblo Cultural Center; Consultant, Indian Pride on the Move, a traveling exhibition of Native American Art presented by the National Park Service; paper, 7th Military Hist. Symposium, The American Military on the Frontier, U.S. Air Force Academy, Oct. 1976; lecture on American Indian Hist., Univ. of Colorado, Feb. 1976; banquet address, New Mexico Geneological Society, May 1976; lectures on American Indian Hist., Univ. of Montana, June 1976; lecture on New Mexico territorial history, Museum of New Mexico, Dec. 1976; speaker at forum at San Juan College, Farmington and at Shiprock Chapter House, Navajo Tribe, Aug. 1976; member, New Mexico Historical Records Advisory Board; member Humanists and Public Policy Project, National Endowment for the Humanities and Federation of Rocky Mountain States; member of Human Resources Council of the Federation; judge American Legion Prize contest; judge; Calvin Horn Historical Scholarship Contest; reviewed grant proposals for National Endowment for the Humanities; reviewed manuscripts for New Mexico Historical Review; reviewed manuscripts for Brigham Young Univ. Press; reviewed manuscripts for The Historian, Teaching History, Military Affairs, American Indian Quarterly.

- d. IKLE, Frank W. Member, New Mexico Humanities Council; contributor to ABC Clio; talk on "Modern Japan," sponsored by Japanese Consulate General, Albuquerque, March 1976; talk on "Oriental Music," Menaul High School, Spring 1976.
- e. KERN, Robert W. Panelist for the Endowment of the Humanities sponsored "Collective Bargaining for Public Employees" given in Santa Fe, Feb. 1976.
- f. KOLCHIN, Peter Talk on "American Slavery and Russian Serfdom" at History Colloquium, Clark Univ., Worcester, Mass., March 1976; lecture on "Patterns of Resistance to American Slavery and Russian Serfdom" at Alfred Univ., Alfred, NY, April 1976.
- g. KRAMER, Steven P. Lectures to the Alliance Francaise of Albuquerque and of Santa Fe on "Abel Gance et le septième art"; panelist on New Mexico Humanities Council program on abortion.
- h. LIEUWEN, Edwin Consultant, Shell Oil Co., Houston, Sept. 1976; consultant, U.S. State Dept. sponsored UNM project on Latin American Oil, Sept. 1976.
- i. McALLISTER, Paul E. Consultant to Missouri Valley Research Consultants, Columbia, Mo.
- j. McCLELLAND, Charles E. Consultant to W.W. Norton & Co., publishers.
- k. NASH, Gerald D. Distinguished Centennial Lecturer, Texas A & M Univ., April 1976; featured speaker, Albuq. Press Club, Sept. 1976; panelist, radio KPIM, Oct. 1976; Charles H.

- Redd Lecture, Brigham Young Univ., Oct. 1976; consultant, N.M. Attorney-General-anti-trust division.
- l. PUGACH, Noel H. Lecture, "America and the World," American Issues Forum, March 1976; panelist, "New Mexico in the Nation and the the World," New Mexico Issues Forum, Oct. 1976.
- m. RABINOWITZ, Howard N. Return engagement on "Dialog," KOB Radio to discuss urban problems, Feb. 1976; discussed my book about Albuquerque on "UNM Voices," KNME TV, Oct. 1976; referred articles for The Historian and Social Service Review.
- n. SKABELUND, Donald Member, panel of evaluators for museum projects on history of quantification of temperature and heat, National Endowment for the Humanities; collaborated with Donald Sullivan on preparing and introducing new course, History of Christianity.
- o. SLAUGHTER, M. Jane Participant, AAUW and N.M. Humanities Council symposium, Historical Perspectives on Women, Los Alamos, Jan. 1976; guest lecture for Executive Program of Anderson School of Business, April 1976.
- p. SZASZ, Ferenc M. Public talk, "American Food; Its History and Future," given at First Congregational Church, March 1976; public talk, "Growing Up In America," for N.M. Humanities Council given April 1976; public talk, "History of the American Family" for N.M. Humanities Council, given Nov. 1976.

3. NON-TEACHING UNIVERSITY ACTIVITIES

- a. BAKEWELL, Peter J. History Dept. Curriculum Committee, August 1976; member of History Dept. Interim Graduate Entrance Committee, Summer 1976.
- b. BERTHOLD, Richard M. Member University Senate; role in faculty-staff charity show.
- c. CUTTER, Donald C. Member of University Press Committee; member of LAS Dean's Promotional Review Comm. for the Humanities; member of Library Search Comm. for Director of Spec. Coll.; member of President's Task Force on Latin Amer.; chairman, Board of Editors, New Mexico Historical Review; Departmental Curriculum Comm.; Departmental Job Placement Comm.
- d. DABNEY, William M. Departmental Graduate Advisory Committee and various ad hoc committees.
- e. ELLIS, Richard N. Faculty advisor, Phi Alpha Theta; member, Search Comm. for head of Spec. Coll. in library; member, Dept. Search Comm. for Civil War and for Early National periods; member, board of editors, New Mexico Historical Review; member, UNM Bicentennial Comm.; Book Review editor and author of book notes, New Mexico Historical Review.
- f. IKLÉ, Frank W. Member, Research Policy Comm.; Chairman, Annual Research Lecture Comm.; Departmental Salary Comm.; Dept. Graduate Entrance Comm.

- g. KOLCHIN, Peter Member of ad-hoc comm. to plan a new interdisciplinary course in the humanities, Nov. 1976; editor, History Dept. Newsletter, Fall 1976.
- h. KRAMER, Steven P. Interim member of Senate, Fall 1976.
- i. LIEUWEN, Edwin Member, A&S Tenure Comm., Jan.-June 1976; Chairman, A&S Tenure and Contract Renewal Comm., Sept.-Dec. 1976.
- j. McCLELLAND, Charles E. Editor, History Department Newsletter; Chairman, Graduate Advisory Comm.; Graduate Advisor, Dept. of History; member, Retirement and Insurance Comm. (UNM); contributor of reviews to the New Mexico Independent.
- k. NASH, Gerald D. Departmental Chairperson; Nominating Comm. Phi Beta Kappa chapter.
- l. PORTER, Jonathan Assistant Chairman, History, term ending May 1976; Dept. of History Curriculum Comm.
- m. PUGACH, Noel H. Dept. of History Liaison with the Library; member and chairman, Dept. of History Graduate Entrance Comm.
- n. RABINOWITZ, Howard N. Member of Dept. Graduate Entrance Comm.; member of antebellum search comm., Spring 1976; member of Ad Hoc Dept. Comm. on Goals.
- o. ROEBUCK, Janet Summer session Chair, History, 1976; Committee on Academic Freedom and Tenure, Chair, 1975-76; Athletic Council Member; Dept. Curriculum Comm.

p. SLAUGHTER, M. Jane
Member, Women's Studies Comm.; member, Univ. Comm. of Five; member, Univ. EEO Comm.; member Student Standards Comm.

q. STEEN, Charlie R.
Undergraduate Advisor for the Dept. of History; Summer chairman of the Graduate Entrance Comm. of the Dept.

r. SULLIVAN, Donald
Univ. Library Comm.

9. PUBLIC SERVICE

a. CUTTER, Donald C.
Member of Board of Deacons, Immanuel Presby. Church; spoke to ABQ Caravan Club; spoke to Immanuel Presby., Adult Class on the Historian and the Church; judge in Calvin Horn scholarship essay contest on N.M.

b. DABNEY, William M.
Member of the Liturgical Commission, Episcopal Diocese of the Rio Grande.

c. ELLIS, Richard N.
Author with Don Cutter of Bicentennial Notes series in Campus News.

d. IKLÉ, Frank W.
Vice President, Swiss-American Society of New Mexico; talk to Albuquerque Medical Society on "Bushido," Dec. 1976.

e. KRAMER, Steven P.
Member, executive board, Alliance Francaise; project director, New Mexico Humanities Council program on abortion.

f. NASH, Gerald D.
Consultant, N.M. Attorney-General's Office.

g. PUGACH, Noel H.
Chairman, Chavura Hebrew School Comm.; member Israel subcommittee of JCCA; member of Board of Directors, Experiment in Jewish Learning; Precinct Chairman, Democratic Party.

- h. SKABELUND, Donald Sunday school supervisor,
Albuquerque Stake, L.D.S.
Church; several talks,
History of Christianity,
for L.D.S. faculty seminars.
- i. SZASZ, Ferenc M. Talk, "Myths About Abraham
Lincoln" given at Jefferson
Jr. High, March 1976.

10. PERSONAL INFORMATION

- a. CONNIFF, Michael L. Son, Andrew Sebastian,
born June 10, 1976.

REPORT OF THE NEW MEXICO HISTORICAL REVIEW

JULY 1, 1976 - JUNE 30, 1977

DR. DONALD C. CUTTER, ACTING EDITOR

During the year 1976-1977, the NEW MEXICO HISTORICAL REVIEW published sixteen scholarly articles on a broad range of topics appropriate to the REVIEW's coverage and purposes. Authors represented established professors from both New Mexico and from outside the state, including Berkeley, University of Alberta, Purdue, and Texas A & M., as well as from unusually competent graduate students and representatives of various institutions such as the National Park Service and National Archives.

After Dr. Manuel Servin's incapacitation from a severe stroke, Dr. Donald C. Cutter became Acting Editor, and continues in that capacity to the present. This temporary appointment brought to the REVIEW the then President of the Western History Association, a well known historian with several decades of experience in writing and as advisor for historical journals such as THE AMERICAN WEST, JOURNAL OF THE WEST, and THE AMERICAS.

Staff appointments included James T. Stensvaag as Assistant Editor, Professor Richard N. Ellis as Book Review Editor, and Nancy M. Brown as Staff Secretary. Editorial Assistants were Marti Mead and Truett Clearman.

Consistent with the new editorial policy that the NEW MEXICO HISTORICAL REVIEW should bear a positive relationship to the instructional program of the UNM History Department, the REVIEW worked closely with students enrolled in the course in Editing Historical Journals, establishing a relationship which permitted student professional growth as well as assistance to the REVIEW in preliminary evaluation of articles and in various phases of editing.

A positive effort was made to widen the array of authors and articles in the REVIEW with positive results. Reviews and manuscripts show participation by a variety of professional historians who have provided high quality material and whose association with the REVIEW has had definite benefits.

In an effort to strength the REVIEW the Acting Editor and staff have launched many additional activities. The REVIEW has augmented its exchange program with the Zimmerman Library Serials Department, with some 100 copies being sent to participating institutions, a considerable savings to library serials funding. Cooperating with the History Honor Society, Phi Alpha Theta, the REVIEW manned a booth at the Hispanic

Village of the New Mexico State Fair. TV coverage and newspaper commentaries have featured the REVIEW in recent months. The staff of the REVIEW sold the journal at the State Archaeological Conference, the State Historical Society Meeting, and museums and bookshops of the area with great success in new subscriptions and back issue sales. The REVIEW acted as judge for the Calvin Horn Historical Essay Contest for state high school students, awarding four future students scholarships in history to the state university of their choice.

Expanding the REVIEW's field of community involvement, the office in cooperation with the Albuquerque Museum and the Museum of New Mexico sponsored the Conference on Cultural Conflict in June. The New Mexico Humanities Council funded this project. A 1978 edition of the journal will be dedicated to the issues and participants of this conference.

As a member of the History Department faculty, Editor-Professor Cutter's activities are contained in that department's annual report, they are only summarized here. Dr. Cutter served as:

1. Historian in Residence, Western Writers Conference, Logan, Utah
2. Summer Session Professor, Utah State University, 1976

3. Guest Lecturer at Oklahoma State University
Cameron University (2)
Oklahoma City Civil War Round Table
H.C. Pender Distinguished Lecturer,
Central State University, University
of Calgary, Alberta
4. Paper at Symposium on Spanish Colonization in the
Southwest at University of California, San Diego

Address at Presidential Luncheon, Western History
Association, Denver

Paper at Symposium on the Art and History of Spain
in Americas, Santa Fe

Paper at Cultural Conflict Conference, Albuquerque
Museum

Channel 9 TV, Denver
5. Chaired Sessions, RMCLAS, Tuscon and Western Social
Conference, Denver
6. Attended, Organization of American History Conference,
Atlanta

The Report of the Department of Journalism
July 1, 1976 - June 30, 1977
J. P. Crow, Chairman

I. General Departmental Information

A. The department stiffened the requirements for majors in news editorial and broadcast news sequences and for the departmental minor. News editorial majors now are required to complete 33 hours in the major, with more reporting-writing courses required. Broadcast news majors still have to complete 33 hours in the major, but now with more courses in the broadcast-news sequence. Minors now are required to complete 21 hours (compared with 18 previously) and the added requirement of taking copy editing-makeup and intermediate reporting courses. The department also now requires that in sequential courses, students must make a minimum grade of "C" to go on to the second level course. This was done to preclude students getting "Ds" in courses from going on. A final step taken by the department was to discourage beginning freshmen from taking the basic newswriting courses (200 level). To do this the department now opens the class to students with 24 hours credit or declared journalism majors with 15 hours university credit and a 2.0 GPA.

B. The department through a matching grant expects to install a computerized, electronic editing system for reporting and editing courses sometime in the fall semester. The addition of this equipment will be a major step in bringing the teaching facilities of the department in line with what is being used in a majority of the newspapers in the country today. The department hangs in limbo in updating the technical equipment in the broadcast news sequence until the university committee makes

a recommendation regarding centralizing all TV facilities. The need for access to such equipment remains crucial to the department's offerings and teaching quality in broadcast news.

Allocation of bond issue will help make a small dent in the updating of the department's still photography facilities, but more will be needed in the immediate future.

The consideration of strengthening the advertising-public relations sequence has not gotten very far and can not until such time as the department is given the go ahead to add a full-time faculty member in this area. The need for such a position continues to increase as more students seek careers in these areas and the demand for such graduates is increasing even more rapidly. This will have to be given serious consideration for the next year.

C. No new appointments were made to the staff this year.

D. No separations from staff were made this year.

II. Composite of information requested on individual biographical supplements.

1. Professor Charles Coates worked on a special group in Washington, D.C. to evaluate government film production and establish means by which to reduce duplication and expense among film productions planned by government agencies.

Professor Coates continues to serve as chairman of the Student Radio Board.

2. Dr. James Crow was the only American on a 15-delegate tour of the mass media in West Germany in March. The tour was sponsored by the government of West Germany and participants came from Africa and Europe.

Dr. Crow was appointed to the board of directors of the New Mexico Society of Professional Journalists.

Dr. Crow continues to serve as chairman of the Student Publications Board.

6. Professor Robert Lawrence served as president of the New Mexico chapter of the Society of Professional Journalists. (SDX)

Professor Stuart Novins was a featured speaker for the Albuquerque Press Club's Bicentennial series on the meaning of a free press in the history of the United States.

ANNUAL REPORT OF THE DEPARTMENT OF LINGUISTICS

July 1, 1976 - June 30, 1977

Garland D. Bills, Chairman

I. General Information

A. Highlights of the 1976-77 Academic Year

1. Faculty and Administration. John Oller resigned as chairman effective June 30, 1976, and took a one-year leave of absence without pay for 1976-77 to hold a visiting appointment at Southern Illinois University. Garland Bills was appointed chairman effective July 1, 1976.

In its fourth year of operation the Department had a budgeted faculty of 2.83 FTE: Assistant Professor Alan Hudson (fulltime), Visiting Assistant Professor Ellen Kaufman (fulltime, visiting replacement for Oller), Associate Professor Garland Bills (.50 Linguistics, .50 Modern and Classical Languages), and Professor Bernard Spolsky (.33 Linguistics, .67 Graduate School). Professor Vera John-Steiner (Educational Foundations) held a non-budgeted joint appointment in Linguistics, and Robert Young held a temporary appointment with the title Professor of Navajo Linguistics. In addition the Voting Faculty for the Department during 1976-77 included Professors Fred Chreist (Communicative Disorders), Miles Zintz (Elementary Education); Associate Professors Dean Brodkey (Elementary Education), Roy Pickett (English), Robert White (Secondary Education); Assistant Professors Carol Conrad (Psychology), Larry Gorbet (Anthropology), Leo Macias (Secondary Education), and Rodney Young (Elementary Education).

Administration of the Department was significantly aided by the hard work and dedication of members of the Voting Faculty who performed varied Department functions. Members of the three standing committees were:

Policy Committee: Gorbet, John-Steiner, Spolsky, White, Bills (ex officio).

Graduate Committee: Brodkey, Macias, Pickett, Zintz (Sem.I), Chreist (Sem.II),

Bills, (ex officio).

M.A. Examination Committee: Conrad, Kaufman, Rodney Young.

In addition, Bills served as graduate advisor, Brodkey as library representative, and Hudson as undergraduate advisor and faculty advisor to the Duke City Linguistics Circle.

The Department's constitution was slightly modified this year to permit greater flexibility in the naming of Associated Faculty, who provide significant interdisciplinary feedback to the Department. The Department now has twelve Associated Faculty representing nine departments.

2. Faculty Research and Service. The Department housed varied sponsored research projects during 1976-77. The Navajo Reading Study, directed by Professors Spolsky and Young, completed its eighth and final year of funded research and materials development, though the associated Navajo Dictionary Project headed by Professor Young will continue with NEH funding (\$42,000 for 1976-77) into the 1977-78 academic year. The Voting Rights Act Amendments Project directed by Professor Hudson was sponsored by a \$13,000 NSF Student-Originated Studies grant during the summer and fall of last year and in October received a \$100,000 grant from the Federal Election Commission for continued research into 1978.

Department faculty have made significant contributions in the area of bilingual education during the past year. During the 1976 Summer Session Professors Hudson and Oller taught courses in linguistics for Bureau of Indian Affairs teachers with the support of an \$8,000 grant from the BIA, and Professor Spolsky organized a special bilingual education institute, supported by Title VII funds from varied sources, which featured distinguished lecturers from across the U.S. During the past spring semester four members of the Department (Bills, John-Steiner, Spolsky, and White) played an active role in the 13-member Faculty Seminar on Bilingual Education, supported by Title VII funds administered by the Multicultural Education Center in the College of Education. Also,

Professor Spolsky has received a \$40,000 NEH grant to conduct a seminar on bilingualism this summer for college teachers from throughout the U.S.

Exceptional recognition in professional organizations were the election of Professor Spolsky as 1977 First Vice President (to become President in 1978) of the national organization of Teachers of English to Speakers of Other Languages (TESOL) and the election of Professor Bills as President of the Linguistic Association of the Southwest.

3. Students. At the undergraduate level there were approximately 21 declarations of intended major during the 1976-77 academic year; graduating this spring in the College of Arts and Sciences were two majors and 5 minors in Linguistics.

At the graduate level, in the first year of operation of the M.A. in Linguistics program, there were nine students officially admitted and enrolled in classes. The first graduate of the program completed all requirements for the M.A. this spring. The Department continued to sponsor M.A. and Ph.D. candidates in other departments and is working closely with the College of Education in the development of a proposed major in Educational Linguistics within the COE Ph.D. program.

Significant achievements by graduate students in linguistics include the award of a Title VII Bilingual Education fellowship for 1976-77 to Tim Ansell (M.A. candidate in Linguistics), the award of the 1977-78 Graduate School Fellowship to the Department's nominee, Martin Doviak (Ph.D. candidate in Elementary Education), the award of the 1977 Popejoy Dissertation Prize to Carol Edelsky (1974 Ph.D. in Elementary Education with a specialization in Linguistics), and the award of Linguistic Society of America fellowships to Martin Doviak, Nan Elsassner, and Alice Neundorff (COE doctoral students specializing in linguistics) to enable them to attend the 1977 Summer Linguistics Institute at the University of Hawaii.

4. Curriculum. The Department thoroughly reviewed all course offerings and made major and minor changes to improve sequencing and stability of offerings, minimize overlap in content, and strengthen the overall program within our limited resources. Several important courses in other departments were newly cross-listed in Linguistics, and three new courses were instituted: Sociolinguistic Stratification (452), Societal Bilingualism (453), and Seminar in Multilingual Education (552).

5. Lectures and Visitors. The Duke City Linguistics Circle, with Martin Doviak as student president and Professor Hudson as faculty advisor, was again instrumental in helping the Department sponsor a variety of guest lectures on diverse aspects of linguistics. Outside speakers were Bruce L. Derving (University of Alberta, Canada), T.S. Karetu (University of Waikato, New Zealand), Derek Bickerton (University of Hawaii), G. Mark Schoepfle (Navajo Division of Education), and, co-sponsored by the Department of Sociology, David Lopez (U.C.L.A.). On-campus speakers were Professors Rodney Young, Richard Roban, Ellen Kaufman and Ellen Spolsky, Alan Hudson and nine students involved in the VRAA project, and graduate students Nan Elsasser and Merryl Kravitz.

The Department also profited from lectures by Leila Menabde and Valmar Kokkota of the U.S.S.R. and Christopher Candlin and Michael Sreen of the University of Lancaster, England, whose visits were arranged by Professor Brodkey.

The Department was centrally involved in bringing in outside guest instructors for last summer's bilingual education institute: Joshua Fishman (Yeshiva University), and Gustavo Gonzalez (University of California Santa Barbara). The Department also worked closely with the Multicultural Education Center here in hosting a distinguished assortment of outside speakers for the spring semester's bilingual education seminar, including

Stan Steiner (Santa Fe), E. Glyn Lewis (University of Wales), Cruz Reynosa (California), and Joshua Fishman (Yeshiva University).

Timoti Samuel Karetu, Senior Lecturer in charge of the Department of Maori at the University of Waikato (Hamilton, New Zealand) was a Visiting Scholar in the Department during the fall semester.

The Department also hosted a visit to campus in October by Paul G. Chapin, Program Director for Linguistics, National Science Foundation.

6. Facilities. As the Navajo Reading Study is phasing out, the Department is slowly converting one large office into a Department of Linguistics Library, housing the extensive reprint files made available by Professor Spolsky and a small but growing collection of volumes donated by members of the Voting Faculty. In providing a congenial focal point for linguistics students and faculty from all over campus, this nascent library fills an important need for our spatially cramped Department.

B. Plans and Recommendations for the Future

1. Research. For 1977-78 the Department will continue to house the FEC-funded VRAA Project directed by Professor Hudson and the Navajo Dictionary Project directed by Professor Robert Young, as well as remnant close-out activities of the Navajo Reading Study. In addition, Professors Vera John-Steiner and Marta Weigle expect to receive funding for a proposed two-year project (submitted through this Department) titled "A Sociolinguistics Study of Gender-Linked University Teaching Styles."

2. Space. At present the Department utilizes four offices in Marron Hall in addition to the scattered Department offices in the Humanities Building. The prospect of expanded research, and perhaps faculty, as well as the sore need for storage, make additional contiguous space one of the most pressing problems of planning for the future.

3. Doctoral Program. A major concern of the Department is to be able to continue to provide cohesive programs of doctoral linguistic training to produce needed scholars in interdisciplinary areas. Development and refinement of the proposed major in Educational Linguistics within the College of Education will be the central area of planning in the immediate future. The Department will also continue to work to stabilize and improve interdisciplinary linguistics programs in Anthropology and Modern and Classical Languages. The Department is now surveying all post-1970 recipients of the doctorate with a specialization in linguistics; results of this survey will be useful in planning the Department's direction in doctoral training.

4. Summer Institute. The Department is currently preparing plans to host the 50th Linguistic Institute of the Linguistic Society of America during the 1980 Summer Session. These institutes have internationally renowned faculty and draw students from throughout the world. The focus of the UWM Institute will be the Languages of the New World, sociolinguistics and bilingualism, and multilingual education. It is expected that a formal proposal will be submitted to the Linguistic Society of America by next December.

C. Appointments to Staff

For 1976-77, Garland Hills was added to the budgeted faculty at .50 FTE as chairman, and Ellen Kaufman was appointed as Visiting Assistant Professor to replace Professor Oller. Effective with the 1977-78 academic year, Assistant Professor Larry Corbet (Anthropology) will hold a joint appointment in Linguistics without presumption of tenure, and Assistant Professor Rodney Young, Director of the Testing Division, will be given a non-probationary appointment in Linguistics.

D. Separations from Staff.

Professor Kaufman left the Department effective May 14, 1977, to accept a position at Northwestern University.

II. Faculty Information

The following provides information on the 1976-77 activities only of these members of the Voting Faculty who hold full or joint appointments within the Department of Linguistics. Information is generally current only to December 31, 1976.

1. Advanced Study.

Alan Hudson: June 1977. Ph.D. received in sociolinguistics, Ferkauf Graduate School, Yeshiva University, New York.

2. Sabbaticals, Leaves of Absence, Travel.

John W. Oller: Aug.-May, 1976-77. Leave of absence to assume a visiting appointment at Southern Illinois University, Department of Linguistics/CESL.

3. New Scholastic Honors, Fellowships, etc.

Vera John-Steiner: Danforth Fellow 1976-1981.

4. Publications.

Garland D. Bills: "Linguistic Diversity in Southwest Spanish," Studies in Southwest Spanish, ed. by J.D. Bown & J. Ornstein (Rowley, MS: Newbury House, 1976), pp. 4-16. Co-author: Jacob Ornstein.

Vera John-Steiner: Co-authored with Osterreich, "Learning: Pueblo Style," Notes from Workshop Center for Open Education. Spring 1976, pp. 21-26.

Co-authored with Leacock, E., "The Transforming Structure of Failure," in Educating the Children of the Poor, (ed.) D. Wilkerson, in press.

"Women's Verbal Images and Association," in The Psychology of the Language of American Women, Trinity University, San Antonio, Texas. Co-author: P. Irvine.

"Recent Trends in Bilingual Education," ERIC-Clearinghouse on Urban Education, 1976. Co-author: E. Cooper.

John W. Oller:

"Language Testing," in H. Douglas Brown and R. Wardhaugh (eds.) Survey of Applied Linguistics. Ann Arbor, University of Michigan Press, 1976.

"Review Essay: The Measurement of Bilingualism," Modern Language Journal, 1976, Volume 60, pp. 399-400.

"Rule Fossilization: A Tentative Model," in Robert Saint Clair and Beverly Hartford (eds.) LEKTOS Interdisciplinary Working Papers in Language Sciences: Error Analysis and Language Testing. Also in Language Learning, 1976, Volume 26, Number 2. (with Naddy Vigil)

"Self-concept, Other Concept, and Attained Second Language Proficiency," in Robert Saint Clair and Guadalupe Valdes Valles (eds.) LEKTOS Interdisciplinary Working Papers in Language Sciences: Sociolinguistics and Teaching of Modern Languages, 1976, pp. 65-75.

Bernard Spolsky:

"Socioeconomic implications of bilingual education on the Navajo Reservation." In The Bilingual Child, edited by Antonio Sires, Jr. New York, Academic Press, pages 113-41. Co-authors: John Read and Alice Neundorff.

"Innovations and developments: off-campus graduate programs at the University of New Mexico." Proceedings of the 18th Annual Meeting of the Western Association of Graduate Schools; edited by Richard D. Hoe. Tacoma, Washington, Pacific Lutheran Press. Pages 77-79.

"A model for the description, analysis, and perhaps evaluation of bilingual education." Language in Society, edited by Albert Verdoort and Rolf Ejlsoeth. Institut de Linguistique de Louvain; Louvain: Editions Peeters. Pages 233-63. Co-authors: Joanna B. Green and John Read.

"Linguistics in Practice: The Navajo Reading Study Program." BIA Education Research Bulletin, Vol. 4., September, 1976, No. 3. Pages 1-10.

"Warning-CAL May Be Hazardous to the Profession." TESOL Newsletter, Vol. X, No. 5, (November-December 1976), page 2. Co-author: Robert B. Kaplan.

5. Other Research Projects or Creative Work.

Gerland D. Bills: Non-sponsored research on Chicano Vernacular English, and bibliographical research on the Spanish and English of U.S. Hispanics.

Alan Hudson: June 1976-December 1976: "The Implications for New Mexico of the Voting Rights Act Amendments of 1975." The National Science Foundation, \$13,750.

October 1976-January 1978: "Implications of the Bilingual Provisions of the Voting Rights Act Amendments of 1975." The Federal Election Commission, \$103,058.

6. Activities in Learned and Professional Societies.

Gerland D. Bills: Meetings attended: Linguistic Association of Canada and U.S., El Paso, TX, August 1976; Linguistic Association of the Southwest/South Central Modern Language Association, Dallas, TX, October 1976; Rocky Mountain Modern Languages Association, Santa Fe, October, 1976; Border Linguistic Conference, El Paso, TX, November, 1976; Linguistics Society of America, Philadelphia, December, 1976.

At Linguistic Association of the Southwest meeting: presented report (as chair) of Research Committee; elected president for 1976-77.

"Chicano English: Dialect or Foreign Accent?" a paper presented at annual meeting of Rocky Mountain Modern Languages Association, Santa Fe, October, 1976.

Alan Hudson: National Science Foundation Student-Originated Projects Reporting Conference, Washington, D.C., December 27-28, 1976.

"Implementation of the Voting Rights Act Amendments of 1975: A Preliminary Reconnaissance." Paper presented at the Annual Meeting of the Western Political Science Association, Phoenix, April 1, 1977.

"Sociolinguistics and Public Policy: Implications of the Voting Rights Act Amendments of 1975." Paper presented at the Annual Meeting of the Southwest Areal Languages and Linguistics Workshop, Long Beach, California, April 14, 1977.

- Vera John-Stadman: Presented paper with F. Irvine at the Conference on Language, Children and Society at Ohio State U., April 1976, title: "A Cross-cultural Investigation of Children's Imagery."
- Workshop speaker Annual Meeting of the New Mexico Association for the Education of young children, March 1976.
- Paper presented at NYU, April 1976, Aspects of Bilingual Education.
- Ellen S. Kaufman: "Navajo Tone and Semantics," invited paper at the Georgetown Round Table, Washington, D.C., March 1977.
- John W. Oller: "Evidence for a General Language Proficiency Factor: An Expectancy Grammar," a paper presented at the Pacific Northwest Council on Foreign Languages, Seattle, Washington, May, 1976.
- "Attained Proficiency in ESL/ESL in Relation to Attitudes and Motivation: Four Experimental Studies," a paper presented at the Tenth Annual Convention for the organization of Teachers of English to Speakers of Other Languages, New York City, March, 1976.
- "Language Attitudes in Relation to Proficiency for Adult Spanish Speakers Learning ESL," a paper presented at the Tenth Annual Convention for the organization of Teachers of English to Speakers of Other Languages, New York City, March, 1976. (with Lori Baca and Fred Vigil)
- "Rule Fossilization: A Tentative Model," a paper presented at the Tenth Annual Convention for the organization of Teachers of English to Speakers of Other Languages, New York City, March, 1976. (with Neddy Vigil)
- "Teaching and Learning Languages: Methods that Succeed and Methods that Fail," an invited lecture presented at a meeting of Teachers of English as an Additional Language, Vancouver, Canada, March, 1976.
- "Language Attitudes and Language Proficiency," an invited lecture presented at a workshop at Southern Illinois University, March, 1976.
- "Approaches to Language Teaching," an invited lecture presented at a workshop at Long Beach City College, April, 1976.
- "Interlanguage and Fossilization," an invited lecture presented at the Midwest Modern Language Association, Saint Louis, Missouri, November, 1976.

"On the Interpretation of language test scores for institutional purposes," an invited paper presented at the annual meeting of the Region V National Association of Foreign Students of America, Chicago, Illinois, November, 1976.

"Self-concept, Other-concept, and Attained Second Language Proficiency," an invited paper presented at the Modern Language Association meeting, New York City, December, 1976.

"Two Mutually Exclusive Hypotheses about Second Language Ability: Factor Analytic Studies of a Variety of Language Tests," a paper presented at the annual meeting of the Linguistic Society of America, Philadelphia, December, 1976.

Bernard Spolsky: Elected member of Program Committee, Linguistic Society of America.

Selected as academic chairman of eight-member U.S. group of bilingual educators for Exchange with the Soviet Union.

Represented UMM at IRLA Annual Meeting, St. Louis, MO., October 5-6, 1976.

7. Other Professional Activities.

Garland D. Bills: Outside evaluator in two tenure/promotion decisions (University of Texas-San Antonio, University of Western Ontario).

Associate Editor, Journal of the Linguistic Association of the Southwest.

Vera John-Steiner: Consultant to Ford Foundation, June 1976.

Invited lecturer, CCNY, June 1976.

Board of ERIC-Urban Education Center, Teachers College, Columbia University.

Consultant to CCNY Advisory Board.

Review panelist National Endowment for the Humanities.

Editorial Consultant for Urban Education.

Bernard Spolsky: Member of Visiting Committee on English Language Institute, University of Michigan.

Consultant to Wyola Bilingual Program, Wyola, Montana.

Evaluated programs Northwestern Regional Educational Laboratory, Portland, Oregon.

8. Non-teaching University Service.

Gariand D. Bills: Chairman, Department of Linguistics.
 Supervisor of Native American languages program in Modern and Classical Languages.

Alan Hudson: Faculty Advisor, Duke City Linguistics Circle.
 Undergraduate Advisor, Department of Linguistics.

Vera John-Steiner: Honors Council.

Ellen S. Kaufman: Chairperson, M.A. Examination Committee, Department of Linguistics.

Bernard Spolsky: Provost's Council.
 Council of Academic Deans.
 Graduate Committee.
 Faculty Senate.
 Dean, Graduate School.

9. Public Service:

Vera John-Steiner: Board Santa Fe School of Contemporary Arts.

Bernard Spolsky: Chairman, Council of Graduate Deans of New Mexico State Universities.
 General Advisory Council of the Board of Educational Finance.
 Education Committee of Akiba Day School.

THE REPORT OF THE DEPARTMENT OF MATHEMATICS AND STATISTICS

JULY 1, 1976 - JUNE 30, 1977

ART STEGER - CHAIRMAN

During the Academic year 1976-1977 the Department provided instruction to 10,580 students totaling 34,174 credit hours. This is an increase of 571 students and 1,894 credit hours compared to the academic year of 1975-1976.

I. GENERAL DEPARTMENT INFORMATION.

A. SIGNIFICANT ACHIEVEMENTS.

A highly successful regional meeting of the American Mathematical Society was hosted by the Department on November 19 and 20. Alex Stone planned and organized this meeting and has earned a well deserved vote of thanks for his efforts. Many members of the department participated in making this meeting a success; but Stan Steinberg merits special praise for the invaluable assistance he gave to Alex.

There were two important steps taken with respect to the graduate program. By a written ballot, the faculty voted to reduce the foreign language requirement for the Ph.D. to one language chosen from among French, German, or Russian. This requirement can only be satisfied by demonstrating the ability to read mathematics in the foreign language with the aid of a dictionary. The other step was the formation in April of an ad hoc committee chaired by Cleve Moler which was asked to take an in-depth look at our graduate program and to make recommendations for improving and revitalizing it. As was to be expected, this is a task of considerable

magnitude and the committee was unable to complete its work before the end of the semester. Preliminary discussions within the committee and the department indicate that it may be desirable to set up three semi-independent, semi-autonomous tracks to be designated as Pure Mathematics, Applied Mathematics, and Statistics. Although much work still needs to be done, it is hoped that the final details of the new structure will be approved by the department before the end of the Fall Semester of next year.

The Undergraduate Committee under the able leadership of Cliff Qualls had a busy and productive year. Among its more important actions was the revision of the requirements for graduation with honors, the elimination of credit by examination in any course numbered below 162, the approval of our participation in the Advanced Placement Program of the College Examination Board, and the preparation of a recruiting brochure. This last item was mainly the work of Don Dubois, who succeeded in constructing an attractive and unusual pamphlet. In addition, this committee began work on revising our current student evaluation form. Hopefully, a recommendation on this matter will be brought to the department early next year.

An honors section in Math 162 was instituted for the Fall Semester and Archie Gibson was assigned to teach this section. In the Spring Semester, an honors section of Math 163 was offered with Archie Gibson continuing as the instructor. By the end of the first semester Archie had decided that a reasonable objective for this sequence would be to complete Math 162, 163, and 264 in just two semesters. This goal was realized and the experiment was deemed so successful that it will be

repeated in the forthcoming year. Dick Metzler will teach the Honors Calculus during 1977-78. Certainly, Archie Gibson deserves special praise for the excellent job he did in carrying out a difficult assignment.

Jeff Davis continued his excellent work as the director of the statewide Mathematics Contest. Approximately 3000 students participated in the first stage of this contest, which was held at the various high schools and junior high schools throughout the state. Of this number, approximately 300 students were invited to participate in the second stage, which was held on the UNM Campus. About twenty winners attended the annual banquet in March. This year, for the first time, the department was given an appropriation (\$1200) to be used to administer the contest and to purchase prizes for the winners. Indeed, an understanding was reached with Dean Wollman that such support will be forthcoming on a continuing basis.

In response to the Adams proposal for a special remedial program designed to help the most poorly prepared of the new freshman class, the department determined that it would be necessary to introduce a new course, Math 100, which would be more elementary than our present Math 120. When it was decided that the UNM appropriation for 1977-78 would not be adequate to fund the Adams Plan, the department was relieved of the necessity for designing and staffing the proposed Math 100. Nevertheless, it became clear that there is a need within the community for a remedial course in mathematics at a lower level than our current Math 120. Who should be given the responsibility of serving this need is as yet an unanswered question.

Art Steger completed his three year term as Chairman and Richard Griego was chosen by a near unanimous vote to serve as its new Chairman. There is every reason to anticipate that Richard will prove to be an excellent chairman.

We had three visitors in the Department the second semester. Dr. John Swart, a Professor at the University of Natal, Durban, South Africa. His wife, Dr. Henda Swart, a Senior Lecturer at the University of Natal, Durban, South Africa. Dr. Robert J. Beaver, a Professor of Mathematics at the University of California at Riverside.

The Department research colloquium remained active with twenty-eight speakers from various parts of the United States (Univ. of California - Berkeley, New York University, University of Michigan, IBM in New York.) Four of the speakers were from other countries, India, Hungary, and Mexico. They were Dr. Alladi Ramakrishnan, Dr. Paul Erdos, Dr. Jose Abreu, and Dr. Luis G. Gorostiza.

The promotions for 1977 were Clifford Qualls and Alfred Carasso to Full Professor, and James Ellison to Associate Professor.

Enrollment figures for Graduate Students are listed for the past nine years.

1976-77	37	Full time students,	17 part time students.
1975-76	46	Full time students,	34 part time students.
1974-75	39	Full time students,	26 part time students.
1973-74	48	Full time students,	25 part time students.
1972-73	46	Full time students,	41 part time students.
1971-72	61	Full time students,	64 part time students.
1970-71	59	Full time students,	44 part time students.
1969-70	57	Full time students,	46 part time students.
1968-69	55	Full time students,	37 part time students.

Enrollment for Undergraduate Math Majors for past six years.

1976-77	141 Undergraduate Mathematics Majors
1975-76	144 Undergraduate Mathematics Majors
1974-75	139 Undergraduate Mathematics Majors
1973-74	112 Undergraduate Mathematics Majors
1972-73	118 Undergraduate Mathematics Majors
1971-72	115 Undergraduate Mathematics Majors

GRADUATION	1976-77	1975-76	1974-75	1973-74	1972-73	1971-72
Ph.D.	6	5	5	5	9	9
Master's	7	5	4	8	19	13
B.S.	32	30	35	24	36	32

B. SIGNIFICANT PLANS AND RECOMMENDATIONS FOR THE NEAR FUTURE.

Unfortunately, two problems which have plagued the department for several years remain unsolved and even appear to be intensifying. These are the oversized sections in our lower division courses and the continuing shortage of qualified graduate students.

During the Fall Semester of 1976 fifty-one new sections would have been required to keep the enrollment in the various sections at or below forty-two. In 1974 thirty-nine new sections would have been required and in 1975 forty-eight new sections to meet the same enrollment standard. I must point out that a section of mathematics with forty-two students is by no means a small section. Sections of thirty or less would be more consistent with the requirements of good education. To achieve even the forty-two limit, however, would require drastic action on the part of both the administration and the department. It seems unlikely that any such action will be forthcoming.

The picture for graduate enrollment is a gloomy one. The department received fewer applications for admission to its graduate program this past year than at any other time in recent history. What was

once a flood of applicants has subsided into a dangerously small trickle. Fortunately, the department is prepared to make necessary adjustments in its graduate program and to institute an aggressive program of recruitment to meet this problem. If some improvement in graduate enrollment is not experienced, however, our doctoral program will be severely threatened.

The undergraduate honors program which has been in somewhat of a decline for the past few years may be on the verge of making a comeback. Instituting an honors section of calculus was an excellent first step. Further, Richard Metzler has volunteered to undertake the task of revitalizing this program. Richard is extremely capable but he will need the active cooperation of the faculty if he is to be successful.

The formation of a task force by Governor Apodaca makes it appear likely that there will be some sort of Community College in Albuquerque within a year or two. Although it is not possible to predict with any accuracy the impact of this new institution upon the department, it is reasonable to assume that there will be some decrease in our enrollments at the lowest levels and some necessary staff adjustment. It is probable, therefore, that the creation of a Community College will generate some changes in the department in a relatively short time.

C. APPOINTMENTS STAFF.

Dr. David A. Sanchez was given a tenured appointment as Professor of Mathematics effective the academic year 1977-78. (He held a Visiting Professor appointment Semester I, 1976-77.)

Mr. Michael Bevacqua and Mr. Philip Nesbit were each given a three year Instructorship effective Semester I, 1976-77.

D. SEPARATIONS FROM STAFF.

There were no resignations or retirements from the Department of Mathematics and Statistics this year.

II. COMPOSITE OF INFORMATION REQUESTED ON INDIVIDUAL BIOGRAPHICAL SUPPLEMENTS.

1. ADVANCED STUDY.

James Ellison: Awarded a second summer AWU-ERDA faculty appointment at Sandia Laboratories to continue his study and research in ion-solid interactions.

Ronald M. Schrader: Ph.D. from Penn State, June, 1976.
'Robust Inference Based on M-Estimates in the Linear Model'.

2. SABBATICALS, LEAVES OF ABSENCE, TRAVEL, etc.,

Richard C. Allen, Jr.: Visiting Staff Member, LASL:
Summer, 1976, Sabbatical Leave, Semester 1, 1976.

Richard Bourgin: Visiting Scholar at Math. Dept., University of Washington, Seattle, Washing - Jan. - August 15.

Laura Cameron: Taught at the Jicarilla Apache Reservation from June 7 to July 30.

Alfred Carasso: Visiting Staff Member - LASL, July-August. Sabbatical leave, Fall semester 1976. Research Travel to Australia, Dec. 1976. Visitor at Australian National University.

Robert Cogburn: On sabbatical leave - 1976-1977.

James Ellison: Spencing sabbatical leave with the Physics Department at SUNY-Albany. Teaching a course and interacting with researchers in ion-solid interactions. Attended a week long NSF Conference on differential equations.

Archie Gibson: On sabbatical leave 1976-76 at Centre de Physique Theorique, CNRS, Marseille, France; and at Dept. de Mathematique, Centre Univ. de Toulon, Toulon, France. Gave a series of seminars at CNRS, Marseille, France.

Richard Grassl: Toured Luxembourg, France, Germany, Switzerland and Austria during the month of June. Visited University of Freiburg in Germany. Attended seminar (mathematics) at Institute for Advanced Studies in Marseilles, France.

Liang-shin Hahn: Leave of absence (July 1974-July 1976) to University of Washington, Seattle, as a visiting scholar.

Reuben Hersh: Leave of absence, Visiting Professor at Centro de Investigaciones and E tudias Avanzadas, Inst. Politechnico Nacional, Mexico City, Spring 1976.

Catarina Kiefe: Taught at the University of Porto, Portugal during the academic year 1975/76.

Cleve B. Moler: Consultant: Argonne National Laboratory and Los Alamos Scientific Laboratory.

Moshe Shaked: Visited Department of Statistics, Stanford Univ. June-August and visited the Dept. of Math., University of British Columbia, May, 1976.

William Zimmer: Sabbatical leave during Spring 1976.

3. NEW SCHOLASTIC HONORS, FELLOWSHIPS, etc.

Richard J. Griego: Elected to the Council of the American Mathematical Society.

Pramod Pathak: Selected by the National Academy of Sciences to visit the Banach Inst. of Mathematics, Warsaw Technical University and Wroclaw Univ. for six months beginning January, 1977.

4. PUBLICATIONS.

Richard C. Allen: 'A method for accelerating the iterative solution of a class of Fredholm integral equations', accepted Journal of Optimization Theory and Applications.

Richard Bourgin: 'Noncompact Simplexes in Banach Spaces with the Radon-Nikodym Property.' Journal of Functional Analysis, Vol. 23 No. 2, October 1976. pp. 162-176. (with G. A. Edgar).

Laura Cameron: 'Study Guide for College Algebra text' by Lial and Miller. Scott, Foresman and Company, February, 1977. ISBN)-673-15093-03.

Alfred Carasso: 'Computing Small Solutions of Burgers' Equation', Journal Math. Analysis and Applications, Vol. 59 (1976)

'Viscous flow down an Inclined Plane,' SIAM J. Appl. Math. Vol. 33 (1977)

Ralph DeMarr: 'A Property in a DSC-POLA', Transactions AMS Vol. 215 (1976) pp 285-292.

'Bernstein's Theorem', Journal Math. Analysis, Vol 53 (1976) pp 53-58.

Gustave Efroymson: 'Substitutions in Nash Functions', Pacific Journal of Math. Vol. 63, 1976. pp. 137-145.

James Ellison: 'Statistical Equilibrium, Planar Channeling and the Continuum Model,' Physical Review B1, 1976, Vol. 13, No. 5, pp. 1880-1883. (with T. Guinn).

R. C. Entringer: 'Distance in Graphs', Czechoslovak Mathematical Journal, 1976, Vol. 26, pp 283-296. (with D. Taylor and D. Jackson.)

'On the Intersection of the Factors of Certain Group Factorizations', Indian Journal of Mathematics, 1976, Vol. 16, pp. 49-54, (with F. E. Higgins.)

A. Gibson: 'On a Time-Independent Theory of Multichannel Quantum Mech. Scattering', in Few Body Dynamics edited by A. M. Mitra, et al. N. Holland Amsterdam, 1976, pp 123-125. (with C. Chandler)

'Invariance Principle for Scattering with Long-Range (and other) Potentials', Indiana Univ. Math. Jnl., 1976, Vol. 25, No. 5, pp 443-460. (with C. Chandler).

Richard Grassl: 'Reverse Plane Partitions and Tableau Hook Numbers', Journal of Combinatorial Theory, Series A, pp. 216-221. Sept. 1976. (With A. Hillman).

'Reduction of Delayed Optimal Control Problems to Non-Delayed Problems.' Journal of Optimization Theory and Applications, Vol. 18, No. 3, 1976.

'Statistical Equilibrium, Planar Channeling and the Continuum Model', (with J. Ellison). Physical Review, B1, March 1976.

Reuben Hersh: 'Some Proposals for Reviving the Philosophy of Mathematics', accepted by Advances in Mathematics.

Abraham Hillman: 'Reverse Plane Partitions and Tableau Hook Numbers', Journal of Combinatorial Theory, Series A, 1976, Vol. 21, No. 2, pp. 216-221. (with R. Grassl)

'The William Lowell Putnam Mathematical Competition', The American Mathematical Monthly, 1976, Vol. 83, No. 9, pp. 701-708. (with G. Alexanderson and L. Klosinski).

Catarina Kiefe: 'Sets definable on infinite fields - their zeta functions', Transactions of the American Mathematical Society, Vol. 223, 1976, pp 45-59.

'Pseudofinite fields, procyclic fields and model completions', Pacific Journal of Mathematics, Vol. 62, No. 2, 1976, pp 305-309 (with A. Adler).

L. Koopmans: Review of 'Time Series: Theory and Data Analysis', by David Brillinger, J.A.S.A. 71, June 1976, pp. 521-22.

W. T. Kyner: 'The HLA-SD Antigens and Schizophrenia - A Statistical Analysis', To appear in The Proceedings of the First International Symposium on Immunological Components in Schizophrenia. (with Bennahum, Troup, Rada, Kellner.)

(Kyner - Continued) 'The Histocompatibility Antigens of Schizophrenic and Manic-Depressive Patients', submitted to Archives of General Psychiatry. (with Bennahum, Troup, Rada, Kellner.

Pramod Pathak: 'An extension of a theorem of C. R. Rao', Sankhya, 37A.

'Unbiased estimation in fixed cost sequential sampling schemes', Ann. Statist. (1976), 4, 1012-1017.

'Some recent dimension free characterizations of the normal law', Coll. Math. (1976), 35, pp 119-140.

'Sufficiency and tests of goodness of fit', Scand. J. Statist. (1976)

'Two applications of Basu's lemma', Scand. J. Statist. (1976)

'A Note on Basu's lemma.' Studia Sci. Math. Hung. (1976)

'A characterization of weak-closed subalgebras of L_{∞} .' J. Math. Anal. and Appl. (1977)

'A new proof of a theorem of Polya', Studia Sci. Math. Hung. (1976)

'Estimation of parameters in acceleration models', (with Zimmer). to be submitted.

Steven Pruess: 'Local Bases for Computing Smoothing Splines in Tension', Journal of Approximation Theory, 1976, Vol. 17, pp 86-96.

David Sanchez: 'An Approximate Periodic Solution of a Weakly Nonlinear Wave Equation', Journal Appl. Mech. 43(1976) No. 3, pp 504-505.

Moshe Shaked: 'A Concept of Positive Dependence for Exchangeable Random Variables', Annals of Statistics, (1977-May).

S. Steinberg: 'Entire Vectors for the Weyl Algebra', (with Hersch), submitted for publication.

'On Exponential Representations of Solutions of Evolution Equations whose Coefficients Depend on Time', Submitted for publication.

Alexander Stone: 'A Multilinear Algebra Proof of the Cayley-Hamilton Theorem', Tensor, Vol. 30, 1976, pp. 1-3.

William Zimmer: 'Asymptotic Optimality of the Empirical Bayes Procedure', Annals of Statistics, pp 576-580, Vol. 4 - 1976.

5. OTHER RESEARCH PROJECTS in PROGRESS OR COMPLETED.

Richard C. Allen: Preparation of a sophomore-junior level text on Ord. Diff Equations (with W. Kyner). A method of moments applied to an invariant imbedding solution of a certain class of Fredholm integral equations (with Boicourt, LASL), manuscript in preparation. A new numerical approach to solving Fredholm integral equations of the first kind (with G. Wing), research in progress.

Michael Bevacqua: 'An Algebra Course for Native Americans', for NAPCOE Teaching, funded by the American Society for Engineering Education.

Richard Bourgin: Geometric Aspects of Banach Spaces with the Radon-Nikodym Property book in progress. Weak*compact Norm Separable Sets are Subset S-Dentable paper in progress.

Laura Cameron: Worked on a proposal for an NSF Grant (CAUSE)

Alfred Carasso: 'Computing Linear and Nonlinear Parabolic Equations', Research Contract, U. S. Army Research Office, \$18,000. 'Digital Removal of Random Media Image Degradations', accepted for publication in SIAM J. Numerical Analysis.

Robert Cogburn: Work in progress on sums of transition probabilities in null recurrent Markov Chains, and Markov Chains in random environments.

Donald Dubois: Wrote the mathematical part of a proposal, Navajo Mathematics. Research into math learning at elementary levels, and at elementary teacher levels, continued.

Gustave Efroymson: Just completed a paper: 'Nash Rings on Planar Domains'. The higher dimensional analogue is in progress as is a project on a 'mapping theorem for planar Nash domains'. Also a possibly joint work with L. van den Dries of Utrecht on p-adic nullstellensatz results.

James Ellison: a) Statistical Equilibrium Calculations in Plane Channeling, b) Asymptotic Behavior of a Nonlinear Oscillator with a Random Initial Condition, c) Complete picture of Planar Channeling within the Continuum Model, d) Rate of Approach to Statistical Equilibrium in Planar Channeling, e) Major research effort to understand channeling transmission experiments, f) Incorporation of multiple scattering into the continuum model, g) study of quantum and statistical mechanics and relativity, h) continued studies in the nature of human consciousness.

Roger Entringer: Accepted for publication: 'On Permutations Containing no Long Arithmetic Progressions', *Acta Arithmetica*; 'Enumeration of Certain Generalized Arrays Associated with Ballot Theorems', *The Matrix and Tensor Quarterly*. Submitted for

publication - 'Geodetic Connectivity of Graphs', 'A Theorem on Critical 3-connected Graphs', 'A Characterization of Maximum Critically 2-connected Graphs'.

Bernard Epstein: Completed research supported by NSF Grant MPS 74-15499. One paper has been submitted to a Research Journal.

Archie Gibson: 'N-Body Quantum Scattering Theory in Two Hilbert Spaces, I. 'The Basic Equations' submitted, and II. 'Compact Kernel Equations' in preparation (with C. Chandler). Supported in part by 36,576 FF one year grant from DGRST, France, administered through CNRS, France. Research in progress with C. Chandler on N-body scattering theory.

Richard Grassl: 'Multisectioned Partitions', paper accepted by Pacific Journal of Mathematics, Oct. 1976. 'Composite Leis Structure' in progress.

Richard Griego: Minimization of extinction probabilities for biological reproduction in random environments (with David Mason), supported by NIH Grant No. RR-08139 by means of the Minority Biomedical Support Program; grant support, one year period. Strong approx. of diffusion processes by transport processes (with L. Gorostiza).

Weyl's theorem for certain operator-valued potentials (with R. Hersh.)

Ted Guinn: 'Augmented Penalty Functions for Delayed Control Systems, Jour. Opt. Theory and Analysis, Vol. 21, No. 1, Jan. 1977. 'Asymptotic Behavior of a Non-linear Oscillator with Random Initial Conditions' (with J. Ellison) in progress.

'Hamilton-Jacobi Theory for Control Problems with Integral Constraints' (with V. Bakke) In progress.

Liang-shin Hahn: Project - On Lusán's Problem about a theorem of Bohr and Pál. Also studying on singular integrals and H^p -spaces.

Reuben Hersh: Continued research in Analysis and Probability - NSF Grant number GP 34188.

Catarina Kiefe: Elaborated pilot program for a course entitled 'Logica e Fundamentos da Matematica' at the University of Porto.

L. H. Koopmans: Statistical study of Cholesterol and Triglyceride Data from N.M. State Fair (w/Allen and Eaton). Study of the Sudden Infant Death Syndrome (with Morphometrics Group of UNM Medical Investigators Office. Participated in writing research proposal to NIA for funds to continue this research. Application of Crossing Probability Bounds for Gaussian Processes to Animal Ecology (with Caire). Textbook in elementary statistics 1/4 completed.

W. T. Kyner: Continued research on histocompatibility antigens.
A study of numerical problems in deterministic model for the growth of populations (with D. Sanchez)
Continued research on numerical methods in orbital mechanics.

James V. Lewis: Research on mathematical measures of efficiency of counting systems (Natural Numbers). Such a measure is designed to be used for the study of the evolution of counting systems in different cultures. This study is in collaboration with a Ph.D. candidate in Linguistics.

Richard C. Metzler: 'Representation of Pseudo-lattice Ordered Vector Spaces', in preparation.

Cleve Moler: Book to appear in 1977: 'Computer Methods for Mathematical Computations' with G. Forsythe and M. Malcolm.
Papers submitted: 'Nineteen Ways to Compute the Exponential of a Matrix', with C. Van Loan.
'On the Householder-Fox Algorithm for decomposing a projection, with G. W. Stewart.

C. W. Onneweer: 'On L_1 -Convergence of Walsh-Fourier Series'.
'Differentiability of Rademacher Functions on Groups'.
'Fractional Differentiation on the Group of Integers of the p-adic of P-series Field.'
'Sets of Divergence on a Plane or P-series Group!'. All work completed.

Pramod Pathak: Work in progress on the following projects:
a) Book on foundations of sample surveys. b) Joint work with Professor Shapiro on harmonic analysis. c) Joint work with Prof. Zimmer on acceleration models.

Steven Pruess: 'Properties of Splines in Tension' submitted for publication. 'Numerical Methods for Eigenvalue Problems with Eigenparameter in the Boundary Condition' with C. Fulton, submitted to Math. Anal. Appl.

Clifford Qualls: 'The law of iterated logarithm on arbitrary sequences for stationary Gaussian processes and Brownian Motion', revised and accepted for publication in Ann. Prob.
'On Economic-Ecologic Input-Output Models. (submitted to SIAM)
'Error Estimates for the inverse of an Input-output Matrix.'
Submitted to Jnl. Regional Science.
'Hypothesis testing for equivalent Gaussian processes'. In progress.
'Determining particle count in Poisson noise.' In progress.

David Sanchez: Linear age-dependent population growth with harvesting - research completed and partially supported by NIH Grant No. RR-08139. In process of publication.

Ronald M. Schrader: 'Reinforcement Patterns in Depression', to appear in Behavior Therapy. 'The Geometry of Robust Procedures', to appear in Communications in Statistics. 'Robust Analysis of Variance Based on M-Estimates', in progress.

Moshe Shaked: 'Design of accelerated life tests for reliability of dormant components, research supported by Sandia Laboratories, \$18,024, 7/1/76 - 9/30/77'. Dual pairs of stopping times for random walks, in preparation.

Alexander Stone: a) 'Existence of Conservation Laws on Riemannian Manifolds' - submitted to Journal of London Math. Soc. b) Expository paper on global conservation laws - in preparation.

William Zimmer: The following in preparation: Estimation of Parameters in Acceleration models. An Acceleration life test estimation procedure (non-parametric). A continuous sampling plan for the AOQ. An Optimality Property of Beattie's CSP. A test for Priors.

6. ACTIVITIES IN LEARNED AND PROFESSIONAL SOCIETIES (Meetings attended, offices held, papers read, etc.)

Richard C. Allen, Jr.: AMS Meeting in Albuquerque, N.M. November, 1976.

Richard Bourgin: American Mathematical Society Annual Meeting - San Antonio, January 1976.

Laura Cameron: Attended a two day conference of the Albuquerque Council for Teachers of Mathematics. Attended conference on Innovative Methods of Teaching mathematics in Tucson which was sponsored by the Rocky Mountain Math Consortium. On a panel at the Indian Health Manpower Conference, held at the Marina Hotel in April. The topic of the discussion was 'Suggestions to remedy the difficulties that Indian people have in learning mathematics.'

Alfred Carasso: Attend SIAM Fall Meeting, Atlanta, Georgia, October, 1976.

Ralph DeMarr: Presented paper 'Are the Complex Numbers Real' at the AMS National Meeting, January, 1976.

D. W. Dubois: Presented paper 'A Universal model for elementary topology' - National Council Teachers of Mathematics, Albuquerque, in January. Presented paper 'A Universal Model for Elementary Arithmetic' - N.C.T.M. in El Paso. A participant - Bicentennial Abelian Group Conference - New Mexico State Univ. Las Cruces.

R. C. Entringer: Presented paper - 'Geodetic Connectedness in Graphs' at the national meeting of AMS, January 1976; Paper 'Permutations of the Positive Integers not containing long arithmetic progressions' presented at the Southwestern section meeting of the MAA, April 1976

Bernard Epstein: Attended regional meeting of AMS held in Albuquerque, November 19-20; Presented research paper at special session on probability and statistics.

Archie Gibson: Attended the 741st regional meeting of AMS in Albuquerque, November, 1976.

Richard Grassl: Presented paper 'Multisectional Partitions' at Southwestern section meeting of MAA in Portales, April 1976. Presented paper 'Combinatorial Identities and Polynomial Ideals' at AMS meeting, November, 1976, in Albuquerque.

Richard Griego: Twenty minute invited talk 'Weyl's theorem for certain operator-valued potentials', regional meeting AMS, Albq. November, 1976. Attended math conference on Mathematics in the Physical Sciences, Los Alamos. Attended Chicano Soc. Science meeting, El Paso, Texas.

Ted Guinn: Presented paper 'Asymptotic Behavior of a Hard-Spring Oscillator with Random Initial Conditions, IV Simposio Mexico-USA Sobre Ecuaciones Diferenciales, Univ. de Sonora, Hermosillo, Mexico, January 28, 1976 (with J. Ellison).

Liang-shin Hahn: Attended AMS Meeting, Albuquerque, Nov. 1976.

Reuben Hersh: Presented talk on Philosophy of Mathematics at the AMS National Meeting, San Antonio, January 1976. Talk on Nonstandard Analysis, Los Alamos, Meeting on Applied Mathematics, August, 1976.

Abraham Hillman: Director of the W. L. Putnam Math. Competition for the Math. Assn. of America. Editor, Elementary Problems Section, Fibonacci Quarterly. Presented talk - 'Partitions on and $2X2X2$ Cube' at MAA meeting in Portales, N.M. April 1976. Presented talk 'Tableaux Enumeration and Wronskians' at the American Math Soc. meeting in Albuquerque, November, 1976.

Catarina Kiefe: Editor for Mathematics of the 'Anais de Faculdade de Ciencias da Universidade do Porto'. Attended Bicentennial Abel Group Conference, Dec. 9-12, Las Cruces, N.M.

L. H. Koppmans: Attended as invited participant a one-week NSF Conference on Robust Statistical Methods at Univ. of Iowa, July, 1976. Assembled program for Western Regional Meeting of Inst. of Math. Statistics held at Univ. of California, Santa Barbara, April, 1976, in capacity of Associate Program Secretary of JMS for Western Region.

L. H. Koopmans - continued. On editorial board of Communications in Statistics, refereed papers for same. Completed term as President of local American Statistical Association Chapter in September. On Visiting Lecturer Committee for Council of Presidents of Statistical Societies. Invited lecturer, Texas Tech. Univ., December 1976.

W. T. Kyner: Presented paper at The First International Symposium on Immunological Components in Schizophrenia on October 29, 1976 in Galveston, Texas.

James V. Lewis: On the Executive Committee for New Mexico Chapter of Sigma Xi (Scientific Research Society).

Merle Mitchell: Workshop and talk on Mathematics History for the Elementary School, NMCTM, Eldorado High School, January, 1976. Similar workshop and talk, NCTM, El Paso, Texas, Feb., 1976; Attended International Congress on Mathematics Education in Harlsruhe, Germany, August 16-21, 1976.

Cleve Moler: Managing Editor, SIAM Journal on Numerical Analysis. Editor, American Mathematical Monthly. Editor, Springer-Verlag Lectures Notes in Computer Science.

C. W. Onneweer: Meeting Dutch Math. Society, Amsterdam, April, 1976; presented paper. Presented paper at AMS Meeting in Albuquerque, November, 1976.

Pramod Pathak: Organized a special session on probability and statistics for the 741st meeting of the AMS held at UNM, Nov. 19-20. Invited talk on acceleration models at the AMS Meeting, Nov. 1976.

Steven Pruess: 'Eigenvalue Problems with Eigenparameter in the Boundary Condition' paper presented at AMS Regional meeting, special session, November 1976.

Clifford Qualls: Attended Regional AMS Meeting, November, Albq.; annual meeting of American Statistical Association, Aug. 23-26 Boston, Mass.; Annual meeting of AMS., January, San Antonio, Texas.

Davis Sanchez: Appointed: American Math Society Committee on the Agenda (August, 1976)

Ronald Schrader: Presented paper, 'Robust Inference Based on M-Estimates in the Linear Model' at Institute of Math.Stat. Regional Meeting, May, 1976. Participant in NSF/CBM Conference on robust statistical procedures, Iowa City, Iowa, July, 1976.

Art Steger: Regional Meeting of AMS, November, Albuquerque.

7. OTHER PROFESSIONAL ACTIVITIES, (off-campus talks, consultancies, etc.)

Richard C. Allen: No-fee consultant, Los Alamos Scientific Laboratories.

Richard Bourgin: Invited speaker at University of Kansas, University of Denver.

Alfred Carasso: Invited talks: National Bureau of Standards, Washington D.C. October 1976. Australian National University, Canberra, December 1976; Los Alamos Scientific Laboratories, August 1976.

Gustave Efroymson: Gave a colloquium talk in Amsterdam and an invited talk in Geneva, Switzerland at the Math Institute. Many reviews for Math Reviews and Zentralblatt.

James Ellison: Consultant to the ion-solid interactions group at Sandia Laboratories. Presented colloquium on Channeling to the Physics Department - SUNY - Albany, New York.

R. C. Entringer: Reviewer for Mathematical Reviews and Zentralblatt fur Mathematik. Referee for Journal of Graph Theory, Discrete Mathematics and Journal of Combinatorial Theory.

Bernard Epstein: Presented colloquium at Bar-Ilan University (Israel), July 21, 1976. Presented two lectures at Haverford College, December 6, 7, 1976.

Archie Gibson: Reviewer of papers for Mathematical Reviews.

Richard Grassl: Invited talk - NMCTM, Jan. 30-31, 1976, On Plane partitions to Elementary Secondary Math. Science Conference.

Richard Griego: Consultant-site visitor, NIH, for Minority Biomedical Support program, visit to Atlanta University Center, Dec.. Consulting statistician, Equal Employment Opportunity Comm. (law suit Chairman - Ford Foundation Graduate Fellowships Selection Comm. Commissioner, National Chicano Commission on Higher Education. Made trip to Ford Foundation in New York City to present proposal for the Commission; this proposal has since been funded. Panel member on mathematics education, Conference on Native American Medical Education, National Meeting, Albuquerque, N.M. Meeting of Danforth Fellowship Foundation relative to minority educational problems, Albq. N.M. (regional meeting) Member, Society for the Advancement of Chicanos and Native Americans in Science. Member of the Council of the American Mathematical Society.

Ted Guinn: Gave talk On Delayed Optimal Control Systems, Theory and Computation, Univ. of Arkansas, April 8, 1976.

Liang-shin Hahn: Acted as a referee for Pacific Journal of Mathematics. Participated in a Seminar on Singular Integrals conducted by Professor Irving Glicksberg, U. of Washington.

Reuben Hersh: Seminars on Mathematics and Philosophy at National University of Mexico and at Poly. Institute of Mexico.

L. H. Koopmans: Directed seminar on Robust Statistical Methods, Spring 1976. Gave Colloquium presentation on same topic. Consultancies-CERF, Rodey Law Firm and several UNM students and faculty.

W. T. Kyner: Consultant to Aerospace Corpn. Los Angeles.

Cleve Moler: Principle Investigator, NSG sponsored research project, 'LINPACK', Grant No. MCS76-03052.

C. W. Onneweer: Colloquium talks at the University of Nijmegen, The Netherlands in May, 1976, and at Tech., West Germany, June 1976.

Pramod Pathak: Gave an invited talk on Harmonic Analysis at U. of Texas, San Antonio, Feb., 1976. Gave two invited talks on Probability and Statistics at Fort Lewis College, Colorado, 3/1976. Visiting lecturer of Statistics for North American Universities. Reviewer for Math Reviews. Referee for Ins. Journals of Statistics.

Steven Pruess: Reviewer, referee for several mathematics journals.

David Sanchez: Colloquium speaker - University of Arizona, (Oct. '76) SIAM Lecturer, Pan American University (Dec. 1976)

8. NON-TEACHING UNIVERSITY SERVICE (administrative; committee work, etc.)

Richard C. Allen: Director, Los Alamos Graduate Center (until 6/76) Master's Exam Committee. Director of Ph.D. dissertation: M. Sarhan, W. Vandevender.

Laura Cameron: Serving on the committee for Continuing Education - beginning 9/76.

Alfred Carasso: Math. Dept. Graduate Committee; Travel Committee; Ph.D. Committee (C. Boyer, Elec. Eng.)

Jeff Davis: Director of New Mexico Mathematics Contest.

Ralph DeMarr: Department travel Committee chairman.
Putnam Mathematical Competition advisor.

D. W. Dubois: Undergraduate Committee for Math. Dept.,
Continuing Education Committee, Sem. II, and Search
Committee for new chairman, Dept. of Math.

Gustove Efrogmson: Master's exam Committee.

James Ellison: Several Ph.D. Committees in Mathematics
and Engineering. Master's Exam Committee, and supervisor
of Teaching Assistants, Sem. II, 1976.

R. C. Entringer: Chairman - A and S Natural Sciences and
Mathematics Promotion Comm. Member, Faculty Library Committee.
Member, department salary committee. Chairman, Search
Committee for Math. Dept. Chairman. In charge of Math. Dept.
Library.

Bernard Epstein: Departmental Colloquium Chairman;
Administers foreign language exams for Math. Graduate students.

Archie Gibson: Masters Examination committee. Coordinator
of Math 123.

Richard Grassl: Coordinator of six sections of Math 163 and
3 sections of 181. Member of Undergraduate Committee.

Richard Griego: Chairman, Master's exam Committee, Math. Dept,
Sem. II 75-76. Faculty Senate and Executive Committee of
Faculty Senate. A and S Tenure Committee. Provost Search
Committee; Task Force on Program Development. Graduate
Committee of Math. Department. Director of Math component of
Minority Biomedical Support Program-direct supervisor for
total of five students (three grad and two undergrad). This is
an NIH supported program. Students work on projects directed by
their supervisors. One student under my direction received his
Ph. D. degree. Dissertation advisor for one Ph.D. student (not
listed above). Initiated together with Prof. David Sanchez
a proposal under the auspices of the Rocky Mountain Mathematics
Consortium for a conference on Mathematical Models in
Biological Systems to be held at the Lawrence Ranch in August.

Liang-shin Hahn: Master's Examination Committee.

Abraham Hillman: Member of the departmental committee on Master's
examination. Member of the University committee on Campus Planning
and its Parking Subcommittee.

L. H. Koopmans: Academic Freedom and Tenure Committee. Computer
Use Committee; 2 sub-committees: Resource allocation and
Consulting Resources (chairman). Provost's Tenure Advisory Committee
On Ph.D. student committee. Departmental Graduate Committee, Search
Committee for Dept. Chairman, and travel committee.

W. T. Kyner: Dissertation committee for Tim Burns.

J. V. Lewis: UNM Planning Committee. Math. Dept. Calculus Director. Graduate Student Advisor. Preparation of Department Schedule of classes. Undergraduate Committee for Department.

Richard C. Metzler: Director of graduate studies of the Mathematics Department. Member of committee on Admissions and Registration;

Merle Mitchell: Sponsor Kappa Mu Epsilon; member Allocations Committee for GUNM Fund; member Committee on Junior College.

Cleve Moler: Ph.D. advisor for James Sanderson and John Starnes.

C. W. Onneweer: Chairman Master's exam Committee, 1976-77.

Pramod Pathak: Undergraduate Committee. Reorganization of Statistical Program. Supervised Ph.D. Dissertations for Ray Williams and Lee Chap.

Steven Pruess: Member of departmental Graduate Committee. Chairman of GA-TA Selection Committee.

Clifford Qualls: Chairman of Undergraduate Committee, Dept. Math Placement Test Procedures and organization. Ph.D. student advisor. Statistical consulting.

David Sanchez: Faculty advisor - MBS Program.

Ronald Schrader: Statistical Consultation, and faculty advisor.

Stanly Steinberg: Undergraduate Committee.

Art Steger: Chairman, Department of Mathematics and Statistics.

William Zimmer: Advisor to two Ph.D. student's dissertations; and Chairman of one dissertation.

9. PUBLIC SERVICE

Richard Allen: Active in church.

Laura Cameron: Helped organize and circulated petitions for two protests regarding rezoning in my neighborhood - met before the city council and the environmental land planning commission.

Richard Griego: Member of Advisory Board for North Valley Community Center.

L. H. Koopmans: Tour leader, New Mexico Wheelman Bicycling Club.

James V. Lewis: President UNM Faculty Club. Member of Albuquerque Open Space Task Force. Director NM Citizens' for Clean Air and Water.

Richard Metzler: Teacher for Albuquerque Childbirth Education Association.

Cleve Moler: Executive committee, Albuquerque Assoc. for United Nations.

Clifford Qualls: Board member, education director, First Assembly of God, Albuquerque.

10. PERSONAL INFORMATION:

None.

The Report of the Department of Modern and Classical Languages

July 1, 1976-June 30, 1977

Sabine R. Ulibarri, Chairman

I. General departmental information.

A. Significant achievements.

1. Departmental organization: a) Section III of the Departmental Constitution (dated November 17, 1969) was revised to read as follows: "A Policy Committee consisting of seven senior members will be elected as follows: five from languages having graduate programs and two from languages having only undergraduate programs, provided that at least four of the total shall be of the rank of full professor. Members of the committee shall be elected by ballot and by a simple majority of those present and voting at the first faculty meeting of the academic year. The Chairman and Assistant Chairman of the Department shall be ex officio members with voice but without vote." b) Professor J. E. White, Jr. assumed the position of Associate Dean of the College of Arts and Sciences. c) Professor George F. Peters assumed the position of Assistant Chairman.
2. Recommendations of the Committee on Promotion and Tenure.
 - a. For tenure: Angel González, Peter Mellon. Professor González was granted, Professor Mellon denied tenure.
3. New Programs.
 - a. The revision of the graduate program in Spanish was completed and a new document, "Information Concerning Graduate Degrees in Spanish," approved by the faculty. The new degree requirements go into effect Semester I, 1977/1978.

- b. The Spanish faculty instituted a new course, Special Spanish, patterned after "Flash French." The course offers students five semesters of Spanish in one semester and will be initiated Semester I, 1977-1978.
- c. The German Section successfully ran for the first time the "Deutsche Sommerschule von New Mexico in Taos," June 13-July 10, 1976. Under the directorship of Professors Peter Pabisch and George Peters and co-sponsored by the Goethe House New York and the Consulate of the Federal Republic of Germany in Houston, the Summer School offers students of German from around the country four weeks of intensive language training and academic courses in German Studies. Credit is awarded through UNM's Division of Continuing Education. A second session of the School is planned for June 10-July 15, 1977.

4. Cultural and Social Activities.

a. General

- (1) A departmental faculty, staff and graduate student dinner, hosted by the French Section, was held on March 5, 1977 at the Faculty Club and International Center.
- (2) The Department of Modern and Classical Languages hosted a farewell dinner for Professor Rubén Cobos who retired effective June 30, 1977, on May 10, 1977 at Baca's Restaurant on Central Avenue. The faculty presented Professor Cobos with a farewell gift.
- (3) The faculty of the Department of Modern and Classical Languages in cooperation with the faculty of Political

Science and the Arts and Sciences Dean's office presented Mr. Enrique Almagro with a round-trip plane ticket to Miami, Florida plus \$50.00 cash in appreciation for his conscientious and dedicated service as custodian of Ortega Hall on his retirement effective June 30, 1977.

b. Spanish

- (1) The Spanish faculty and Spanish graduate students established Mu Alpha chapter of the Spanish Honorary Fraternity, Sigma Delta Pi on May 5, 1977. Several members of the faculty participated in the initiation program. Refreshments were served. Professor Dick Gerdes broke his foot at the initiation.
- (2) Professor Rubén Cobos gave a public lecture on New Mexican Folklore in the series "Aspectos de la Cultura Hispánica."
- (3) The Chairman of the Department hosted a dinner and party for the faculty and graduate students on December 12, 1977 at his home.
- (4) Professor Alfred Rodríguez organized a Spanish Club which has met once a month in different faculty homes for the purpose of reading and discussing academic and artistic subjects.
- (5) Several members of the Spanish faculty have read papers in national and regional conventions. See biographical section.

c. French

- (1) The French Section has maintained close relations with community leaders, the Alliance Française and the New Mexico Chapter of the American Association of Teachers of French. In joint sponsorship with these groups, the French Section sponsored monthly lectures and a combination of social-cultural programs. They also collected in the community sufficient funds for a French summer scholarship for a UNM student.
- (2) Distinguished lecturers were brought here from France and the East Coast.
- (3) An annual distribution of prizes took place in May, 1977, while the Department produced its yearly French plays under the direction of Professor Claude-Marie Senninger during April, 1977.

d. German

- (1) The fifth annual Glorieta Weekend for high school and university students of German was held March 25-27, 1977. Close to 300 participants attended the session, which included workshops, seminars, conversation groups, films and folk dancing. This year's weekend was, for the first time, organized by a state-wide committee of German teachers, headed by Professor Richard Rundell of New Mexico State University.
- (2) The German Club, under the sponsorship of Professors Hannemann and Jespersen, held an Oktoberfest in Semester

- I and a Faschingsfest in Semester II, in addition to numerous informal gatherings and discussion evenings.
- (3) Lectures: Uwe Johnson visited the campus in the Fall and spoke about the writing of his latest novel, Jahrestage. Dr. Robert Picht, director of the German-French Institute in Ludwigsburg, spoke in the Fall on the topic "West Germany after the Elections."
 - (4) The German Section continued its series of German feature films, under the direction of Professor Welsh, through both semesters.

e. Portuguese

- (1) Lectures: Professor Luciana Stegagno-Picchio of the University of Rome lectured on Brazilian literary history. Professor Afranio Coutinho, Director of the Faculdade de Letras, Universidade Federal (Brazil) lectured on Brazilian Modernism.
- (2) As part of a general evaluation of the Portuguese program, Professor Jorge de Sena, Chairman of the Department of Spanish and Portuguese at the University of California, Santa Barbara, visited the campus. The Portuguese program received an excellent rating.
- (3) A six-week summer session is being planned for the summer of 1978 in Lisbon. In addition, a summer institute in Brazilian Portuguese on campus is being projected for next year.

f. Russian

- (1) The addition of Richard Robin to the faculty made possible an increased tempo of cultural activities for students

in the program. Evenings of lectures, films, folk dancing, singing, were held regularly once a month both semesters. Two bilingual educators from the Soviet Union visited the campus in November, and Bryon Lindsey and Richard Robin were hosts and translators during their stay. Robin accompanied them on a tour of the Navajo reservation as translator.

- (2) Byron Lindsey gave lecture on "Mornings in Moscow: Trends in Contemporary Russian Life" in February based on his trip there between semesters. The lecture was followed by a reception opening the Russian House---a house near campus rented privately by Russian students. The house provided a milieu for daily use of the language as well as a meeting place for other students.

g. Comparative Literature

- (1) The Comparative Literature program was evaluated and received an excellent rating. Professor Warren Smith resigned as Chairman of this section. The appointment of a new chairman is pending.

B. Appointments to staff.

1. Professor José Reyna has been hired to fill the position of Professor Rubén Cobos, effective Semester I, 1977-78.
2. Dr. June Carter has been hired as an Instructor in lower division Spanish, effective Semester I, 1977-78.
3. The appointment of an Instructor in Russian, effective Semester I, 1977-78, is pending.

C. Separations from staff.

1. Professor Rubén Cobos retired at the conclusion of the academic year 1976-77.
2. Professor Richard Robin (Russian) resigned at the conclusion of the academic year, 1976-77.

II. Composite of information requested on individual biographical supplements.

1. Advanced study
 - a. Sam Guyler, NEH Summer Seminar for College Teachers, Art and Life in France, 1850-1900, Columbia University, New York, June 14-August 6, 1976.
 - b. Peter K. Pabisch, Promotion to Associate Professor as of August 1, 1976. Decision for tenure approved positively.
2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period.
 - a. John J. Bergen. Sabbatical leave during the Spring semester of 1976 spent in research and writing in Albuquerque, at the University of California at Los Angeles, and at Georgetown University, Washington, D. C.
 - b. Dinko Cvitanovic. Research travel to Argentina (June-August) Grant from the Res. Allocations Committee (UNM). Research: Martínez Estrada's view of the USA, to be published.
 - c. Pelayo H. Fernández. Summer in Spain involving research.
 - d. Robert Holzapfel. Six week research visit to Germany.
 - e. Tamara Holzapfel. Travel in Mexico-January 1976.
 - f. Jack Kolbert. Travel: France, summer of 1976.
 - g. Enrique E. Lamadrid. Travel in Mexico for two weeks during summer.
 - h. Byron T. Lindsey. Italy, June 15-July 15: Research on Dostoevsky's work on The Idiot in Florence; August 10-16, research on same topic, University of California Library, Berkeley.
 - i. Raymond R. MacCurdy. Five weeks' travel in Spain, June-July, 1976.
 - j. Peter Mellon. Spent the summer researching articles on Virgil's Aeneid and the Greek Anthology at Stanford University.

- k. Marshall R. Nason. Quito, Ecuador and Monterrey, Mexico, May-June, 1976.
- l. Peter K. Pabisch. Co-founder and Co-director (with George Peters) of Die Deutsche Sommerschule von New Mexico in Taos/ 1st session: June 13-July 11, 1976. August 15-19: National Convention of NFSG at EMU, Ypsilanti.
- m. George F. Peters. Summer teaching at the "Deutsche Sommerschule von New Mexico," Taos Ski Valley, June 13-July 11, 1976.
- n. William H. Roberts. Semester II and Summer, 1976. Travel and research in Spain, Morocco, France, England, Italy.
- o. Alfred Rodríguez. Spain, May-August, 1976.
- p. Claude-Marie Senninger. Semester II, sabbatical, travel to France, England, Spain.
- 3. New scholastic honors, fellowships, etc.
 - a. Dinko Cvitanovic. Nominated for the "Outstanding teacher award" at the graduate level, Spring semester (UNM).
 - b. Sam Guyler. NEH Summer Seminar Fellowship (see item l. a. above)
 - c. Jack Kolbert. September 1976: Awarded Knighthood in the National Order of Merit by President Giscard d'Estaing of France (along with Treasury Secretary George Schultz and Senator Wm. Fulbright) Wash., D.C.; Awarded \$5000 Travel Grant for USA Fellowship commemorating Bicentennial by French Ministry of Foreign Affairs; Reappointed Nobel Prize in Literature.
 - d. Byron T. Lindsey. Research Allocations Committee grant for research in Moscow (Lenin Library), December 27-January 9 on Tolstoy's Hadji Murat and other projects. Amount of grant: \$1409.

- e. Peter K. Pabisch. \$450.00 grant awarded by UNM Research Committee for Spring 1976.
- f. Julian E. White, Jr. Listed in Men of Achievement, latest edition of Who's Who in the West.

4. Publications

- a. John J. Bergen. "The Explored and Unexplored Facets of Questions Such as '¿Qué tú tienes?'" Hispania, March 1976. Volume 59, No. 1, pp. 93-99.
- b. Garland D. Bills. "Linguistic Diversity in Southwest Spanish," Studies in Southwest Spanish ed. by J.D. Bowen and J. Ornstein (Rowley, MS: Newbury House, 1976), pp. 4-16. Co-author: Jacob Ornstein.
- c. Truett E. Book. Un Village Français salve le Bicentenaire Americain Bavardons ensemble, Workbook for Le Weekend Français.
- d. Dinko Cvitanovic. "Hector Ciocchini, un poeta clásico en la Argentina contemporánea", El Heraldó Cultural, May 5, 1976 (Mexico).
- e. Pelayo H. Fernández. Bibliografía crítica de Miguel de Unamuno. Madrid, José Porrúa Turanzas, 1976. "Significación del 12 de octubre", El Hispano, Albuquerque, May 12 and November 19.
- f. Dick C. Gerdes. "Julio Ramón Ribeyro: Un análisis de sus cuentos," Kentucky Romance Quarterly, Vol. XXV, 1978. "Cambio de guardia: Literary Dynamics and Political Stagnation", The American Hispanist, September, 1976. "Prosas apátridas: En torno al diario íntimo," The American Hispanist, 1977.
- g. Ángel González. Muestra de algunos procedimientos narrativos (Poetry) Madrid, Turner Grupo poético del 27. Madrid, Taurus, 1976. Tratado de Urbanismo (Poetry). Barcelona, El Bardo, second edition, 1976.

- h. Bruno Hannemann. Articles: "Travastie des Übermenschen", Masko und Kothurn, 1975, Vol. 21, No. 2-3, pp. 123-134. "Der Böse Blick", Wirkendes Wort, 1976, Vol. 26, No. 3, pp. 167-183. Review of Mautner, Franz H., Nestroy, in Monatshefte 1976, No. 2, pp. 150-151.
- i. Tamara Holzapfel. "The Theater of René Marqués: In Search of Identity and Form," in Dramatists in Revolt, eds. Woodyard and Lyden, University of Texas Press, 1976, pp. 146-166.
- j. Robert C. Jespersen: Book Review: Taggart, Stephen G., Mormonism's Negro Policy: Social and Historical Origins, in Journal of Ethnic Studies, Summer 1976, pp. 118-121.
- k. Jack Kolbert. "L'Annee Litteraire-1975," French Review, Dec. 1976, pp. 1200-1222; "Andre Maurois et l'Amerique," French Review, May 1976, pp. 1055-1061. Reviews: "M. Butor's Matiere de Reves," French Review, April 1976, pp. 822-823; "M. Butor's USA-1976," French Review, May 1976, pp. 1124-1125; "Michael Spencer's Michel Butor," French Review, Feb. 1976, p. 427. "Death of Andre Malraux-- The End of an Era," The Albuquerque Journal, Nov. 28, 1976, Section C-p. 1-2. Has also published some twenty articles of various lengths on the role of the arts in the urban area and on urban beautification in the New Mexico Independent, the Tribune, etc.; also several literary reviews that have appeared in local papers.
- l. Byron T. Lindsey. Review of James, C. Vaughan, Soviet Socialist Realism: Origins and Theory, in Books Abroad, 1976, Vol. 50, No. 1, p. 191; review of Iskander, Fazil, The Goatibex Constellation, in Books Abroad, Vol. 50, No. 4; review of Kataev, Valentin, Embezzlers, in Books Abroad, Vol. 50, No. 4. (page numbers for last two citations not yet available).

- m. Raymond R. MacCurdy. Monograph: Los "isleños" de la Luisiana: Supervivencia de la lengua y folklore canarios. Madrid, Anuario de Estudios Atlánticos, 1975. Pp. 121.
- n. Patricia Murphy. Article: Ballet Reform in Mid-Eighteenth Century France: The Philosophes and Noverre," Symposium, 1976, Volume 30, No. 1, pp. 27-41.
- o. Marshall R. Nason. Update on article on Spanish American and Brazilian literature, World Book Encyclopedia.
- p. Peter K. Pabisch. "Sprachliche Struktur und assoziative Thematik in Ernst Jandls experimentellem Gedicht 'wien: heldenplatz'," (article) Modern Austrian Literature, 9, 2, 1976, 73-85 (in German). "Deutschunterricht und Deutschstudium in den USA: Perspektiven des Jahres 1975." Jahrbuch für Deutsch als Fremdsprache (Univ. Heidelberg), Heidelberg, 1976, 199-208. With George Peters, "The German Weekend in New Mexico: Culture through Experience. Unterrichtspraxis (Philadelphia), to appear in fall issue 1976. (In English). With Richard Karnes, "LISTE/ und/ Erläuterungen zur Liste 'Deutschsprachige Zeitungen in Kanada und den Vereinigten Staaten-1976; Jahrbuch Deutsch als Fremdsprache, v. 3 (Heidelberg, to appear 1977). "P. K. Ackermann, 'Max Frisch, Homo Faber,'" Unterrichtspraxis to appear in fall issue of 1976 (book review). "Liselotte Gumpel: 'Concrete' Poetry from East and West Germany", Journal of English and Germanic Philology (JEGP), to appear in 1977, book review.
- "Gottfried Stix, Die gesuchte Mitte: Skizzen zur österreichischen

- Literatur," Modern Austrian Literature, to appear in 1977
- (book review. "Wolfgang Martens, Lyrik kommerziell:- Das Kartell lyrischer Autoren 1902-1933," Modern Austrian Literature, to appear in 1977 (book review).
- q. George F. Peters. "Neue Gedichte: Heine's 'Buch des Unmuts'", Monatshefte, 1976, Volume 68, No. 3, pp. 248-256; "Air and Spirit in Goethe's Westostlicher Divan." Rocky Mountain Review to appear Fall/Winter 1976; "A Report on the German Weekend in New Mexico," Unterrichtspraxis, to appear Fall/Winter 1976 (co-authored). Review of Mythology and Humanism, The Correspondence of Thomas Mann and Karl Kerenyi, and An Exceptional Friendship, The Correspondence of Thomas Mann and Erich Kahler in Western Humanities Review, Spring 1976, 169-171; review of Davor: Ein Stück in Szenen by Günter Grass, ed. by Victor and Frances Lange, in Unterrichtspraxis to appear Fall/Winter 1976. In progress: Using German, a First Year German Text to be published by Harper and Row (co-author).
- r. Alfred Rodríguez. "Colombine," Boletín Informativo, xxvi (1975), 5-6. "Spanish Literature" The Americana Annual (1976), 360. "El uso de tarde en la poesía de Antonio Machado," Cuadernos Hispanoamericanos, CII, 304-307 (1975-1976), 690-97, (with L. Rodríguez).
- s. Jon M. Tolman. Book: Augusto Frederico Schmidt. São Paulo, Brasil: Edições Quíron, 1976. Pp. 273. Articles: A. F. Schmidt and C. Péguy: "A Comparative Stylistic Analysis,"

- Comparative Literature Studies, 1974 (in 1976), Vol. XI, No. 4, pp. 277-305. "Luso-Brazilian Bibliography," MLA Bibliography, 1974 (in 1976, Vol. II, pp. 124-138. "The Brazilian Novel," ed. Heitor Martins, Luso-Brazilian Literary Studies, Vol. I (Bloomington, Indiana: Indiana University Department of Spanish and Portuguese, 1976), pp. 1-13.
- t. Jack E. Tomlins. "Machado's Cock and Bull Story: Tristram Shandy and Braz Cubas." The Brazilian Novel, 1976, Volume I of Luso-Brazilian Literary Studies (Bloomington, Indiana, Indiana University), pp. 29-41.
- u. Sabine R. Ulibarrí. Río Arriba (short stories) in press, (Tonatiuh, Berkeley). "Me pregunto... (short story). (Cuadernos, Dixon, NM).
- v. Julian E. White, Jr. "Tentative Breeding Chart for Solid-Color and Parti-Color Colorpoint Shorthairs," Cat World, November-December 1975. (20-odd page typescript manuscript, reduced to chart form so breeders are able to calculate instantly possibilities of colors in a given litter, knowing the color pattern (both genotypically and phenotypically) of sire and dam.)
5. Other research projects or creative work in progress or completed during period
- a. John J. Bergen. "The Semantics of Spanish Count and Measure Entity Nouns," Language Sciences, to appear in 1977, 39 pp. Abstract of "The Explored and Unexplored Facets of Questions Such as '¿Qué tú tienes?'" Language and Language Behavior

Abstracts, to appear, and Sociological Abstracts, to appear.

"The Use of Gender Contrasts to Express Semantic Contrasts in Spanish," now being evaluated for publication.

- b. Garland D. Bills. Non-sponsored research on Chicano Vernacular English, and bibliographical research on the Spanish and English of U. S. Hispanos.
- c. Truett E. Book. Special material for Flash French course. Director, Weekend Français à Glorieta (375 attending). Fund raising for Alliance Française Scholarship (Lottery, Flea Market). French for Senior Citizens (weekly classes). Director of Distribution of Prizes UNM French Students.
- d. Dinko Cvitanovic. Book on "Alejo Carpentier, novelista." Now working on its last chapter. Reviewing the whole manuscript.
- e. Pelayo H. Fernández. In progress: A book on Ramón Pérez de Ayala.
- f. Dick C. Gerdes. Review and article submitted for publication: "La caza sutil, de Julio Ramón Ribeyro," Revista Kurpil (España); "Julio Ramón Ribeyro y la realidad peruana," Revista Arco (Colombia). Manuscript for book submitted for evaluation to the Instituto Nacional de Cultura, Lima, Peru: Julio Ramón Ribeyro y la ficción peruana. In progress: invited collaborator for book of studies on Gustavo Alvarez Gardeazábal (contemporary Colombian novelist), May 1977.
- g. Ángel González. Articles: "Identidad de contrarios en la poesía Antonio Machado", Cuadernos Hispanoamericanos, 1975, Números 305-307, Tomo I, pp. 544-558.

- h. Sam Guyler. Article in progress: "Antonio Machado and the Barbizon Painters. The Ironic Servicio of Lazarillo de Tormes."
- i. Bruno Hannemann. Book: Verkehrtes Welttheater. Nestroys Komödie completed. Will appear in print, Spring 1977. Article: "Psychogramm der Mächtigen", will be submitted soon.
- j. Robert C. Jespersen. Continued work on "Using German", a first-year German text with George Peters under contract with Harper and Row.
- k. Jack Kolbert. "L'Annee Litteraire-1976," committed for May issue 1977 of French Review. "The American Bicentennial in French Literary Scholarship," committed for French-American Literary Review, Spring 1977. Continuing work on book under contract for Twayne Publishing Co. entitled "Albert Thibaudet, Literary Critic."
- l. Enrique E. Lamadrid. During this period completed manuscript entitled Lectura y gramática, a second-year college Spanish text which will be published in November 1977 by Houghton Mifflin Company of Boston.
- m. Byron T. Lindsey. Research in progress on Tolstoy and on Dostoevsky, as cited in items 2 and 3 above. Also, will do work on contemporary Soviet art (unofficial painters while in USSR).
- n. Raymond R. MacCurdy. Article completed: "The Bathing Nude Revisited in Spanish Golden Age Poetry."
- o. Peter Mellon. Completed: Article, "A Riddle of the Greek Anthology (A. P. 14.24)" being considered by Classical Philology; Article, "Aeneas and Atlas" being considered by Virgilius.
- p. Patricia Murphy. Two book reviews submitted to Books Abroad in June 1976. Paper, "Scotland and the Scots as seen in Prévost's

Le Pour et Contre and in the writings of Voltaire" intended for a section meeting of the ASECS - submitted October 1976. The paper has been accepted for delivery at the meeting May 5-7, 1977 in Victoria, British Columbia and will also be published either in proceedings of the meeting or in 18th Century Life.

- q. Marshall R. Nason. Grantsmanship as follows: Title VI NDFL Language and Area Center proposal; Technical Report on Center for HEW; Project Proposal for Title VI NDEA Fellowships; Consortium proposal for Andean Study Center.
- r. Peter K. Pabisch. Article on dialect literature for PIDI (Publications of the Intern. Dialect Institute). Book chapter on Heimito von Doderer and A. P. Gütersloh for University of Hull, England.
- s. William H. Roberts. Continued work on book on King Sebastian in Portuguese letters.
- t. Alfred Rodríguez. "King Lear and Galdos' El Abuelo: A Reassessment" (S. Dorich) submitted. "El amor y la muerte en Los ojos verdes de Bécquer" (S. Mangini) submitted. "Algo más sobre la imagen de una idea común a Bécquer y Machado" (L. Cervantes) submitted.
- u. Claude-Marie Senninger. Etat-présent des oeuvres de Th. Gautier for Information Littéraire. Le Français dans le monde, article prepared (in progress) for Information et documents.
- v. Warren S. Smith, Jr. Continuing work on "Erasmus on Romans and Galatians" for U. of Toronto Press. His collaborators and he have signed a contract with the press for this work.
- w. Jon M. Tolman. Theory of Concrete Poetry. Harold de Campos, Décio Pignatari (Brazil). Translated and edited for English, with

a bilingual anthology (co-author, Mary Ellen Solt). Nearing completion.

- x. Jack E. Tomlins. Currently working on the following volumes:

A Handbook of Portuguese Historical Phonology, a bilingual anthology (critical) of Portuguese poetry of the 19th and 20th centuries, a Twayne volume on Marie de Andrade and Brazilian poetry in the 20th century.

- y. Rosemarie Welsh. G. Benn research and translation.

- z. Julian E. White, Jr. Various research projects on mediaeval Romance literature and linguistics.

6. Activities in learned and professional societies

- a. John J. Bergen. State Director, Sigma Delta Pi, National Hispanic Society.

- b. Garland D. Bills. "Chicano English: Dialect or Foreign Accent?" a paper presented at annual meeting of Rocky Mountain Modern Languages Association, Santa Fe, October 1976. At Ling. Assoc. of SW meeting: presented report (as chairman) of Research Committee; elected president for 1976-77. Meetings attended: Southwest Areal Languages and Linguistics Workshop, San Antonio, TX, April 1976; Linguistic Assoc. of Canada and U.S., El Paso, TX, August 1976; Linguistic Assoc. of Southwest/South Central Modern Language Association, Dallas, TX, October 1976; Rocky Mountain Modern Language Association, Santa Fe, October 1976; Border Linguistics Conference, El Paso, November 1976; Linguistic Society of America, Philadelphia, December 1976.

- c. Truett E. Book. Alliance Française, administrative council. 21 Club, UNM.

- d. Dick C. Gerdes. Read paper as a discussant at 1976 Midwest Association for Latin American Studies, Lincoln, Nebraska, October 1976.
- e. Ángel González. Lectura de poemas, Universidad Autónoma de México, México, March 1976. Id., Universidad Internacional de Las Palmas, Spain, July 1976. Id., Universities of Louisville and Kentucky, (Lexington), November 1976.
- f. Bruno Hannemann. Paper read: "Das deutsch-amerikanische Verhältnis-Notizen aus der Bundesrepublik," presented at Deutsche Sommerschule in Taos, June 22, 1976.
- g. Robert Holzapfel. RMMLA.
- h. Tamara Holzapfel. Paper: "Truth and Documentation in Two Plays by Vicente Leñero." Rocky Mountain MLA, October 1976; paper: "Compañero--The Revolutionary and His Double." Latin American Theatre Symposium, Penn State University, October 1976.
- i. Robert C. Jespersen. Rocky Mountain Modern Language Association meetings, October 1976.
- j. Jack Kolbert. Paper read: "L'image de L'Amerique vue dans les lettres de G. de La Fayette, International Colloquium, University of Brest, France; candidate for the National Presidency of American Association of Teachers of French, election results announced December 1976; attended the national AATF convention, Philadelphia, Penn., December 26-28 and the national MLA convention in New York, December 29-30, 1976.
- k. Enrique E. Lamadrid. Attended the American Council on the Teaching of Foreign Languages in New Orleans on November 25-27, 1976.
- l. Byron T. Lindsey. President, American Association of Teachers of Slavic and Eastern European Languages, New Mexico-El Paso Chapter, 1976-77. "Current Russian Language Textbooks: Problems and

- Possibilities," paper presented at AATSEEL meeting, University of Texas-El Paso, March 19, 1976.
- m. Raymond R. MacCurdy. Papers read: "The Language of the 'Isleños' of Louisiana," a paper read at the Hispanic Bicentennial Celebration in New Orleans, October 1976; "The Feminism of Rojas Zorrilla," a paper read at the Modern Language Association meeting in New York, December 1976.
 - n. Peter Mellon. Annual meeting of American Philological Association, New York, December 28-30, 1976.
 - o. Patricia Murphy. Lecture/Discussion on Glorieta Weekend-annual meeting of NMAATF, October 29, 1976.
 - p. Marshall R. Nason. Chairman, National Steering Committee, Consortium of Latin American Studies Program. Chairman, National Membership Committee, Latin American Studies Association. Latin American Studies Directors' Conference, U.S. Department of State, Washington, October 18 and 19, 1976. Attended National Meetings of Latin American Studies Association, Atlanta, Georgia.
 - q. Peter K. Pabisch. Why did Hitler dislike Austria?--seminar led at the NFSG Convention. Deutschzentrale--Cultural Center co-directed at NFSG Convention, August 15-19, 1976. RMMLA, attended annual conference at the College of Santa Fe, October 1976.
 - r. George F. Peters. Chairman, earlier German Literature Section, RMMLA annual meeting, Santa Fe, October, 1976; seminar lead at annual meeting of NESG, Ypsilanti, Michigan, August 1976: "Faust and the Devil"; "Extracurricular and Anticurricular Activities in the Field of German," a paper read by invitation at special

roundtable conference sponsored by Goethe House New York, New Orleans, November 1976; member, Heine Seminar, MLA, December 1976 (unable to attend).

- s. Alfred Rodríguez. "Los Estados Unidos en una novela reciente de Alejo Carpentier," paper read Midwestern Association for Latin American Studies, annual meeting, University of Nebraska-Lincoln, October 8-9, 1976.
- t. Jon M. Tolman. Meeting of Rocky Mountain Modern Language Association (annual meeting) attended, October 1976. "Brazilian Poetry, 1945-1975," a paper presented at Modern Language Association convention, New York City, December 1976. Secretary, Luso-Brazilian Section, Modern Language Association.
- u. Jack E. Tomlins. Served as president of the Rocky Mountain Modern Language Association and presided over the annual meetings in Santa Fe (October 1976). Will serve one more year on the Executive Board of this organization.
- v. Rosemarie Welsh. Attended RMMLA meeting in Santa Fe. Slide report at German Teachers' Assembly in Glorieta. Visit to German Summer School in Taos.

7. Other professional activities.

- a. John J. Bergen. Review of Terrell, Tracy D., Lingüística aplicada para profesores de español, for the editors of John Wiley and Sons, Publishers, New York.
- b. Garland D. Bills. Outside evaluator in two tenure/promotion decisions (Univ. of Texas-San Antonio, Univ. of Western Ontario). Associate Editor, Journal of the Linguistic Association of the Southwest.

- c. Truett E. Book. See 5c above. Director of French activities at International Festival.
- d. Pelayo H. Fernández. Master of Ceremonies for "Homage to Cervantes", April 23, Plaza del Sol Building. Master of Ceremonies for "Mexico's Independence and Chihuahua Sister City", September 16. Talk to "Sociedad Hispánica" on The Spanish Borderlands, October 10, El Hispano building.
- e. Sam Guyler. November 24, talked to the Italian class at the Career Enrichment Center.
- f. Robert C. Jespersen. Talked to Highland High School German class, November 1976.
- g. Jack Kolbert. Four 30-minute appearances on National French Television: talks dealt with USA Bicentennial, arts, politics, education in America; innumerable appearances and 30-minute interviews on New Mexico television and radio; "L'Amitie Franco-Americaine depuis 1776," talk delivered at July 4, 1976 Banquet, Nice, France--Union of Franco-American Specialists. Inaugurated official French Postal Stamps in honor of USA Bicentennial together with USA Ambassador to France, Kenneth Rush, June 1976, Vendome, France. Inaugurated together with Ambassador Herve Halphand the Western Film Festival, Cannes, France, July 2, 1976. "Politique et Sciences Humaines," major talk delivered by him at the New York Metropolitan Region, AATF Convention, March 1976, some 1000 persons in audience. New York Staler-Hilton. "Criticism versus Literature," National Colloquium on the Western Novel, West Virginia University (gave three talks there), September 23-26, 1976, Morgantown, West Virginia. "The City Leader of the

- Year," Gold Key Award presented by Mayor Abe Beame of NYC, NYC, March 1976. Consultant reader for the following agencies (as such he reads and evaluates manuscripts): Studies in 20th-Century Literature, published by Kansas State University; Franco-American Studies, published by Texas Christian University; Essays in Literature, published by Western Illinois University; Harper and Row of NYC.
- h. Enrique E. Lamadrid. Several school districts throughout the nation asked for his services as consultant, but he turned them all down this year, since he was spending too much time traveling. Will probably continue this type of professional activity next year.
 - i. Raymond R. MacCurdy. Consultant to the National Foundation for the Humanities.
 - j. León J. Márquez. Off-campus talks to personnel of Civil Service Commission, Department of Agriculture, Corps of Engineers, etc.: "Understanding the Spanish-Speaking Minority", "Cultural Differences", "Contrastive Social Patterns", etc. Off-campus talks to teachers, school administrators, other school related personnel in programs directed by Cultural Awareness Center (UNM), C.A.C.T.I. (UNM) on language and cultural topics.
 - k. Marshall R. Nason. "Argentina Revisited", talk to the Pan American Round Table of Albuquerque, February, 1976. Presided over Latin American Lecture Series on campus.
 - l. Peter K. Pabisch. Reading of poetry of Stefan George on Albuquerque's KHFM; December 4, 1976. Co-director of German-French

- Weekend with European Seminar for over 800 college and high school students of New Mexico at Glorieta, April 2-4, 1976.
- m. Alfred Rodríguez. Editorial Board: Colección Maisal de Literatura Hispánica (Madrid).
 - n. Claude-Marie Senninger. Writing novel, half done: Prières pour pierres brisées.
 - o. Jon M. Tolman. Luso-Brazilian Review Editor, Modern Language Journal.
 - p. Jack E. Tomlins. Delivered a radio address in the Fall of 1976: "Spanish and Portuguese Jewry in the Middle Ages."
 - q. Sabine R. Ulibarri. Lectures to professional, civic and government groups in Des Moines, Dallas, Ames, Bakersfield, Colorado Springs, Las Cruces, Abiquiu, Albuquerque, El Paso.
 - r. Rosemarie Welsh. Proofread a German book by a colleague.
 - s. Julian E. White, Jr. Symposium on Bilingual Education.
8. Non-teaching University service.
- a. John J. Bergen. Advisor of the Master of Arts in Teaching Spanish program (Fall 1976); coordinator of Spanish 201, 202, and 203 (Fall 1976).
 - b. Garland D. Bills. Chairman, Department of Linguistics; supervisor of 2nd year Spanish (Spring); supervisor of Native American languages program, etc.
 - c. Truett E. Book. Undergraduate advisor, French. Supervisor of Teaching Assistants in French. Program coordinator, 1st- and 2nd-year French (UNM).
 - d. Dinko Cvitanovic. Chairman of 9 committees on studies.

Committee of Cultural Affairs.

- e. Pelayo H. Fernández. Faculty advisor.
- f. Dick C. Gerdes. Faculty advisor, Association of Graduate Students of Modern and Classical Languages.
- g. Sam Guyler. Faculty advisor in Italian. Chairman, Department Library Committee.
- h. Bruno Hannemann. Member of Comparative Literature Committee.
- i. Tamara Holzapfel. Senator at Large; Graduate Committee; Ad Hoc Freshman Humanities Committee.
- j. Robert C. Jespersen. Faculty Senate; Athletic Council (until June); Associate Dean, Arts and Sciences (until July); Outstanding Teacher Award Committee; Department Policy Committee.
- k. Jack Kolbert. Coordinator for the French Section, Department of Modern and Classical Languages; has addressed the UNM Chapter of Philosophy Honorary; served on Jury of Interdisciplinary Graduate Studio, School of Architecture; addressed many classes in political science, humanities, honors, etc.; served on Glorieta Committee. President of the Albuquerque City Council. Elected as one of 13 national municipal officials to the National Steering Commission on Community Development, National League of Cities, Washington, D.C.; attended conferences in Denver, New Orleans, San Francisco, and Washington, D.C. Member of the Governing Boards of Trustees of following: St. Joseph's Hospital, Albuquerque Chamber of Commerce, Jewish Community Council of Albuquerque, Experiment in Jewish Learning. Honorary French Consul in New Mexico. Appointed to Board of Trustees, French Language Institute of

America, appointee by Prime Minister R. Barre of France; countless talks given to such community organizations as Kiwanis, Mayor's Prayer Breakfast, C. of C, Caravan Club, Rio Rancho Community, Temple Albert Men's Club, Arts groups of all sorts. Talked on Art Criticism, Beautification, Politics, etc.

- l. Enrique E. Lamadrid. Direction and supervision of Spanish 101-102 involving more than 1000 students and about 25 graduate assistants; undergraduate advisor; in charge of challenge examinations for first-year Spanish; committee on scheduling and the language laboratory and elected member of the Department Policy Committee.
- m. Byron T. Lindsey. Director, Russian language program; Acting Chairman, Russian Studies Committee; Comparative Literature Committee.
- n. Raymond R. MacCurdy. Chairman, Promotion Advisory Committee for the Humanities, College of Arts and Sciences; member, Tenure Advisory Committee, College of Arts and Sciences; member, Committee on Honorary Degrees.
- o. León J. Márquez. Coordinator of Hispanic Lecture Series "Aspectos de la cultura Hispánica." Coordinator of "Spanish for Spanish Speakers" courses.
- p. Peter Mellon. Faculty advisor for student organization, "Way Campus Outreach" (biblical society); member of dissertation committee of Ellen Dowling (English).
- q. Patricia Murphy. Spring Semester-National/International Affairs Committee. Fall Continuing Education Committee, Comparative Literature Committee, Council for Alliance Française.
- r. Marshall R. Nason. Director, Latin American Center; Director, Ibero-

American Studies doctoral program; Member, Faculty Senate; Chairman, Senate Committee on Student Affairs and Extra-Curricular Activities; Member, Senate Executive Committee; Member, President's Task Force on Latin American Studies; Director, Andean Study and Research Center; Member, Policy Committee, Department of Modern and Classical Languages; Member, National and International Affairs Committee (University standing committee).

- s. Peter K. Pabisch. Faculty member of Comparative Literature Program. Member of Faculty Library Committee (secretary in 1975-76). Chairman of Visiting Lecturers Committee for the Humanities and Social Sciences.
- t. George F. Peters. Assistant Chairman, Modern and Classical Languages; Comparative Literature Committee; Associate Chairman, German; Undergraduate advisor, German; Co-director, "Deutsche Sommerschule von New Mexico."
- u. Alfred Rodríguez. Research Allotment Committee (January-May, 1976).
- v. Claude-Marie Senninger. Sponsor, French for Children; President, New Mexico AATF; President, Alliance Française de Albuquerque; Member, Policy Committee of Department of Modern and Classical Languages.
- w. Warren S. Smith, Jr. Chairman, Comparative Literature program; member of Arts and Sciences Promotion Committee and Language Department Policy Committee.
- x. Jack E. Tomlins. Advisor to undergraduate and graduate students in Portuguese. Served a second year on the University Press Committee.
- y. Sabine R. Ulibarrí. Undergraduate and graduate advisor; Department Chairman.

- z. Rosemarie Welsh. Worked on committee for selection of Fulbright students.
- aa. Julian E. White, Jr. Assistant Chairman, Modern and Classical Languages. Associate Dean, College of Arts and Sciences.

9. Public service.

- a. Truett E. Book. Neighborhood collections for heart and cancer drives.
- b. Pelayo H. Fernández. Albuquerque-Gijón (Spain) Sister Cities. Responsible for the idea and the official approval.
- c. Tamara Holzapfel. Assisted in directing play (Un hogar sólido) of the Latin American Desk.
- d. Enrique E. Lamadrid. Supported several cultural and charitable organizations in the city and the state, principally the Santa Fe Opera and the New Mexico Symphony.
- e. Byron T. Lindsey. Amnesty International, Group 101 (Albuquerque), treasurer; Precinct Chairman, Precinct 406, Democratic Party.
- f. Patricia Murphy. Democratic Party Voter Registration, etc.
- g. Peter K. Pabisch. Scholarship Chairman of Edelweiss am Rio Grande, German-American Club.
- h. George F. Peters. Music reviewer for New Mexico Independent; volunteer announcer, KHFM.
- i. Jon M. Tolman. Cub Scouts, Pack 207: Cub Scout Master and Webelos Leader. Sunday School Presidency, LDA 7th Ward, Albuquerque East Stake.
- j. Jack E. Tomlins. PTA, Sombra del Monte School; worked with his wife as advisor for Blue Birds.
- k. Sabine R. Ulibarri. Member, New Mexico Humanities Council, Albuquerque Bicentennial Commission.

The Report of the Department of Philosophy
July 1, 1976 - June 30, 1977
Howard N. Tuttle - Chairman

I. General Departmental Information

A. Significant Achievements.

This was Professor Tuttle's first year as chairman, and of Professor O'Neil as Graduate Student Advisor of the Department of Philosophy. The major effort of the department has been to recover from what some people feel has been a decline of standards and general drift. Department dialogue about our problems and goals was carried on in earnest. Significant reconstruction has resulted from this dialogue. Every issue from inflated grading to Chicano Studies and professional standards has been discussed openly, and more mature determinations and attitudes have been formed. We will continue to make significant changes next year, but we can mention at least the following improvements of this year:

The teaching of standard and rigorous courses has been accepted by all members of the department. A certain department tendency to teaching personal and erratic material has been largely checked.

The teaching of Chicano Studies (Phil. 105) under Mr. Mondragon (a course which has gone unwatched for six years, and which failed to meet any professional standards) is no longer taught under Chicano Studies. It is now taught under the aegis of philosophy with our own personnel.

719

We have had long and careful observation and deliberation about this course, and we believe we now have a far better offering to the Spanish speaking community in New Mexico.

An Important change in the teaching and administration of Introductory Philosophy (formerly Philosophy 100) is now being implemented in the department. In the past this course has been taught by graduate students using any materials or methods they might desire. There has been virtually no faculty supervision or planned input. After considerable planning and dialogue with our faculty and teaching assistants we are in the process of forming a new, and more responsible course.

Our Graduate Advisory Committee which was created to deal with certain departmental executive questions has been directed to determine whether a student gaining an M.A. degree will be allowed to continue for the Ph.D. in our department.

It has been determined that both Philosophy 257 and 356 (logic) will be required for the Ph.D. logic seminar. This seminar is required for the Ph.D.

This year the BEF flagged our program because of our low rate of degree completion. At spring graduation we will have greatly improved the number of graduates who will take the M.A. in philosophy. The department still produces an average of one Ph.D. per year.

This year we increased the number of hours required for our undergraduate philosophy minor from 15 to 18 hours, including six hours in the history of philosophy, and nine hours to be distributed at the 300 or above level.

Another department achievement is our hiring of Professor Geshe Sopa for the spring semester 1977. He is the first distinguished visiting professor in the department's history.

Finally, Professor Charlene McDermott was promoted to full professor

B. Significant Plans:

We have started a policy of hiring outside professors for our summer term here at U.N.M. This year we hired Prof. Eddie Miller of the University of Colorado at Boulder. Also several of our department faculty hope to make arrangements for exchange teaching with faculty in other institutions. Professor Tuttle hopes to be at the University of Duisberg in West Germany in 1978-79.

C. Appointments to the Staff.

None. However a long search was conducted for a replacement for Professor Evans who retires this year. The administration refused to fill this vacancy because of our apparently too-liberal grading practices. The department has undergone serious and prolonged examinations of our grading practices, and we believe we can reverse the apparent tendency to overly-high grading. It is of course vital that

721

the department be able to replace our retiring professors in the future.

D. Separations from the Staff.

Professor Carl Stern of our department was denied tenure this spring. Prof. Melbourne Evans retires from the department this year after 22 years service.

II. Composite Information from Biographical Supplements.

1. Advanced study.

None.

2. Sabbatical leaves.

a. Prof. Paul F. Schmidt - academic year 1976-77.

b. Prof. Helena Eilstein - spring term 1977.

3. New Scholastic honors, fellowships, etc.

None

4. Publications.

Casalis:

"The Discourse of Penthouse: Rhetoric and Ideology", Semiotica 15:4, pp. 355-391.

Review of Chiari, Twentieth Century French Thought, Choice 3, 76, pp. 266-267

Review of Pivcevic, Phenomenology..., Choice, 5, 1976, pp. 244.

Review of Smith, J. Maritain: & Choice, 9, 1976, pp. 69-70.

"Metonymy and Metaphor in Haiku" Semiotic Society of America Conf. Program, p. 24.

"Semiology and Semiotics of Haiku", forthcoming, Semiotica.

Evans:

"A Truth-Functional Analysis of Aristotelian Logic," Rassagna Internazionale di Logica, Dec. 1976, pp. 198-215.

Lee:

Review of Schacht, Richard, Hegel and After: Studies in Continental Philosophy Between Kant and Sartre, in Choice, Jan. 76, p. 307.

Review of Poster, Mark, Existential Marxism in Postwar France; From Sartre to Althusser, in Choice, June 76, p. 292.

Review of Timpanaro, Sebastiano, On Materialism, in Choice, Sept. 76, p. 325.

Review of Grene, Marjorie, Philosophy in and Out of Europe, in Choice, Mar. 77, p. 281.

Tuttle:

"Epistemological Status of the Cultural World in Cico & Dilthey" Vico's Science of Humanity, John Hopkins Press, 1976, pp. 214-250.

"The Lived Experience" Social Research, vol. 43, 1976, No. 3.

Review in Review of Metaphysics vol. XXX, No.1, Sept. 1976, pp. 132-133.

5. Other Research Projects or Creative Works.

Casalis:

"Conte"; "L'homme et la pente"; "mot-blessure"; "Le bois de meleze"; "Cordoue"; "Le motouverture" (essays).

Eilstein:

Research on book "Existential Hypotheses."

Goodman:

Wrote several drafts of a paper on Wittgenstein and ethics, and a paper on Mencius and Wittgenstein.

Lee:

Paper accepted for publication: "A Critique of Haskell Fain's Between Philosophy and History."

Contribution accepted for publication: "Communist Ideals of Man and Society" in the book, Goals for Mankind - A Report to the Club of Rome on the New Horizons of Global Community, Dutton, manuscript pgs.2, bibliography.

Review of Timpanaro, Sebastiano, On Materialism, submitted to Journal of the History of Philosophy, Feb. 77.

Two more book reviews submitted for publication.

McDermott:

Anthology of Comparative Philosophy with E. Deutsch and I. Copi - to appear in late 1977.

"Pratityāsamutpada." "Who Rides a Tiger," article to appear in Journal of Chinese Philosophy, Sept. 77.

"A Comparative Investigation of Awareness of dukkha" - Philosophy to appear in Philosophy East and West, October 77.

Translation of Boetius of Dacia's "speculative grammar" (13th century latin treatise) as part of a book comparing medieval with contemporary linguistic theories, in progress.

Translation of commentary on Boetius of Dacia's "Speculative grammar," in progress.

Logic and Ethics as germane to contemporary medical practice.

O'Neil:

Ms. on "Substance vs. Substratum" completed and being prepared to go out for consideration.

Schmidt:

Further writing for a new book, The Aesthetics of Existing.

Schueler:

I am working on papers on moral relativism, on the issue of abortion, on Thompson Clarke's attempted resolution of Cartesian doubt and on 'practical reason.'

Sturm:

Bishop, D.H., Indian Thought; An Introduction.

T.M.P. Mahadevah, Invitation to Indian Philosophy; May 76.

Puligandla, R., Fundamentals of Indian Philosophy, April 1976.

Forbes, G.H., Positivism in Bengal a Case Study in the Transmission and Assimilation of an Ideology.

Sturm(cont.)

Mookerjee, S., The Buddhist Philosophy of Universal Flux, June 1976.

Bhattacharyya, N.N., Jain Philosophy; Singh, R.B.P., Jainism in Early Medieval Karnataka, Aug. 1976.

Sastri, P.S., Indian Idealism (2 vols) September 1976.

Herman, A.L., An Introduction to Indian Thought, October 1976.

Research project in process: History of Latin American Philosophic Thought.

Tuttle:

Accepted for publication: "The Idea of Subjectivity in Recent German Philosophy." in F.D. Wormuth, Festschrift in 1976 by Kennikat Press, 1977.

Review of Gadamer, Hegel's Dialectic Yale Press, 1976, Review of Metaphysics, 1976.

Review of Goldstein, Historical Knowing, Texas Press in Journal of History of Philosophy, 1977.

6. Activities in Learned and Professional Societies.

Casalis:

Read a paper on "Metonymy and Metaphor in Haiku", Semiotic Society of America Conference, Atlanta, GA., September 25, 1976.

Goodman:

President, New Mexico-West Texas Philosophical Society. Attended Annual meeting of that society in April, 1976 at Arlington, TX, and delivered Presidential address: "Wittgenstein and Ethics." Delivered paper called "Mencius and Wittgenstein; Toward a Theory of Ethics" at Western Conference Association for Asian Studies, Flagstaff, Arizona, October 1976.

- Lee: A Critique of Haskell Fain's "Between Philosophy and History" a paper presented at meeting of Society for the Study of the History of Philosophy at APA (Western Div.) meeting in New Orleans, April 1976.
- McDermott: International Association of Orientalists, Mexico City Conference, paper read, August 1976.
Paper read and discussant, Flagstaff, Arizona, October 1976.
Colloquium paper delivered - University of Wisconsin, Milwaukee, May 76.
Lecture, University of Indiana, Bloomington, Indiana, March 11, 77, (Buddhist Epistemology).
Invited participant in a symposium on comparative religion, University of California, Berkeley, CA., May 20, 1977.
Lecture to regional AAUW group, April 1977.
- O'Neil: Have applied to chair or be a respondent for colloquia at spring meeting of APA, Pacific Division.
- Schmidt: Invited to lead a conference on "Eastern Spirituality for Western Seculars" with Prof. Harvey Cox (Harvard Divinity School) at the Rowe Conference Center, Rowe, MA.
Attend sessions of "Boston Colloquium for Philosophy of Science" during September and October, 1976.
- Stern: Papers read at New Mexico-West Texas Philosophical Society annual meeting, April 9-11, 1976, and at the Southwestern Philosophical Society annual meeting, November 11-13, 1976.
- Sturm: SCOLAS (Feb.): paper (listed in 4)
APA (Pacific Div.): moderator of symposium on Chinese Philosophy.

Sturm (cont)

Consultation on African Religion, ARA (Oct.): paper - "Preservation of African Community in Afro-Brasilian Cults"; Amer. Assoc. for Chinese Studies (Nov):

Board of Directors, Chmn. Editorial Committee, APA (Eastern Div.) (Dec.): Committee on International Cooperation.

Symposium on Minorities in Brasil, Southwest Council for Latin American Studies (Lubbock, TX, February 1977), "Socio-Political Significance of Afro-Brasilian Cults."

Symposium on Chinese Humanism, Society for Asian & Comparative Philosophy (Portland, Ore.: March 25, 1977)-"Early Confucian Tradition and Chinese Humanism"

IX Interamerican Congress of Philosophy (Caracas, Venezuela: 20-24 June 1977) "Foundations for New Era: The Philosophic Vocation of Farias Brito."

Re-elected to a two-year term on Board of Directors, American Association for Chinese Studies.

Tuttle:

Paper: "Dilthey Today" Columbia University. Conference on Vico, N.Y.C., January 28, 1976.

Consultant for Choice Magazine, Review of Metaphysics, Journal of History of Philosophy.

Elected Vice President of New Mexico-West Texas Philosophical Association, 1977-78.

7. Other professional activities.

Casalis:

Consultant for Choice.

Lee: Paper presented at a New Mexico Humanities Council Program, Las Cruces, N. M., Nov. 76, "Some Philosophical Considerations with Regard to Marijuana and the Law."

Panel participant in program of New Mexico Humanities Council on Marijuana and the Law in Albuquerque, N. M., November 1976.

Schueler: Panel member, "Marijuana and Society," NMHC sponsored program, Albuquerque, N. M., November 1976.

Main speaker, "Marijuana and Morality." NMHC sponsored program, Eastern New Mexico University, Dec. 2, 1976.

Panel member, "Abortion: the Issues," NMHC sponsored program held Feb. 77, at the Albuquerque Convention Center and televised later over KNME-TV.

Panel member on discussion "Abortion: The Issues" was held in Socorro and Albuquerque and on TV.

Stern: Secretary-Treasurer of the New Mexico-West Texas Philosophical Society.

Sturm: Paper presented to Philosophy Club, UNM, November 1976, "The Precious Key to the Secret Treasury: Problems in Comparative Philosophy."

Tuttle: Children's book: Fire Night: A Story of Pompeii, accepted for publication by Vangaard Press, 1977.

8. Non-teaching University Service.

Casalis: Director, Program in Religious Studies
Member, Graduate Advisory Committee.

Evans: Member: University Library Committee
Member: Ad Hoc Committee on Promotions in the Humanities.

Goodman: Faculty Senator; Member-Academic Freedom and Tenure Committee

Lee: Philosophy Department undergraduate and honors advisor.

McDermott: Tenure Committee, Senate, chairperson of Asian Studies Minor program, Undergraduate Affairs Committee, Committee to assess comparative literature program, preparing a symposium to be held in the fall in conjunction with UNM medical school.

O'Neil: Departmental Graduate Advisor and Coordinator, member, of old and new Students Standard and Grievance Comm.

Schmidt; Chairperson, Department of Philosophy until July 1, 1976. Member of University Press Committee, American Studies Committee, chaired Honorary Degree Committee.

Schueler: Member of University Committee on Scholarships, prizes, loans and high school relations.

Sturm: Graduate Advisory Committee (Philosophy Department); Committee on Group Requirements (College of A & S); Graduate Committee, Graduate School Fellowship Committee.

Tuttle: Chairman of the Department of Philosophy as of July 1, 1976.

9. Public Service.

Lee: Treasurer, UNM Chapter of AAUP.

McDermott: Informal talk-Buddhist Studies Institute, Berkeley, Cal. Teaching and advisory work Tibetan Nyingma Institute-Berkeley, CA. Charter member and advisor-Ganden Mayayana Institute, Madison, Wis.

O'Neil: Supportive activities at own church.
Referee and scores clerk for AYSO
(American Youth Soccer Organization)

Sturm: Friends of the Pueblo Cultural Centre;
Unitarian Church.

Tuttle: Boy Scout den leader.

The Report of the Department
of Physics and Astronomy

July 1, 1976 - June 30, 1977

Victor H. Regener, Chairperson

I. General Departmental Information

A. Significant Achievements During the Academic Year 1976-77

1. Departmental Operation

The following table shows student credit hours (averages for Semester I and Semester II) for this department over the last four years, the number of graduate students in the department (including Los Alamos Courses) and the number of degrees granted. Campus faculty of this department contributed to the teaching at the Los Alamos Graduate Center, with three faculty members commuting in Semester I, and two in Semester II.

Student Credit Hours, Physics and Astronomy

(Average, Semesters I, II)

<u>1973-74</u>	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
6,085	6,250	6,423	5,933
Increase 2.7%	2.8%	-7.6%	

731

Number of Graduate Students Enrolled

(Semester I Figures)

<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
50	48	53

Number of Degrees Granted

<u>May 1975</u>	<u>May 1976</u>	<u>May 1977</u>
BS 5	3	7
MS 2	3	1
PhD 7	1	3

The continuing heavy involvement of the department in research is shown in the following table for 1974-75 through 1976-77.

	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>
(1) Departmental Budget, U.N.M.	\$510,551	\$542,063	\$602,100
(2) Money for grants and contracts received during the year from outside sources	240,500	330,880	290,877
(3) Overhead to University from grants and contracts	36,140	48,000	46,699
(4) Active grants and contracts at end of year	760,479	699,370	790,000

2. Review of Course Offerings

Courses at all levels were again scrutinized in the fall of 1976.

Two new laboratory courses, 112L and 116L were introduced to supplement, on an optional basis, two of our successful

"general interest" courses, namely Physics 102 (Introduction to Physics), and Physics 106 (Light), respectively. The addition of these two laboratories will fill a demand voiced for some time by students and faculty members.

B. Significant Plans and Recommendations for the Near Future

The matter of graduate assistantships is still of great concern. For the report year we were given one additional regular assistantship for a total of 15 and, in addition, enough money to add almost three more assistants in the "special" category. The benefit of this increase was quite noticeable. We need to have the specials made regular, and we need another substantial increase to further improve the quality of our undergraduate teaching effort.

C. Appointments to Faculty

Our faculty will be joined on July 1, 1977 by Dr. McAllister Hull, Professor of Physics, who will be the Provost of the University. Dr. John Linsley was made Research Professor of Physics, and Dr. Joey Donahue, Research Assistant Professor. Drs. Alpert, King and Swinson were promoted to the rank of Professor for 1977-78.

II. Composite of Information Requested on Individual Biographical Supplements

1. Advanced Study

A.W. Peterson

Community College Courses - 1. Real Estate for the Investor Spr. 76
2. Speed Reading 3. New Mexico, Wild Trout and 4. Brown Trout
Fall 76.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel, etc., during the period

Harjit S. Ahluwalia

Participated and presented papers in the following meetings:

- 1) American Geophysical Union International Symposium on Solar-Terrestrial Physics, Boulder, Colorado, June 1976.
- 2) Business Meeting of the International Group on the Study of Traveling Interplanetary Phenomena (STIP), Boulder, Colorado, June 1976.
- 3) Second International Cosmic Ray Symposium in Japan on High Energy Cosmic Ray Modulation, Tokyo, Japan, August 1976.
- 4) STIP Workshop of High Energy Cosmic Ray Group, Tokyo, Japan, August 1976.

Seymour S. Alpert

Visited University of Hawaii at Hilo Physics Department and NOAA Weather Observatory in Hilo, June 1976.

Charles L. Beckel

Professional visit to Steward Observatory, Physics Department, and Kitt Peak, University of Arizona campus, Tucson, Arizona, July 19-20, 1976.

Howard C. Bryant

Sabbatical: Senior Visiting Research Fellow (Science Research Council of Great Britain) at Queen Mary College (University of London) and Rutherford Laboratory (Sept. 75 - June 15, 1976)
Also Traveled throughout Britain, with brief visits to France, Switzerland, Italy, Austria, Germany, Belgium, Spain(Majorca).

Byron D. Dieterle

July, visit to Canadian Cyclotron in Vancouver B.C., TRIUMF
July, visit to BNL synchrotron AGS in Long Island, N.Y.

J.D. Finley, III

Travel to Mexico City from May 10 to June 4 and from September 30 to October 14, for work with Dr. Jerzy Plebanski, Centro de Investigaciones y Estudios Avanzados del I PN.

Derek B. Swinson

Travel to Japan, August 1976, to attend 2nd International Cosmic Ray Symposium in Japan.

David M. Wolfe

Visited with colleagues at UC Irvine, University of British Columbia, University of Washington, University of Chicago, Temple U. (Phila) and Brookhaven National Laboratory, NY. Proposed new experiment at Brookhaven with UC Irvine and Temple.

Michael Zeilik, II

Assistant Professor of Astronomy, Harvard Summer Schools
Observing trips to Kitt Peak National Observatory and McDonald Observatory.

3. New scholastic honors, fellowship, etc.

Harjit S. Ahluwalia

Appointed General Secretary of the High Energy Cosmic Ray Group in the International Group conduction Study of Traveling Interplanetary Phenomena (STIP). 2) Invited to visit with Cosmic Ray Research groups in Japan at (a) The Institute of Physical and Chemical Research, (b) Nagoya University, (c) Shinshu University

Michael Zeilik, II

Special Faculty Award, UNM Honors Assembly, April 1976.

4. Publications

Harjit S. Ahluwalia

1) "Solar Cycle Related Changes in Cosmic Ray Daily Harmonics" Oral Presentation at the AGU International Symposium on Solar-Terrestrial Physics, Boulder, Colorado, June 7-18, 1976. Also Presented at the second International Cosmic Ray Symposium in Japan on High Energy Cosmic Ray Modulation, Tokyo, Japan, August 2-5, 1976. To appear in Conference Proceedings.

Seymour S. Alpert

1) The Concentrations Dependence of the Hemoglobin Mutual Diffusion Coefficient, BIOPHYSICAL CHEMISTRY 4, 287 (1976)
2) Review of Max Born and Emil Wolf, PRINCIPLES OF OPTICS, PERGAMON PRESS, OXFORD, 5th edition.
3) Hydration Effects in the diffusion of Spherical Macromolecules, JOURNAL OF CHEMICAL PHYSICS 65, 4334 (1976).
4) The concentration dependence of the hemoglobin mutual diffusion coefficient: A TALK to the Department of Physics and Astronomy; UNM March 6, 1976.

Charles L. Beckel

- 1) "Power-series Expansions of Vibrational Potentials. V. Radii of Convergence for Non-Dunham Series," Journal of Chemical Physics 1976, Volume 65, pp. 4319-4320.
- 2) "Excited Vibration-Rotation States of Diatomic Molecules" Invited paper summarizing present state of knowledge, Conference on the Chemistry and Physics of Plumes, Los Angeles, California February 11, 1976.
- 3) "Low-lying Bound Electronic States of H_2^+ ", Invited paper presented at the R.S. Mulliken Seminar, 31st Symposium on Molecular Structure and Spectroscopy, Columbus, Ohio, June 16, 1976.

Howard C. Bryant

- 1) "Precision Measurement of n-p Charge-Exchange Cross Section at 647 MeV," Physical Review Letters 36, 497 (1976), Co-authors: Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Bonner, Simmons, Bjork, Riley, Cassapakis, Dieterle, Leavitt, Wolfe, Werren.
- 2) "Neutron Spectra at 0° from p-p and p-d collisions at 647 and 800 MeV Incident Energies," Physics Letters, 63B, 31 (1976). Co-authors: Bjork, Riley, Bonner, Simmons, Williamson, Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Cassapakis, Dieterle, Leavitt, Wolfe, Werren.
- 3) "Neutron Spectra at 0° from (p,n) Reactions on 9Be , ^{12}C , and ^{27}Al at 647 and 800 MeV, Physics Letters 63B, 35 (1976). Co-authors: Cassapakis, Dieterle, Leavitt, Wolfe, Bonner, Simmons, Bjork, Riley, Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Werren.
- 4) "Quarking on the Berkshire Downs", European Scientific Notes, Office of Naval Research, London, ESN-30-10, 31 October, 1976 P.473-6.
- 5) "A Solar Pond for London?"; co-author, Ian Colbeck, to be published in Solar Energy (Journal of the International Solar Energy Society).
- 6) "Optical Transforms of the Alphabet", Co-author: Sharifian, Tootoonchi, Seagrave, accepted by The Physics Teacher.
- 7) "Observations of Resonances near 11 eV in the Photo detachment Cross-section of the H^- Ion", Co-authors: Dieterle, Donahue, Sharifian Tootoonchi, Wolfe, Gram, and Yates-Williams. Submitted to Physical Review Letters.

Colston Chandler

- 1) "Invariance Principle for Scattering with Long-Range (and Other) Potentials", Indiana University Mathematics Journal 25 (1976) 443-460 (with A.G. Gibson)
- 2) "On a time-independent theory of Multichannel quantum mechanical scattering" in Few Body Dynamics, ed. by A.N. Mitra et. al., (North Holland, Amsterdam, 1976), pp. 123-25, with A.G. Gibson.

Bryon D. Dieterle

- 1) "Neutron Spectra at 0° from p-p and p-d Collisions at..... Physics Letters 63B 35 (1976).

- 2) "Neutron Spectra at 0° from (p,n) Reactions ----" Physics Letters 63B, 31 (76).
- 3) "Precision Measurement of n-p Charge Exchange Cross-Section at 647 MeV Physical Review Letters 36, 497 (76).
- 4) "Observation of Resonances Near 11eV in the Photodetachment-- Submitted to Physics Review Letters.

J.D. Finley, III

- 1) "Further Heavenly Metrics and Their Symmetries," J. Math Physics 17 pp. 585-96 (1976).
- 2) "The Intrinsic Spinorial Structure of Hyper-heavens," J. Math Physics 17 December 1976.

David S. King

- 1) The Masses of AC Andromedae, U Trianguli Australis and BC Draconis using Radiative Models, in the Proceedings of the Solar and Stellar Pulsation Conference LA-6544-C, ERDA October 1976.
- 2) The Masses of AC Andromedae, U Trianguli Australis and BC Draconis Astrophysical Journal in Press.

Christopher P. Leavitt

- 1) "Neutron Spectra at 0° from p-p and p-d Collisions as 647 and 800 MeV Incident Energies," Bjork, Riley, Bonner, Simmons, Williamson, Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Cassapakis, Bryant, Dieterle, Leavitt, Wolfe, Werren. Physics Letters 63B, 31 (1976)
- 2) "Neutron Spectra at 0° from (p,n) Reactions on ^9Be , ^{12}C and ^{27}Al at 647 and 800 MeV," Cassapakis, Bryant, Dieterle, Leavitt, Wolfe, Bonner, Simmons, Bjork, Riley, Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Werren, Physics Letters 63B, 35 (1976)
- 3) "Precision Measurement of n-p Charge-Exchange Cross Section at 647 MeV," Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Bonner, Simmons, Bjork, Riley, Bryant, Cassapakis, Dieterle, Leavitt, Wolfe. Physical Review Letters 36, No. 10, 497 (1976).
- 4) "Pion Production in Neutron-Proton Collisions," Wolfe, Cassapakis, Dieterle, Leavitt, Thomas, Glass, Jain, Northcliffe, Bonner, Simmons. Invited Paper presented at the VII International Conference on the Few Body Problem in Nuclear Interactions, Delhi, India, December 1975, (Published in Few Body Dynamics, ED. Mitra, North Holland 1976, P.303)

A.W. Peterson

- 1) Possible Detection of a Second Planetary Nebula in M15 --to appear in Astronomy and Astrophysics 1977.
- 2) A New Planetary Nebula--to appear in Publications of Astronomical Society of Pacific 1977.

Derek B. Swinson

- 1) Field Dependent Cosmic Ray Streaming at High Rigidities, J. Geophys. Res., 81, 2075, 1976.
- 2) The Influence of Magnetic Fields upon High Energy Cosmic Ray Modulation, Proc. 2nd International Cosmic Ray Symposium in Japan (in press), 1976.

3) Study of Cosmic Ray Modulation Underground in Bolivia and the United States, 25th Anniversary Volume of the Instituto de Investigaciones Físicas de la Universidad Mayor de San Andres, La Paz, Bolivia (in press), 1976.

David M. Wolfe

- 1) "Neutron Spectra at 0° from p-p and p-d Collisions as 647 and 800 MeV Incident Energies," Bjork, Riley, Bonner, Simmons, Williamson, Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Cassapakis, Bryant, Dieterle, Leavitt, Wolfe, Werren. Physics Letters 63B, 31 (1976)
- 2) "Neutron Spectra at 0° from (p,n) Reactions on ^9Be , ^{12}C and ^{27}Al at 647 and 800 MeV," Cassapakis, Bryant, Dieterle, Leavitt, Wolfe, Bonner, Simmons, Bjork, Riley, Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Werren. Physics Letters 63B, 35 (1976).
- 3) "Precision Measurement of n-p Charge-Exchange Cross Section at 647 MeV," Evans, Glass, Hiebert, Jain, Kenefick, Northcliffe, Bonner, Simmons, Bjork, Riley, Bryant, Cassapakis, Dieterle, Leavitt, Wolfe. Physical Review Letters 36, No. 10, 497 (1976)
- 4) "Pion Production in Neutron-Proton Collisions," Wolfe, Cassapakis, Dieterle, Leavitt, Thomas, Glass, Jain, Northcliffe, Bonner, Simmons, Invited Paper presented at the VII International Conference on the Few Body Problem in Nuclear Interactions, Delhi, India, December 1975, (Published in Few Body Dynamics, ed. Mitra, North Holland 1976, p. 303)

Michael Zeilik, II

- 1) Astronomy: The Evolving Universe, New York, Harper & Row, Inc. 1976.
- 2) Student Study Guide to Astronomy, New York, Harper & Row, Inc.
- 3) "Infrared Emission from S15FA and S252A," Astronomy and Astrophysics, 1976, Vol. 46, p. 319.
- 4) "A Far-Infrared Map of the Ophiuchus Dark Cloud Region," Astrophysical Journal (Letters), 1976, Vol. 206, p. 165. Co-authors: G.G. Fazio, E.L. Wright, F.J. Low.
- 5) "Follow-up Study of a PSI Astronomy Course," American Journal of Physics, 1976, Vol. 44, p. 695. Co-author: R.J. Bieniek.
- 6) "Birthplaces of Stars," Astronomy, 1976, Vol. 4, p. 31.
- 7) "The Big Bang and the Birth of Galaxies," Griffith Observer, 1976, Vol. 40, p. 2.
- 8) Review of Branley, F.M., Chartrand, M.R., and Wimmer, H.K., Astronomy, in Journal of College Science Teaching, 1976, Vol. 6, p. 44.
- 9) Review of Clayton, D.D., The Dark Night Sky, in American Journal of Physics, 1976, Vol. 44, p. 1142.
- 10) Review of Motz, L., The Universe: Its Beginning and End, in American Journal of Physics, 1976, Vol. 44, p. 1142.

3. Other research projects or creative work in progress or completed during period.

Harjit S. Ahluwalia

- 1) NASA-GSFC, NGR-32-004-086, \$20,560, A Study of Correlation Between IMF, the Solar Wind, and the Cosmic Ray Intensity During Forbush Decreases, 30 months, 1973-1977.

2) NSF, DES-74-16328, \$20,400, Solar Anisotropies of Cosmic Rays, 18 months, 1974-1977. This grant expired on August 31, 1976.

Seymour S. Alpert

Attended NSF Sponsored Institute on Integrated Circuits at University of Missouri-Kansas City; November, 1976.

Charles L. Beckel

1) NASA, \$7,000; "Theoretical Research on Molecular Ion Spectra," Sept. 15, 1975 to Dec. 31, 1976.

2) NIH - Minority Biomedical Support; \$9,035; "Theoretical Study of Adenine Nucleotides," Sept. 9, 1976 to Sept 8, 1977. (Support for 9-9-75 to 9-8-76 also during 1976 period)

3) AFOSR; \$40,730; "Diatomic Molecule Properties in the Intermediate Energy to Dissociation Limit Range," October 1, 1976 to September 30, 1977.

Howard C. Bryant

"Nucleon-Nuclear Studies" ERDA (With B.D.D., C.P.L. & D.M.W.) E(29-2)-3347 7/73 to 12/76 \$320,228.

"Solar Pond Project" New Mexico State Board of Educational Finance BEF-161 7/75 to 9/76, \$20,897. New Mexico Energy Institute ERB-76-202, 9/76 to 1/77, \$10,000.

Colston Chandler

"N-Body Quantum Scattering Theory in Two Hilbert Spaces I. The Basic Equations" Submitted for publication (with A.G. Gibson)

Byron D. Dieterle

Experiment 129 at LAMPF, π Production; Experiment 193 at LAMPF, np scattering; Experiment 279 at LAMPF, nn scattering; Experiment 124 at LAMPF, Δ^{++} Production: All sponsored by ERDA, \$350,000, for 3 years to present.

Proposal in preparation for "Anti-proton Bound State Search" at Brookhaven National Laboratory, LI., N.Y.

J.D. Finley, III

Support for travel was received from the Centro de IEA del IPN in the amount of \$780 as stipend for a visiting researcher, and a travel grant from the Foment Educacional, A.C., Mexico City for \$576.

John R. Green

Phase transformations of Plastic Organic Crystals

John L. Howarth

Continuing research in psychophysical problems in color vision. Research in radiobiological problems in collaboration with Dr. Robert Anderson, Dept. of Pathology, UNM School of Medicine, sponsored through various NIH grants through School of Medicine.

David S. King

NSF Grant to continue study of pulsating variable stars, lyr. September 1976 - September 1977 (\$11,700). An invited paper entitled "Cepheid Masses from Pulsation Theory" was presented at the XVI General Assembly of the International Astronomical Union held in Grenoble, France August 1976.

Christopher P. Leavitt

ERDA Grant \$450,000 Nucleon Physics Studies at Intermediate Energies July 1, 1973 to November 30, 1977. Experiment 129 at LAMPF π Production, Experiment 193 at LAMPF np Scattering, Experiment 279 at LAMPF nn Scattering, Experiment 124 at LAMPF Δ^{++} Production.

A.W. Peterson

NASA NSG-2052, \$24,080 Analysis of OH airglow data obtained during Space Shuttle Simulation 10/75 to 10/76.
NSF Grant ATM 76-14427, Infrared Airglow Studies 10/76-3/78, \$33,000

Victor H. Regener

NASA, \$24,000 for "Ground-Based Research on X-Ray Sources"; throughout year.
NSF, \$50,300 with D. Swinson, on "Field Dependent Cosmic Ray Anisotropies in Interplanetary Space at High Rigidities," throughout year.

Derek B. Swinson

Received NSF research grant (with Victor H. Regener):
"Field Dependent Cosmic Ray Anisotropies in Interplanetary Space at High Rigidities". \$50,300; June 1, 1976-November 30, 1978.

David M. Wolfe

ERDA grant \$450,000. Nucleon Physics Studies at Intermediate Energies, July 1, 1973 to November 30, 1977.

Michael Zeilik, II

Revision of Astronomy: The Evolving Universe for 2nd edition; development of Astronomy 370 and 371 as PSI courses under NSF grant #12533, \$10,200, until August 1978; infrared and radio observations supported in part by UNM Research Allocations Committee.

6. Activities in learned and professional societies.

Harjit S. Ahluwalia

In addition to participating in the International Meetings listed in #2 above, I also participated in the Sigma Xi Annual Meetings in Albuquerque in April, 1976. Papers were presented

at the International Meetings. They are listed in #4 above. I presided as Chairperson of two sessions at the Second International Cosmic Ray Symposium in Japan on High Energy Cosmic Ray Modulation at Toyko.

Seymour S. Alpert

Secretary, Albuquerque Chapter of Laser Institute of America
Chapter Member, Los Alamos Chapter of Laser Institute of America

Charles L. Beckel

"Excited Vibration-Rotation States of Diatomic Molecules"
Invited paper summarizing present state of knowledge, Conference on the Chemistry and Physics of Plumes, Los Angeles, Calif. Feb. 11, 1976.

"Low Lying Bound Electronic States of H_2^+ ", Invited paper presented at the R.S. Mulliken Seminar, 31st Symposium on Molecular Structure and Spectroscopy, Columbus, Ohio, June 16, 1976.

Howard C. Bryant

12 January 1976 Physics Society Dinner, London
18-20 January "New Physics" meeting Rutherford Laboratory
11 March "New Particles and New Quantum Numbers", Royal Society
6 Carlton House Terrace, London, SW 1Y5AG, England
21-23 July "Joint Institute for Laboratory Astrophysics-Battelle Workshop on Highly Excited States," University of Colorado, Boulder Colorado 80309.

Byron D. Dieterle

LAMPF users Meeting, November 1976

J.D. Finley, III

Attendance at the Eighth Texas Symposium on Relativistic Astrophysics, Boston, Mass., December 12-17, 1976.

John L. Howarth

Attended annual meeting of National Collegiate Honors Council, Fayetteville, Arkansas
Moderated workshop on "Honors Programs as Agents of Social Change"

David S. King

Secretary of Sigma Xi through May 1976, Vice President of Sigma Xi June 1976 to present.

A.W. Peterson

Resurvey of Globular Clusters at H- α with an Image Intensified, Prefiltered, Slitless Spectrograph - to be presented at American Astronomy Society meeting in Honolulu, HI. January 1977.

Derek S. Swinson

Attended 2nd International Cosmic Ray Symposium in Japan, Tokyo, August 1976.

Presented Paper "The Influence of Magnetic Fields Upon High Energy Cosmic Ray Modulation"

Michael Zeilik, II

"PSI Astronomy in the U.S.", paper presented at Astronomical Society of the Pacific Meeting, May 1976; "Infrared Emission from Compact HII Regions." paper presented at American Astronomical Society Meeting, June 1976.

"Infrared Emission From HII Regions and Molecular Clouds", talk presented at Astronomy Department, New Mexico State University, September. 1976.

"Star Formation", talk presented to Astronomy Department University of California, Berkeley, November 1976.

7. Other professional activities.

Harjit S. Ahluwalia

Gave Slide Shows type talks on, "BOLIVIA: The Country, The People, and their Culture," to (a) St. Timothy's Neighbors, a church group, in May 1976, and to (b) the Faculty Spanish Class in December 1976.

Referee for (a) Journal of Geophysical Research (Space Physics) and for (b) Research Proposals submitted to Solar-Terrestrial Physics section of the National Science Foundation.

Seymour S. Alpert

Consultant - Los Alamos Scientific Laboratory

Charles L. Beckel

Member, Navajo Science Committee - Education Subcommittee
Consultant, Dikewood Corporation

Howard C. Bryant

Colloquium talk, Department of Physics and Astronomy UNM
"Observations of Two Resonances in the Photo detachment Cross-section of H⁻ near 11 Electron Volts" Dec. 3, 1976.

Colston Chandler

One research proposal reviewed for NSF,
one paper refereed for J. Math Physics.

Bryon D. Dieterle

Colloquium "Elastic and Inelastic Scattering at Intermediate Energies" with D. Wolfe at UNM Physics Department

John L. Howarth

Consultant to Veterans Administration Hospital, Albuquerque,
and to a number of hospitals, radiologists and dermatologists
in New Mexico.

Consulting Editor, International Journal of Hypercritical
Obfuscation.

Editor, Archives of Information Pollution

David S. King

Taught course in Community College during Spring Semester of
1976.

Consultant to Los Alamos Scientific Laboratory.

Derek B. Swinson

Presented Program of Irish Music on KNME-TV, March 1976

Presented Music in UNM Faculty/Staff show at Rodey Theater,
April 1976.

Presented Music Program for UNM Dorm Residents Fall 1976.

Consulted with several local attorneys on accident recon-
struction and on skiing accidents.

Michael Zeilik, II

Referee for American Journal of Physics and Astrophysical
Journal; "Star Formation," talk to Albuquerque Astronomers,
March 1976.

"Careers in Astronomy," talk to McKinley Jr. High School,
Albuquerque, April 1976.

Debate on Astrology, KZIA, Nov. 1976.

Chairperson, NSF LOCI evaluation panel.

Provided assistance for the UNM State Fair exhibit, Sept. 1976.

Assisted KGGM in show on the VLA.

Answered telephone calls about astronomy for the general public.

On the editorial board for the Journal of Personalized
Instruction.

Poem "Land of Long Shadows" published in Sandscript, 1976.

8. Non-teaching University service.Harjit S. Ahluwalia

Member of UNM Standing Committee on Research Policy and it's
Sub-Committee on Research Foundation

Member of UNM Science Colloquium Committee

Member UNM Sandia-Colloquium Committee

In-charge of Departmental Weekly Colloquia

Seymour S. Alpert

Member of Advisory Board -- New Mexico Energy Institute.

Charles L. Beckel

Chairman, Research Policy Committee (January - June 1976)

Member Energy Research Center Advisory Committee (Jan-June 1976)
Member, Executive Committee, Biomedical Sciences Advancement
(MBS) Program.
Member Interim Committee on LASL-UNM Cooperation (July 1976-)

Howard C. Bryant

Acting-Chairman during VHR's Vacation (Chr. of three graduate
students, committees and a member of three others)

Colston Chandler

Member of the University Graduate Committee from January
through May 1976.

Byron D. Dieterle

Critic for Radiation Control Committee at UNM --- Critic
for Environmental Improvement Agency of New Mexico ---
Critic for Nuclear Regulatory Commission of U.S.A.

J.D. Finley, III

Chairman, University Faculty Library Committee
Chairman, Departmental Graduate Committee
Faculty Advisor for Undergraduate Majors

John R. Green

Committee on Academic Freedom and Tenure,
Budget Review Subcommittee,
Insurance and Retirement (Spring Semester),
Faculty Senate,
Senate Executive Committee,
Chairman Faculty Welfare Committee

John L. Howarth

Director General Honors Program & Undergraduate Seminar Program
Member Faculty Senate
Member Faculty Senate Committee and Academic Affairs
Chairperson General Honors Council
Member, University Community Forum
Physics and Astronomy Department Undergraduate Committee.

David S. King

Served on Department Graduate and Undergraduate Committees
Advisor for Astrophysics majors
In charge of Campus Observatory Public night.

Christopher P. Leavitt

Computer use Committee Departmental Graduate Committee
Arts and Sciences & Math Promotion Committee
Advisor & Liaison for Los Alamos Physics Graduate Students

Victor H. Regener

Member, Senate Executive Committee
 Chairperson, Senate Committee on Research, etc.
 Chairperson, Department of Physics and Astronomy

Derek B. Swinson

Chairman of Physics Department Committee for Lower Division
 Laboratories.
 Writing material for 1977 UNM Faculty/Staff show.

David M. Wolfe

Chairman, Department Undergraduate Committee Member,
 Department Graduate Committee

Michael Zeilik, II

UNM Faculty Senator

9. Public ServiceHarjit S. Ahluwalia

Served as a Judge and Chairman of Senior Section on Physics
 at 24th New Mexico Science & Engineering Fair at Socorro,
 New Mexico.

Seymour S. Alpert

Public Lecture: Camping in the Soviet Union; Parents without
 Partners Albuquerque, New Mexico; October 1976.

Charles L. Beckel

Kidney Foundation of New Mexico, Inc.; Member Executive
 Committee; Chairman Research Committee; Delegate Trustee
 (Nov. 1976 -)
 Slide show on Afghanistan, Four Seasons Nursing Home,
 Albuquerque, October 7, 1976.

Howard C. Bryant

Gave two talks for classes at Zia Elementary School:
 "Solar Energy for 3rd Graders" Mrs. Fox (3 Sept. 1976)
 Color Mixing for 5th graders (Mrs Russell, 24 Sept. 1976)

J.D. Finley, III

President, New Mexico Cactus and Succulent Society.

Christopher P. Leavitt

Appointed Member of Developmental Disabilities Planning and
 Advisory Council (for the State of New Mexico)

A.W. Peterson

Answer numerous questions for Action Line in Albuquerque Newspapers and for T.V. and other callers.

Derek B. Swinson

Teach music programs at Monte Vista and Lowell Elementary Schools.
Taught music program at Eugene Field Elementary School Spring '76.

10. Personal Information

Seymour S. Alpert

Divorced, May 1976.

Christopher Dean

Sick leave, second half of Semester I. Due to illness of Professor Dean, this form is submitted for record keeping only.

John L. Howarth

Divorced, September 1976.

Derek B. Swinson

Divorced, April 1976.

THE REPORT OF THE DEPARTMENT OF POLITICAL SCIENCE

July 1, 1976 - June 30, 1977

Robert J. Sickels, Chairman

The department has enjoyed a year of equilibrium, with fairly steady student enrollments. Two new faculty members have been hired for the coming year to replace those who are leaving. The members of the department have been productive in research and writing and have continued to pay attention to the improvement of undergraduate instruction.

I. General Departmental Information:

A. Significant Achievements: The departmental honors program has been reinstituted after many years. Honors students are required, among other things, to participate in a junior honors seminar and to write a senior thesis.

A special section of our introductory course, The Political World, renumbered from 100 to 110 during the year, was offered for Presidential Scholars and a few other exceptionally promising students.

In its hiring for next year, the department was fortunate to be able to double its number of minority and women faculty, in each case from one to two. The department has a continuing commitment to the principle of equal employment opportunity.

A course on Native American politics is being offered in the summer of 1977 for the first time within the department. Also in keeping with the department's interest in state and regional affairs, Professors Garcia and Hain organized the writing of a book on New Mexico government, to which they, other members of the department, and members of other

departments contributed. The book, a project of the New Mexico Bicentennial Commission, funded in part by the greater UNM Fund, was published by the UNM press, is being used by four colleges and universities in the state, and has been approved by the State Board of Education for use in high schools.

B. Significant Plans: Three members of the department, Professors Corsi, Hurley and Stumpf, participated in the development of a major research proposal for NSF-RANN on Teleconferencing in Goldberg v. Kelly Administrative Hearings, which at the time of this writing seemed likely to be funded.

An active departmental undergraduate committee to be enhanced next year by the inclusion of Fred Harris began work on a departmental program of remedial and supplementary instruction for less privileged freshmen and sophomores, to be instituted in the spring of 1978.

Professor Hurley worked with members of other departments in the social sciences on the design of an interdisciplinary course entitled Social Inequalities.

C. Appointments: Fred R. Harris, Visiting Professor, August 1976, reappointed as Professor as of August 1977; Jerome R. Corsi, Visiting Associate Professor, August 1976, and Robert A. Seward, Assistant Professor, January 1977.

D. Separations: Michael P. Gehlen, Professor, June 1977; Jerome R. Corsi, Visiting Associate Professor, June 1977; and John R. Ehrenberg, Assistant Professor, June 1977.

II. Biographical Composite:

1. Advanced study, etc.: None.

2. Sabbaticals, etc.: Jay B. Sorenson, on sabbatical leave from August 1976 to June 1977.

II. Biographical Composite (continued):

3. New scholastic honors, etc.: None.

4. Publications:

(a) Books:

F. Chris Garcia and Paul L. Hain (eds.), New Mexico Government, University of New Mexico Press, 1976.

Martin C. Needler, An Introduction to Latin American Politics, Prentice-Hall, 1976.

Karen L. Remmer and Gilbert W. Merks (eds.), New Perspectives on Latin America, MSS Information Corps., 1976.

(b) Articles, chapters, and reviews:

F. Chris Garcia, "New Mexico: The Setting," in New Mexico Government, pp. 1-14, and with Stanley Pogrow, "The Governnance of Public Education," ibid., pp. 169-200.

Paul L. Hain, "The Legislature," in New Mexico Government, pp. 27-53, and "Voters, Elections, and Political Parties," ibid., pp. 201-18.

_____, "How Election Returns Reach You," National Observer, November 6, 1976, p. 24.

_____, "Constituency Characteristics, Political Ambition and Advancement," American Politics Quarterly, January 1976, pp. 47-62.

Edwin C. Hoyt, "Environmental Politics," in New Mexico Government, pp. 244-62.

Peter A. Lupsha, "New Federalism: Centralization and Local Control in Perspective," in The New Urban Politics, Louis H. Masotti and Robert L. Lineberry, eds., Ballinger Publishing Company, 1976.

Martin C. Needler, "Problems in the Evaluation of the Mexican Political System," in J. and E. Wilkie, eds., Contemporary Mexico, Campus Publishers, 1976

_____, "Historical Background," in Area Handbook for Cuba, Government Printing Office, 1976.

_____, "The Influence of U.S. Institutions in Latin America," Annals, November, 1976.

(b) Articles, chapters, and reviews (continued):

_____, "Omar Torrijos: The Panamanian Enigma," Intellect, November, 1976.

_____, Review of S. K. Purcell, The Mexican Profit-Sharing Decision, in Journal of Developing Areas, July, 1976.

_____, "Daniel Cosío Villegas and the Interpretation of Mexico's Political System," Journal of Inter-American Studies, May 1976.

_____, "El Cambio Político," Nueva Política, April-June, 1976.

_____, "The American Revolution and the Caribbean," Review/Revista Interamericana, April-May 1976.

James L. Ray, with J. David Singer, "The Perfect Time for Political Research," in Mathematical Political Analysis, Karl W. Deutsch and Rudolf Wildemann, eds., Gunter Olzog Verlag, 1976, pp. 427-439.

Karen L. Remmer, "Economic Dependency and Political Conflict: Chile and Argentina, 1900-1925," Studies in Comparative International Development, Summer 1976, pp. 3-24.

_____, "Chile and the 'Peaceful' Road to Socialism," in New Perspectives on Latin America.

_____, Review of Joel S. Migdal, Peasants, Politics, and Revolution, in Western Political Quarterly, March 1976, pp. 159-60.

Harold V. Rhodes, "Appointive Agencies," in Government of New Mexico, pp. 89-127.

Robert J. Sickels, Review of Sidney R. Waldman, Foundations of Political Action: An Exchange Theory of Politics, in American Political Science Review, September 1976.

_____, Review of Hans L. Trefousse, Impeachment of a President, in Annals, March 1976, p. 183.

_____, "The Plural Executive," in Government of New Mexico, pp. 15-26.

Jay B. Sorenson, "The Pitfalls of SALT I and the Need for Strategic Stability," Congressional Record, January 23, 1976.

5. Research Projects:

F. Chris Garcia: completion of book manuscript on the Chicano Political Experience: study of environmental attitudes of N. M. state legislators, OWRT sponsored, \$3,732, July 1, 1976.

Paul L. Hain: Engaged in a study of political careers and risk taking.

Thomas L. Hurley: "Presidential Voting Change in the South," with E. Declercq and Norman Luttbeg; "Responsiveness of Federal and State Governments to Urban Problems," with T. R. Dye; "Specification Problems in Policy Research"; NSF grant applicant.

Peter A. Lupsha: University of New Mexico Research Allocations Committee Research Grant for \$795.00 to study "Network Analysis - Legislative Stewardship and Energy Resource Management." This is an examination of legislative norms and folkways in the N.M. State Legislature 10-76 to 6-15-77.

James Lee Ray: Global Politics, an introductory text in International Relations, contracted by Houghton Mifflin; "Dependency Versus Diffusion in Latin America," a paper presented at the annual convention of the International Studies Association in March, 1977.

Karen L. Remmer: "Party Competition and Public Policy: Chile and Argentina, 1890-1930," (in progress).

Robert J. Sickels: New book on the presidency begun.

J. B. Sorenson: Co-author, Rand Greenfield: "New Mexican Nationalism and the Evolution of Energy Policy in New Mexico," completed January 1977; New Mexico Wilderness Commission: "The Chama Canyon-Energy and Environmental Trade-offs,"; Legislation: El Rio Chama Scenic and Pastoral Act, 33rd Session, N. M. Legislature: co-investigation with G. Boyle: "An Optimum Taxation of Natural Resources by the State of New Mexico," 1976; Principal Investigator: "Coal, the Rocky Mountain States and Project Independence," Regional Energy Program. Los Alamos Laboratories, University of California, 1976.

Harry P. Stumpf: NSF grant applicant.

6. Activities in Learned and Professional Societies:

F. Chris Garcia: Professional papers: "Chicano Political Learning and Public Choice: Prospects for Political and Cultural Democracy," annual meeting of the American Political

6. Activities in Learned and Professional Societies (continued):

Science Association, Chicago, Sept., 1976; elected vice-president (president-elect) and 1977 program chairman of the Western Political Science Association, San Francisco, April 1976; panel discussant, "Chicanos and Politics in the Southwest," Western Social Science Association Convention, Tempe, Arizona, April 1976; panel discussant, "Perspectives on Minority Politics: The Impact of Public Policy Change," Western Political Science Association Convention, San Francisco, April 1976; reappointed to the Pre-collegiate Education Committee of the American Political Science Association.

Thomas L. Hurley: "The Role of Universities Regarding Energy Resources and Management, panel participant at The Western Social Sciences Association Meeting; attended Southern Political Science Association annual meeting in Atlanta, November 1976.

Peter A. Lupsha: appointed Associate Editor, Western Political Science Quarterly, journal of the Western Political Science Association; attended Western Political Association meetings in San Francisco, April 1-3, 1976.

Martin C. Needler: Attendance at Caribbean Studies Association meeting, St. Lucia, January (panel chairman); International Studies Association, Toronto, February (panelist); Canadian Latin American Studies Association, Quebec, May (U.S. representative); Latin American Studies Association, Atlanta (guest of honor); International Political Science Association, Glasgow, August; Pacific Coast Council on Latin American Studies, October.

James Lee Ray: "Capability Disparities in Latin America and Eastern Europe," presented to the 1976 Congress of the International Political Science Association at Edinburgh, Scotland, August 1976.

Robert J. Sickels: Chaired a panel on the Presidency at the annual convention of the Western Social Science Association in Tempe, May 1, 1976.

Jay B. Sorenson: Attended Institute of Nuclear Materials Management, Seattle, Washington, June 22-24, 1976; Thorne Ecological Institute Workshop on Ecology and Economy, May 3-5, 1976, Albuquerque; Land-use Symposium, Albuquerque, Dec. 2-5, 1976.

Harry P. Stumpf: Continuing Trustee, Law and Society Association; attended meeting jointly with the American Political Science Association meeting, Chicago, September, 1976.

7. Other Professional Activities:

F. Chris Garcia: Consultant, Voting Rights Act Project, directed by Alan Hudson, UNM Linguistics Department; Election Analyst, KOAT-TV news; N.M. State Supervisor for NBC News Elections; participant in the "NM Issues Forum" sponsored by KIPC-FM public radio through a grant by NM Humanities Council, October 19, 1976; talk to the Junior League of Albuquerque on public opinion survey research, October 12, 1976; addressed the New Mexico Council for the Social Studies, September 18, 1976.

Paul L. Hain: Reviewed articles submitted for publication to various professional journals and recommended rejection, revision, or publication.

Thomas L. Hurley: Consultant: Housing and Urban Development Administration, Washington, D.C.; election consultant to KOAT-TV.

Peter A. Lupsha: Consultant and speaker, City of Tucumcari, N.M., on Tactical and Strategic Planning Strategies for Public Policy after the By-pass of the city by I-40, under sponsorship of the New Mexico Humanities Council.

Martin C. Needler: Invited participant, State Department/ American University Conference on Mexico, March, Washington: consultant, National Endowment for the Humanities Public Television project, Miami, September; consultant, Shell Oil Co., September; lecture, University of Arizona, Tucson, October; lecture, George Mason University, Fairfax, Virginia, March; member, Subcommittee on Code of Ethics, Latin American Studies Association, etc.

Karen L. Remmer: Latin American Program Chairperson, Western Social Science Association meetings of April, 1977.

Jay B. Sorenson: Consultant: Office of Environmental Policy Analysis, Sandia Laboratories; member, Governor's Sub-Cabinet -- Natural Resources; Governor's Conference on Nuclear Energy, April 27, 1976; proposal draftsman of policy analysis, Solar Research Institute.

Harry P. Stumpf: Chairman, Conference on Delivery of Legal Services, Hilton Hotel, October, 1976; traveled to Washington, D.C., November 1976 in search of research monies.

8. Non-Teaching University Service:

F. Chris Garcia: Associate Dean, College of Arts and Sciences; Faculty Senate; Committee on Undergraduate Academic Affairs, UNM Faculty Senate; Admissions and Registration

8. Non-Teaching University Service (continued):

Committee; Advisory Board, Special Services for Disadvantaged Students; Faculty sponsor, UNM Rugby Club; Faculty Research Advisory Committee, Division of Government Research, Institute for Applied Research Service; Committee on LASL-UNM Cooperation.

Paul L. Hain: Faculty advisor to numerous undergraduate Political Science majors. Member, Political Science Department Executive Committee.

Thomas L. Hurley: Member of Social Sciences Bibliographer Search Committee for Library; Political Science Executive Committee.

Edwin C. Hoyt: Chairman, Department Graduate Committee; Department Executive Committee.

Peter A. Lupsha: Member, Policy Planning Committee for the Division of Public Administration, UNM; Chairman - then member - ISRAD-IARS Faculty Advisory Committee, UNM; Faculty Advisor, Jewish Student Union; Member of the JFPG (Jewish Faculty Planning Group).

Martin C. Needler: Acting Chairman, Political Science Summer Session, 1976; member, President's Task Force on Latin American Programs; received additional appointment as Professor of Sociology.

James Lee Ray: Undergraduate Affairs Committee, Political Science Department; Library Faculty Committee.

Karen L. Remmer: Faculty advisor, Student Organization for Latin American Studies (SOLAS); Faculty Senate; Senate Graduate Committee; Assistant Director, Division of Inter-American Affairs; departmental recruitment and curriculum committees.

Robert J. Sickels: Alternate member of Academic Freedom and Tenure Committee to June, 1976; Chairperson of Political Science Department from August, 1976.

Harry P. Stumpf: Chairman, Promotion Advisory Committee, College of Arts and Sciences; member, Tenure Advisory Committee, College of Arts and Sciences.

9. Public Service:

Paul L. Hain: Parent Teachers Association.

Edwin C. Hoyt: Chairman, The Nature Conservancy, New Mexico Operating Committee.

9. Public Service (continued):

Peter A. Lupsha: Consultant, Albuquerque Urban Observatory, UNM, issued Downtown Survey Report to City of Albuquerque Planning Department, January, 1976.

Jay B. Sorenson: Chairperson, Albuquerque Committee on Foreign Relations, 1976-77; vice-chairperson New Mexico Wilderness Commission; member, Board of Directors, New Mexico Wilderness Study Committee, 1976 - ; member, Open Spaces Task Force, City of Albuquerque; lecture: "The Golden Eagle and the Chama Canyon," Sandia High School, November 8, 1976.

The Report of the Department of Psychology
July 1, 1976 - June 30, 1977
Henry C. Ellis, Chairman

Introduction and Summary. This was a productive and successful year for the department of psychology. We continued our hiring of new faculty with the major objectives of broadening our range of offerings, strengthening our clinical faculty, reducing our dependence on part-time faculty, and reducing the size of lower division courses. After many years a small reduction in our student-faculty ratio was evidenced for 1976-77. An extensive review of our undergraduate and graduate programs was conducted. No major changes were proposed in our undergraduate program and the faculty reaffirmed its emphasis on an integrated graduate program, with a core focus on the experimental psychology of learning. The department continues with the four basic areas of clinical, developmental, learning, and psychobiology. We were pleased with NIMH and APA support for our graduate program; we were awarded substantive grants and student stipends for graduate training. We are hopeful that computer facilities might be supported from the new bond issue. Recruitment of minority and female graduate students continued to receive attention. Finally, the department continued its effective advisement of students.

I. General Department Information

A. Undergraduate Education. At the undergraduate level, the department handled a total enrollment of 4,025 students in introductory lectures (of whom 1,046 participated in the optional additional laboratory hour), and 3,797 in advanced courses (of whom 110 participated in the advanced laboratory courses). The graduating classes of 1976-77 included 84 Psychology majors and 48 Psychology minors. Departmental honors were awarded to: Jeffrey A. Barnes, Chris Chavez, Judith Crites, Thomas Dauphinee, Debra J. Feldman, Jocelyn Franco, Roy Joy, Merion Morrison,

Victor Rodriguez, David Sanders, Monica Schlick, and Jerry Thompson.

Based on our available budgeted FTE of 20.87, the above figures represent approximately a 37:5 student/faculty ratio. Based on our functional staff of 19.87 for the year, the ratio would be approximately 39.4.

The department offered, for the first time, an honors section of Introductory Psychology (101), and we plan to offer an honors section in Psychology 102 in 1978. The addition of two new faculty in 1977-78 will enable us to continue to reduce our dependence on part-time faculty. We conducted a major review of our undergraduate curriculum with the committee recommending that several new courses be offered as soon as we can staff them. No substantive changes were made in the undergraduate program, but it is under steady review in relation to educational needs, the personnel available, and student interests. The program is sound and well-designed, and the major problem is offering sufficient sections of the most popular courses to accommodate the demand. The staffing of sufficient sections of Psychology 101 continues to be a problem and implies that the next faculty member hired might be someone in the learning-motivation area who could teach this course among others.

B. Graduate Education. At the exclusively graduate level, the department handled a total enrollment of 362 distributed among 56 registered students. These figures represent a continuation of our policy of restricting graduate enrollment to about a 3:1 student/faculty ratio.

The Master's Degree was conferred upon 10 candidates: Brian Babbitt, Susan Cave, Charlene Edwards, Stephen Hayward, Tom Jones, Terry Makowski, Ricardo Martinez, Robert Nullmeyer, Gale Sutton, and Craig Walker.

The Doctoral Degree was conferred upon 9 candidates:

July 30, 1976

Bruce, Philip Dan
Adviser: Douglas P. Ferraro

Response-reinforcer and stimulus-reinforcer
variables in the elimination of
behavior

Marriott, Richard G.
Adviser: Douglas P. Ferraro

Effects of selective pretraining on the acquisition of matching-to-sample behavior in pigeons

Sahd, Doris C.
Adviser: Sidney Rosenblum

The functional significance of imagery in the learning and memory of the educable mentally retarded

December 18, 1976

Goodkind, Robert
Adviser: Samuel Roll

Some relationships between humor preferences and trait anxiety

Gullotta, Frank P.
Adviser: Dennis M. Feeney

Effects of experimental epilepsy on the sexual behavior of cats

O'Malley, Flynn
Adviser: Karl P. Koenig

Variations of sexual stimuli and subject personality variables in immediate and delayed paired-associate learning

May 15, 1977

Jacobson, John Russell
Adviser: Samuel Roll

The effects of postural position and interpersonal orientation on primary process manifestations

MacLean, Catherine A.
Adviser: John M. Rhodes

Event correlated cortical responses of signal recognition in methylphenidate responsive children with MBD

Shore, Howard Gordon
Adviser: Sidney Rosenblum

Cognitive processes in observational learning

A longstanding problem for our graduate program has been insufficient financial aid for our graduate students. Our budgeted support for 1977-78 remains at the 1972-73 level of support. For the past two years we have received a 25% increase in TA support but these increases were temporary. While these increases were appreciated the department should have a permanent increase of four additional TAs as soon as funding is available.

There is also the characteristic delay in obtaining information about support, a local as well as a national problem. Each year we lose top students because we cannot make definitive offers of support in sufficient time to compete with other institutions. In addition, we were unable to attract many of our most qualified and interested applicants

because of lack of financial support. Nevertheless, we were able to provide some support for most of our students, with 16 as teaching assistants, 6 as research assistants, 7 as NIMH trainees, and 1 with a tuition scholarship. Another 7 students were supported in the context of local clinical facilities.

The most exciting and pleasing development was the awarding of two grants for the support of graduate training by NIMH and the awarding of minority fellowships from the American Psychological Association. The department was awarded its first NIMH Training Grant in Clinical Psychology (Director, Sidney Rosenblum) for three years, supporting of 6 graduate students each year. In addition, the department was awarded an NIMH Research Service Award in General Experimental Psychology (Director, Henry Ellis) for five years, supporting eight graduate students each year. The department had received support from NIMH for training in Experimental Psychology for the past ten years under the direction of Frank Logan, so this new grant attests to our continued excellence. NIMH officials have reported that only six new grants in each area were awarded this year, which further reinforces our portrait of nationwide excellence. Finally, the department received awards supporting four graduate students on the Minority Fellowship Program of the American Psychological Association. In fact, APA offered the department five such awards as a "package arrangement," but one student declined our offer in lieu of attending graduate school elsewhere. These awards include a \$3,000 stipend for each student up to a maximum of three years, with UNM's contribution being tuition and fees. This unprecedented award is largely in response to our minority recruitment program initiated two years ago.

Recruitment of quality minority status and female graduate students continued. As a faculty we continue our resolve to maintain a high

quality program with a reputation for excellence.

The addition of Prof. Padilla to the clinical area brings the clinical effort to full strength, staffwise, and will broaden our training and research efforts in clinical psychology. The addition of Prof. Goetz to the social psychology area will similarly aid us in providing greater breadth in social psychology, personality, and individual differences.

C. Staff. The voting faculty of the department numbered 24 during the 1976-77 academic year, composed of Professors Benedetti, Ellis, Ferraro, Grice, Johnson, Koenig, Logan, Norman, Rhodes, Rosenblum, and Ruebush; Associate Professors Feeney, Friden, Gluck, Harris, and Roll (on leave); and Assistant Professors Blake, Conrad, Delaney, Harnick, Hodge, Katz, Miller, and Parsons. Of these, Benedetti served as Associate Dean of the Graduate School, Norman served as Associate Dean of the College of Arts and Sciences, and Koenig's and Ruebush's primary commitment remained with the Department of Psychiatry. Our budgeted FTE faculty was 20.87 and, recognizing leaves, the functional FTE faculty was 19.87.

Jean Rogers served as a part-time faculty member.

Affiliated faculty during the year were: Professor Lester Libo, Associate Professor Mary Harris, and Assistant Professors Philip Day, Robert Duncan, Donald Flammer, Rene Silleroy, Bret Snyder, and Louis Wynne; as well as Adjunct Associate Professors Alfred Bruner, Bruce Porch, and Joseph Schenkel, and Adjunct Assistant Professor Kathleen Haaland.

Both new appointments to the faculty were at the Assistant Professor level: Eligio Padilla, Ph.D., University of Washington, 1974 (Dr. Padilla was on the faculty at UCLA from 1974-77, and was actually hired in 1976); Therese Goetz, ABD, University of Illinois. Prof. Goetz anticipates completing her work this fall. Both appointments are term contracts.

We conducted a major review of our graduate program. The department reaffirmed its commitment to an integrated program in which psychology is viewed as fundamentally an experimental discipline. In addition, the department reaffirmed its emphasis on the experimental psychology of learning as part of the core training of all our graduate students. The graduate curriculum committee becomes a regular standing committee as of 1977-78.

D. Colloquia. Distinguished speakers in our colloquium series during the year included: Theodore X. Barber (Medfield Foundation, Medfield, Mass.), Michael J. Diamond (Former Director, Hypnosis Lab, University of Hawaii), William W. Finley (Children's Medical Center, Tulsa), Leonard D. Goodstein (Arizona State University), Charles P. Shimp (University of Utah).

In addition Therese Goetz was interviewed for the position in social psychology. Overall, this important adjunct to our regular programs was invaluable in adding breadth of exposure. What is needed most in this context is to involve more of our local people, particularly affiliated faculty, in this program.

E. Research. The department continued to be productive in its research efforts. We published 34 major articles or monographs, gave 86 lectures, workshops, or reports, and garnered \$138,000 in extramural support. The department is engaged in a wide range of research activities which can be only briefly noted here.

Research in human learning, memory, and cognition includes work on visual and verbal elaboration of verbal materials in the context of a Markov model of learning. In addition, studies of coding and organization in memory, and constructive processes in memory are being conducted. Studies of semantic memory and the role of context in sentence memory concern general problems in psycholinguistics. At the level of conceptual

behavior we are doing research into the way humans learn rules and apply them. At another level we are carrying on studies of simple and choice reaction time, and in perception we are developing a model of color vision with the objective of describing the "space" of color in terms of Euclidean principles. Extensive research in animal learning and behavior, psychopharmacology, and physiological psychology was conducted. Studies of the effects of hormones on brain functioning and eating and drinking behaviors were conducted. Studies of animal discrimination learning, aversive control, and dominance in animals were continued as part of long-term research programs. There is ongoing research on the effects of drugs on behavior, including long-term effects of drugs on complex processes. Studies of the effects of early experience on subsequent adult behavior are being conducted with a focus toward identifying procedures which might reduce the traumatic effects of early deprivation. In addition, drug studies with epileptics were continued with an emphasis on identifying drugs which might suppress the cortical activity associated with epilepsy. Similarly, we were involved in studies of flashed evoked potentials as they related to migraine headache, and in studies of sleep.

Other studies focused on developmental, educational, clinical, and social psychology. Research on the behavioral treatment of problem drinkers and alcoholism was initiated, including a clinical facility to deal with the problems of those who drink excessively. Another new area is research into hypnotic effects and various instructional procedures affecting hypnotic behavior. A new project in the treatment of depression was initiated. A project on infant imitation and play was continued this year. Applied research in child development focused on individual instructional procedures and self-control in pre-school children. Our faculty studies the role of dreams, the motives of sex molesters,

adolescent suicide, and the importance of humor in normal behavior. We have long been involved in evaluating the effectiveness of behavior therapy using conditioning procedures. Studies of sex roles and sex differences in age concealment are being conducted. We also are involved in studies of learning disabilities of a wide variety with some emphasis on emotionally-based reading disabilities. We continue to work on grading practices and teacher evaluation. Studies in experimental social psychology continue with an emphasis on quantitative models in social psychology.

While this is not a complete account of all the research activities of the department, it is illustrative of the wide range of research interests and activities of this faculty. The richness and diversity of our activities should be apparent and we hope for greater support of these activities in the future.

F. Service. Our service activities continued at a very high level. These included the North Central Association, the Rocky Mountain Psychological Association, the Southwestern Psychological Association, the American Psychological Association, the Society of Experimental Psychologists and the American Association for the Advancement of Science, Agora, the Psychiatric Intern Program, Programs for Children, Esperanza School, Child Guidance Center, Manzanita Center, Counseling Center, Computer Center, Animal Control Facility, New Mexico Public Defender's Office, religious organizations, athletic organizations, publishers, cultural organizations, Sandia Base, the New Mexico Science Fair, the New Mexico Psychological Association, the New Mexico Board of Psychologist Examiners, Department of Vocational Rehabilitation, the Veterans Administration, hospitals at Las Vegas and Los Lunas, and the State Penitentiary. All of our faculty were involved in one or more of these functions. In sum, we continue to be highly visible at all levels of service functions.

G. Space. We continued to have adequate housing for personnel, research, and animal facilities. With the addition of new faculty we will use virtually all of the available office space. Facilities for human research will become crowded in 1977-78, especially for the new faculty, but we will tighten our belts in our effort to accommodate new space needs.

H. Administration and Support. Henry Ellis served as chairman and John Gluck as assistant chairman during the year. All faculty participated in the administration of the department by serving on various departmental committees. I wish to express my appreciation to John Gluck for his able assistance and to the faculty in general for its cooperation and support.

Eleanor Orth continued to serve in her very effective capacity as Office Manager. I wish to express my continued appreciation to her for helping make my administration effective. Her humor combined with her tireless efficiency made my task reasonable. LaNelle Ruebush continued to serve the department effectively as Department Secretary. Other secretaries serving the department during the year were Joan Block, Martha Foster, Mandi Mehrens, Jill Ngola, and Carlota Romero. Ector Estrada continued to supervise the animal facilities and Ted Wright was added as a full time animal technician. Jerry Bemis resigned as shop supervisor in order to go into private business. In addition, during portions of the year, various students served as part-time clerical or lab assistants.

I. Summary. This was a very successful year for the Department of Psychology. We were able to achieve many of our high-priority objectives, and began preliminary work on others. We hired two new faculty, one in clinical psychology which brings this program to its planned level of

strength. In addition we hired a person in social psychology which will help to fill gaps in this area. Our expansion has been accomplished while still maintaining the focus of a strong research-oriented department which has achieved national prominence. The recruiting of minority and female graduate students was continued. The superb program of effective counseling of students, under the supervision of Mrs. Eleanor Orth, continued. The strong departmental honors program was maintained, and our faculty has become more involved in undergraduate student recruitment, and in professional-community affairs. We must continue to upgrade the level of financial support, both salary and otherwise, to be consistent with the high quality of our program. Extramural support of graduate training from NIMH and APA was received with great pleasure, especially in these financially tight times.

	70-71	71-72	72-73	73-74	74-75	75-76	76-77
<u>Faculty Information</u>							
Voting faculty (total)	17	18	20	20	19	20	24
Professors	7	7	7	8	8	11	11
Associate Professors	5	5	6	6	6	5	5
Assistant Professors	5	6	7	6	5	4	8
Budgeted FTE faculty	14	16.3	18.3	18.3	17.8	19.1	20.87
FTE faculty minus leaves	14	14	16.3	16.3	15.8	18.6	19.87
Faculty turnover (total)	1	0	0	2	1	0	0
Resignations	0	0	0	2	1	0	0
Tenure denials	1	0	0	0	0	0	0
Deaths and Retirements	0	0	0	0	0	0	0
Number of faculty engaged in							
Lower division teaching			11	11	11	11	10
Upper division teaching			14	16	16	18	20
Graduate teaching			16	19	14	19	17
Thesis/dissertation supervision			9	12	14	13	15
<u>Undergraduate Education</u>							
Introductory enrollment	3565	3580	3728	3318	3577	3745	4025
Optional laboratories	1648	1883	1844	1401	1537	1327	1046
Advanced enrollment	3324	4019	4749	4902	4424	4059 ^a	3797
Optional laboratories	209	151	159	159	158	163	110
Graduating Majors	70	64	99	107	133	108	84
Graduating Minors	50	31	63	44	71	78	48
<u>Graduate Education</u>							
Graduate enrollment	300	413	459	432	372	362	362
Graduate assistants (budgeted)	11	11	12	13	14	12	12
Graduate assistants (authorized)	13	14	14	13	14	13	16
Research assistants	12	13	14	15	13	12	6
Research and Trainees	14	12	11	8	8	9	7
Fellows and Scholarships			4	5	4	2	1
Tuition Scholarships			7	4	9	7	10
Master's Degrees	3	9	7	5	9	7	9
Doctoral Degrees	8	6	5	13	4	7	9
Applications received			250	154	195	250	350
Offered Admission			36	33	27	55	40
Accepted Admission			20	19	6	13	13
Graduate Students			56	66	56	60	56
<u>Research Activities</u>							
Books and Articles	32	25	29	20	36	26	34
Lectures and Reports	30	35	57	64	61	76	86
Extramural support (\$000)	\$306	\$284	\$235	\$260	\$300	\$268	\$138
<u>General Information</u>							
FTE Staff	2	2	3	3.3	4.4	5.2	6.3
Department Budget (\$000)	\$282	\$322	\$359	\$383	\$412	\$467	\$564
<u>Grade Distributions (percent)</u>							
<u>Lower Division (ex labs)</u>							
A			15.4	14.6	16.4	14.5 ^b	13.6 ^d
B			23.5	27.1	25.0	24.3	21.3
C			32.9	36.8	35.3	29.5	30.3
D			8.4	11.0	10.6	13.6	13.8
F			7.1	8.0	8.8	11.0	12.9
CR			4.7	1.4	1.8	-	-
Other			8.0	1.1	2.1	7.1 ^c	8.1
<u>Upper Division (ex labs. prob.)</u>							
A			25.9	30.0	24.7	25.7	25.2
B			27.2	26.3	29.2	30.4	26.6
C			22.1	25.8	27.2	23.1	25.6
D			4.5	6.9	6.3	5.0	5.1
F			4.0	5.9	5.3	3.7	7.0
CR			4.4	2.0	3.3	-	-
Other			11.9	3.1	4.3	12.2	10.5
<u>Graduate (ex prob., thesis, diss.)</u>							
A			64.6	53.2	59.4	44.0	47.7
B			16.1	27.6	26.4	12.8	16.2
C			5.8	4.6	2.4	3.0	2.3
NC			2.7	3.3	1.2	-	-
Other			10.8	11.3	10.6	40.2	33.7

^aActually no decrease--Psy. 201 not included as taught by Math dept.

^bOnly Fall 75 grades used for 75-76 as analyzed by Institutional Research.

^cIncludes CR, W, I, PR, NC.

^dOnly Fall 76 grades included.

January 1, 1976-December 31, 1976

II. Composite of information requested on individual biographical supplements.

1. Advanced study

Miller, William Richard--Ph.D., University of Oregon, Eugene, Oregon, degree granted: June 13, 1976. Thesis title: Behavioral treatment of problem drinking: A comparative outcome study of three controlled drinking therapies.

2. Sabbaticals, leaves of absence, summer teaching elsewhere, travel

Logan, Frank A.--Sabbatical leave, Spring, 1976 (Semester II).
Roll, Samuel--Sabbatical leave, beginning September, 1976 to July, 1977. The time was spent in Monterrey, Mexico conducting cross-cultural research and providing training and supervision to Mexican therapists.

3. New scholastic honors, fellowships

Delaney, Harold D.--Nominated by the Spencer Fellowship Committee for a National Academy of Education Spencer Foundation Post-Doctoral Fellowship.
Ellis, Henry C.--President-Elect, Southwestern Psychological Association; Elected to Executive Board, Council of Graduate Schools in Psychology; Program Committee, American Psychological Association, Division of Experimental Psychology.
Ferraro, Douglas P.--Election to Fellow, Division 25, American Psychological Association; Secretary, Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science; Program Chairman, Southwestern Psychological Association; Secretary, New Mexico Sigma Xi; Invited Participant, Midwestern Association for Behavior Analysis; Teacher of the Month for February, University of New Mexico.
Harnick, Frances--Full member, Sigma Xi.
Miller, William R.--Award for the best paper submitted to Eighth Banff International Conference on Behavior Modification, Banff, March, 1976.
Rosenblum, Sidney--Who's Who in the West; Who's Who Biographical Record (Child Development Professionals); Dictionary of International Biography.

4. Publications

Ellis, Henry C.--Role of encoding in memory. In International Encyclopedia of Psychiatry, Psychoanalysis, Experimental Psychology, and Neurology. B. B. Wolman (Ed.), 1976.

4. Publications (continued)

- Feeney, Dennis M.--Marijuana use among epileptics. Journal of American Medical Association, 235, p. 1105, 1976.
- Ferraro, Douglas P.--A behavioral model of marijuana tolerance. In M. C. Braude and S. Szara (Eds.), The Pharmacology of marijuana. New York: Raven Press, 1976.
- Summary of behavior pharmacology of marijuana. In M. C. Braude and S. Szara (Eds.), The Pharmacology of marijuana. New York: Raven Press, 1976.
- Preclinical effects: Unlearned behavior. In R. C. Peterson (Ed.), Marijuana and health. Washington: U. S. Government Printing Office, 1976.
- Preclinical effects: Learned behavior. In R. C. Peterson (Ed.), Marijuana and health. Washington: U. S. Government Printing Office, 1976.
- Preclinical chronic effects: Unlearned and learned behavior. In R. C. Peterson (Ed.), Marijuana and health. Washington: U. S. Government Printing Office, 1976.
- Complex interactions: A functional approach. In B. C. Etzel, J. M. Le Blanc, & D. M. Baer (Eds.), New developments in behavior research: Theory methods, and applications. New York: Lawrence Earlbaum, 1977. (with J. A. Parsons)
- Effects of intravenous cocaine on food-maintained behavior in monkeys. Journal of Life Sciences, 1976, 6, 40-45. (with C. W. Morrow)
- Time course of D-THC effects on water consumption in rats. Behavior Biology, 1976, 17, 567-572. (with K. B. Huthseng and D. J. Fetterolf)
- Chronological age and length of delay as determinants of delayed matching-to-sample and oddity performance in children. Perceptual and Motor Skills, 1976, 42, 35-42. (with E. W. Francis and T. A. Giomi)
- Interaction between marijuana and attitude on a complex behavioral task in baboons. Aviation, Space, and Environmental Medicine, 1976, 32, 121-123. (with M. F. Lewis, H. W. Mertens, and J. A. Steen)
- Effects of alcohol on specific and environmental fear. Psychological Reports, 1976, 39, 1335-1342. (with L. L. Dickerson)
- Friden, Thomas P.--Report on Cooperative Study on Aphasia. In Highlights of 20th Annual Conference, VA Studies. U. S. Government Printing Office (Publ.), IB 11-51, 1975, 126-128.
- Euclidean color space and its invariants. In Proceedings of the Technical Association of the Graphic Arts, 1976, 411-429. (with R. T. Wertz, J. Cohen, & Executive Committee of the V.A. Cooperative study on aphasia)
- Gluck, John P.--Extinction deficits in socially isolated monkeys (Macaca mulatta). Developmental Psychology, 1976, 12 (2), 173-174.

4. Publications (continued)

- Grice, G. Robert--Associative processes and strategies in disjunctive reaction time. Memory and Cognition, (Vol. 4), 1976, 433-445. (with R. R. Hunt, B. A. Kushner, & R. Nullmeyer)
- Harris, Richard J.--Hand computation of Bonferroni critical values. Perceptual and Motor Skills, 1976, 42, 515-521.
- Handling negative inputs in equity theory: On the plausible equity formulae. Journal of Experimental Social Psychology, 1976, 12, 194-209.
- The invalidity of partitioned-U tests in canonical correlation and multivariate analysis of variance. Multivariate Behavioral Research, 1976, (Vol. II), 353-366.
- The uncertain connection between verbal theories and research hypotheses in social psychology. Journal of Experimental Social Psychology, 1976, 12, 210-219.
- Two factors contributing to the perception of the theoretical intractability of social psychology. Personality and Social Psychology Bulletin, 1976, 2, 411-417.
- Hodge, Gordon K.--Hormonal effects on the morphological differentiation layer VI cortical cells in the rat. Brain Research, 1976, 104, 137-141. (with L. L. Butcher & E. Geller)
- Chronic hyperactivity without adipsia or aphagia induced by discrete lesions of pars compacta of the substantia nigra in rats. Neuroscience Abstracts, 1976, 2, 289. (with L. L. Butcher)
- Postnatal development of acetylcholinesterase in the caudal-putamen nucleus and substantia nigra of rats. Brain Research, 1976, 106, 223-240. (with L. L. Butcher)
- Koenig, Karl P.--Consciousness and its limits. In Introduction to the science of psychology, Behaviordelia Press, Kalamazoo, Michigan, 1976.
- Logan, Frank A.--Hybrid theory of classical conditioning. In G. H. Bower (Ed.), The psychology of learning and motivation (Vol. II). New York: Academic Press, 1977, in press.
- Miller, William R.--Paraprofessionals, partners, peers, paraphernalia, and print: A model for the use of therapeutic adjuncts in prevention, treatment, and maintenance. Symposium presented at the annual meeting of the Western Psychological Association, Los Angeles, April, 1976. (with A. Christensen & R.F. Muñoz)
- Alcoholism scales and objective assessment methods: A review. Psychological Bulletin, 1976, 83, 649-674.
- Maintenance in parent training. In J. D. Krumboltz & C. E. Thoresen (Eds.), Counseling methods. New York: Holt, Rinehart, & Winston, 1976, 434-444.
- How to control your drinking. Englewood Cliffs, N.J.: Prentice-Hall, 1976. (with R. F. Muñoz)

4. Publications (continued)

Norman, Ralph D.--Concealment of age among women psychologists: Replication after a quarter century. Journal of Psychology, 1976, 93, 289-297. (with A. P. Getts)

Parsons, Joseph A.--A PSI course in child development with a procedure for reducing student procrastination. Journal of Personalized Instruction, 1976, 1, 36-40.

Roll, Samuel--Psychological autopsy of an Indian adolescent suicide and its implications for community services. Suicide and Life Threatening Behavior, 1976, 6, 3-10. (with J. Blanchard & E. Blanchard)

Disclaimed activity in the dreams of Chicanos and Anglos. Journal of Cross-Cultural Psychology, 1976, 7, 335-345. (with K. Rabold & L. McArdle)

Dream patterns in Chicano and Anglo young adults. Psychiatry, 1976, 39, 280-290. (with C. B. Brenneis)

Ruebush, Britton K.--1976 Annual Report of Albuquerque Child Guidance Center and Big Brother-Big Sister Program. Albuquerque Child Guidance Center, Albuquerque, N.M., 1976.

5. Other research projects or creative work in progress or completed during period

Benedetti, David T.--Have gathered preliminary data in study of recall of self-judgments.

Blake, Tyler--Papers in progress: Priorities for environmental design research (Submitted to EDRA); Ergonomic aid to the elderly: conceptual approaches and practical problems (Submitted to Human Factors); Concept of internally augmented displays (in preparation).

Conrad, Carol E.--Some factors involved in the recognition of words. In J. Cotton & R. Klatzky (Eds.), Semantic Factors in Cognition, Lawrence Erlbaum, in press.

Research projects: Semantic integration of bilinguals two languages supported by UNM research allocations committee; NIMH grant proposal submitted; The role of attention in listening and reading--unsupported.

Delaney, Harold D.--Probabilistic information processing: Effects of a biased payoff matrix on choices and ratings. Submitted to Organizational Behavior and Human Performance. (with T. S. Wallsten)

Instructor's Manual for Fundamentals of Human Learning and Cognition. Dubuque, Iowa, William C. Brown Co. Publishers, in press. (with H. C. Ellis)

5. Other research projects or creative work in progress or completed during period (continued)

Delaney, Harold D. (continued)

Learning principles applied to instruction in learning. A grant proposal submitted to NSF's Division of Science Education Resources Improvement. (with Joseph A. Parsons)

Manuscripts based on two professional papers read at meeting during 1976 are being prepared for submission to journals. (see #6 below)

Ellis, Henry C.--Fundamentals of Human Learning and Cognition (2nd ed.).

William C. Brown, 1977, in press.

Human memory and learning: The processing of information. In M. E. Meyer (Ed.), Foundations of psychology. Williams and Wilkins, 1977, in press. (with J. Goggin & F. J. Parente)

Perceptual grouping, input variability and recall. Bulletin of the Psychonomic Society, 1977, in press. (with C. R. Grah)

Memory: The processing of information. In M. H. Marx & M. E. Bunch (Eds.), Foundations and applications of learning. Macmillan, 1977, in press. (with R. R. Hunt)

Transfer. In M. H. Marx & M. E. Bunch (Eds.), Foundations and applications of learning. Macmillan, 1977, in press. (with R. R. Hunt)

Psychology of learning and memory. Brooks-Cole, 1977, in press.

Context effects in recognition memory and recall: Retrieval and decision processes in memory. Journal of Experimental Psychology: Human Learning and Memory. (with C. R. Grah, R. R. Hunt, & F. J. Parente)

Verbal encoding processes in recognition memory and discrimination of visual form. Journal of Experimental Psychology: Human Learning and Memory, under review. (with B. C. Tatum, R. W. Shaffer, & T. E. Malloy)

Stimulus structure and the "variability effect" in free recall. Cognitive Psychology. (with F. J. Parente)

The recovery of negative cueing effects: A recall requirement hypothesis. Journal of Verbal Learning and Verbal Behavior, under review. (with C. R. Grah)

Continued research in Human Memory and Learning: Projects on Organization in Memory, Encoding Processes, Perceptual Grouping and Memory, Face Recognition and Eyewitness Identification, Retrieval Processes, and Perceptual Learning.

Feeney, Dennis M.--Readings and experiments for psychology. Kendall-Hunt, 1976, in press. (with S. Gaughan)

Marijuana and epilepsy: Δ -THC activates symptoms. In Therapeutic potential of marijuana. New York: Plenum Press, 1976, in press.

The marijuana window: A theory of cannabis use. Behavioral Biology, 1976, in press.

Mathematical prediction of post-traumatic seizures, in progress.

Effects of maternal lead exposure on visual evoked response of offspring, in progress.

Slow-wave sleep and epilepsy, in progress.

5. Other research projects or creative work in progress or completed during period (continued)

Ferraro, Douglas P.--Humanities Council Grant: Marijuana and society: Critical issues, 1976. (\$8,400)

Systematic analyses of learning and motivation. New York: Lawrence Erlbaum, in press. (with F. A. Logan)

Friden, Thomas P.--Objective differentiation of aphasia versus non-organic patients. To be presented at the fifth meeting of the International Neuropsychological Society, Santa Fe, Feb., 1977. (with B. Porch)

Gluck, John P.--Acquisition and extinction of an operant response in differentially reared rats. Developmental Psychobiology, in press. (with H. P. Pearce)

Response suppression in differentially reared monkeys (Macaca mulatta). Developmental Psychology, in press. (with R. G. Frank, & T. S. Strongin)

Long-term effects of early social isolation in rhesus monkeys (Macaca mulatta) (with R. Frank)

Acquisition of response sequence responding in rhesus monkeys (Macaca mulatta) (with W. Howard and D. Ferraro)

Shock-elicited self-mutilation in socially restricted rhesus monkeys (Macaca mulatta)

Grice, G. Robert--Information processing dynamics of human eyelid conditioning. Journal of Experimental Psychology General, in press.

PHS Grant MH 16400, Conditioning and response organization. (1974-1977) Current year's funding \$33,192. Reaction time work currently in progress and two papers in preparation.

Harnick, Frances--Articles submitted: Rethinking infant intervention: A change from what to how. Child Development.

The relationship between ability level and task difficulty in producing imitation in infants. Development Psychology.

Current Research on Play, sponsored by Arts & Sciences Summer Research Fund.

Harris, Richard J.--Applications of multivariate statistics in psychology. Factors accounting for failure to adopt optimal policies in experimental games. Allocation of outcomes of joint efforts. Assisted Dr. Dennis Feeney in construction of model for onset of post-traumatic epileptic seizures.

Hodge, Gordon K.--Photo-cell chamber for the quantification of locomotor activity and rotational behavior of rats, in progress. (with L. L. Butcher and P. Jaster)

5. Other research projects or creative work in progress or completed during period (continued)

Hodge, Gordon K. (continued)

- Effects on locomotor activity and eating and drinking behaviors following bilateral radio-frequency lesions of the substantia nigra and other areas in rats, in progress. (with L. L. Butcher)
- Rotational behavior of rats following unilateral radio-frequency lesions of the substantia nigra and other areas in rats, in progress. (with L. L. Butcher)

Johnson, Peder J.--Locus of perceptual pretraining effect upon children's conceptual behavior. Submitted to Journal of Experimental Child Psychology. (with T. Toppino and N. Lee)

Effects of defining features upon analog encoding of conceptual categories. Submitted to Journal of Experimental Psychology. (with G. Sutton)

- Effect of probe expectancy upon letter match reaction times. Submitted to Journal of Experimental Psychology. (with John Forester and Ward-Rodriguez)

NICHHD, \$44,166 in direct costs, 43% overhead. Influence of strategies in children's cognitive functioning, from 1975-1978.

Katz, Norman W.--Papers in preparation: Comparison of social learning instructions and "trance induction" in facilitating hypnotizability; Changes in attitudes towards hypnosis: 1961-1976; Interactions of personality and hypnosis induction style.

Koenig, Karl P.--State library grant to develop Video Tape Therapeutic program at DTC (\$3,500)

- Extroversion and reminiscence following a frustrating paired-associate task. Journal of General Psychology, in press. (with J. E. Schroeder)

Cognitive/behavioral group treatment of psychotic patients.

In preparation for Hospital and Community Psychiatry.

Cognitive behavior modification with severely disturbed psychiatric patients. Book length manuscript in preparation.

Clinical correlates in criminal action types. (with W. Foote)

Two articles submitted to: Journal of General Psychology.

Classical emotional conditioning of the laryngeal stress response. (with W. Foote)

Logan, Frank A.--NIMH Research grant (final year, extension without additional funds)

NSF Research grant (\$35,000)

Systematic analyses of learning and motivation. New York:

Lawrence Erlbaum, in press. (with D. Ferraro)

5. Other research projects or creative work in progress or completed during period (continued)

Miller, William R.--Final grant report submitted for "Behavioral Treatment of Problem Drinkers" on a grant from the Distilled Spirits Council of the United States (\$6,709). 2 years.
New Alcohol Research and Treatment Project underway at UNM
Program in planning for the treatment of depressed college students with Dr. Norman Katz.

Norman, Ralph D.--Institutional research in A & S College:
Growth rates in the A & S college over one decade.
Developmental sex difference changes and attitudes towards mathematics.

Parsons, Joseph A.--Acquisition and maintenance of precurent problem-solving behavior in preschool children. Mexican Journal of Behavior Analysis, in press.

Complex interactions: A functional approach. In New developments in behavioral research: Theory, methods and applications. Lawrence Erlbaum, in press.

Effects of mastery criterion level on student achievement in a personalized system of instruction (PSI) course. Research completed, data analysis completed, manuscript in preparation with Dr. Harold Delaney.

Preparation of research grant proposal to National Science Foundation, Local Course Improvement (LOCI) program.

Proposal submitted, awaiting decision, with Dr. Harold Delaney.

Forward vs backward chaining and response length effects upon learning and retention of a serial response sequence.

Research completed, data analysis in progress with Dr. Harold Delaney.

Design of two experiments to be completed during Spring 1977 semester dealing with: 1. Conditions affecting children's choice behavior--funded for \$600 by University Research Allocations Committee 2. Conditions affecting children's problem-solving behavior.

Rhodes, John M.--Research project being formulated (for submission and/or funding) on the relation of neuropsychological testing to neuro-anatomical dysfunction as defined by the EMI Computerized Tourographic Scan. (with J. Burstein of Radiology)

Research project being formulated (for submission for funding) on the relation of intracerebral hemorrhage in premature babies on later development. (with L. Papille, J. Burstein, F. Harnick, J. Parsons, C. Conrad)

Integration of cognitive, neurophysiological and learning functions with Sullivanian personality theory: An approach to interpersonal relations.

5. Other research projects or creative work in progress or completed during period (continued)

Roll, Samuel--Relationships between sons' feelings of being understood by their fathers and measures of the sons' psychological functioning. Journal of Genetic Psychology, in press. (with L. Millen)

Adolescent males' feelings of being understood by their fathers as revealed through clinical interviews.

Adolescence, in press. (with L. Millen)

Adolescent males' ratings of being understood by fathers, best friends and significant others, Psychological Reports, in press. (with L. Millen)

Review of Holtzman, W. H., Diaz-Guerrero, R., & Swartz, J. D. Personality development in two cultures: A cross-cultural longitudinal study of school children in Mexico and in the United States. Journal of Cross-Cultural Psychology, 1976, 7.

Rosenblum, Sidney--Humor development in children
Learning and behavior problems in children and youth. (text with B. Ruebush; McGraw-Hill, publisher)

Ruebush, Britton K.--Abnormal child psychology, in progress.
Evaluation of Child Guidance Services, Continuing research projects in progress. Results published each year in Annual reports of Albuquerque Child Guidance Center.

6. Activities in learned and professional societies

Benedetti, David T.--Attended annual meeting, Council of Graduate Schools, December 8-10, Denver, Colorado.

Blake, Tyler--Invited paper read to the International Ergonomics Association in College Park, Maryland, July 11-16, 1976.

Conrad, Carol--Chairperson, session on Psycholinguistics, SWPA.

Delaney, Harold D.--Learning as a function of individual differences, instructional treatments and word imagery, a paper presented at the Annual Meeting of the Rocky Mountain Psychological Association, Phoenix, May, 1976.

Effects of mastery criterion level on student achievement in a personalized system of instruction (PSI) course, a paper presented at the Annual Meeting of the Southwestern Psychological Association, Albuquerque, May, 1976. (with J. A. Parsons)

Ellis, Henry C.--President-Elect, Southwestern Psychological Association, 1976-77.

Elected to Executive Board, Council of Graduate Schools in Psychology, 1976-78.

6. Activities in learned and professional societies (continued)

Ellis, Henry C. (continued)

Program Committee, American Psychological Association, Division of Experimental Psychology, 1973-76.

Attended meetings of the Rocky Mountain Psychological Association, Phoenix. May, 1976. Presented papers: Test appropriate strategies in the intralist cueing paradigm (with Grah).

A test of Bowen's encoding variability model (with Babbitt).

Part-to-whole transfer and organization theory (with Green).

Co-chaired workshop entitled "Human learning, memory & cognition."

Attended meetings of the Southwestern Psychological Association, Albuquerque, May, 1976.

Attended meetings of the American Psychological Association, and meetings of the Council of Graduate Schools in Psychology, Washington, D.C., September, 1976.

Attended meetings of the Psychonomic Society, St. Louis, November, 1976.

Invited participant in the International Ergonomics Society, College Park, Maryland, July, 1976.

Feeney, Dennis M.--Initiation and depression of single neurons near an electrolytic lesion. Paper presented to Society for Neuroscience. Nov., 1976. (with J. Pittman) In Neuroscience Abstracts, 1976, 2, 831.

Effects of experimental epilepsy on the sexual behavior of cats.

Paper presented to Society for Neuroscience. Nov., 1976.

(with F. Gullotta & W. Gilmore). In Neuroscience Abstracts, 1976, 2, 261.

Experimental analysis of sexual behavior in temporal lobe epilepsy.

Paper presented to Southwestern Psychological Association.

May, 1976. (with F. Gullotta & W. Gilmore).

⁹Δ-Tetrahydrocannabinol activates symptoms in the epileptic beagle. (with G. Weiss & M. Spiker). Fed. Proceed., 1976, 35, 644.

Ferraro, Douglas P.--Program Chairman, Southwestern Psychological Association.

Program Chairman, Psychology Section, American Association for the Advancement of Science Meetings.

Secretary, Sigma Xi.

Attended meetings of the Psychonomic Society, Midwestern Association for Behavioral Analysis, Southwestern Psychological Association, Rocky Mountain Psychological Association.

Papers at professional meetings: Behavior pharmacology of stimulus control. Midwestern Association for Behavior Analysis, 1976.

A test of the reinforcement-loss hypothesis of behavioral

tolerance to marijuana. Psychonomic Society, 1976.

Complex interactions; A functional approach. Rocky Mountain Psychological Association, 1976. Steady State generalization

testing with contingent and non-contingent reinforcement. SWPA, 1976.

The effect of Δ⁹-THC upon performance in schedules prescribing amount of reinforcement as a function of response rate. SWPA, 1976.

6. Activities in learned and professional societies (continued)

Gluck, John P.--Discussant: Application of observational and ethological methods to the study of mental retardation. Lake Wilderness, Washington, June, 1976.

Long term effects of early social restriction. Paper to be presented to Harry F. Harlow Symposium on early experience, Tucson, Ariz., December, 1976.

Early experience and behavioral development in monkeys. Paper presented to Department of Biology, University of New Mexico, October, 1976.

Grice, G. Robert--Presented paper to Society of Experimental Psychologists (secretary-treasurer), Austin, Texas, April, 1976.

Presented paper to Psychonomic Society (Chairman-elect of governing board), St. Louis, November, 1976.

Harris, Richard J.--Paper presented at meetings of the Classification Society, Rochester, New York, May 25, 1976. The invalidity of partitioned-U tests in multivariate analysis of variance and canonical analysis.

Paper read at meetings of the American Psychological Association, Washington, D.C., September 3, 1976. Optimal decomposition of interactions into contrasts of contrasts.

Registration Chairman, referee for social psychology program, chairman of social psychology paper session, meetings of Southwestern Psychological Association, Albuquerque, April, 1976.

Accepted as member, Southwestern Division of Society for Multivariate Experimental Psychology.

Hodge, Gordon K.--Paper presented at the Sixth Annual Meeting of the Society for Neuroscience, November, 1976. Chronic hyperactivity without adipsia or aphagia induced by discrete lesions of pars compacta of the substantia nigra in rats.

Johnson, Peder J.--Attended Psychonomic Society meeting, November, 1976, St. Louis, Missouri.

Editor, Journal of Experimental Psychology; Psychological Reports
Occasional editor for Journal of Experimental Child Psychology

Katz, Norman W.--Paper presented at the meetings of the American Psychological Association, Washington, D.C., September, 1976. Increasing hypnotic responsiveness - behavioral training vs trance induction.

Koenig, Karl P.--Attended Association for Advancement of Behavior Therapy in New York City.

6. Activities in learned and professional societies (continued)

Logan, Frank A.--Assumed role as President-elect, Division of Experimental Psychology, American Psychological Association. Member, Council of Representatives, APA. Executive Committee, Southwestern Psychological Association.

Miller, William R.--Attended Banff International Conference on Behavior Modification, March, 1976. Attended Western Psychological Association, April, 1976. Papers presented at both.

Norman, Ralph D.--Panelist in workshop on "Influence of Age, Culture, and Sex on Assessment." (with N. Sundberg, U of O, Chrm.) UNM, February, 1976. Paper presented at Rocky Mountain Psychological Association, Phoenix, Arizona, May, 1976. Concealment of age among women psychologists: Replication after 25 years.

Parsons, Joseph A.--Paper presented at the meeting of the Southwestern Psychological Association, Albuquerque, 1976. Effects of mastery criterion level on student achievement in a personalized system of instruction (PSI) course. Paper presented at the meeting of the Rocky Mountain Psychological Association, Phoenix, 1976. Complex interactions: A functional approach.

Rhodes, John M.--Attended International Neuropsychological Society Meetings, Toronto, January, 1976. Program Committee and Local Arrangements for INS January, 1977 Meeting in Santa Fe. Presented Workshop for Regional Council of Exceptional Children

Roll, Samuel--Attendance at several professional meetings in New Mexico and Mexico. On the Board and on the Ethical Standards committee of the New Mexico State Psychological Association.

Rosenblum, Sidney--Invited address: Psychotherapy Forum, UNM, School of Medicine. Psychotherapy with asthmatic children, April 21, 1976. Chairman, Clinical Session, Southwestern Psychological Association, April 30, 1976. Family Therapy Workshop, New Mexico Group Psychotherapy Society, April 11, 1976.

Ruebush, Britton K.--Attended annual meeting of Southwest Psychological Association, April, 1976, Albuquerque, New Mexico. Attended annual meeting of American Association of Psychiatric Services for Children, November, 1976, San Francisco. Paper presented.

7. Other professional activities

Blake, Tyler--Consultant to Albuquerque National Bank on the re-design of work environments.

Conrad, Carol--Consultant-speech pathology. Veterans Administration Hospital.

Invited talk at the Conference on Semantics & Cognition, University of California, Santa Barbara.

Delaney, Harold D.--Program Committee Member and Paper Session Chairman, Annual Meeting of the Southwestern Psychological Association, Albuquerque, April 29, 1976.

Ellis, Henry C.--Regular Journal Editing: Journal of Experimental Psychology: Human Learning and Memory, 1974-77.
Journal of Experimental Psychology, 1967-74.
Perception and Psychophysics, 1971.
Psychological Reports, 1963 -
Perceptual and Motor Skills, 1963 -
 Colloquium, Highlands University
 Editorial Consultant, Brooks-Cole Publishers
 Consultant, Public Defender of New Mexico
 Consultant, Accreditation Team of Regional Private Schools

Feeney, Dennis M.--Colloquium, Psychology Department at Las Cruces.
 Colloquium, Anatomy and pharmacology departments at UNM.

Ferraro, Douglas P.--Presentations: Research colloquia at the University of Texas at El Paso and New Mexico Tech.
 Off-Campus presentations regarding marihuana and society given in Albuquerque, Socorro, Farmington, Las Cruces, Portales and Santa Fe.

On-Campus research presentations made to the Departments of Pharmacy and of Communicative Disorders.

Consultations: Energy Research and Development Administrations
 Professional Standards Review Organization
 National Institute on Drug Abuse
 Expert witness in three trial cases

Reviewer: National Institute on Drug Abuse
 Canadian Directorate on the Non-Medical Use of Drugs
 Psychopharmacologia
 Pharmacology, Biochemistry and Behavior
 National Science Foundation
 American Journal of Clinical Nutrition
 Journal of Consulting and Clinical Psychology. Dissertation reader for McMaster University, Canada.

Supervisor:

Marriott, R. G. Effects of selective pretraining on the acquisition of matching-to-sample behavior in pigeons, unpublished doctoral dissertation, 1976.

7. Other professional activities (continued)

Ferraro, Douglas P. (continued)

Bruce, P. B. Response-reinforcer and stimulus-reinforcer variables in the elimination of behavior. Unpublished doctoral dissertation, 1976.

Professional public-service appearances:

KGGM and KUNM TV

Health Professional Panelist

Friden, Thomas P.--Consultant, Veterans Administration Speech Pathology Unit

Member of the Executive Committee of the V.A. Cooperative Study on Aphasia

Gluck, John P.--Consultant: Rio Grande Zoo, Albuquerque, New Mexico.
V. A. Hospital, Albuquerque, New Mexico.

Presentation made to Eldorado High School, Albuquerque, New Mexico.
Developmental Psychology and Primate Behavior.

Grice, G. Robert--Review papers for several journals.

Harnick, Frances--Conducted Workshop on Infant Education, Baltimore, July, 1976.

Consultant for Esperanza Center

Editorial Consultant for Dorsey Press

Harris, Richard J.--Talk at monthly meeting of Data Processing Management Association, Albuquerque, September 21, 1976.
Psychology of decision making.

Report presented to Judge Riordan's District Court, Albuquerque, in Charles Brown case. Factors affecting perception of and reactions to harassment.

Refereed journal articles for Psychological Bulletin, Journal of Personality and Social Psychology, Journal of Experimental Social Psychology, and Personality and Social Psychology Bulletin.

Refereed book-length manuscript on experimental games for Academic Press and two proposed statistics texts for Wadsworth.

Katz, Norman W.--Workshop in Play Therapy with Children, presented at the annual Albuquerque Child Abuse Symposium.

Presentation on The use of Fantasy with Disturbed Children, at Programs for Children, BCMC.

Coordinated and co-led workshop in Hypnosis and Fantasy with Dr. T. X. Barber of the Medfield Foundation, Medfield, Massachusetts, November, 1976.

Consultant, Project FOCUS, Drug Abuse Education for Parents

Koenig, Karl P.--Re-appointed by Governor to Board of Psychological Examiners.

7. Other professional activities (continued)

Miller, William R.--Consultant for the construction of a new alcoholism treatment program, Department of Psychology, University of British Columbia, Vancouver. March, 1976.

Presented workshop on counseling skills to the residence halls staff of the University of San Francisco.

Norman, Ralph D.--Consultant-Examiner, North Central Association of Colleges and Secondary Schools.

Parsons, Joseph A.--Served as Guest Reviewer for the Journal of Applied Behavior Analysis.

Served as Editorial Consultant for Prentice-Hall Publishers on three textbooks.

Conducted 1/2 day of a workshop funded by the State of New Mexico designed to improve special education services for field-based teachers.

Rhodes, John M.--Member of Board of Directors of the Albuquerque Association for Children with Learning Disorders.

Workshop for Counselors Diagnosticians, Las Cruces P.S.

Neuropsychology Today Lecture to Continuing Education, New Mexico Psychiatric Association.

Neuropsychological Testing lecture to 2nd Judicial District Court Clinic.

Roll, Samuel--About a dozen off-campus talks in Albuquerque in 1976

Consultant to various agencies in Albuquerque including Child Guidance Center, Veterans Administration, and the Albuquerque Public Schools.

Rosenblum, Sidney--Editorial consultant, Holt, Rinehart and Winston; Brooks-Cole.

Mental Health Consultant, Bernalillo County Head Start Program Preceptor, School of Medicine, UNM

Chairman, New Mexico State Board of Psychologist Examiners

Five presentations to off-campus groups

President, Phi Kappa Phi, UNM Chapter.

Ruebush, Britton K.--Professional paper: Mental Health in the Public Schools

Attended workshop: Effects of Awareness, thought processes and perception on motivation and performance. Pacific Institute Tempe, Arizona, February, 1976.

Gave programs on Child and Family Mental Health to following groups: Chellwood School (Jan., 1976)

East Area A.P.S. Counselors (Mar., 1976)

Family Therapy Case Seminar for Staff of the Southwest Valley Mental Health Center, (Feb. & Mar., 1976)

Regular consultation to El Dorado, Sandia, and Manzano High Schools during 1976.

8. Non-teaching University service

Benedetti, David--Associate Dean, Graduate School, 2/3 time.

Member, Graduate Committee

Chairman, Graduate Committee Subcommittee on Fellowships

Member, Graduate Committee Subcommittee on Graduate Faculty

Member, Academic Calendar Advisory Committee

Member, Psychology Dept. Graduate Admission Committee

Member, Psychology Dept. Clinical Committee

Chairman, Psychology Dept. Faculty Evaluation Committee

Member, Psychology Dept. Minorities Committee

Conrad, Carol--A & S Human Subjects Committee.

University Computer Use Committee

Psychology Dept. High School Committee

Linguistics Dept. Comprehensive Exam Committee

Delaney, Harold D.--Statistical consultant for graduate student research.

Participated in Department's Saturday Morning High School program.

Modifications in the MANOVA computer package.

Ellis, Henry C.--Department chairman.

Faculty Senate; Operations Committee of Senate; Executive Committee of Senate

Provost Search Committee

Equal Employment Opportunity Committee

University Retirement and Insurance Committee

University Bilingual Committee

University Geriatric Program Committee

Departmental Committees: Learning, Honors, others

Chaired Dissertation Committees: Charles Grah, Brian Babbitt

Chaired Thesis Committees: Paula Hertel, Sherman Tyler, Brian Babbitt, Charles Grah.

Site visits to University of Arizona and UCLA, June, 1976.

Feeney, Dennis M.--A & S Promotion Committee

Ferraro, Douglas P.--Chairman, Research Policy Committee

Dean's Council

Vice President's Council on Cost Sharing

President's Task Force on Junior Colleges

American Association of University Professors, Executive Committee

Departmental Committees: Learning, Admissions, Introductory,

Shop, Physiological Search.

Friden, Thomas P.--Research Allocations Committee

Chairman, Graduate Admissions Committee (Dept.)

Gluck, John P.--Assistant Chairman, Dept. of Psychology

Director of Animal Facility, Dept. of Psychology

Advisor: Thesis: Edwards, Frank, Strongin

Senior thesis: Loudon & Laporte

8. Non-teaching University service (continued)

Gluck, John P. (continued)

Committee Membership: University Curricula Committee
University Humane Treatment of Animals Committee

Grice, G. Robert--Serve on a number of departmental committees

Harnick, Frances--Library Committee

Hodge, Gordon K.--Member of the following departmental committees:
Introductory Psychology; Psychobiology; Animal facilities;
Surgery.

Johnson, Peder J.--Chaired following:

Dissertation: Lee, Formal operation thought: Component
skills and observational learning

Thesis: Sutton, A critical attribute interpretation of
categorization.

Co-chaired dissertation: Robert Evans, Levels of processing in
children's memory development.

Katz, Norman W.--Member of Psychology Dept. Human Subject Committee.

Logan, Frank A.--Departmental Committees.

Director, NIMH Training Grant, Experimental Psychology of Learning

Miller, William R.--Dept. Committees on Introductory Psychology,
Undergraduate Advisement, Clinical Psychology, Trailers.
University Committee on Arts Therapy.

Norman, Ralph D.--Member, New Mexico Coordinating Council of Secondary
Schools and Colleges

Member, Clinical Committee and Introductory Psychology Committee,
Dept. of Psychology.

Parsons, Joseph A.--Service on Continuing Education Committee (1976-77)
Service on Institute for Applied Research Services Committee (1976-77)
Conducted Recruitment Program for high school students participating
in "Student for a day" program, 1976.
Served on four "extra-departmental" dissertation committees.

Rhodes, John M.--Policy Committee, Graduate Committee, Faculty
Senate (Graduate Programs & Standards Sub-Committee).
Chaired Committee on Committees.

Roll, Samuel--Served on several departmental committees and chaired
library committee.

Chaired A & S Human Subjects Committee and served on a University
Employee Grievance Committee.

8. Non-teaching University service (continued)

Rosenblum, Sidney--Chairman, Clinical Committee.

Clinical Associates Committee, Dept. of Psychiatry.

UNM Admissions Committee

Developmental Committee

Site visits to University of Arizona and UCLA, June, 1976.

Ruebush, Britton K.--Director, Albuquerque Child Guidance Center.

Member, Medical School Vertical Committee on Behavioral Sciences
(Jan.-Sept., 1976)

Member of the following committees: Dept. of Psychiatry:

Executive Committee, Children's Committee, Research Committee

(Jan.-August, 1976), Clinical Services Committee, Behavioral

Science Committee (Jan.-July, 1976). Dept. of Psychology:

Clinical Psychology Committee, Developmental Psychology

Committee, Faculty Evaluation Committee.

9. Public service

Delaney, Harold D.--TV interview in support of World Vision International,
a disaster relief/child care organization.

Lectured and led discussion groups for local Christian organization,
e.g., on the relationship between B.F. Skinner's view and the
Christian view of the nature of man.

Ellis, Henry C.--University Swim Team, Sponsor.

Little League Soccer, Sponsor.

Feeney, Dennis M.--Albuquerque Chamber of Commerce sub-committee
on Handicapped.

N. M. Delegate to White House Conference on Employment of the
Handicapped.

Gluck, John P.--Member of Animal Experimentation Protocol Committee,
New Mexico Science Fair. January, 1976.

Harris, Richard J.--Course surveyor, Albuquerque Roadrunners Club.
Block chairman, Heart Fund.

Katz, Norman W.--Clinical services donated 4.5 hours per week to the
Albuquerque Child Guidance Clinic.

Gave Play Therapy Workshop, Annual Albuquerque Child Abuse Symposium,
November, 1976.

Koenig, Karl P.--Vice-president, Board of Trustees, Sandia Preparatory
School.

Miller, William R.--Education series on sex-role socialization: First
Presbyterian Church, Palo Alto, Calif. and New Life Presbyterian
Church, Albuquerque.

Taught relaxation techniques to teachers of Albuquerque Childbirth
Education Association.

9. Public service (continued)

Parsons, Joseph A.--Conducted informational slide show, question answer program for students participating in state Science Fair, 1976.

Organized and conducted bi-weekly program for area high school students interested in psychology, 1976.

Rosenblum, Sidney--Board of Directors, ACLOA Amigos
Arts Judaica Committee, Congregation B'nai Israel

Ruebush, Britton K.--Trustee, Board of Trustees, Albuquerque Academy
Chairman, Education Committee
Volunteer Basketball Coach, Albuquerque Boys Club
Member, United Way Executive Committee

10. Personal information

Delaney, Harold D.--Birth of first child, Benjamin H. Delaney, May 4, 1976.

Harris, Richard J.--Won 30-39 division of New Mexico AAU Hour Run Championship, Wilson Stadium, July 4, 1976.

THE ANNUAL REPORT OF THE DEPARTMENT OF SOCIOLOGY

July 1, 1976 to June 30, 1977

Pedro R. David, Chair

Appointments and Recruitment

In August 1976 we began the academic year with three new professors added to our staff. Professor Melvin DeFleur, one of the top sociologists in the nation and a specialist in the areas of mass communications and methodology, teaches our 101-001 Sociology course. One of the most respected authorities on the development of modern Cuban society is Assistant Professor Nelson P. Valdes who was hired to strengthen the Latin American offerings of the Department. He joined our Department in the fall also. The other person to join us was L. Paul Sutton, Assistant Professor, and a specialist in criminology, criminal justice, and deviant behavior, and will help to strengthen our criminal justice courses.

Tenure and Promotion

Visiting Instructor Jill McKelvy received her Ph.D. in November, 1976 and was promoted to Visiting Assistant Professor. She had accepted a position at another institution for the academic year 1977-78. Assistant Professor Frieda Gehlen was promoted to the rank of Associate Professor by the Department. Her promotion was confirmed on April 25, 1977. Professors Dodd Bogart and Arthur St. George's cases for tenure are under review by the Provost at the present time.

Graduate Program

Our newly approved Ph.D. program will be active Fall 1977 and we will have nine students enrolled by the end of May, 1977. We have two new students enrolled in our Master's Program. At present we have a total of 21 graduate students in the Department. Brigitte Goldstein has been nominated for the Graduate Tuition Fellowship.

Sociology Annual Report, 1976-1977

Page 2

Our Graduate Assistantships for the academic year 1977-1978 were awarded to Jeremy Brown, Brigitte Goldstein, Sandra Weber, and Mary Stinebaugh. It is important to remark that a proposal for the establishment of a Ph.D. with concentration in Deviance and Criminology has been submitted to the Center for Crime and Delinquency of NIMH for funding to start December 1977, tentatively.

The proposed doctoral training is focused on three related objectives: The first is to make academic training in this disciplinary area more oriented toward addressing the needs of the population of this state and region with respect to problems of crime, delinquency and other forms of deviant behavior. In effect, it represents an attempt to improve the capacity of New Mexico to cope with its increasing problems of deviance by offering doctoral training that will permit its recipients to serve in non-academic roles in the area as well as in more traditional academic roles.

The second objective is to design and implement two unique types of courses. The first type will better equip those who receive training to understand and utilize in research planning the distinctive patterns of social organization and culture that characterize the local minority populations of this region (Chicano, Hispano, and various Native American groups). The third focus represents an attempt to provide graduate educational opportunity here in New Mexico for individuals in minority categories. Large segments of the New Mexico population are of Spanish cultural origin or are Native Americans. These people are currently considerably under-represented in professional research, teaching, and higher level administrative roles in all parts of the United States. This is clearly the case in New Mexico. Because no doctoral program in sociology existed in the state until recently, little opportunity was present for such persons to pursue a Ph.D. in any aspect of this discipline.

Sociology Annual Report, 1976-1977

Page 3

Summer Session

Chairman David will be teaching Criminal Justice summer session in Madrid, Spain. Professor Gilbert Merkx will be teaching summer session at Guadalajara, Mexico.

Enrollment

We have had a substantial increase in enrollment of students in Sociology courses this year, an increase of 500 students from previous years, both at the undergraduate and graduate levels.

Speakers

This department has been very active in bringing in national and international level speakers. Professor Gerhard Mueller, Director of United Nations Sections on Crime Prevention and Professor Freda Adler, United Nations Staff and author each gave very effective lectures on deviance, criminology, and criminal justice the second week of February.

Dr. Lola Aniyar de Castro, Director of the Institute of Criminology, University of Zulia, Venezuela lectured for us on comparative criminal law, during the first week of March.

Mr. Denis Szabo, Director of Comparative Criminal Institute, University of Montreal, visited the department during early spring and an active exchange of publications has already taken place. Prospects for the systematic operation in the area of comparative research are in sight. The Department submitted an agreement "Recommendation for a Latin American Institute at UNM" to President Davis who has initially approved it with the Inter-American Children's Institute of the OAS.

Minor in Social Welfare

In May, 1976, a minor in Social Welfare was approved. It consists of 18 semester hours of courses in the Social Welfare curriculum, exclusive of introductory courses in sociology and related disciplines. This minor is especially designed to accompany a major in either Sociology or Psychology but may be pursued by students majoring in other fields.

Faculty Publications

Books, articles and research monographs

Bogart, Dodd H.

"Self Reported Training and Technical Assistance Needs in a Sample of Human Service Agencies." For New Mexico State Planning Office, 1976.

"An Interview Survey Study of Perceived Training Needs in Selected Human Service Agencies." For New Mexico State Planning Office, 1976.

"An Informal Report of Problem Concerns in a Sample of Human Service Agencies." For New Mexico State Planning Office, 1976.

David, Pedro R.

El Mundo Del Delincuente Ed Astrea, Buenos Aires, March 1976 (Spanish translation of The World of the Burglar.)

Research Project on the Sociology of Law (reader), December, 1976.

Report on Latin America Terrorism for U.S. Commission on Terrorism, for U.S. Commission on Terrorism, July, 1976.

Argentine Terrorism, for reader by Miguens and Turner, December, 1976.

DeFleur, Melvin L.

Sociology: Human Society, Glenview, Illinois: Scott, Foresman, 1976. (with William D'Antonio and Lois DeFleur Nelson).

"Mass Media Influences on Conceptions of Social Problems," Journal of Social Problems, 23, 1, 1976, pp. 22-34. (with Jeffery Hubbard and Lois B. DeFleur).

"A Dependency Model of Mass Media Effects," Communications Research, 3, 1, 1976, pp. 3-21. (with Sandra Ball-Rokeach).

Gehlen, Frieda L.

"Support Your Local Police--on Strike?" Journal of Police Science and Administration, 1976, Volume 4, Number 1, pp. 1-8 (with Robert Anderson, Ted Bartell and L. T. Winfree).

"Women Members of Congress: A Distinctive Role?", a chapter in The Political Behavior of the American Woman: A Reader, Jewel Prestage and Marianne Githens (eds.), New York: McKay, 1976.

Huaco, George

"Review Essay: Idle Passion. Chess and the Dance of Death", The Sociological Quarterly, 17 (Winter 1976) pp. 130-133.

McNamara, Patrick H.

"Housing for the Handicapped" (with Virginia Harris) Albuquerque-Bernalillo County Planning Department. February, 1976. 73 pp.

Merkx, Gilbert W.

New Perspectives on Latin America, ed., with Karen L. Remmer, (New York, MSS Publications, 1976), 298 pp.

"Argentina: Peronism and Power," Monthly Review, vol. 27, no. 8 (January, 1976), pp. 38-51.

"Charisma in Latin American Politics: Some General Comments and the Case of Juan Domingo Peron," in Remmer and Merkx, New Perspectives on Latin America (New York, 1976), pp. 164-181.

Sutton, Paul

(With Garafolo) Victim Remedies: Implications of the National Crime Victimization Survey for Legislation to Compensate Victims of Crimes. U.S. Department of Justice, Law Enforcement Assistance Administration, National Criminal Justice Information and Statistics Service, Washington, D.C.: Govt. Printing Office (in press). 60 pp.

Chappell and Sutton. "Evaluating the Effectiveness of Programs to Compensate Victims of Crime," (reprint) in Hearings on Crime Victims Compensation Legislation Before the Subcommittee on Criminal Justice of the House Committee of the Judiciary, 94th Congress, 1st and 2nd Sessions, ser 39, pp. 907-914 (1976)

Tomasson, Richard P.

"The Continuity of Icelandic Names and Naming Patterns," Names, 23:4 (December 1975), pp. 281-289. (Published late)

"Premarital Sexual Permissiveness and Illegitimacy in the Nordic Countries," Comparative Studies in Society and History, 18:2(April 1976), pp. 252-270.

"Iceland's Survival and the Law of the Sea," Current History 70:415(April 1976), pp. 155-158, 181-182.

"The Mortality of Swedish and U.S. White Males: A Comparison of Experience, 1969-1971," American Journal of Public Health, 66:10 (October 1976), pp. 968-974.

"As I See Sweden" Sweden Now, forthcoming in december 1976 issue.

Valdes, Nelson P.

"Institutionalization and Revolution in Cuba," Cuban Studies, January 1976, pp. 1-38.

Book Reviews

Huaco, George A.

Levi-Strauss, Claude, Structural Anthropology II in Sociology, Review of New Books, May/June 1976, Vol. 3, No. 7, p. 119.

Review of Wright, Will, Six Guns and Society, in Contemporary Sociology, Vol. 5, No. 5 (Sept. 1976) pp. 699-700.

McNamara, Patrick H.

Review of Eckhardt, A. Roy, Your People, My People in Review of Religious Research, Vol. 17, #2 (Winter), pp. 169-170.

Merkx, Gilbert W.

Review of Two Democratic Labor Leaders in Conflict, by Carroll Hawkins, in Contemporary Sociology, Vol. 5, No. 1 (January, 1976) pp. 50-51.

Review of Greedy Institutions by Lewis Coser, in Contemporary Sociology, Vol. 5, No. 1 (January, 1976), pp. 66-68.

Tomasson, Richard F.

Review of Koblik, Steven, editor, Sweden's Development from Poverty to Affluence, 1950-1970 in Scandinavian Studies, 48:3 (Summer 1976) pp. 332-335.

Review of Ramsøy, Natalie Rogoffs, editor, Norwegian Society in Scandinavian Review, 64:1 (March 1976) p. 87.

Review of Putnam, Robert D., The Comparative Study of Political Elites in Sociology: Review of New Books, 3:9 (August 1976), p. 167.

Papers Read at Professional Meetings

David, Pedro R.

Paper read at Session No. 120 of the 71st Annual Meeting of the American Sociological Association, New York, August 30 - September 3, 1976.

Gehlen, Frieda L.

"Karate Instruction as a Type of Craze," a paper presented at the Southwestern Social Science Association Meetings, April, 1976. (Co-author: Stephen Doeren).

Huaco, George A.

"Toward a Sociology of Philosophy," a paper read before the Graduate Philosophy Club, UMM Department of Philosophy, September, 1976.

McKelvy, Jill

"Anomie and Middle-class Kids: Spurious Designations of Delinquency," a paper presented at Western Social Science Association Meetings.

- McNamara, Patrick H. "Advocacy for the Handicapped," paper presented at the Southwestern Social Science Meetings, Dallas, April 1976. (with V. Harris)
- "Roman Catholicism Since Vatican II," paper presented at Society for the Scientific Study of Religion, Philadelphia, October, 1976.
- Merkx, Gilbert W. "The Military and Development Strategy in Argentina," paper presented at the Pacific Coast Council for Latin American Studies, Tempe, Arizona, October 22, 1976.
- Sutton, L. Paul "A New Look at Criminal Sentencing: Experience as a Prelude to Reform." A presentation to the Third Annual Joint Training Conference for Federal Probation Staffs of the Districts of New Mexico and West Texas, El Paso, Texas, December 10, 1976.
- Tomasson, Richard F. "The Mortality of Swedish and U.S. White Males: A Comparison of Experience, 1969-1971," a paper presented to the American Sociological Association, New York, August, 1976.
- Valdes, Nelson P. "Cuban Angola: The Politics of Principles and Opportunism," paper presented at the Conference on the Role of Cuba in World Affairs, held at the Center for Latin American Studies, University of Pittsburgh, November 15-17, 1976.

Research and Scholarship in Progress

- Bogart, Dodd H. A series of small group studies on group structure and group ideology with David Lundgren. (Dates in parentheses of most recent completed draft):
- (10/76) "Social Power and Liberalism-Conservatism: The Ideological Consequences of Group Position in an Inter-Group Power Hierarchy."
- DeFleur, Melvin L. "An Experimental Study of the Transmission of Arbitrary Norms," (with M. Vida).
- Gehlen, Frieda L. Completed another article on women in Congress and their voting records--accepted for 1977 publication.
- Article accepted for publication in 1977 on hysterical contagion.
- Currently working on a test of Gamson's theory of efficacy and power using the 1968 Wallace voters.
- A comparison on UNM retirement benefits with other Western state universities for the University Retirement and Insurance Committee.
- McNamara, Patrick H. Social survey of St. Pius High School seniors--analysis and write-up now in progress.

McNamara, Patrick H.

(Cont.)

Institutional analysis of Navy Drug Program. Being revised for submission.

Survey of religious values of Bernalillo County parolees. Analysis under way.

Case Study of the social role of the professional consultant (with Arthur St. George), first draft completed, 12/1/76.

Maier, Harold C.

Research paper in progress, to be presented at meetings of Southwestern Sociological Association: "Faculty Marginality and Radical Academic Values."

Merkx, Gilbert W.

Research Project on sociology journal prestige (with Arthur St. George).

Research into development policy in Argentina.

Progress on book on the Sociology of Latin America (contracted with Harper-Torchbacks).

St. George, Arthur

Case study of the social role of the professional consultant (with Patrick McNamara).

Research project on sociology journal prestige (with Gilbert Merkx).

Spirit of Delight: The Life of Joseph Wood Krutch.

Advanced Research Methods in Sociology (negotiating with Allyn and Bacon for contract).

"Principles of Bayesian Inference for Social Sciences."

"Participation in the Environmental Movement: A Test of Social Movement Theory."

"Linguistic Dimensions of the Concept 'Sport' and Their Relation to Sport Preference."

Sutton, L. Paul

Initiating research project on enhancing the role of probation officers in the imposition of criminal sentence--the identification and promulgation of criteria to guide sentencing recommendations.

Tomasson, Richard F.

Completed study "A Millenium of Misery: The Demography of the Icelanders," 57 pp. accepted for publication by Population Studies.

Woodhouse, Charles E.

Research in progress on a study of women in revolutionary political parties. (with Henry Tobias, Dept. of History, University of Oklahoma).

Other Professional Activities and Achievements

- Bogart, Dodd H. Needs Assessment of Human Service Agencies: A \$5,000 study done for the New Mexico State Planning Office. Two research assistants supported Spring 1976.
- David, Pedro R. Member of Governor's Committee on Criminal Justice Standards, Jan. 8. to May 30, 1976.
- Certificate of Appreciation issued by Governor Apodaca in recognition of services.
- Lectured to Albuquerque League of Women Voters of the Lion's Club of Albuquerque.
- Chairman, UNM Task Force of Latin America
- UNM Press Committee
- DeFleur, Melvin L. Served as Chairman for a committee of the College of Arts and Sciences on "Development of an Interdisciplinary Social Science Course."
- Organized session on "Low Cost Sociological Research" for the annual meetings of the American Sociological Association, September 1, New York City.
- Prepared proposal to the National Institute of Mental Health for a "Ph.D. Training Program in Social Sources of Deviant Behavior."
- Gehlen, Frieda L. Participated in a radio panel program on elections for the campus radio station, aired, Nov. 1, 1976; also did a short interview for KNWZ radio on research on women's voting records.
- Elected to the faculty Senate (Arts and Sciences)
- Retirement and Insurance Committee
- Faculty Welfare Committee of the Senate
- Public Administration Policy Committee
- Huaco, George A. Graduate Advisor
- A&S Promotion Advisory Committee member
- McKelvy, Jill Discussant - Women in Transition - 1976 Annual Colorado Mental Health Conference.
- T.V. Appearance - Women in Crime
- Co-organizer of a seminar on criminal justice for the community plus speaker on juvenile justice.

McKelvy, Jill (cont.) Lead workshop for AGORA on loneliness and depression
Gerontology Curriculum, Faculty Study Committee

McNamara, Patrick H. Consultant, Albuquerque-Bernalillo County Planning
Department, Jan. - March, 1976.

Presentation on Changing Values of Work, N.M. Humanities
Council Panel, March, 1976.

Meier, Harold C. Admission and Registration Committee

Departmental Curriculum Committee Chairman--extensive
curriculum revision.

Merix, Gilbert W. Panel Participant, N.M. Humanities Council radio broad-
cast on "New Mexico and the World."

Consultant, Prentice-Hall, St. Martin's Press, Random
House.

Reviewed articles for Journal of Developing Areas, the
American Sociologist.

Reviewed grant applications for the National Science
Foundation.

Secretary and member, President's Task Force on Latin
American Studies at UNM.

Vice-President and Member, Operations Committee and
Executive Committee, Faculty Senate. Member, Provost's
Task Force on New Program Development.

Faculty Advisor, Student Organization for Latin American
Studies.

St. George, Arthur W. Manuscript/book reviewer for Prentice-Hall, Wadsworth,
Houghton Mifflin, Contemporary Sociology, Journal of
Voluntary Action, Journal of Leisure Research, Library
Journal, American Sociologist, Education and Psychological
Measurement, and Previews.

Chairman, Human Subjects Committee

Sutton, L. Paul Assisted in preparation of grant proposal to fund Ph.D.
program with emphasis in criminal justice; assist in
design of curriculum and program requirements of same.

Tomasson, Richard F. Editor, Comparative Studies in Sociology.

Associate Editor, Journal of Military and Political
Sociology.

Tomasson, Richard F.

(cont.)

Panelist, "Similarities and Differences Among the Scandinavian Countries," Society for the Advancement of Scandinavian Study, Austin, Texas, April, 1976.

Vice-President and Member of Executive Committee, Society for the Advancement of Scandinavian Studies.

Nominated as candidate for President of SASS.

Interviewed by NBC-New York in the results of the September 19, 1976 Swedish election.

Participant, Swedish Studies Conference, San Francisco, November 20-21, 1976.

Lecture: "The High Mortality of U.S. Males: Comparative Perspectives," Medical Staff, Presbyterian Hospital, Albuquerque, December 14, 1976.

Member of A&S Tenure and Contract Renewal Committee.

Valdes, Nelson P.

Campaign Practices Report--Panel sponsored by the New Mexico Humanities Council, December 8, 1976.

Woodhouse, Charles E.

Undergraduate advisor, Department of Sociology.

Member, Departmental Graduate Committee.

The Annual Report of the Department of Speech Communication

July 1, 1976 - June 30, 1977

R. Wayne Pace - Chairman

I. GENERAL DEPARTMENTAL INFORMATION AND ACCOMPLISHMENTS

- A. Mission of the Department of Speech Communication . . . 1 - 9
 - 1. Statement of Mission
 - 2. Uniform Course Numbering System
 - 3. Organizational Communication Program
 - 4. Telemediated Communication Program
 - 5. Interpersonal Communication Program
 - 6. Rhetorical Communication Program
 - 7. Departmental Planning Conference and Organization
 - 8. Appointments to University Committees
 - 9. Name Change for Department
- B. Faculty, Staff, and Assistants of the Department . . . 10-11
 - 1. Faculty
 - 2. Staff
 - 3. Graduate Assistants
 - 4. Work-Study Students
 - 5. Faculty Appointments, Effective August, 1976
 - 6. Faculty Separations, Effective June 30, 1977
 - 7. Foreign Assignment, Effective June 30, 1977
- C. Faculty Accomplishments: January 1 - December 31, 1976 11-18
 - 1. Advanced Study
 - 2. Sabbaticals, leaves of absence, etc.
 - 3. New scholastic honors, etc.
 - 4. Publications
 - 5. Other research projects or creative work in progress
 - 6. Activities in learned and professional societies
 - 7. Other professional activities
 - 8. Non-teaching University service
 - 9. Public service
 - 10. Personal Information
- D. Annual Report on University Forensics, 1976-1977 . . . 19-22
 - 1. Introduction
 - 2. Participation
 - 3. Activities
 - 4. Awards
 - 5. Future Directions

II. RECOMMENDATIONS AND PLANS FOR THE FUTURE 23

APPENDIX: SIX ADVISEMENT FORMS 24-30

Department of Speech Communication

Annual Report

I. General Departmental Information

A. Mission of the Department

This is a report of the fifth year in which the Department of Speech Communication has existed in its present form. In 1972, the structure and mission of the department were modified when Speech Pathology and Audiology was designated a separate department.

1. Statement of Mission.

With the selection of a new department chairperson from outside the university, a mission was formulated which involved the development of four lines of scholarly inquiry within the field of communication. These lines have found expression in the development of new courses, research directions, and new faculty. Although apparently misunderstood by some, the lines consist of the study and dissemination of information about human communication (the sending and receiving of messages between human beings) in the following settings:

Interpersonal--involving dyads and small groups.

Public--involving audiences in both face-to-face and mediated modes (that is, through television, radio, film).

Organizational--involving internal communication systems in bureaucracies.

Instructional--involving communication in teaching, training, and non-traditional learning.

2. Uniform Numbering System.

The types of courses offered by the department were more clearly described through the creation of a uniform numbering system put into practice this year. Each group of courses was given its own number-code as follows:

Interpersonal courses were given 20's numbers, so that, for example, the introductory course in Interpersonal Communication was numbered 221, indicating the first course in interpersonal communication offered at the sophomore-level. Nonverbal communication was numbered 323, and Advanced Nonverbal Communication was assigned number 423.

Organizational courses were given 40's numbers, with the introductory course, Communication in Organizations, being numbered 240. Communication Audit, an intermediate course in the analysis of communication in organizations, was numbered 348, and a course in ways of improving communication in organizations, Strategies of Organizational Communication, was numbered 442.

Rhetorical courses, or those dealing with face-to-face audience communication, were given 30's numbers. That is, Public Speaking was numbered 130 and Advanced Public Speaking was assigned number 231. Southwest Rhetoric was numbered 332, Campaigns and Movements was numbered 334, Revolutionary Rhetoric was numbered 336, Rhetoric Criticism was numbered 336, and Rhetorical Theory was numbered 431.

Telemediated courses, or those dealing with television, radio and film--communication with audiences through electronic media, were given 60's numbers. Thus, the introductory course

in broadcasting history and policy, Telecommunication, was numbered 261, whereas the introductory course in studio production, Telecommunication Production, was numbered 265. Telecommunication Evaluation, Methods and Film Production were numbered 361, 366, and 367, respectively. Advanced courses in the area, such as Telecommunication Strategies, Advanced Telecommunication Methods, and Writing for Television were numbered 461, 465, and 466.

Since courses in oral reading were already assigned 60's numbers, the three courses in that area retained the zero position--260, 360 and 460.

Instructional courses--those dealing with educational methods in communication--were given 70's numbers. Communication for Teachers, an introductory course for students contemplating careers in teaching, was numbered 270; Speech Communication in the Secondary Schools was given the number 470; and Administration of the Forensics Program was numbered 472.

Language courses were given 50's numbers. General Semantics, for example, was given number 350 and the graduate seminar in Language Behavior was numbered 550.

Independent study-type courses were numbered in the 90's. Thus, Undergraduate Problems and Undergraduate Internship were numbered 490 and 492; honors courses, Reading and Research in Honors and Senior Theses, were numbered 493 and 494; and Master's Thesis was numbered 599.

Departmental advising sequences, listing patterns of courses leading to a number of career choices (see Appendix A),

were revised and made available to increasing numbers of students. The advising sequences appear to have operationalized the mission of the department for students.

The departmental mission and curriculum help students to develop skills in individual and group problem solving, persuasion, language analysis, public speaking, television (audio/video/visual) production, writing, design, and strategies, small group interaction, rhetorical criticism, organizational analysis, analyzing campaigns and movements, developing public information and public relations programs, evaluating the effectiveness of media, interviewing, planning and implementing programs to improve communication in organizations, and producing films and creating effective technical presentations, among others.

3. Organizational Communication Program.

At the Fall Planning Conference of the Department, faculty approved the organization of an Institute for Organizational Communication. The goals of the Institute are to encourage research on organizational communication and to disseminate information about organizational communication to individuals and groups. The term "speech" in the departmental name does not adequately represent the concerns of organizational communication in seeking research funds, creating workshop proposals, and in working with the community. The Institute has helped provide a strong public image and visibility for the program in the community. Dr. Paul C. Feingold has served as Director of the Institute during the past year.

Profs. R. Wayne Pace and Paul C. Feingold are both organizational communication auditors certified by the International Communication Association. The Department of Speech Communication, with the Institute, a strong curriculum, and certified auditors, is recognized as one of the key locations for the study of organizational communication in the country.

4. Telemediated Communication Program

The Department of Speech Communication has established itself as the department with particular and specific interests in the electronic media (live, video, film) and human communication. The department offers eleven courses ranging from beginning levels through graduate offerings. Three general lines of concern dominate the program: a. Production, n. Policy and Regulation, and c. Evaluation and Effects.

The production courses teach students how to operate equipment, produce programs, and manage a studio. Students learn strategies for bringing an idea to the attention of producers and the public; how to produce the live show, the videotaped show, and film.

Evaluation and effects courses teach students how to conduct ascertainment studies, how the mediated message affects listeners, and ways of assessing the effectiveness of television and other mass media.

Policy and regulation courses introduce students to the history, development, regulation, and uses of the broadcast media.

Courses in organizational communication examine how electronic media are used within organizations to get messages disseminated.

Courses in rhetorical communication analyze strategies relevant to the use of electronic media in social action programs, political campaigns, public information efforts, and the diffusion of innovations. Courses in interpersonal communication study how the electronic media affect interpersonal perceptions and relations, how the media influence interpersonal behaviors, and how the electronic media might be used to learn more about interpersonal communication.

The department is looking forward to improved facilities to carry out this important teaching and research charge. At this writing, the departmental television laboratory studio is located at 1801 Roma Avenue, N.E. in wholly inadequate facilities with outmoded equipment. However, with the expert assistance of the departmental electronic technician, Richard Steinberg, both audio and video control boards, cameras, and other equipment have been reconditioned and are operational at the end of this academic year.

Throughout this year, the department has been engaged in a struggle to identify and justify the extent of its involvement with electronic media. With interests of Journalism in broadcast news and Theatre Arts in television drama, the concept of mediated communication seems to have become obscured. However, it is clear to us that of the three major concerns of this department (production, policy and regulation, and evaluation and effects), only production is related to the interests of other departments. A committee consisting of representatives from Speech Communication, Journalism, Theatre Arts, Education, and the College of Arts and Sciences met the latter part of this year to discuss relationships, needs, and

uses of academic departments involved in teaching about the media.

5. Interpersonal Communication Program

This is currently the most stable part of the department, with all faculty assigned full-time to interpersonal communication courses being Associate Professors and tenured. The courses cover the full range of issues from the theory of dyadic relationships through verbal and nonverbal behaviors, multicultural relationships, small group factors, persuasion, problem solving, and research.

The most serious action to affect the department and this program was the Dean's decision to reduce the number of faculty members assigned to this department because of alleged "high grading" practices. The lost position made it necessary to eliminate all except one section of the introductory course in interpersonal communication, a very popular course enrolling as many as 500 students. For the coming year, only one section of approximately 50 students will be offered. The Dean's action was crippling to the department and deleterious to faculty morale. The interpersonal program suffered serious damage to its instructional efforts.

6. Rhetorical Communication Program

Until recently, rhetoric dominated the departmental programs. However, with growing interest by students in other areas and changes in staffing, rhetoric and public address studies have emerged as part of a balanced curriculum, with increasing strengths and broad-based support. For the first time, Speech Com. 102, a parallel introductory course to Speech Com. 101, was presented. The course 102 offers students an analytical

introduction to the field, following closely a rhetorical perspective related to concepts of public/audience communication. Students interested in rhetorical and telemediated communication tend to take 102 whereas students interested in interpersonal and organizational communication tend to take 101.

Both 101 and 102 tend to enroll between 200 and 250 students, providing an opportunity for a reasonably large number of students to be introduced to the principles and theories of communication prior to taking beginning skills courses.

Approximately 2.5 FTE faculty work in the rhetorical area, offering courses in Southwest Rhetoric, Revolutionary Rhetoric, Famous Speeches, Rhetorical Theory, Public Speaking, and Argumentation and Forensics.

7. Departmental Planning Conference and Organization.

On August 18, 1976, faculty of the department met at the Tucker Room of the University South Golf Course to review yearly activities and make plans for the coming semesters. The following appointments were made:

- a. Graduate Studies Committee (to review admissions to the graduate program and recommend policies): Lawrence Rosenfeld, Paul Feingold, and Richard Jensen.
- b. Facilities Committee (to develop a plan for new facilities for the department): Jean Civikly, Timothy Plax, and R. Wayne Pace.
- c. Media Area Committee (to make an analysis and develop a statement describing the area of province having to do with media covered by the department): Richard Krause, Frank Gerace, and Estelle Zannes.

- d. Library Acquisitions (to review library acquisitions and seek adequate acquisitions to library for the department): Jean Civikly, coordinator.
- e. Studio Management (to supervise TV studio operations): Frank Gerace, Manager.
- f. University Forensics (to direct intercollegiate forensics): Dan DeStephen, Director.
- g. Public Information (to disseminate information to the public through regular channels): Sandra Corless, Coordinator.
- h. Fall Ball (to plan and organize a Fall social event for departmental faculty, graduate students, and undergraduate majors and minors): Richard Jensen, with graduate assistants, coordinator.
- i. Spring Fling (to plan and organize a social event in the Spring to recognize outstanding contributions and performance): Gene Fowler, coordinator.
- j. Institute for Organizational Communication (described above): Paul Feingold, Director.

8. Appointments to University Committees.

Four faculty received appointments to University-wide committees: R. Wayne Pace, Chairman, Continuing Education; Lawrence Rosenfeld, member, Graduate Committee; Richard Krause, member, Radio Board; Estelle Zannes, member, Publications Board. Estelle Zannes was also a member of the Arts and Sciences Promotion Review Committee.

9. Name Change for Department

No action was taken during the year on the departmental proposal to change its name to Communication Studies. The department cannot seem to get the administration to commit itself to moving on the proposal.

B. Faculty, Staff, and Assistants of the Department.

1. Faculty

R. Wayne Pace, Professor and Chairman	Ph.D. Purdue
Organizational and Interpersonal Communication	
Estelle Zannes, Associate Professor	Ph.D. Case-Western Reserve
Rhetorical and Telemediated Communication	
Lawrence Rosenfeld, Associate Professor	Ph.D. Pennsylvania State
Interpersonal Communication	
Jean M. Civikly, Assistant Professor	Ph.D. Florida State
Interpersonal Communication and Educational Methods	
Richard J. Jensen, Assistant Professor	Ph.D. Indiana
Rhetorical Communication	
Richard M. Krause, Assistant Professor	Ph.D. in progress, Michigan
Telemediated Communication	
Timothy G. Plax, Assistant Professor	Ph.D. Southern California
Interpersonal Communication and Research Methods	
Paul C. Feingold, Assistant Professor	Ph.D. Purdue
Organizational and Interpersonal Communication	
Frank Gerace, Assistant Professor	Ph.D. Texas
Telemediated Communication	
Daniel DeStephen, Instructor	Ph.D. Utah
Rhetorical Communication and Forensics	
Sandra L. Corless, Lecturer	M.A. New Mexico
Interpersonal Communication	
Gene Fowler, Part-time Lecturer	M.A. New Mexico
Interpersonal Communication	

2. Staff

May Polivka, Departmental Secretary

Cathy Retzlaff, Staff Secretary

Richard Steinberg, Studio Technician

3. Graduate Assistants

Rona Bauman (Sem. I)	101 Assistant
Thomas F. Daly	102 and 130 Assistant
Lili Glassman	265 Assistant
Dennie Salazar	221 and Forensics Assistant
Farrel Udell (Sem. II)	240 and 130 Assistant

4. Work-Study Students

Carolyn Koval, Forensics Secretary
 Fredrick Hoeke, Telecom. Assistant
 Greg Rosenberg, Telecom Assistant

5. Faculty Appointments, Effective August 1976

Richard J. Jensen	Assistant Professor
Frank A. Gerace	Assistant Professor
Daniel DeStephen	Instructor

6. Faculty Separations, Effective June 30, 1977

Richard M. Krause	Resigned to accept position with New Mexico Public Service Company
Sandra L. Corless	Terminal contract, employment unknown

7. Foreign Assignment, Effective June 30, 1977

Prof. Frank A. Gerace accepted an 18-month appointment as director of a rural development project in radio with the government of Bolivia, South America, through a contract with the College of Education, University of New Mexico.

C. Faculty Accomplishments: January 1 - December 31, 1976

1. Advanced Study

Daniel DeStephen. Ph.D. requirements completed, University of Utah.

Paul C. Feingold. Ph.D. completed (May 1976), "Toward a Paradigm of Effective Communication: An Empirical Study of Perceived Communication Effectiveness," Purdue University.

Certified as Organizational Communication Auditor, Division IV, International Communication Association.

Frank A. Gerace. Ph.D. completed, December 1976, University of Texas at Austin.

Richard M. Krause. Progress toward Ph.D. degree, University of Michigan.

R. Wayne Pace. Certified as Organizational Communication Auditor, Division IV, International Communication Association.

2. Sabbaticals, Leaves of Absence, etc.

None.

3. New scholastic honors, fellowships, etc.

R. Wayne Pace. Received Meritorious Service Award in Interpersonal Communication from Department of Communication, Brigham Young University.

4. Publications

Jean M. Civikly.

WITH WORDS UNSPOKEN: THE NONVERBAL EXPERIENCE. New York: Holt, Rinehart and Winston, 1976. Co-author: Lawrence B. Rosenfeld.

"A Case for Humanizing Behavioral Objectives," Communication Education, 1976, Vol. 25, pp. 231-236.

"WSCA Women's Citation Index," WSCA Newsletter, February 1976.

Paul C. Feingold.

"Critique - "Introduction to Human Communication," Communication Quarterly, Spring 1976, p. 43.

"Curricula in Organizational Communication," Communication Education, November 1976. (Co-author: R. Wayne Pace)

Facilitator's Handbook: The People's Forum on Education. Albuquerque: University of New Mexico Press, 1977.

Richard J. Jensen.

"Disraeli's Trilogy: Literature as Political Rhetoric," Kentucky Journal of Communication Arts, Spring, 1976, Vol. 7, No. 1, pp. 22-27.

"Henry Cruger: The First American to Speak to the House of Commons, 1774-1780," New Mexico Communication Journal, Fall 1976, Vol. 3, No. 1, pp. 13-25.

"Leadership in Contemporary American Labor Unions: Adaptation and Renewal," Communication Quarterly (in press).

R. Wayne Pace.

"Curricula in Organizational Communication," Communication Education, November 1976. (Co-author: Paul C. Feingold)

"An Experiential Approach to Teaching Organizational Communication," Journal of Business Communication, Fall 1976.

Timothy G. Plax.

"Correlates of Risky-Decision Making," Journal of Personality Assessment, 1976, Vol. 40, No. 4, pp. 413-418.

"Student Responses to Transactional Stimuli," Transactional Analysis Journal, 1976, Vol. 6, No. 2, pp. 213-216.

"Dogmatism and Decisions Involving Risk," Southern Speech Journal, 1976, Vol. 41, No. 33, pp. 266-277. (Co-author: Lawrence B. Rosenfeld).

Lawrence B. Rosenfeld.

"Personality, Sex, and Leadership Style," Communication Monographs, 1976, in press.

"Clothing, Personality, and Sex," Journal of Communication (In press).

"Body Accessibility: A Decade Later," Journal of Communication, 1976, Vol. 26, 27-30.

(continued on next page)

4. Publications (continued)

Lawrence B. Rosenfeld (cont'd)

"Correlates of Risky Decision Making," Journal of Personality Assessment, 1976, Vol. 40, pp. 413-418.

"Dogmatism and Decisions Involving Risk," Southern Speech Communication Journal, 1976, Vol. 41, pp. 266-277. Co-author: Timothy G. Plax.

NOW THAT WE'RE ALL HERE . . . RELATIONS IN SMALL GROUPS. Columbus, Ohio: Charles E. Merrill Co., 1976.

WITH WORDS UNSPOKEN: THE NONVERBAL EXPERIENCE. New York: Holt, Rinehart and Winston, 1976. Co-author: Jean Civikly.

Estelle Zannes.

POLICE COMMUNICATION: HUMAN AND HARDWARE. Davis Publishing, December 1976.

STAND UP, SPEAK OUT, Addison-Wesley Publishing Co. (in press). Co-author: Gerald M. Goldhaber.

"Women in the Early Radio Daze," New Mexi Com, Vol. 3, No. 1, Fall 1976.

"Presidential Debates: Round 1: Media Were the Winners." Albuquerque Journal, Saturday, September 25, 1976.

"Carter-Ford Debate Round 2: A Search for Man of Trust." Albuquerque Journal, October 8, 1976.

"Language Key to Debate." Albuquerque Journal, October 15, 1976.

"Yes for Two TV Ads have Winning Ingredients." Albuquerque Journal, November 1, 1976.

5. Other research projects or creative work in progress or completed

Jean M. Civikly.

Preparation of Manuscript: MESSAGES: A READER IN HUMAN INTERACTION, 2nd ed. New York: Random House. In press, 1977.

Non-sponsored research: nonverbal communication, self-disclosure in educational settings.

Paul C. Feingold.

Communication Analysis St. Joseph Hospital.

Development of the Institute for Organizational Communication.

"Vocal and Nonvocal Deception in the Interview Situation."

"Supervisory Perceptions of Communication Problems Within Organizations."

"Critical Analysis of Education in the State of New Mexico."

Richard J. Jensen.

Grant from Faculty Resource Allocation Committee, University of New Mexico to study "Southwest Rhetoric," \$700.00, terminates June 1, 1977.

R. Wayne Pace.

IN THE ORGANIZATION, textbook contracted with Canfield Press. COMMUNICATION TECHNIQUES, textbook contracted with Addison-Wesley Publishers.

COMMUNICATION PROBES II, second edition of textbook contracted with Science Research Associates.

(continued on next page)

5. Other research projects or creative work in progress

R. Wayne Pace (cont'd)

"Communication Climate and Organizational Satisfaction," article submitted to the Journal of the Academy of Management. (Co-author: B.D. Peterson).

"Interview and Client Behaviors in Supportive and Defensive Interviews," article accepted for publication in the Communication Yearbook of the International Communication Association; paper was selected as one of the top three in Division IV for the ICA annual conference in Berlin, West Germany. (Co-authors: Jean M. Civikly and Richard M. Krause).

"Consulting Opportunities for Speech Communication Faculty," article submitted to the Western Speech Communication Journal.

Timothy G. Plax

"Counterattitudinal Communication as Role Enactment: Toward a Socially-Relevant Explanation of Self-Persuasion."

"Encoding Behaviors of Persons Indicating a High Level of Communication Apprehension."

"Individual Differences and Attitude Change as a Function of Role Enactment."

"The Use of Words by Autocratic and Democratic Leaders."

"Dogmatism and the Construction of Messages."

"Antecedents of Empathy."

Lawrence B. Rosenfeld

Current research: self-concept and self-disclosure in college students; male and female leadership.

Estelle Zannes

Translating Greek plays, continuing research in contemporary Greek theatre.

Black politics in America: research on black mayors continuing.

6. Activities in learned and professional societies

Jean M. Civikly

Board of Directors, International Communication Association, April 1976, Portland, Oregon.

Western Speech Communication Association, November 1976, San Francisco, "WSPA Women's Citation Index: Report to the Executive Council."

Vice-President, New Mexico Communication Association, November 1976.

Paul C. Feingold

Attended International Communication Association: Chairperson, "Methodological Advances in Organizational Communication." Presented paper, "Development of an Interdisciplinary Energy Curriculum."

Attended Western Speech Communication Association: presented papers "Conducting the ICA Communication Audit" and "Using the ICA Communication Audit as a Teaching Tool." Critic for competitive papers program.

Attended New Mexico Communication Association, presented paper "Synopsis ICA Audit."

6. Activities in learned and professional societies

Richard J. Jensen

"The Struggle for Freedom of Speech among the Miners: Jock Yablonski's Campaign for the UMW Presidency," a paper presented at the Western Speech Communication Association Convention, November 1976.

"The Miners for Democracy," a paper presented at the Speech Communication Association Convention, December 1976.

"Labor's Communication in the 1976 Election," a paper read at the New Mexico Communication Association meeting, November 1976.

"A Bibliography of New Mexican Rhetoric," a paper presented at the New Mexico Communication meeting, November 1976.

R. Wayne Pace

Second Vice-President, Western Speech Communication Association.

"An Experiential Approach to Teaching Organizational Communication," a paper presented at the International Communication Association convention, Portland, Oregon, May 1976.

"A Model of Serial Communication," a paper presented at the New Mexico Communication Association meeting, November 1976.

Chairman, committee on certification of speech communication teachers, New Mexico Communication Association.

Chairman, committee on the history of rhetoric in New Mexico, New Mexico Communication Association.

"A Rationale for a Scientific Approach to the Basic Course," a paper presented at the Western Speech Communication Association convention, San Francisco, California, November 1976.

"Using Simple Experiments in Teaching Communication," a paper presented at the Western Speech Communication Association convention, San Francisco, California, November 1976.

"Maintaining Programs and Departments in the '70's," a paper presented at the Western Speech Communication Association convention, San Francisco, California, November 1976.

Chairperson of program on "Applications of Linguistic Research to Speech Communication Instruction," Western Speech Communication Association convention, San Francisco, Calif., November 1976.

Timothy G. Plax

Attended New Mexico Communication Association meetings, Spring and Fall 1976.

Attended Western Speech Communication convention, Fall 1976.

"Anxiety Arousing Messages and Ego Involvement as Determinants of Communicative Predispositions," a paper presented at the Speech Communication Association convention, December 1976.

"Antecedents of Male and Female Attitude Change," a paper presented at the Western Speech Communication convention, November 1976.

"Counterattitudinal Communication as Role Enactment: Toward a Socially-Relevant Explanation of Self-Persuasion," a paper presented at the Western Speech Communication Convention, November 1976.

6. Activities in learned and professional societies

Lawrence B. Rosenfeld

"Antecedents of Male and Female Attitude Change," a paper presented at the Western Speech Communication Association convention, November 1976.

"Personality, Sex and Leadership Style," a paper presented at the Speech Communication Association convention, December 1976.

Chairperson, WSCA Time and Place Committee, 1976.

Associate Editor, Communication Education.

Estelle Zannes

"Campaign 1976: New Mexico," a paper presented at the New Mexico Communication Association meeting, November 1976.

7. Other professional activities

Jean M. Civikly

Workshops: "Communication and Cultural Diversity in the College of Nursing," College of Nursing, University of New Mexico, September 20, 1976; "Cultural Values in New Mexico," New Mexico Home Economics Student Workshop, University of New Mexico, October 9, 1976.

Paul C. Feingold

Consultancies: Governor, State of New Mexico; State of New Mexico Health and Social Services Department; The People's Forum on Education; Albuquerque National Bank, N.M.; Office of Manpower Administration; Bernalillo County Magistrate Court; U.S. Department of Defense; U.S. Civil Service Commission, Public Service Company of New Mexico; Optomist; State of New Mexico Department of Motor Vehicles.

Frank A. Gerace

Consultancy with Family Health Center, Albuquerque, in the preparation of a staffing proposal submitted to Alternate Media Center of New York City. This association had to do with design of a community media component for the Health Center.

R. Wayne Pace

Consultant on interpersonal communication, Animal and Plant Health Inspection Service, Department of Agriculture, Albuquerque, N.M. and Ames, Iowa.

Consultant on presentations, Sandia Laboratories, Albuquerque and Livermore, California.

Consultant on team building, National Fire Generalship program, National Fire Training Center, Marana, Arizona.

Consultant on analyzing communication in organizations, University of Puget Sound, Tacoma, Washington.

Lawrence B. Rosenfeld

"Humanizing Technical-Vocational Education," keynote address presented to faculty of T.V.I. in Albuquerque.

"Organizational Communication Problems," address presented to New Mexico Supervisors and Professional Assoc. 1976.

"A Case for Conflict," presented to a meeting of the American Society of Mechanical Engineers, Albuquerque, 1976.

7. Other Professional Activities

Estelle Zannes

Four appearances as Hostess on Governor's Report: KNME-TV.
 Philosophers Club: "Campaign '76," Guest Speaker,
 November 18, 1976.

Sandia Labs: Guest Speaker on "Communication Barriers."
 Consultancies: UNM Campus Police, Native American
 Materials Center.

8. Non-teaching University service

Jean M. Civikly

Library Liaison, Department of Speech Communication.

Paul C. Feingold

Member, University Committee for the Development of an
 Interdisciplinary Program in Energy Development.

Member, Speech Communication Department Advisory
 Committee.

Director, Speech Communication Department Institute
 for Organizational Communication.

Frank A. Gerace

Extensive responsibilities involved with the design,
 maintenance and expansion of the telecommunication studio
 facilities at 1801 Rpm (Speech Communication Department).

Relations with UNM express properties in the acquisition
 of technical material.

Cooperation with visiting Bolivian professors through
 the Latin American Project in Education (UNM College of
 Education). Invited lecture to the group participating
 in Educational Administration Training course.

Richard J. Jensen

Member, Graduate Committee, Speech Communication Department.

R. Wayne Pace

Chairman, Continuing Education Committee, University of
 New Mexico.

Chairman, Department of Speech Communication.

Departmental Undergraduate Advisor; Advisor, Speech
 Communication Graduate Student Assn.

Timothy G. Plax

Member, College of Education Graduate Committee.

Member of two Master's Thesis Committees.

Member of two doctoral Candidacy and Planning Committees,
 College of Education.

Member of one Doctoral Comprehensive Examination Com-
 mittee, College of Education.

Lawrence B. Rosenfeld

Member, Graduate Committee, 1976-1977.

Faculty advisor to graduate and undergraduate students.

8. Non-teaching University service

Estelle Zannes

Member, Publications Board
 Member, A & S Promotion Committee
 Faculty advisor for graduate students, Department of
 Speech Communication.

9. Public Service

Paul C. Feingold

Member, Governor's Commission on Valor.
 Member, Governor's Commission on Citizenship.

R. Wayne Pace

High Councillor, Albuquerque, New Mexico Stake,
 Church of Jesus Christ of Latter-day Saints.
 Chairman, Program Committee, Albuquerque Kiwanis Club.

Timothy G. Plax

Lecture to Delta Delta Delta Sorority on Group Problem
 Solving.

Lecture (topic: Conflict Resolution) to field-based
 teacher education staff and coordinators: Navajo Teacher
 Education Program.

Lecture to Parents Without Partners Conference on
 Personal Decision Making.

Lecture to Bay (California) League Forensic Banquet on
 the Current State of the Communications Field.

Lawrence B. Rosenfeld

Consultant to The People's Forum on Education.

10. Personal Information

None reported.

D. Annual Report on University Forensics

Dan DeStephen, Director

Dennie Salazar, Debate Assistant

Introduction.

The University of New Mexico conducts an active forensics program with emphasis on providing students with a variety of speaking opportunities. Students this year became involved in forensics competition on the college level, judging and coaching on the high school level, and service to various community organizations. One goal of the program was to allow the students to become acquainted with forensics as an activity and as an educational experience. Another goal was to increase the level of University-community interaction. The following is a report on both goals.

Participation.

Over 100 students participated in some capacity in forensics this year at the University of New Mexico. Students may receive credit for forensics by taking Speech Communication 275 and 375. Enrollment in these two courses totaled 75 students over both semesters. In addition to these students, those enrolled in argumentation (Speech Com. 230) participated as judges of high school speech contests.

Activities

Forensics at the University incorporates five general classes of activities: high school judging, college competition, community judging, community demonstrations, and high school coaching. High school judging involves the use of college forensic students as judges of high school forensic competition. Our students were involved in judging over 17 different high school tournaments throughout the state of New Mexico. In addition to judging at high school tournaments, the forensic program hosted the New Mexico High

State Speech Tournament. This tournament selects the best high school speech students in the State of New Mexico for competition at the National Forensic League's National Speech Tournament.

College competition encompasses a variety of speech activities including debate, oratory, extemporaneous speaking, informative speaking, expository speaking, oral interpretation, and impromptu speaking. Our students travel to different colleges and universities in the intermountain West to compete against other colleges. This year the University of New Mexico attended 15 college tournaments:

1. The University of Utah Fall Scrimmage
2. The Top of the Rockies Invitational (University of Wyoming)
3. The University of Northern Colorado Invitational
4. The Texas Tech Invitational
5. The Sun Devil Classic (Arizona State University)
6. The Pike's Peak Invitational (Colorado College)
7. The Eastern New Mexico Invitational
8. The United States Air Force Academy Invitational
9. The Greeley Freeze (University of Northern Colorado)
10. The Great Salt Lake Invitational (University of Utah)
11. The University of Southern Colorado Invitational
12. The USC-Loyola Winter Invitational (Univ. of Southern Calif.)
13. The Desert Invitational (University of Arizona)
14. The Rocky Mountain Championship (Metropolitan State)
15. The DSR-TKA National Tournament (University of Utah)

Our community judging this year involved evaluating sectional contests for the Optimists Clubs within the city of Albuquerque and for the Industrial Cooperative Training Skills Olympics. Our community demonstrations included sending our forensic students to present their competitive speeches to various high school speech class within the city and to various classes at the University of Albuquerque. Our high school coaching this year involved a number of forensic students helping local high school forensic coaches with the directing of their programs.

Awards

The University of New Mexico students won a number of awards

in competition against students from other universities. The following is a list of awards won by the University of New Mexico forensic students this year:

1st Place Awards:

- 1st Place, Debate, The Colorado College
- 1st Place, Debate, Eastern New Mexico
- 1st Place, Persuasive Speaking, Eastern New Mexico
- 1st Place, Impromptu Speaking, Eastern New Mexico
- 1st Place, Debate, University of Southern Colorado
- 1st Place, Declamation Speaking, University of Arizona
- 1st Place, Oratory, Metropolitan State University
- 1st Place, Extemporaneous Speaking, DSR-TKA National Tournament

2nd Place Awards:

- 2nd Place, Debate, University of Utah Scrimmage
- 2nd Place, Persuasive Speaking, Texas Tech
- 2nd Place, Oratory, The Colorado College
- 2nd Place, Persuasive Speaking, Eastern New Mexico
- 2nd Place, Expository Speaking, University of Southern Colorado
- 2nd Place, Oral Interpretation, University of Arizona
- 2nd Place, Extemporaneous Speaking, University of Arizona

3rd Place Awards:

- 3rd Place, Debate, University of Utah Scrimmage
- 3rd Place, Oratory, The Colorado College
- 3rd Place, Extemporaneous Speaking, Eastern New Mexico
- 3rd Place, Oral Interpretation, The Colorado College
- 3rd Place, Debate, Great Salt Lake (University of Utah)
- 3rd Place, Extemporaneous Speaking, Great Salt Lake
- 3rd Place, Expository Speaking, Great Salt Lake
- 3rd Place, Oratory, Metropolitan State University
- 3rd Place, Oral Interpretation, Metropolitan State University

4th Place Awards:

- 4th Place, Debate, Texas Tech
- 4th Place, Debate, University of Southern Colorado
- 4th Place, Debate, University of Arizona
- 4th Place, Debate, Metropolitan State University
- 4th Place, Extemporaneous Speaking, Texas Tech
- 4th Place, Extemporaneous Speaking, The Colorado College
- 4th Place, Oral Interpretation, The Colorado College
- 4th Place, Oratory, University of Northern Colorado
- 4th Place, Expository Speaking, Great Salt Lake
- 4th Place, Oral Interpretation, Great Salt Lake
- 4th Place, Oral Interpretation, Univ. of Southern Colorado

5th Place Awards:

- 5th Place, Debate, The Colorado College
- 5th Place, Extemporaneous Speaking, The Colorado College
- 5th Place, Oratory, The Colorado College
- 5th Place, Impromptu Speaking, University of Arizona
- 5th Place, Pentathlon, Eastern New Mexico
- 5th Place, Debate, University of Arizona

6th Place Awards:

- 6th Place, Debate, University of Wyoming
- 6th Place, Debate, The Colorado College
- 6th Place, Debate, University of Southern Colorado
- 6th Place, Debate, United States Air Force Academy

Sweepstakes Awards:

- 2nd Place, Metropolitan State University
- 3rd Place, Eastern New Mexico
- 4th Place, University of Southern Colorado
- 5th Place, The Colorado College

Special Awards:

- The University of New Mexico ranked 18th in the entire nation in Cross-Examination Debate (CEDA).

Future Directions

The forensic program in the future will continue to emphasize the goals outlined in the introduction to this report. This summer the University of New Mexico will conduct a summer workshop for high school students and coaches in debate. Next year, University Forensics will host both a high school and college forensic tournament at the University. We also hope to expand the opportunities for students to participate in college competition through attending additional tournaments in the Intermountain West.

II. Recommendations and Plans for the Future.

A. Recommendations.

1. Accept the "mission" of the department and allow the department to carry out its mission to the best of its ability, without punitive measures such as cutting faculty when enrollments are increasing.
2. Provide new instructional facilities for the department.
3. Change the name of the department to Communication or Communication Studies.

B. Plans

1. Strengthen the graduate program by raising standards and engaging in a more intensive recruitment effort.
2. Provide stronger preparation for majors and minors through an improved honors program and a broader internship program.
3. Expand the number of faculty in each area of the department.
4. Sponsor a Communication Week to be held during the week of February 20-25, 1978.
5. Improve placement opportunities for graduates by developing liaison with employers.
6. Seek grant money to expand the television program and to strengthen the organizational communication program.

APPENDIX

Department of Speech Communication
SUGGESTED COURSES FOR A PROGRAM LEADING TO
CAREERS IN ORGANIZATIONAL COMMUNICATION AND MANAGEMENT

REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
SpCom 101, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
SpCom 101, Introduction to Speech Communication.

RECOMMENDED SPEECH COMMUNICATION COURSES

101	Introduction to Speech Communication	3
221	Interpersonal Communication	3
225	Problem Solving Groups	3
240	Communication in Organizations	3
327	Persuasive Communication	3
348	Communication Audit	3
350	General Semantics	3
421	Theories of Communication	3
425	Small Group Communication	3
442	Strategies of Organizational Communication	3
444	Interviewing	3
464	Telemediated Instruction	<u>3</u>
		36 credits

Complementary Courses in OTHER PROGRAMS

Business and Administrative Sciences

306	Organizational Behavior I (by permission only)	3
307	Organizational Behavior II (by permission only)	3
308	Organizational Environment	3
322	Marketing Management	3
361	Organization Theory	3
464	Labor Law and Collective Bargaining	3
466	Advanced Concepts and Problems in Org. Behavior	3
487	Marketing Communication	3

Public Administration

421	Introduction to Public Management	3
424	Intergovernmental Administrative Relations	3

Sociology

441	Formal Organizations	3
445	Occupations and Professions	3
461	Social Change	3

Political Science

305	Public Opinion	3
-----	----------------	---

Guidance and Counseling

430	Dynamics of Human Behavior	3
431	Theories of Human Interaction	3

Psychology

270	Interpersonal Relations	3
371	Social Psychology	3
413	Industrial Psychology	3

Department of Speech Communication

SUGGESTED COURSES FOR A PROGRAM LEADING TO

CAREERS IN INTERPERSONAL COMMUNICATION and the HELPING PROFESSIONS-----
REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
SpCom 101, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
SpCom 101, Introduction to Speech Communication.

RECOMMENDED SPEECH COMMUNICATION COURSES

101	Introduction to Speech Communication	3
221	Interpersonal Communication	3
225	Problem Solving Groups	3
321	Intercultural Communication	3
323	Nonverbal Communication	3
327	Persuasive Communication	3
350	General Semantics	3
421	Theories of Communication	3
423	Advanced Nonverbal Communication	3
425	Small Group Communication	3
428	Communication Research	3
444	Interviewing	<u>3</u>
		36 credits

Complementary Courses in OTHER PROGRAMS

Anthropology

102. Development of Culture	3
308 Psychological Anthropology	3

Educational Foundations

300 Human Growth and Development	3
----------------------------------	---

Guidance and Counseling

415 Foundations of Counseling	3
430 Dynamics of Human Behavior	3
431 Theories of Human Interaction	3

Health, Physical Education and Recreation

311 Man and Leisure	3
---------------------	---

Home Economics

218 Marriage and Personal Development	3
418 Family Relationships	3
443 Family Decision Making	3

Psychology

102 General Psychology II	3
104L 102 Laboratory	1
270 Interpersonal Relations	3
331 Psychology of Personality	3
371 Social Psychology	3
372L Social Psychology Laboratory	2

Sociology

101 Introduction to Sociology	3
216 Race and Cultural Relations	3
225 Structure and Functions of the Family	3
230 Society and Personality	3
435 Small Group Analysis	3
461 Social Change	3

Department of Speech Communication
SUGGESTED COURSES FOR A PROGRAM LEADING TO
CAREERS IN TELEMEDIATED COMMUNICATION and BROADCASTING

REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

RECOMMENDED SPEECH COMMUNICATION COURSES

102	Introduction to Speech Communication	3
221	Interpersonal Communication	3
261	Telecommunication	3
265	Telecommunication Production	3
327	Persuasive Communication	3
361	Telecommunication Evaluation	3
366	Telecommunication Methods	3
	OR	
367	Telemedia Film Production	
421	Theories of Communication	3
425	Small Group Communication	3
461	Telecommunication Strategies	3
465	Advanced Telecommunication Methods	3
466	Writing for the Telecommunication Media	<u>3</u>
		36 credits

Complementary Courses in OTHER PROGRAMS

Architecture

104 Visual Communication 3

Art

287 Photography I 3

386 Photography II 3

387 Photography III 3

388 Cinematic Photography 3

389 Photo Communications 3

487 Advanced Photography 3

Curriculum and Instruction

431 Audiovisual Methods and
Technology 3

432 Prod. of Instruct. Materials 3

Journalism

261 News Photography 3

277 Graphic Design 3

401 Advertising 3

440 News Programming 3

469 Media Management 3

Psychology

101 General Psychology I 3

102 General Psychology II 3

260 Psychology of Learning 3

363 Psychology of Perception 3

Film

210 Introduction to the Film 3

327-328 History of the Film 3

427 Topics in Film History 3

Theatre Arts

129 Stage Craft 3

255-256 Stage Lighting 3

275 Technical Production 3

305 Rehearsal and Performance 3

351 Television Drama Production 3

352 Advanced Telev. Drama Prod. 3

Department of Speech Communication
SUGGESTED COURSES FOR A PROGRAM LEADING TO
CAREERS IN PUBLIC RELATIONS and PUBLIC INFORMATION

REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

RECOMMENDED SPEECH COMMUNICATION COURSES

102	Introduction to Speech Communication	3
130	Public Speaking	3
225	Problem Solving Groups	3
240	Communication in Organizations	3
265	Telecommunication Production	3
327	Persuasive Communication	3
334	Campaigns and Movements	3
350	General Semantics	3
361	Telecommunication Evaluation	3
421	Theories of Communication	3
461	Telecommunication Strategies	3
466	Writing for the Telemedia	<u>3</u>
		36 credits

PUBLIC RELATIONS and PUBLIC INFORMATION

Page 2

Complementary Courses in OTHER PROGRAMS

Journalism

100	Intro to Mass Communication	(3)
251	News Writing and Reporting	(3)
252	News Writing and Reporting	(3)
261	News Photography	(3)
322	Law of the Press	(3)
401	Advertising	(3)
402	Advertising Campaigns	(3)

Business and Administrative Sciences

487	Marketing Communication	(3)
-----	-------------------------	-----

Political Science

305	Public Opinion	(3)
-----	----------------	-----

Department of Speech Communication
SUGGESTED COURSES FOR A PROGRAM LEADING TO
CAREERS IN LAW, GOVERNMENT, and PUBLIC AFFAIRS

REQUIREMENTS:

Major -- 36 semester credits; 21 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication.

Minor -- 18 semester credits; 12 credits of 300 and 400 level courses.
SpCom 102, Introduction to Speech Communication

RECOMMENDED SPEECH COMMUNICATION COURSES

102	Introduction to Speech Communication	3
130	Public Speaking	3
225	Problem Solving Groups	3
231	Advanced Public Speaking	3
327	Persuasive Communication	3
331	Argumentation	3
332	Southwest Rhetoric	3
334	Campaigns and Movements	3
336	Revolutionary Rhetoric	3
338	Rhetorical Criticism	3
431	Rhetorical Theory	3
436	Famous Speeches	<u>3</u>
		36 credits

Complementary Courses in OTHER PROGRAMS

American Studies

221	Southwest Indian Life Styles	3
231	Women's Exper. in U.S.	3
241	The Chicano Exper. in U.S.	3
321	Indians in a Multicult. Sett.	3
341	History of Conflict in N.M.	3

Anthropology

308	Psychological Anthropology	3
345	Spanish Speaking People of the Southwest	3
352	Primitive Literature	3
399	Comparative Value Systems	3

English

296	American Literature	3
220	Expository Writing	3
410	Literary Criticism	3

History

100	The Making of the Mod. World	3
161-162	History of U.S.	3
260	History of New Mexico	3
283	LaRaza: A History of Mexican-Americans	3
284	Afro-American History	3
304	Revolution in History	3
316	Women in the Modern World	3
369	American Indian History	3
380-381	History of Southwest	3

Journalism

100	Intro to Mass Communications	3
301	Hist. of Journalism in U.S.	3
401	Advertising	3
494	Mass Media as a Social Force	3

Philosophy

100	Intro. to Philosoph. Probs.	3
101-102	Humanities	3
105	Intro. to Chicano Thought	3
145	Thought and Expression	3
201	Ancient European Philosophy	3
202	Modern European Philosophy	3
256	Introduction to Logic	3
358	Ethical Theory	3
367	Philosophy of Art and Aesthetics	3
445	Philosophy of Language	3

Political Science

101	Man and Politics	3
200	American Politics	3
260	Political Theory	3
305	Public Opinion	3
307	The Politics of Ethnic Groups	3
308	Chicano Politics	3
309	Black Politics	3

Psychology

101	General Psychology I	3
102	General Psychology II	3

Architecture

101	Intro. to Architecture	3
104	Visual Communications	3

Art History

101	Art Appreciation	3
402-403	Native American Art	3
425	19th Century Photography	3
426	20th Century Photography	3
450	Spanish Colonial Art	3

Department of Speech Communication
A PROGRAM OF STUDY LEADING TO CAREERS IN EDUCATION
AND HIGH SCHOOL TEACHING

REQUIREMENTS:

Major -- 36 semester credits, with a minimum of 21 credits of 300-400 level courses.

- 101 or 102 Introduction to Speech Communication
- 130 or 231 Public Speaking or Advanced Public Speaking
- 225 or 331 Problem Solving Groups or Argumentation
- 261 Telecommunication
- 270 Communication for Teachers
- 324 or 326 Nonverbal Communication or Intercultural Communication
- 327 or 332 Persuasive Communication or Southwest Rhetoric
- 350 or 338 General Semantics or Rhetorical Criticism
- 421 or 431 Theories of Communication or Rhetorical Theory
- 444 or 449 Interviewing or Communication Practices in Professions
- 470 Speech Communication in the Secondary Schools
- 472 Administration of the Forensic Program

Minor -- 24 semester credits with a minimum of 12 credits of 300-400 level courses.

- 101 or 102 Introduction to Speech Communication
 - 225 or 331 Problem Solving Groups or Argumentation
 - 261 Telecommunication
 - 270 Communication for Teachers
 - 327 or 332 Persuasive Communication or Southwest Rhetoric
 - 421 or 431 Theories of Communication or Rhetorical Theory
 - 470 Speech Communication in the Secondary Schools
 - 472 Administration of the Forensic Program
-

The Report of the Division of Inter-American Affairs
July 1, 1975--June 30, 1977
Martin C. Needler, Director

A. Significant Developments

1. The following number of degrees were awarded during the report period:

B.A.	8	M.A.	7
------	---	------	---
2. Enrollment during the report period reached the number of 27 graduates and 25 undergraduates.
3. A great deal of effort and attention was devoted to the contract research for the State Department described below.
4. The degrees offered jointly with the School of Business Administration, the B.A./B.B.A. and the M.A./M.B.A., went into full operation. The programs have been well received by students and have occasioned considerable interest nationally.
5. The Division co-sponsored lectures by Professor Roderic Camp of Central College, Iowa, and Dr. Enrique Pérez Olivares, former Minister of Education of Venezuela.
6. Together with S.O.L.A.S., the Student Organization for Latin American Studies, and the Latin American Center, the Division sponsored a highly successful conference on "Repression, Revolution and United States Policy in

Latin America" on April 22 and 23. A number of distinguished guests participated together with UNM faculty, and the sessions received a great deal of attention in the local media. The sessions were open to the public and were very well attended.

7. The Division collaborated with a task force appointed by President Davis to review the status of the university's programs in the Latin American area and make new proposals. A proposal was drawn up for a new organizational structure involving an Institute for Latin American Studies. The fate of the proposal is unknown at the present time, although the failure to implement previous reorganization proposals makes the fate of this one problematic.

B. Staff Changes

1. Mrs. Linda Bahm resigned as secretary, effective July 14, and was replaced on September 17 by Ms. Susan Williams.
2. Dr. Jan Knippers Black of American University and Dr. Dale Goldsmith of McPherson College served as Visiting Scholars attached to the Division during the report period. Dr. Black also served as Research Associate, working on the State Department research contract described below.

3. Professor Nelson Valdés of the Department of Sociology served as Acting Director of the Division during the 1977 summer session.

C. Future Plans

1. The Division intends to assume a greater role in stimulating associated faculty to secure outside research contracts and grants and hopes to be able to schedule a workshop with that objective early in the fall of next year.
2. It would be highly desirable to inaugurate an interdisciplinary introductory course to Latin America at the freshman-sophomore level. A prospectus for such a course has been drawn up, but since it would unavoidably involve additional funding, the project has met so far only with moral support. An attempt will be made during the coming year to secure outside funding.

D. Professional Activities

1. The Director, Dr. Needler, gave the University's Annual Research Lecture on April 21. His publications and other professional activities are reported in detail in the Annual Report of the Political Science Department, as are those of the Assistant Director, Dr. Remmer, who also served as a member of the Faculty Senate

during the report period.

2. Dr. Black's outside professional activities were extensive. She attended meetings of the International Political Science Association in Edinburgh in August, the Pacific Coast Council on Latin American Studies in Tucson in October, and a conference on the Latin American military in Caracas in June, and presented a paper "A Populist Looks at Modernization and Development Theory" at the meeting of the Rocky Mountain Council on Latin American Studies in Tucson in April. She conducted trips for purposes of research to Haiti in September and Ecuador, Argentina, Chile, and Peru in January. She lectured on "Destabilization: How the United States Gets Rid of Governments It Doesn't Like" at Central College in Iowa, and chaired a sub-committee on professional ethics of the Latin American Studies Association. Also during the report period, her book United States Penetration of Brazil, published by University of Pennsylvania Press, appeared as well as two books which she edited, The Area Handbook on Trinidad and Tobago, and The Area Handbook on Cuba, both published by the Government Printing Office for the Foreign Area Studies Program.

E. Outside-sponsored Research

- The Division received a research contract from the U.S.

Department of State for \$21,751. The grant was for one year and was to result in a report to the Department on the petroleum policies of the Latin American oil producing states. Principal investigator was Dr. Needler; Dr. Black was project coordinator; associated investigators were Professor Lieuwen of the History Department and Professors Williams and Meyer of the University of Arizona. A State Department visit was made to the Division in connection with the contract and Drs. Black and Needler conducted a colloquium at the Department of State outlining their conclusions, which, together with background papers, will be included in a major published report.

The Report of the Latin American Center
July 1, 1976 - June 30, 1977
Marshall R. Nason, Director

A. Significant Developments during the Academic Year 1976-77.

Though detailed budgetary analysis is not normally a component of the Annual Report, the shiftover from soft to hard money occasioned by the loss of federal support has had a major impact on the operation of the Latin American Center during the year just concluded. Despite the crass disregard of conflict of interest ethics involved in that loss,⁽¹⁾ it has not been possible successfully to penetrate the bureaucratic morass and secure redress. HEW becomes highly exercised over what it alleges to be transgressions by universities and colleges but shows little compunction or conscience about perpetrating abuses itself.

In the face of this setback at the hands of the federal bureaucracy, it became necessary to solicit additional State appropriated funds to sustain minimal Center operations. The aggregate of federal and State money during the preceding year had been \$97,680, of which \$75,000 was federal and \$22,680 State. In order to meet certain program commitments for the 1976-77 fiscal year (for which the State allocation had been set at \$35,300 prior to information on loss of federal support), it was necessary to plead for a small budget supplement, bringing the operating total for the year to \$37,800, or almost \$60,000 below the 1975-76 figure. While this had been sufficient to maintain some essential services, it has been necessary to discontinue support of certain instructional programs many of which had enjoyed a measure of assistance for as much as ten years. Additionally,

¹Of the ten universities awarded Latin American Centers, three had representatives on the panel reviewing proposals. All three of these received awards for the first time!

it was necessary to limit, and in some cases suspend, other types of support services.

A number of such items, particularly in the line of salaries and materials, have been assumed by appropriate University departments or other entities. Among the most important of these are: partial salary supports for faculty engaged in developing Latin American curricula in the Anderson School of Business and Administrative Sciences; foreign travel for faculty developing new programs in international management and foreign trade; procurement of maps and visuals for such programs of instruction; teaching assistants for the Latin American Studies 250 course entitled "Latin America through Film"; salary for lecturer and field director in Urban Planning for the Andean Center, Quito; partial salary support for the Ibero-American bibliographer, Zimmerman library; partial salary support for the Latin American cataloguer, Zimmerman library; funds for library acquisitions in the Ibero-American area.

Certain other features had to be deleted completely. These include: the position of graduate assistant to the director, Latin American Center; a half-time salary for faculty and staff tutorials in intensive Spanish; funding for "outreach" programs designed to stimulate the teaching of Latin American subjects in the public schools; visiting Latin American professorships; and a substantial portion of funds for lectures, symposia and other enrichment programs.

Regrettably, and until such time as additional funding can be obtained from outside sources, the Center's capacity to assist in the implementation of new programs will be sharply curtailed, energies being directed more to grantsmanship than to innovation.

A second serious problem faced during the 1976-77 academic year was the status of the Andean Center. We have thus far been unable to convince the BEF of our contention that attendance at the Andean Center is, for those enrolled in Latin American Studies and affiliated courses, a laboratory experience directly tied to on-campus instruction in the same sense as off-campus anthropology field sessions which are accorded funding for credit hours generated. Thus deprived of the per capita State allocation, and in view of existing financial strictures, the central administration urged discontinuation of the program. The Center director travelled to Quito to apprise the instructional and administrative staffs of the impending termination, announcing a June 30, 1977 shutdown in the event that no solution were forthcoming. Meanwhile, expressions of concern from other New Mexico institutions of higher learning, notably NMSU and NMHU began to suggest the potential for a statewide consortium arrangement. For a time it appeared that the BEF had espoused the concept of a facility to be operated for all State collegiate institutions, and even posited the idea of attaching the Andean Center's budget to that of the BEF. Lamentably, not all of the institutions were willing to accord first priority to this principle, in consequence of which the BEF's ardor cooled, and attention was turned to salvaging whatever inter-institutional enthusiasm remained for some kind of consortium arrangement. Initially four universities, UNM, NMSU, NMHU and ENMU expressed interest, but ENMU was forced by underfunding to relinquish further thoughts of collaboration. In the final analysis, a consortium to be known as "The Andean Center of the Universities of New Mexico" was formed by the three remaining institutions which agreed (See Appendix "A") to provide operational funding in proportion to the quota of students assigned to each. Under this formula

it will be possible to continue the Andean Center into its tenth year of operation in the hope that the consortium arrangement proves successful or that a more rational attitude towards funding of off-campus credit hours will evolve.

In view of the new structure, it was felt appropriate to seek legal status with the government of Ecuador. Accordingly, a revised "Acta Constitutiva" (See Appendix "B") was drawn up and submitted to the three participating institutions for their concurrence and that of their legal counsels prior to presentation to Ecuadorian authorities. The bid for legal status is projected for the month of July, 1977.

In preparation for the program of inter-institutional cooperation, Mr. Garth Hansen, special assistant to the director of the Latin American Center, made trips to Las Cruces and Las Vegas for the purpose of acquainting administrative staffs with the mechanics of the Andean Center program, and to provide initial orientation for students who had evinced interest therein.

Operations

1. A significant development in terms of policy formulation was the function of a Task Force on Latin American programs appointed on May 25, 1976 by President Davis who, in his "State of the University" address had singled out Latin American area studies as one of the long-standing and central concerns of the University of New Mexico. The group, presided over by Dr. Pedro David, chairman of sociology, consisted of the following: Alex Mercure, Associate Provost for Regional and Community Affairs; David Darling, Dean of the College of Education; Marshall R. Nason, Director, Latin American Center; Martin C. Needler, Director, Division of Inter-American Affairs;

Ambrosio Ortega, Director, Latin American Programs in Education; Gerald Slavin, Director, International Programs and Services; Donald Cutter, History; José Sala, Center Research Institute; and Gilbert Merckx, Sociology. Statistical compilations and long committee deliberations led to the formal submission of findings and recommendations which were transmitted to President Davis on December 17, 1976. Prominent among the recommendations was the proposal for a more efficient organization of University resources through the structuring of a Latin American Institute to be supported in policy formulation by a Dean's Advisory Committee and a Faculty Concilium on Latin American Studies which would serve as a general forum for the expression of faculty interest and concern. The report makes additional recommendations concerning inter-institutional cooperation, library liaison, the increased use of Spanish in the instructional program, and policy leadership.

2. Within its relatively limited means the Center has continued to support Latin American programs of instruction with materials and services. Notable among these is the "Latin America through Films" course (Political Science, sociology and Latin American Studies 250) for which film rentals alone required disbursements on the order of \$1,300. Other such assistance included maps and visual aids for new programs in international management and foreign trade. The Latin American Center continues to house the Ibero-American Studies doctoral program and is responsible for all correspondence, student records and advisement pertinent thereto.

3. One of the larger ongoing functions of the Center is the administration of the Andean Center program. This entails budget control, logistics, procurement, staffing, and publicity as well as advisement, testing and orientation of students who have elected to attend the program. In

the past the Center has been responsible, also, for the collaborative arrangement between UNM and Northern Illinois University; as of Semester II it assumed similar duties vis á vis the New Mexico institutions recently brought into the consortium arrangement.

4. The instructional program of the Andean Center has remained essentially unchanged. Fiscal strictures and loss of federal funds (relatively few of which were consigned to the project) have effectively eliminated any U.S. teaching personnel other than the Resident Director who divides his time between administrative and professorial duties. A second effect of fiscal retrenchment has been the virtual elimination of field work emanating from the Andean Center; thus programs in archeology, anthropology and urban planning have necessarily been discontinued. The inability of the College of Education to provide any budgetary support for teacher-training modules at Quito has also led to substantial reduction of activities in that area. Instructional services are rendered basically by host-country specialists or by American scholars temporarily in residence in Ecuador and available for short-term assignments. The latter type of appointment eliminates costly international travel and displacement allowances, while permitting us to hire at rates commensurate with the Ecuadorean cost of living index. The scope of the program is currently very similar to that of its first year of operation, which is to say that it is primarily concerned with Latin American area studies and courses useful to students of language and literature. Dr. Nick D. Mills, Jr. continues as resident director of the Center. His direction has been characterized by consistent improvement of academic standards and by certain scheduling innovations designed to maximize student access to the host-

country environment.

5. It has been possible to sustain on the Albuquerque campus a modest program of symposia and lectures aimed at enriching the intellectual experience of undergraduate and graduate students in fields related to Latin America. On April 23-24, 1977 a symposium entitled "Conference on Contemporary Latin America: Repression, Revolution and the U.S. Response" was held in Ortega Hall under the joint sponsorship of Political Science, Sociology and the Latin American Center, funding being provided by the latter. Professor Karen Remmer served as general chairperson for the event whose offerings were as follows:

Symposia

"Conference on Contemporary Latin America: Repression, Revolution and the U.S. Response

"Institutionalization of Revolutionary Change" April 22, 1977

"The Government of Plutarco Calles and the
Origines of the PRI in Mexico Gordon Scholoming

"The Peruvian Military and SINAMOS José García

"Political Repression in Latin America" April 23, 1977

"The Chilean Case" Lois Athey

"The Uruguayan Case" Howard Handelman

"The Argentine Case" Gilbert W. Merkk

"U.S. Policy towards Latin America: Options for a New Administration"

"Carter's Latin American Choices: Few and
Radical" Gary McEoin

"Mexican-U.S. Relations: Progress and
Potential" Edward J. Williams

"U.S. Influence in the English-Speaking
Caribbean" Surjit Mansingh

In addition, single lectures on Latin American topics were presented as follows:

Lectures presented during academic year 1976-77

(period July 1, 1976-June 30, 1977)

LECTURE	SPEAKER	DATE
"The Structure of Military Government in Argentina"	Dr. Rafael Braun	November 30, 1976
"La personalidad literaria de Ezequiel Martínez Estrada"	Dra. Haydée Bermejo Hurtado	February 24, 1977
"Educational Policy in Venezuela"	Dr. Enrique Pérez Olivares	March 1, 1977
"Violence in Venezuela"	Dra. Lola Aniyar de Castro	March 9, 1977
"The New Administration in Mexico: Implications for the Future"	Dr. Roderic Ai Camp	April 11, 1977
"México: Causes and Consequences of the Peso Devaluation"	John H. Gervers	April 28, 1977

6. The Center has also been able to support the very vital participation of UNM Latin Americanists in national and international meetings with a view towards maintaining and projecting the institution's prominence in the field. Faculty travel has been given at least partial support in the following instances:

Marshall Nason: To Washington on Invitation of Assistant Secretary of State for Inter-American Affairs, U.S. State Department for discussions on Hemispheric Policy. October 18, 1976 to October 21, 1976

Nelson Valdés: To Pittsburg to read a paper at the International Conference on the Role of Cuba in World Affairs. November 14th to 17th, 1976

Peter Bakewell: To Washington D.C. to attend the American Historical Association meeting and to present a paper. December 27th to 30th, 1976

Michael Conniff: To Washington D.C., to attend the State Department Scholar - Diplomat Seminar

Garth Hansen: To Las Cruces, New Mexico State University to coordinate administrative procedures and promote student interest in the Andean Center Consortium sponsored by UNM, NMSU, and NMHU. February 2nd, 1977 February 8th, 1977 Highlands University, Las Vegas, same purpose stated above. April 27th, 1977 Highlands University, Las Vegas, same purpose stated above.

James Ray: March 12-19, 1977, St. Louis to present paper at International Studies Association Convention.

Karen Remmer: To Tucson, to participate in panel Rocky Mountain Council on April 7 to 9, 1977

Gilbert Merckx: To Tucson, to serve on a panel at the Rocky Mountain Council on Latin American Studies, April 7 to 9, 1977.

Dick Gerdes: To Kentucky to read paper at Foreign Language Conference April 26th, 1977 and to present paper at Rocky Mountain Council on Latin American Studies April 7-9, 1977 in Tucson.

Jack Tomlins: Las Vegas, Nevada to attend the spring meeting of the Rocky Mountain Modern Languages Association of which he is president. April 15th and 16th, 1977.

Marshall R. Nason: to Gainesville, Florida, to read a paper at the national meetings of SALALM, June 13-15, 1977

7. The newest component to function under the aegis of the Latin American Center is the Peace Corps-Vista Campus Liaison Office whose function it is to recruit middle manpower specialists for assignment to the Latin American republics and other world areas. The director of the Latin American Center undertook the original contract negotiation on behalf of the University and engaged the services of Mr. Harvey Buchalter, a former Peace Corps Volunteer in Bolivia and now a teacher in the Albuquerque Public Schools, as liaison officer. Mr. Buchalter maintains office hours in space adjacent to the Latin American Center (Ortega 233) and has since held symposia in other parts of the State and attended meetings convoked by ACTION/Peace Corps in Denver and Dallas. Information from Washington indicates that Mr. Buchalter's operation has been the most successful of all campus liaison operation in the U.S., in consequence of which the contract figure for 1977-78 has been more than doubled. The director of the Latin American Center again served as contract negotiator on behalf of the University and exercises supervisory responsibility and budget control over the program.

B. Plans and Recommendations for the Near Future:

1. At such time as another funding cycle evolves within the Title VI, HEW framework (the norm has been three years per cycle) it will probably be advisable to submit a proposal for refunding. In the interim, other sources of outside funding are being sought.

2. Current attention is being directed to a proposal for an Inter-American Program in Applied Social Sciences which, if mounted, would bring to the University of New Mexico campus young scholars and government employees from the Spanish and Portuguese speaking American republics for the purpose

of upgrading their technical competence in one of the five basic social sciences. The proposal, if approved and funded, would fill the gap left by the demise of FLACSO (the Facultad Latinoamericana de Ciencias Sociales) which operated in Santiago, Chile until the Marxist takeover. The need continues for well trained specialists in fields such as crime and delinquency, economic development, population study, communication, social aspects of health and public administration. The UNM proposal stresses those aspects of institutional capability such as bilingual faculty, accumulated staff and research resources together with an atmosphere congenial to the Latin American scholar, such as might equip it to fill the void in the teaching of applied social sciences. It projects the possibility that some participants might engage in non-degree programs tailored to their precise needs, while others might opt for graduate degrees in one of the traditional social science disciplines.

The proposal for this program is being submitted first to the Organization of American States. Latin American Center director Nason, who first conceived the idea in general terms, held preliminary discussions with the director of Fellowships and Training of that organization. Subsequent to that time three discussions have been held in Albuquerque with OAS representatives, one with the president's Latin American Task Force and two with professors Nason and David who, along with Professor Merckx, have sustained the effort. Dr. David is assuming responsibility for generating the necessary demand among member states of the OAS. It is contemplated that such a program could accommodate up to 25 Latin American participants per semester and that a certain measure of the instructional program would be tutorial in character and/or call for close personal advisement.

It is hoped that the proposal, whose tentative budget is under study in Washington at this time, may be approved in time for the 1978-79 academic year.

3. It is worth repeating under this rubric that should funding be found to enable the University to implement the findings of the President's Task Force on Latin American Studies, one of the principal internal concerns would be the structuring of a new Latin American Institute as described in the Task Force Report (See Appendix "C").

C. Staff: Appointments and Separations

Reportage on staff is limited to the Latin American Center and the Andean Center inasmuch as on-campus departments account for such changes in their individual reports. The loss of federal funding signified the elimination of certain graduate assistantships, one of which was assigned to the director of the Latin American Center and the other divided between two graduate students who assisted with Latin American Studies 250 (cross-listed as Political Science and Sociology 250), "Latin America through Film". These slots have simply remained unfilled.

The Center continues to be staffed by the director, Marshall R Nason, his special administrative assistant, Mr. Garth M. Hansen, and bilingual secretary Martha Fellig. Work-Study assistant Theresa Sánchez has been replaced by Srta. Miriam Duarte, a native of Venezuela.

D. Publications

Scholarly works published by UNM Latin Americanists are accounted for in the Annual Reports of the several departments.

E. Outside Activities of Staff Members.

See pages 8 and 9 of the present report for reportage of support by the

Latin American Center of participation by UNM Latin Americanists in regional and national meetings.

The Center Director, Marshall R. Nason, accepted the invitation of the U.S. Department of State to attend a joint conference called by the Assistant Secretary for Inter-American Affairs at which a selected group of Latin American center directors met with officers of the American Republics section. The two day meetings were held October 18th and 19th of 1976. Professor Nason also accepted an invitation to participate on a panel of the 22nd Seminar on the Acquisition of Latin American Materials (SALALM), June 12-15, 1977, at the University of Florida, Gainesville, Florida. He also accepted the invitation of the Latin American Center of the University of Arizona and participated in the inaugural program of a televised series on Latin on the educational TV station KUAT, Tucson, on Friday evening, February 25th, 1977. The program was videotaped for subsequent showing throughout the Rocky Mountain west.

The Center director has also discharged two important functions for the Latin American Studies Association which is the national interdisciplinary professional organization. Until December, 1976 he served as chairman of the Consortium of Latin American Studies Programs (CLASP) which is the institutional arm of the Association. He currently serves as chairman of the Ad Hoc Membership Committee of the Association and has been charged with mounting a nationwide drive for new members.

F. Miscellany: Other Functions and Services

The Center has continued to serve as clearing house for correspondence concerning Latin American programs at the University, responding alike to individual and institutional inquiries. It also accommodates, to the extent

possible, requests from the community for incidental services ranging from advice and assistance with documentation to requests for talks.

The Latin American Center shares with the Graduate School responsibility for administration of the Title VI, NDFL fellowships for Latin American Area Studies. The Center prepares and submits the very voluminous proposals required for solicitation of quotas, publicizes the grants, handles all correspondence from applicants, prepares dossiers for the local screening committee and maintains ongoing contact with grantees except for fiscal matters. It also provides such technical reportage as may be required by the federal government.

The Center has routinely performed liaison and communications functions between the government, foundations and other granting agencies and local Latin Americanists with respect to fellowship and research prospects in Latin America. It is also the principal communications hub for local announcements of concern to such staff and undertakes such protocolary functions as may be required.

Other functions may include recruitment for Latin Americanists when the appointee sought will have some inter-disciplinary functions.

G. Conclusions

As will be seen from the foregoing, the year just concluded reflects some retrenchment for lack of funding. Fortunately, much of the work previously supported by soft money has been considered of sufficient worth to be subsumed under State appropriated funds. A natural consequence of funding setbacks is a shift in focus from operational to developmental concerns. The search for new sources would be greatly enhanced, however, by

the additional administrative strength and talent input which would result from adoption of the proposed Latin American Institute structure.. Under current staffing the director must devote one half of his time to teaching and administration of a doctoral program while his administrative assistant, serving three quarters time, must limit his activities largely to backstopping of the Andean Center program. Under these circumstances, time and talent for grantsmanship are sharply curtailed.

THE ANDEAN CENTER
OF THE UNIVERSITIES OF NEW MEXICO
A CONSORTIUM

The following terms and conditions are proposed for the consortium arrangement to be known as the "Andean Center of the Universities of New Mexico":

1. The three participating institutions shall be: New Mexico State University, Las Cruces; New Mexico Highlands University, Las Vegas; and the University of New Mexico, Albuquerque.
2. The above-named institutions, and those only, will be eligible for student participation in the Center, except that Northern Illinois University, with which an inter-institutional arrangement has been in force over a period of years, will be entitled to continuing participation. Other State supported institutions may join the consortium, but in the absence of such membership and support their students may not be granted admission. New Mexico students attending the Andean Center will continue to be enrolled at their home institutions.
3. The present consortium arrangement will remain in force until the conclusion of academic year 1977-78, at which time the nature and terms of participation will be reviewed. It is hoped that a major revision in the state funding formula may create more favorable conditions for the operation of off-campus programs, thus easing the fiscal burdens of the current arrangement.

4. In view of its extended experience in initiating and implementing the Center program, the Latin American Center of the University of New Mexico will continue to provide administrative support services for the Andean Center, and will continue in its protocolary role as accredited agent with the Ecuadorean government. Day-to-day administration will be carried on by the Resident Director of the Andean Center and his Ecuadorean staff.

5. Policy for the Andean Center will be set by an Advisory Committee composed of one representative from each participating university. The Administrative Assistant of the Latin American Center, UNM, shall serve in ex-officio capacity. Members of the Advisory Committee shall be named by the academic vice presidents of their institutions and be responsible to them. The Committee should convene at one of the member campuses at the beginning of each semester and more frequently if circumstances require. Members of the Advisory Committee should also serve as program officers on their respective campuses, and should be responsible for recruitment, processing of applications, orientation of enrollees, and furnishing whatever support services are necessary for adequate program functioning.

6. In order to assist local program officers in engendering student interest and in setting up their operations, the Latin American Center of UNM will arrange for on-campus visitations by one of its staff familiar with the program. The visiting consultant will be prepared to give illustrated, informative talks on Quito, Ecuador, and the Andean Center, and to participate with the Institutional Program Officer in student orientation sessions related to the Center, the admissions process,

logistics, etc. The University of New Mexico will also furnish at the outset brochures and other information germane to the recruitment process, as well as data concerning travel, visas, and other necessary documentation.

7. Immediate action: It is essential that recruitment be undertaken immediately for the 1977-78 academic year. It would therefore be desirable that the Advisory Committee be formed without delay and that it meet, perhaps at the Latin American Center, UNM, before the middle of November. Mr. Garth M. Hansen, Assistant to the Director of the Center, could then arrange for visits to each of the two other Universities to give illustrated chats and orientation for interested students. These arrangements may be made by phone (277-5421 or 277-2636) or by addressing communications to: The Latin American Center, Ortega Hall 229, The University of New Mexico, Albuquerque, New Mexico, 87131.

8. Fiscal Support Formula: The following is the proposed formula for support during the 1977-78 academic year. It leaves room for, but does not include, an admission quota of approximately six students from Northern Illinois University. Listed below are the proposed figures for direct support of the program, exclusive of tuition inputs. They are based on a per capita figure of \$1,500.

UNM	24 students at \$1,500	\$36,000
NMSU	10 students at \$1,500	15,000
NMHU	5 students at \$1,500	<u>7,000</u>
Total:	44 students	58,000

9. If our calculations are correct, the following would represent the approximate input from tuition and fees per academic year

UNM	(24)	\$12,480
NMSU	(10)	\$ 5,515
NMHU	(5)	\$ 2,239
Total:		<u>\$20,234</u>

10. Thus the total operational budget of \$58,500
20,234
\$78,734

-- plus input from Northern Illinois University,
approximates the figure required for adequate operation.

Marshall R. Nason, Director
Latin American Center, UNM

ACTA CONSTITUTIVA DEL
"CENTRO ANDINO DE ESTUDIOS E INVESTIGACIONES"
DE LAS UNIVERSIDADES DE NEW MEXICO EN EL ECUADOR

TITULO 1

FINALIDADES Y DOMICILIO

- ARTICULO 1 Un consorcio de Universidades de New Mexico, integrado por la Universidad de New Mexico, Albuquerque, New Mexico; New Mexico State University, Las Cruces, New Mexico; y New Mexico Highlands University, Las Vegas, New Mexico, animado del afán de procurar capacitación académica adecuada y un contacto más amplio y efectivo con los valores de la cultura ecuatoriana para universitarios de los Estados Unidos que siguen estudios de especialización sobre la Región Andina, desea establecer un programa regional bajo la denominación de "Centro Andino de Estudios e Investigaciones." Dicho programa complementará el programa de lenguas, literatura y ciencias sociales y naturales que se ofrece en las facultades de Arte y Ciencias de las universidades miembros del Consorcio.
- ARTICULO 2 Este programa, al cual se denominará en adelante "Centro Andino" será desarrollado en la ciudad de Quito, capital de la República del Ecuador, debiendo regirse en su funcionamiento interno por lo dispuesto en esta "Acta Constitutiva" expedida por las universidades patrocinadores previa la aprobación de las autoridades ecuatorianas competentes.
- ARTICULO 3 Para cumplir los fines expuestos en el Artículo 1, el Centro Andino desarrollará las siguientes actividades:

- a) Estudios e investigaciones con el concurso de especialistas del Ecuador en las áreas del idioma español, literatura ecuatoriana e hispanoamericana, antropología, arqueología, historia, economía, sociología y además ramas afines dentro del campo de las ciencias sociales.
- b) Conferencias, seminarios, exhibiciones y otros programas para fomentar un conocimiento más amplio y objetivo de la producción cultural, científica, artística, técnica, etc. del Ecuador y los demás países andinos y latinoamericanos.
- c) Cooperar con entidades y ciudadanos del Ecuador o de otras nacionalidades que tuvieran interés en realizar estudios e investigaciones especializados y poner a disposición de investigadores calificados la colección de documentos, libros y demás recursos bibliográficos de que dispone el Centro Andino.
- d) Dar a conocer por los medios indicados en el literal b) y mediante publicaciones, documentales y otros recursos informativos, el alcance y resultados de su trabajo de estudio e investigación en los campos antes mencionados a entidades ecuatorianas e internacionales interesadas en los valores de la cultura ecuatoriana, previa aprobación del Gobierno del Ecuador.
- e) Colaborar con programas y entidades del Ecuador para procurar un más amplio conocimiento de los valores culturales nacionales.

TITULO 2

ORGANIZACION

ARTICULO 4. El Centro Andino estará dirigido por un catedrático de una de

las universidades miembros del Consorcio designado para el efecto, con quien colaborará como organismo coordinador el Centro Latinoamericano de la Universidad de New Mexico.

ARTICULO 5 Un ciudadano ecuatoriano nombrado asimismo por el Consorcio actuará como Subdirector y su labor, al igual que la del personal de oficina que también será de nacionalidad ecuatoriana, se desarrollará conforme a lo dispuesto en esta "Acta Constitutiva" y a las normas administrativas del Consorcio.

ARTICULO 6 Catedráticos y especialistas ecuatorianos serán invitados por el Centro Andino para ofrecer a los participantes norteamericanos ciclos de conferencias y seminarios en las distintas ramas académicas del programa.

ARTICULO 7 Los estudiantes universitarios estadounidenses, particularmente los residentes de New Mexico, que estuvieren siguiendo cursos de especialización en asuntos latinoamericanos y preparando tesis para obtener grados de "Bachelor", "Master" o Doctor, podrían inscribirse en el Centro Andino y participar en sus actividades. Los estudios que realicen bajo los auspicios de éste obtendrán certificación de las universidades miembros del Consorcio.

ARTICULO 8 Los participantes norteamericanos podrán complementar la preparación académica requerida por sus respectivos programas de especialización y estudios superiores, asistiendo a cursos regulares de las Universidades de Quito. Su matrícula, asistencia comportamiento y calificaciones deberán sujetarse a los reglamentos vigentes en las mismas.

ARTICULO 9 Los cursos que realicen dichos participantes norteamericanos en las universidades ecuatorianas serán reconocidos y acreditados por

las universidades miembros del Consorcio.

ARTICULO 10 Para desenvolver sus actividades y gestionar la cooperación de las universidades y demás entidades ecuatorianas, el Centro Andino instalará oficinas en el Ecuador, equipadas y mantenidas por el Consorcio con fondos de su exclusiva pertenencia, y cuya administración estará a cargo del Director.

TITULO 3

DEL DIRECTOR

DEBERES Y ATRIBUCIONES

ARTICULO 11 El Director del Centro Andino será un catedrático titular de una de las universidades miembros del Consorcio.

ARTICULO 12 Son deberes y facultades del Director:

- a) Administrar y orientar la labor general del Centro.
- b) Convocar y dirigir reuniones de profesores.
- c) Firmar correspondencia y otros documentos.
- d) Ejercer actividades docentes y asesorar a los estudiantes.
- e) Supervisar el programa de estudio y su aplicación.
- f) Representar al Centro Andino en todo acto oficial.
- g) Administrar el movimiento del Centro Andino, autorizando con su firma las inversiones, adquisiciones, contratos y demás actos que impliquen obligaciones para el Centro Andino.
- h) Responder personal y pecuniariamente ante el Departamento de Contraloría de la Universidad de New Mexico de la correcta utilización de los bienes y fondos, supervisando la contabilidad conforme a los procedimientos administrativos de dicho Departamento.

- i) Elevar informes sobre la marcha del Centro Andino periódicamente a la Universidad de New Mexico y al organismo competente del gobierno ecuatoriano cuando éste lo solicitare.
- j) Vigilar el cumplimiento de las leyes y reglamentos del Ecuador por los participantes del Centro Andino: cumplir y hacer cumplir las normas de esta "Acta Constitutiva," reglamentos y programas del Consorcio y la declaración de normas de conducta para investigaciones y estudios académicos en el exterior, adoptada por la Asamblea Universitaria de la Universidad de New Mexico.

TITULO 4

DEL SUBDIRECTOR

ARTICULO 13: Son obligaciones del Subdirector:

- a) Cooperar en la labor general del Director del Centro Andino a quien substituirá y representará en su ausencia.
- b) Supervisar el buen funcionamiento de los servicios ofrecidos por el Centro Andino.
- c) En coordinación con el Director, supervisar el personal del Centro Andino y el acatamiento de las normas administrativas internas.
- d) Precautelar las pertenencias del Centro Andino
- e) Presentar informes de las actividades del Centro Andino cuando lo solicitare el Director.
- f) Suscribir la correspondencia oficial del Centro Andino que fuere de su atribución.
- g) Supervisar la permanencia legal y alojamiento de los estudiantes norteamericanos, atendiendo sus consultas al respecto.

- h) Conjuntamente con el Director, cumplir y hacer cumplir las leyes ecuatorianas, las obligaciones impuestas por esta "Acta Constitutiva", y los reglamentos internos de las universidades auspiciadoras.
- i) Ejercer otras actividades y responsabilidades delegadas por el Director.

TITULO 5

DEL COMITE ASESOR

ARTICULO 14 Un comité integrado por representantes de las tres universidades de New Mexico integrantes del Consorcio actuará como órgano asesor y consultor para la organización y el funcionamiento del Centro Andino.

ARTICULO 15 Son atribuciones del Comité:

- a) Cooperar con el Director en la formulación del programa de estudios y actividades del Centro Andino.
- b) Actuar como vínculo y coordinador entre las dependencias interesadas de las universidades miembros del Consorcio por un lado, y el Centro Latinoamericano en Albuquerque y el Centro Andino en Quito por el otro.

TITULO 6

LA ASAMBLEA DE PROFESORES

ARTICULO 16 La Asamblea de Profesores tiene como deberes y funciones:

- a) Actuar como Órgano de consulta en asuntos sometidos a ella por el Director.
- b) Asesorar y cooperar en la conducción de programas de estudio y prácticas de campo en materias especializadas.

ARTICULO 17 Un secretario del profesorado, escogido entre sus miembros, llevará las actas de las reuniones.

ARTICULO 18 La Asamblea de Profesores se realizará en el lugar designado por el Director.

TITULO 7

RECURSOS

ARTICULO 19 Como entidad de tipo educativo, el Centro Andino no persigue fines de beneficio económico en sus actividades en el Ecuador.

ARTICULO 20 Para el cumplimiento de sus finalidades, el Centro Andino dispondrá de:

- a) Las asignaciones anuales que de sus propios recursos hagan las universidades miembros del Consorcio.
- b) Las contribuciones que pudieren hacer las fundaciones privadas y demás instituciones interesadas en programas científicos y educativos.
- c) Las pensiones de sus estudiantes.

TITULO 8

DISPOSICIONES GENERALES

ARTICULO 21 Si de los estudios e investigaciones se obtuvieron aportes significativos para el desarrollo y divulgación científicos,

el Centro Andino los hará conocer al Gobierno ecuatoriano y a las universidades e instituciones científicas nacionales. El Centro Andino procurará que los resultados académicos logrados bajo sus auspicios sean debidamente desarrollados, preservados y utilizados por el Ecuador.

ARTICULO 22 Los trabajos o producciones escritas o fotográficas resultantes de los programas de estudio e investigaciones del Centro Andino no podrán reproducirse sin previa autorización del Director del Centro Andino o de la autoridad competente de la Universidad de New Mexico.

ARTICULO 23 Ningún organismo público ni privado podrá utilizar los resultados del programa de estudios e investigaciones del Centro Andino con otros fines que no sean estrictamente educativos y científicos.

ARTICULO 24 El Centro Andino tendrá existencia y duración indefinidas, pero podrá concluir su programa en el Ecuador si así lo estimaren conveniente el gobierno ecuatoriano o el Consorcio. En este caso la resolución se notificará con anticipación suficiente para que sus participantes puedan concluir sus estudios ya iniciados.

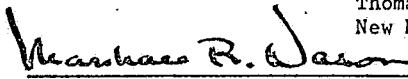
ARTICULO 25 En el caso de terminación del programa, un liquidador nombrado por el Consorcio hará un inventario de bienes y pertenencias para disponer de éstos y satisfacer las obligaciones pendientes del Centro Andino se las hubiere. En la asignación de sus pertenencias, en caso de liquidación, el Centro Andino dará preferencia a instituciones educativas del Ecuador. La liquidación se sujetará a las leyes del Ecuador.

ARTICULO 26 El equipo, los materiales y las propiedades en general que el Centro Andino hubiere obtenido en préstamo o para uso temporal se devol-

verán de inmediato a sus correspondientes dueños.

- ARTICULO 27 Los funcionarios y participantes del programa no podrán desarrollar en sus oficinas ni personalmente ni a nombre del Centro Andino ninguna actividad de carácter político, religioso o sectario. En cuanto a su comportamiento público observarán y respetarán las disposiciones legales vigentes en el Ecuador, entendiéndose que no gozarán de exención alguna.
- ARTICULO 28 El Comité Asesor del Consorcio, o su representante, someterá esta "Acta Constitutiva" a conocimiento de las autoridades ecuatorianas.
- ARTICULO 29 El Comité Asesor podrá hacer reformas a lo dispuesto en esta "Acta", debiendo el Director del Centro Andino ponerlas, con la correspondiente exposición de motivos, en conocimiento del Gobierno ecuatoriano para su aprobación.

Thomas M. Gale
New Mexico State University


Marshall R. Nason
University of New Mexico

Willie Sánchez
New Mexico Highlands University

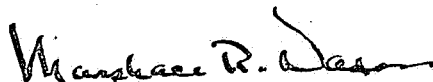
(Firmas: Miembros del Comité Asesor)

CERTIFICACIÓN: Como Director del Centro Latinoamericano de la Universidad de New Mexico y Presidente del Comité Asesor para la organización del Centro Andino de Estudios e Investigaciones en el Ecuador, certifico:

1. QUE las disposiciones contenidas en la presente "Acta Constitutiva" fueron elaboradas, discutidas y aprobadas en tres sesiones diferentes por el Comité Asesor integrado por los representantes de las universidades miembros del Consorcio;

2. QUE las normas de actuación para los participantes estadounidenses del Centro Andino concuerdan con las de la declaración "Educación y Asuntos Internacionales," adoptada en sesión de 12 diciembre de 1967 por la Asamblea Universitaria de la Universidad de New Mexico, y cuya copia se agrega al original del "Acta Constitutiva";
3. QUE los integrantes del Comité Asesor cuyas firmas aparecen arriba estiman que el Artículo 28 del Título 8 de esta "Acta" puede ser considerado por la autoridad ecuatoriana competente, salvo su mejor criterio, como solicitud formal para obtener su aprobación al programa; y
4. QUE el proyecto del "Acta Constitutiva" fue sometido a consideración de los presidentes de las universidades miembros del Consorcio de las Universidades de New Mexico el 1º de mayo del año 1977 y ratificado por éstos en todo su contenido el 15 de mayo de 1977 en sus oficinas universitarias para la presentación del Documento al organismo competente del Gobierno del Ecuador para su legalización.

22 de abril de 1977



Marshall R. Nason
Director
Latin American Center
University of New Mexico

APPENDIX C

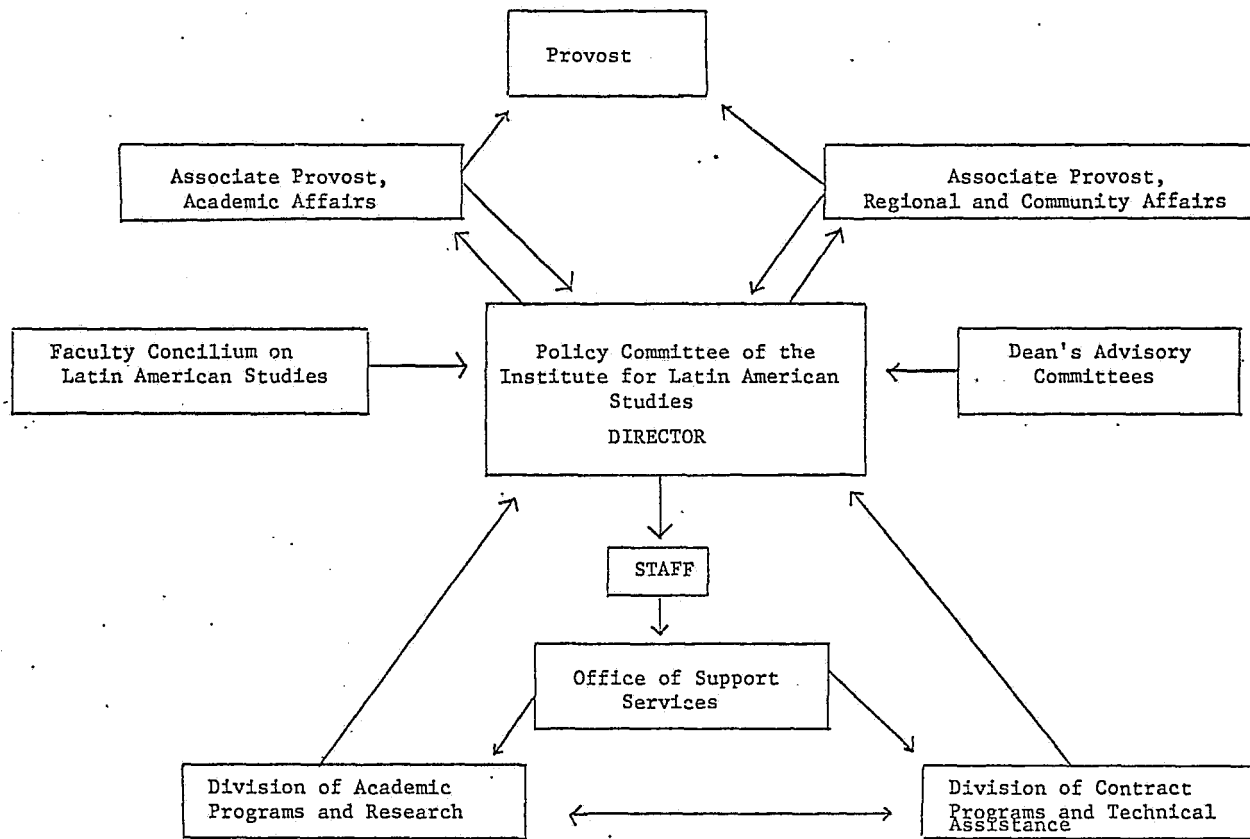
PROPOSAL FOR A LATIN AMERICAN INSTITUTE
AT THE UNIVERSITY OF NEW MEXICO

The task Force on Latin American Programs at UNM recommends the creation of a Latin American Institute of the University of New Mexico.

The purposes of this Institute would be the following:

- 1) To afford greater visibility and prominence to one of the university's major areas of strength.
- 2) To coordinate various teaching, research, and service efforts of UNM in the Latin American field.
- 3) To facilitate the pooling of existing resources among UNM's Latin American programs.
- 4) To stimulate cross-disciplinary development of UNM's offerings in the Latin American area.
- 5) To expedite faculty and administrative participation in policy formation for Latin American programs.
- 6) To coordinate the planning of program development and acquisition of resources in the Latin American field.
- 7) To promote outreach activities such as encouraging Latin American instruction in the public schools.
- 8) To foster community-oriented cultural activities, such as programs in music, arts, theater, sports, and film.
- 9) To promote faculty and student exchanges between UNM and the Latin American republics.
- 10) To provide institutional support for the generation of funding from external sources.

After considering a number of organizational models, the Task Force recommends a plan of organization similar to that which has been adopted recently by the University of California at Los Angeles. The organizational structure proposed is pictured in the chart which follows.



ORGANIZATIONAL CHART OF THE PROPOSED
LATIN AMERICAN INSTITUTE OF UNM

Membership of the Policy Committee:

Chairpersons, Dean's Committees	(6)
Representatives, Faculty Concilium	(3)
Associate Provost	(2)
Director of the Latin American Institute	(1)
Program Directors, Major Programs	(3)
Total:	(15)

REPORT OF THE ROBERT O. ANDERSON GRADUATE
SCHOOL OF BUSINESS AND ADMINISTRATIVE SCIENCES

July 1, 1976 - June 30, 1977

Raymond Radosevich, Acting Dean

I. GENERAL INFORMATION

A. 1976-77 Academic Year: New Programs and Achievements

1. Graduate School Designation

On December 29, 1976, the Board of Regents endorsed the recommendation of the Faculty Senate that the Robert O. Anderson Graduate School of Business and Administrative Sciences be established as an independent graduate school for its professional Master's level programs. The School can now assume its place in the Southwest with the other graduate professional schools of business administration.

The Anderson Graduate School of Business and Administrative Sciences will hold its first convocation on May 13, 1978, at which Mr. Robert O. Anderson will be the featured speaker.

2. Anderson Alumni Challenge Fund

In the spring of 1976, the Anderson School's Alumni Club undertook a major fund-raising drive whose goal was to raise \$10,000 annually over a period of five years. Mr. Robert O. Anderson generously offered to match alumni contributions to this drive on a two-for-one basis. The goal of

\$10,000 in donations was achieved, and on October 8, 1976, at the fall meeting of the School's Advisory Council, Mr. Anderson presented the School's Foundation his matching contribution of \$20,000.

The 1977 Anderson Alumni Challenge Fund drive is now under way, and it is expected that the goal of \$10,000 will be exceeded. Again, Mr. Anderson will match alumni contributions on a two-for-one basis.

3. New M.B.A. and B.B.A. Program Developments

An effort is being made by the School to encourage more full-time students in both programs.

During the past several months, the School has received several substantial scholarship grants, thus enhancing its ability to attract and retain highly qualified students. In 1976-77, six undergraduate students were designated as recipients of Presidential Scholarships donated by local individuals and firms. This year we are particularly proud to announce the new Robert O. Anderson M.B.A. fellowships awarded to outstanding M.B.A. applicants and supported by the School's Foundation through gifts from Mr. Robert O. Anderson.

A new management career planning course was added to the School's curriculum this year. In addition to assistance in career planning, it

provides students with practical preparation for entrance into the job market.

The Los Alamos and Santa Fe Graduate Centers' M.B.A. program offerings have been enthusiastically received, and the School plans to continue to offer courses leading to the M.B.A. degree in both of these centers.

As can be seen from the enrollment statistics comparing academic years 1975-76 and 1976-77, both the graduate and undergraduate programs of the School continue to grow at very high rates despite rigorous admission and grading standards.

4. The Ph.D. Program

The Anderson Graduate School in collaboration with the Graduate School offers a Ph.D. in International Management with an emphasis on Latin America. This highly interdisciplinary program has been offered for several years on a pilot basis because of a lack of financial support. The 1977-78 budget to the School includes \$25,000 from the "Programs of Excellence" fund designated for the Ph.D. Program. As a result, an additional five or six candidates will be admitted annually if the funding from the Provost's Office continues. The Program design has received many outstanding reviews; it is highly rewarding to have the opportunity to

implement it on a larger scale. Other colleges at UNM and sister institutions in Latin America will also benefit, as over one-half of the student's work toward the degree is accomplished outside the Anderson Graduate School.

5. Management Development Center Programs

The faculty and staff of the Anderson Graduate School are committed to a comprehensive plan of educational program offerings for practicing managers. These offerings include the Management Master's Program, the Advanced Management Program, the Basic Management Program, and short-term seminars.

The Management Master's Program brings working executives to the School for sessions during the academic year and summer session. Working on this schedule, executives can continue to meet their professional commitments while they increase their understanding of modern administration principles, developments, and techniques, as well as a wide range of political, economic and social factors influencing organizational planning and strategy. The program leads to the degree of Master of Management. The Management Master's Program, which will begin its fourth two-year cycle in August 1977, has attracted 38 new participants. The third

Management Master's Program will graduate 27 executives from throughout New Mexico at the end of the 1977 summer session.

The Management Master's Program being conducted at Kirtland Air Force Base will conclude in July 1978. Because of problems of facilities and logistics, the on-base program will not be renewed, but the Kirtland market will be serviced by the on-campus Management Master's Program, which will be starting every summer in the future (rather than every two years), if the level of enrollments permits.

The Advanced Management Program (formerly known as the Executive Program) is a one-semester, professional-certificate program for managers who have significant managerial experience. It features managerial decision skill-sharpening and sensitization to the forces and trends of the contemporary organizational environment. This program is often highlighted by guest luncheon speakers. It meets on alternate Fridays from 8:00 A.M. to 5:00 P.M. in the School's Management Development Center. It will be offered every fall semester beginning in 1978.

The Basic Management Program is a one-semester, professional-certificate program for managers having

little managerial experience. It includes the study of techniques that managers can utilize to motivate employees, communicate effectively with supervisors and subordinates, delegate responsibility and authority, and deal with budgetary constraints and governmental regulations. Classes meet one night per week for fifteen sessions in the School's Management Development Center. The Basic Management Program will be offered every spring semester beginning spring 1978.

Several short-term seminars relating to many functional areas of management are offered throughout the year. They are conducted on campus or at customer locations. On-site seminars were conducted for the Veterans Hospital and the Albuquerque Public Schools during 1976-77. It is expected that one or two campus seminars available to the managerial community will be conducted each month during the coming year.

6. New Mexico School of Banking

Thirty-eight students were graduated from the New Mexico School of Banking in May 1977, and 57 enrolled in the School and completed the first of two required on-campus sessions.

The New Mexico School of Banking is co-sponsored by the New Mexico Bankers Association and the Anderson

Graduate School. Its purpose is to provide banking education to junior and intermediate-level officers of banks in New Mexico and adjoining states.

The New Mexico School of Banking Foundation was formed in 1977. Its purpose is to assist the School of Banking to encourage and promote education, research and publication in the field of banking. The Foundation will offer a new program, a series of symposia for bank directors, beginning in 1977. One symposium will be offered each year.

7. The Executive-in-Residence Program

Each semester, the Executive-in-Residence Program invites outstanding management leaders from throughout New Mexico and the United States to meet the School's faculty and students. This program provides our faculty an excellent opportunity to enrich their seminars with the executive's experience and insight, and provides the latter with time and a new and stimulating environment for self-enrichment. The executives-in-residence spend from several days to a full academic year in residence at the School.

During November 1976, Mr. Edward W. Jenks, Chairman of the Board, Eidal International Corporation,

visited the School as Executive-in-Residence.

In April 1977, the Executive-in-Residence was Mr. John H. Dendahl, President, Eberline Instrument Corporation.

8. Distinguished International Lecturer in Accounting

In October 1976, Raymond J. Chambers, Professor of Accounting at the University of Sydney, Australia, visited the School as Distinguished International Lecturer in Accounting. The American Accounting Association sponsors the Distinguished International Lecturer in Accounting Program and selects a professor from abroad to come to the United States for a lecture series. The selection is made on the basis of the professional qualifications of the nominee, including teaching and research achievements and the ability to speak knowledgeably of the entire accounting profession as well as accounting education.

9. The Cooperative Education Program

The School's new Cooperative Education ("Co-op") Program permits undergraduate students to alternate semesters of full-time employment by a cooperating firm or not-for-profit organization with full-time academic work at the University. The student can receive three semester-hours credit for each semester of work experience, again through a faculty-supervised practicum. The Co-op Program began in January 1977

and shares a director with a similar program in the College of Engineering. Plans call for an extension of the Co-op Program Director's function to include career planning and placement next year.

10. Anderson Graduate School Community Relations

The Anderson Graduate School's close working relationships with its professional constituency plays a key role in its continuing development and growth. At the center of its community relations program is the School's Advisory Council, which is comprised of the State's outstanding management leadership, with several top public- and private-sector leaders from throughout the United States as well. Council membership now totals 44. Key representatives from other organizations related to the School such as its Alumni Club, the Accounting Advisory Board, and the School's Foundation are also represented on the Advisory Council. Council members actively participate in planning of new programs of the School. Their ideas, suggestions and support play a key role in the School's ability to develop and in turn serve the needs of the management community.

Following the major meetings of the Advisory Council in the spring and the fall, there is a Top Management Briefing attended by Advisory Council

members, their guests, and friends of the School. The caliber of the Top Management Briefing's Distinguished Guest Speakers plays an important part in attracting the state's management leadership to these meetings.

At the Fall 1976 Top Management Briefing, the Distinguished Guest Speaker was Irving Kristol, professor at New York University and co-editor of The Public Interest. The topic of Professor Kristol's presentation was "Morals, Values, and the American Businessman." The Spring 1977 Top Management Briefing featured a screening of the film, The Incredible Bread Machine, which is concerned with the relative advantages of, and necessary interrelationships between the public and private sectors of our nation's complex mixed economy. Following the screening, the film was discussed by a panel comprised of Mr. Robert O. Anderson, Chairman of the Board, Atlantic Richfield Company; Mr. Gaylord Freeman, Honorary Chairman, First National Bank of Chicago; Congressman Harold Runnels; Assistant Professor Allen Parkman of the Anderson Graduate School; and Associate Professor F. Lee Brown of UNM's Economics Department. UNM President William E. Davis served as panel moderator.

The Anderson Graduate School's Foundation is duly registered by both the state and federal governments as an independent trust. It operates under the direction of a Board of Trustees which is comprised of five members of the School's Advisory Council and five members of the Alumni Club. The Dean and Associate Dean of the School serve as ex-officio members of this Board.

In keeping with the School's Plan for Excellence adopted by the Advisory Council, the Foundation carried on a continuing effort to raise the substantial amounts of money necessary for the growth and development of the School. The major fund-raising activity of the Foundation is the Affiliate Program, whereby an individual or a corporation, for a minimum contribution of \$200 or \$1,000, respectively, may join in a partnership with the School and receive significant benefits. At present the School has approximately 20 corporate and 20 individual Affiliate members.

11. Report to Friends of the School

During the spring of 1977, the Dean's office prepared a report to alumni and friends of the School, announcing the establishment of the Anderson Graduate School and reviewing the School's progress

during the last decade. Publication costs will be paid from a special grant from the School's Foundation. The report is now being printed, and will be available in August 1977.

B. Significant Plans and Recommendations

The Anderson Graduate School is organizing a new small-business assistance program. The previous Small Business Institute Program (conducted under a contract from the Small Business Administration) is being expanded. The Program's office at the School will be coordinated by five volunteers from the Service Corps of Retired Executives. Efforts of student teams from the School will be enhanced by resources from the School of Law, the College of Engineering, the Technology Application Center, the Division of Public Administration, and the Bureau of Business and Economic Research. Also assisting in the program is the Albuquerque Chamber of Commerce.

Anderson Graduate School faculty members will participate in programs of the Aspen Institute for Humanistic Studies. This participation is being funded by a \$6,000 grant to the School from the Atlantic Richfield Company.

The School plans to write proposals to seek funding for assistance to sister institutions in Latin America. The Anderson Graduate School currently has very few externally funded research projects, and an effort will be made to expand this type of activity. Through this mechanism, and through appointment of Professor William Peters as Associate Director of the Bureau of Business and Economic Research, the School hopes to develop closer affiliation with the projects of the BBER.

C. Appointments to the Staff

Michael Q. Anderson, who received his D.B.A. this spring from Indiana University, will be joining our faculty as Assistant Professor in the area of Management Science.

Dr. Patricia Elliott has been appointed Visiting Associate Professor in the area of Accounting.

H. Michael Hayes, who is completing requirements for the Ph.D. degree at the University of Michigan, will be teaching in the area of Marketing Management.

Dr. R. Charles Moyer has been appointed Associate Professor in the area of Financial Management.

Dr. William Renforth will be a Visiting Assistant Professor temporarily replacing Professor Raveed, who resigned. Professor Renforth has most recently been at INCAE and will provide valuable support to our Latin American Programs.

D. Separations from the Staff

Faculty members who resigned at the end of the 1976-77 academic year are: Peter C. Bell, James C. Cooper, Frederick F. Newpeck and Sion Raveed.

ENROLLMENT AND DEGREE STATISTICS

TABLE I

Students Enrolled in the Robert O. Anderson
School of Business and The Graduate School of Business
 (Fall Semester)

	1969- 1970	1970- 1971	1971- 1972	1972- 1973	1973- 1974	1974- 1975	1975- 1976	1976- 1977
Undergraduate	430	538	531	310	204	223	294	368
Graduate	107	117	112	155	167	181	242 ₁	271 ₂

TABLE II

Total Credit Hours for Graduate Courses
and Combined Total of BBA & Graduate
Courses

(Fall Semester)

	1969- 1970	1970- 1971	1971- 1972	1972- 1973	1973- 1974	1974- 1975	1975- 1976	1976- 1977
Graduate	2250	2764	2720	2333	2251	2378	2665 ₃	2516 ₄
Total Credit hours	7103	8727	7923	7140	6323	6783	7740 ₅	8163 ₆

TABLE III

BBA and Master's Graduates
 (Fall and Spring Total)

	1969- 1970	1970- 1971	1971- 1972	1972- 1973	1973- 1974	1974- 1975	1975- 1976	1976- 1977
BBA	73	131	161	141	97	88	106	126
Masters (MBA & MMA)	27	29	26	28	45	52	61	73 ₇

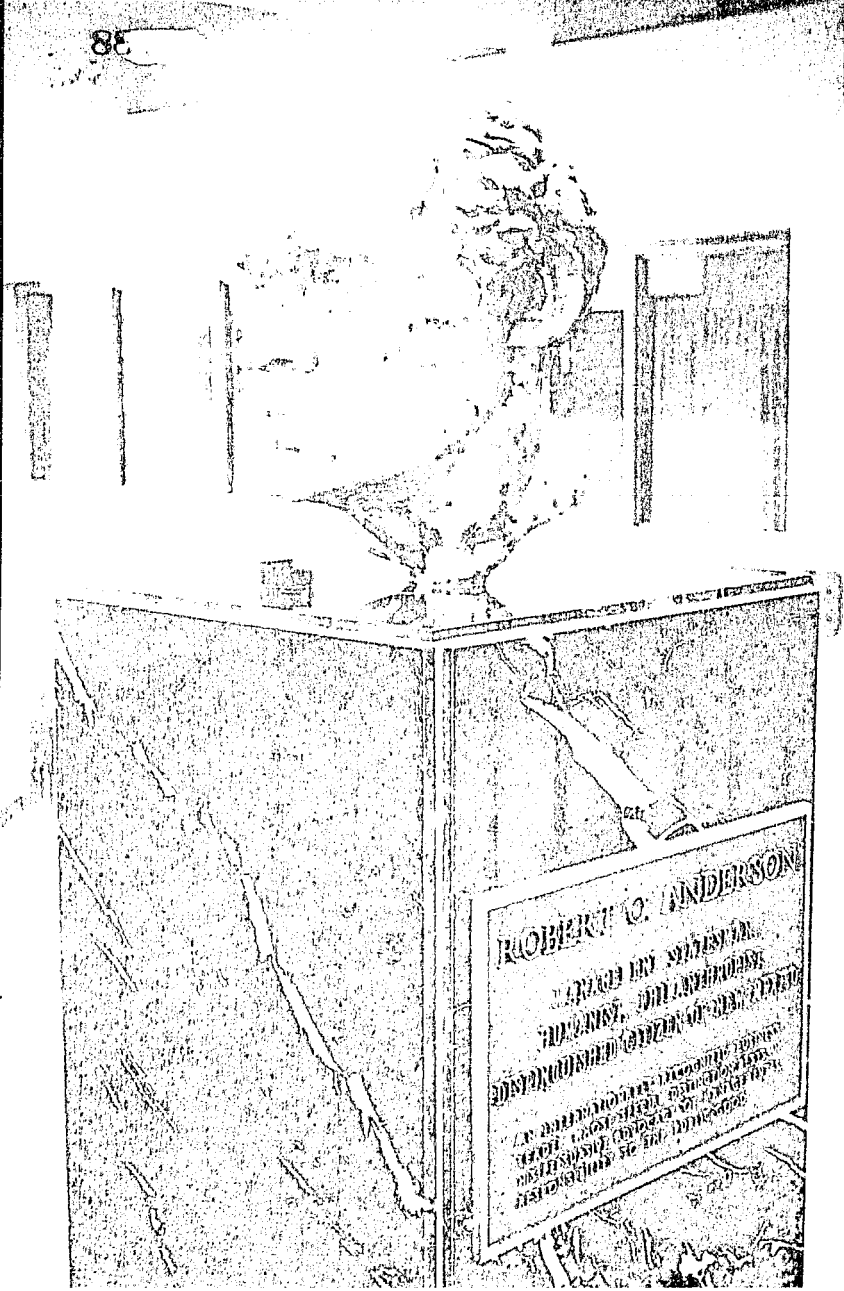
1. 180 regular, 39 Executive Program, 23 Los Alamos
2. 190 regular, 52 Executive Program, 23 Los Alamos, 6 Dual-Degree
3. 2424 regular, 156 Executive Program, 85 Los Alamos
4. 2043 regular, 318 Executive Program, 155 Los Alamos
5. 6834 regular, 351 Executive Program, 255 Los Alamos
6. 7586 regular, 318 Executive Program, 155 Los Alamos
7. Includes 27 MMA students graduating in Summer

The Robert O. Anderson
Graduate School
of Business and
Administrative Sciences

A special report to alumni and friends announcing the establishment of The Robert O. Anderson Graduate School of Business and Administrative Sciences, and reviewing the School's progress during the last decade.

1976-1977

This report was produced under a special grant from The Robert O. Anderson Graduate School Foundation. No public funds were expended for its publication.



ROBERT O. ANDERSON
DIRECTOR OF THE FBI
FEDERAL BUREAU OF INVESTIGATION
U. S. DEPARTMENT OF JUSTICE
WASHINGTON, D. C. 20535

The University of New Mexico's Board of Regents recently approved the formation of the Robert O. Anderson Graduate School of Business and Administrative Sciences. This marks both the first State School or College named in honor of a prominent citizen and the first independent graduate professional school of management to be established within New Mexico.

It would be difficult to imagine how any new Graduate School of Management could be more fortunate than to have such a distinguished management statesman as its namesake. Robert O. Anderson truly represents the finest qualities of our country's management leadership. He is best known as the Chairman of the Board of Atlantic Richfield Company, a corporation which he formed through his considerable entrepreneurial talents. Mr. Anderson's enlightened intellectual leadership of the Aspen Institute for Humanistic Studies has given him a breadth of understanding of major world issues that few top American executives can hope to achieve. A persuasive advocate of the social responsibility of business, he and his corporation have played an exemplary role in philanthropy and devotion to the public good.

A new Graduate School of Management with Mr. Anderson as its namesake has reason to be proud and to aspire to high achievements. With the announcement of this special event, it seems appropriate to place it in an historical context with a brief review of the School's growth and development during the past decade.

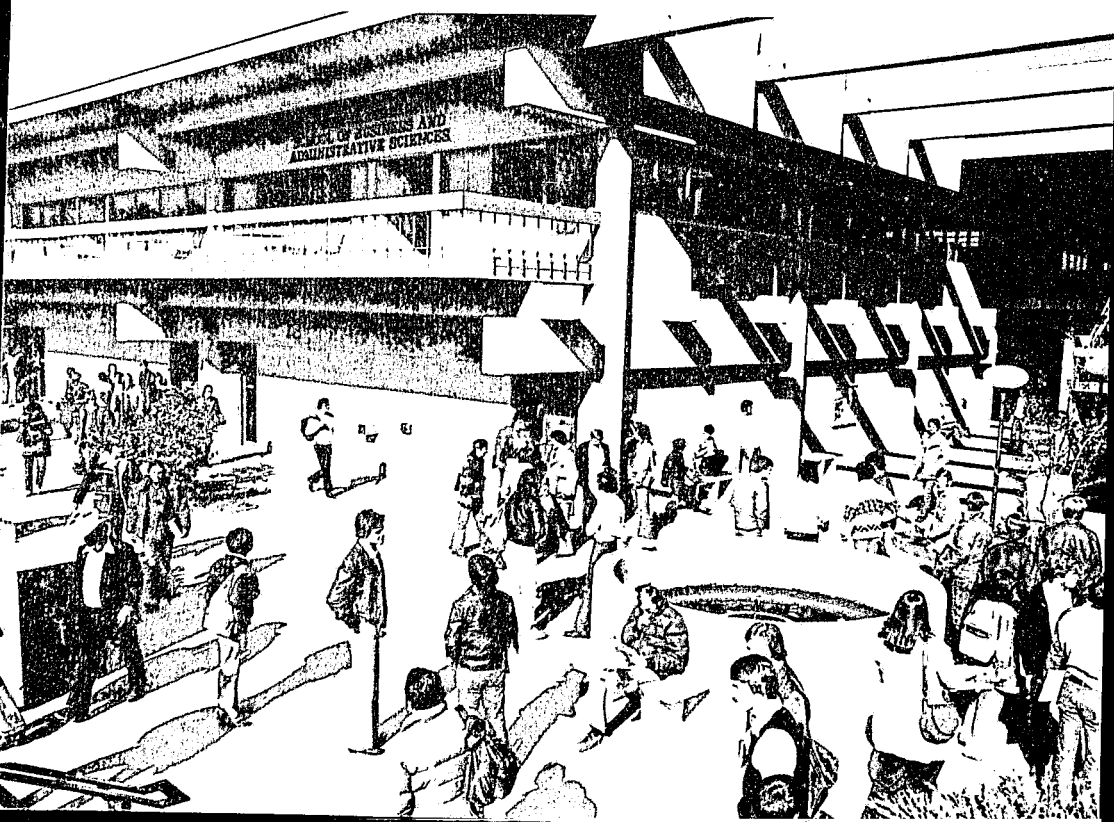
Robert R. Rehder
Dean

A UNIQUE PROFESSIONAL SCHOOL OF MANAGEMENT IN THE SOUTHWEST

The Robert O. Anderson Graduate School of Business and Administrative Sciences has set the goal of becoming the leading professional school of management in this region by 1987. The School has avoided the prevalent state university business school model of large enrollments directed toward highly specialized first-job skills, preferring instead to develop within a small, carefully selected student body professional managerial talent for both small and large private-and public-sector organizations, along with an essential zest for lifelong learning.

The year 1975 marked the accreditation of the School by the American Assembly of Collegiate Schools of Business (AACSB) of both its graduate and undergraduate degree programs, the first school of business in New Mexico to receive this distinction, and the third school in the 60-year history of the AACSB to gain this professional accreditation for both the bachelor's and master's level programs simultaneously.

The School's high standards of excellence are the result of a truly distinguished faculty, inspired by the high expectations and support of Mr. Robert O. Anderson and the School's Advisory Council. The Anderson Graduate School increased its full-time faculty from 10 to 29 members between 1968 and 1977. It is, however, of greater significance to recognize the faculty's continued qualitative development. While a distinguished faculty does not guarantee an outstanding school, it is clearly a prerequisite. The Anderson Graduate School has, therefore, placed great emphasis on the selection and development of its faculty, and has conducted extensive nationwide searches of the nation's leading graduate schools to fill each position. Every effort has been made to insure that new faculty members are not only academically highly qualified, but exhibit a strong managerial orientation as well.



THE ANDERSON SCHOOL'S NEW HOME

In the 1968-69 academic year, the school moved into the modern new building complex where it is presently housed, and changed its name from the College of Business Administration to the School of Business and Administrative Sciences, in order to reflect its broad private and not-for-profit professional management orientation. The School's new building represented the long and careful planning of the faculty to construct a building which was at once highly attractive architecturally, and also functionally suited to the School's professional program development. The structure houses the Parish Memorial Library, the Management Systems Computing Center, the Management Development Center, Organizational Behavior Laboratory, as well as specially designed case-study and seminar rooms.

The School's Management Systems Computing Center, added in the spring of 1975, currently houses 12 terminals on-line with the University's 360/67. Acquisition of these terminals was made possible by gifts from the business community which were matched by the University. The Management Systems Computing Center also acquired a line printer and card reader, and in 1976 was the recipient of a minicomputer as a gift

from MITS, a New Mexico computer manufacturer, enabling students to gain hands-on minicomputer experience.

The School's Parish Memorial Library has developed during the past seven years from a small reference library to the State's professional library in business and management. It was named in honor of the late Dean William J. Parish, who early on envisioned the need for a professional school to have a strong library. Upon his untimely death, the Parish family established a trust fund to develop and support the Library named in his honor. With holdings of 40,000 volumes and a fine collection of periodicals and microfiche tapes, the Parish Memorial Library, combined with the Bureau of Business and Economic Research Data Bank, is one of the finest repositories of information of interest to the management and economic community in the Southwest. It is equipped with individual carrels, case-study and research rooms, microfiche equipment and solid-state calculators. The library staff is now planning for an addition to house the Robert O. Anderson archives.

NEW B.B.A., M.B.A. AND PH.D. PROGRAMS

In 1971-72, the faculty of the School gave lengthy and careful consideration to the appropriate characteristics of its M.B.A. and B.B.A. programs, as well as the resources needed for such programs and their probable availability. After being assured by the Administration and the Regents of the University of their support, the faculty developed a new, upper-division professional B.B.A. program, building upon a broad pre-management program in the arts and sciences, and incorporating the newly developed core curriculum from the M.B.A. program. This new B.B.A. program is among the finest in the country, with small classes taught by full-time faculty, and having students whose admission scores now average the highest in the University. Despite the B.B.A. program's rigor, enrollment is growing dramatically at one of the highest rates within UNM.

During the 1969-70 academic year, a new, "Three-Two" program had been developed, following the original Dartmouth Tuck School model. This program enables students who follow a preprofessional program in another UNM School and maintain a good scholarship record to complete the requirements for both a bachelor's degree and an M.B.A. degree in five years instead of six.



Equally notable developments have taken place within the graduate student body. The Master's degree programs have more than doubled in enrollment in the last decade, and the number of students now enrolled is approximately 250. This includes those mid-career managers working toward a Master of Management Degree in the Executive Program, and students enrolled in the University's graduate centers in Los Alamos and Santa Fe. The School has actively recruited minorities and women for its professional programs at all levels.

Supported by a major grant from the Alfred P. Sloan Foundation, the nation's first American Indian M.B.A. Program was established within the School in September 1972. To date, 10 American Indian students have been awarded M.B.A. degrees by the Anderson Graduate School.

Five dual professional degree programs were developed during the past 10 years. These degrees are now being offered in conjunction with the College of Engineering, the School of Law, the Department of Latin American Studies, and the College of Pharmacy. In 1976 our newest dual degree, in Health Systems Management, administered jointly by the School of Medicine and the Anderson Graduate School, was begun.

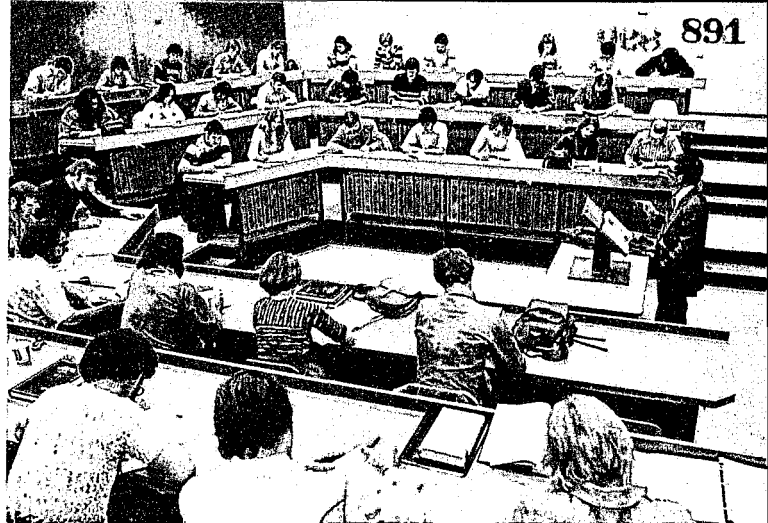
In the fall of 1974, a pilot Ph.D. program in International Management with emphasis on Latin America was initiated. Five students are now enrolled in this pilot program, and this year, with special UNM funding recognizing the program's promise of excellence, the doctoral program will be able to develop to its full potential. This unique new doctoral program has already gained international recognition, building upon the

University's special Latin American programs and Spanish-surnamed faculty and students.

The School's experience with the B.B.A., M.B.A., Ph.D. and Executive programs has been consistent. As these programs gain in academic substance and rigor, both the quality and the number of applicants increase drastically.

Significant characteristics of Anderson School students have been their maturity and work experience. These have been fostered by special programs such as the Internship Program and the Co-op Program. The Internship Program, begun in 1971, permits graduate students to work part-time while they complete their degrees, and to receive academic credit as well, through a faculty-supervised practicum in which they relate their employment experience to their coursework. The new Co-op Program began in January 1977, and shares a director with a similar program in the College of Engineering. It permits undergraduate students to alternate semesters of full-time employment by a cooperating firm or not-for-profit organization with full-time academic work at the University. The student can receive three semester-hours credit for each semester of work experience, again through a faculty-supervised practicum. Plans call for an expansion of the Co-op Program Director's function to include career planning and placement next year.

The School is particularly proud of its Small Business Administration Institute which allows student teams, under the supervision of faculty and members of the Service Corps of Retired Executives (SCORE) to work on actual problems of small businesses in New Mexico.



MANAGEMENT DEVELOPMENT PROGRAMS

The Anderson Graduate School accepts as part of its educational mission the development of a program of continuing, lifelong management education for the managers of private and public organizations. With this in mind, the School initiated the nation's second Friday/Saturday Master's degree Executive Program in the fall of 1971. All sessions were held on Friday and Saturday every other week, thus allowing managers from around the State to complete the program without interrupting their careers.

Candidates for this Master's degree program must meet the same admission standards as those working toward an M.B.A. degree, but in addition they are expected to have at least five years of management experience. Those completing the Master's curriculum requirements now have the option of continuing for an additional year of study leading to an Executive M.B.A. degree.

In the fall of 1976, an Advanced Management Program was initiated, and in the Spring Semester 1978, a new, one-semester program in basic management will be undertaken. These are professionally certified programs scheduled to

accommodate the mid-career manager's full-time work obligations.

Currently under development for the 1977-78 academic year is a series of short seminars of one to three days' duration, which will cover a broad range of functional and specialized areas. They will be offered by the Robert O. Anderson School Foundation.



NEW MEXICO SCHOOL OF BANKING

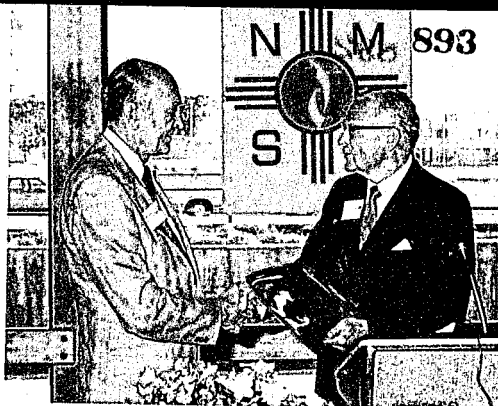
The New Mexico School of Banking was established by the Anderson School in conjunction with the New Mexico Bankers Association in 1974, under the leadership of Henry Jaramillo, President, Ranchers State Bank, Belen, and current President of the UNM Board of Regents. The purpose of the School is to provide the highest quality banking education to intermediate-level bank officers.

Graduation from the School of Banking requires participation in two annual one-week sessions, with interim correspondence problems. These on-campus intensive sessions are held during the latter part of May each year in the Management Development Center of the Anderson Graduate School.

The New Mexico School of Banking is supervised by a Board of Trustees that includes New Mexico banking leaders and the Dean of the Anderson Graduate School. The School's participants come from all areas of New Mexico, with growing enrollments from adjacent States as well.

The New Mexico School of Banking Foundation was formed in 1977. Its purpose is to assist the New Mexico School of Banking to encourage and promote education, research and publication in the field of banking. The Foundation will offer a new program, a series of Symposia for Bank Directors, beginning in 1977. One Symposium will be offered each year.

In 1977, the New Mexico School of Banking will serve approximately 100 bankers representing more than 30 communities from throughout New Mexico.

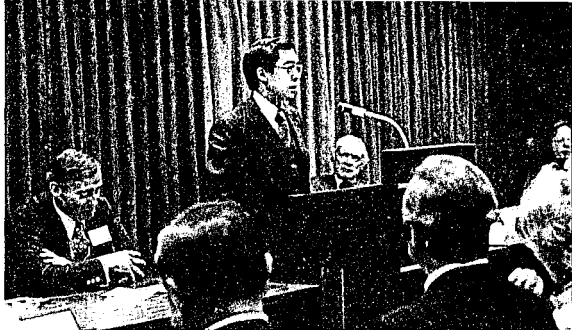


THE ANDERSON GRADUATE SCHOOL'S PROFESSIONAL CONSTITUENCY

A critical measure of a professional school's value is the support it engenders from its constituency.

The academic progress that the Anderson Graduate School has experienced is due in no small measure to the personal and financial support it has received from its namesake, Mr. Robert O. Anderson, and the management community of New Mexico. This support has come from affiliate partners of the School, members of the Advisory Council and the Anderson School Foundation Board of Trustees, and alumni.

The Anderson Graduate School's Advisory Council was formed in 1970, and is comprised of 45 national and state leaders from business, government, and not-for-profit institutions. The Council has enabled the School to develop and maintain a close working relationship with the management of New Mexico, and to better understand their needs and problems. The Advisory Council is truly a partnership between the Anderson School and a cross-section of its professional management constituency, with representatives from the student body, alumni, Foundation, and various professional and ethnic groups. In many ways, this body sets the School's high expectations and provides both the support and leadership necessary to achieve them.



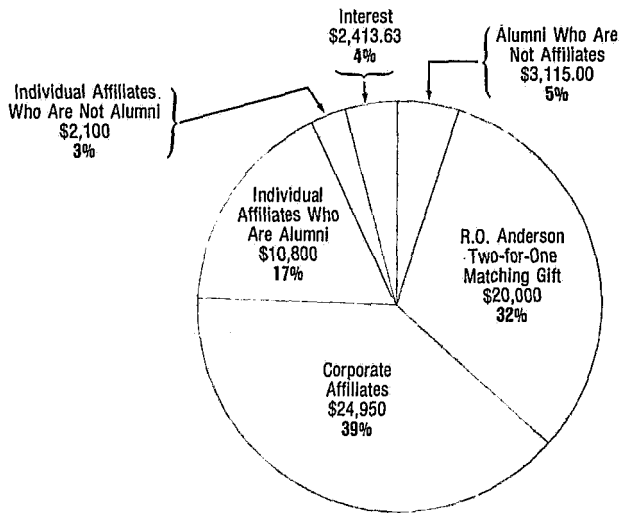
THE ALUMNI CLUB

The Anderson School Alumni Club, founded in 1970, now includes more than 3,000 members, and plays an active role in the School's development as well. The officers and board of directors are active in fund-raising activities, and sponsor periodic professional seminars and informal meetings with the faculty and students of the School. The Club sponsors student scholarships and regular newsletters to its members.

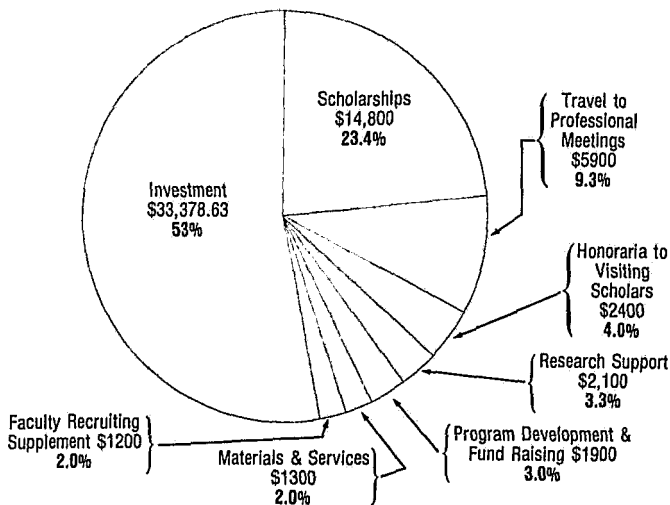
In February 1976, the Alumni Club launched a \$50,000 fund-raising drive, scheduled to extend over a five-year period with an annual goal of \$10,000. The drive is referred to as the Anderson Alumni Challenge Fund Drive, as Mr. Robert O. Anderson generously agreed to match these alumni contributions on a two-for-one basis. The successful 1976 fund drive was headed by Robert M. Goodman, president of the Alumni Club; Tom L. Popejoy, Jr.; and Gary Pierson, who was elected President of the Alumni Club in 1977. The goal of \$10,000 was achieved, and on October 8, 1976, at the fall meeting of the School's Advisory Council, Mr. Anderson presented the School his two-for-one matching contribution of \$20,000. The 1977-78 fund-raising drive, under the direction of Mr. Pierson, will begin late this summer and conclude in December 1977.



SOURCES OF PRIVATE-SECTOR FUNDS 1976-77



USES OF PRIVATE-SECTOR FUNDS 1976-77



ANDERSON SCHOOL FOUNDATION TRUST

The Anderson School Foundation Trust was established in 1971 as a Federal and State chartered non-profit, tax-exempt entity. Alumni and Affiliate contributions and other monies donated or earned by the Trust's activities are a second and vitally needed source of revenue for the School. Monies received by the School from the Foundation make available additional resources for faculty development programs, research support, scholarship funds, and enhancement of the School's curricula and facilities. The Foundation's officers and board of directors consider a budget request from the Anderson School's Dean each year, and are responsible for the management of the Trust's permanent fund.

The Affiliate Program, which was initiated in 1970, creates and sustains a mutually beneficial relationship between the Anderson School and the professional management community of the State, which it serves. Affiliate members participate in the School's Top Management Briefings, Executive-in-Residence programs, management development programs, and other activities oriented toward the needs and interests of the management community. In this era of explosive technological and social change, it provides the professional manager and his organization with a vital means of remaining abreast of recent and important new findings and practices in management. The Affiliate members'

contributions of professional experience, guidance and financial support in turn are essential to the School's achievement of its high goals.

Corporate Affiliates contribute from one thousand to ten thousand dollars each year, and individual Affiliates contribute from \$200 to several thousand dollars annually. These contributions are a vital source of revenue to support the School's faculty research, student scholarships, Parish Library, Management Systems Computing Center and academic programs. The Affiliate membership list now includes more than sixty names, and is growing steadily.

Affiliate membership contributions may be earmarked for specific areas or program development, such as student scholarships and faculty research. Examples of fellowship support include the Tripp Memorial Scholarship contributed by Albuquerque National Bank in memory of Robert L. Tripp. This scholarship of \$1,000 per year is awarded to Anderson School students on the basis of academic achievement and leadership qualities.

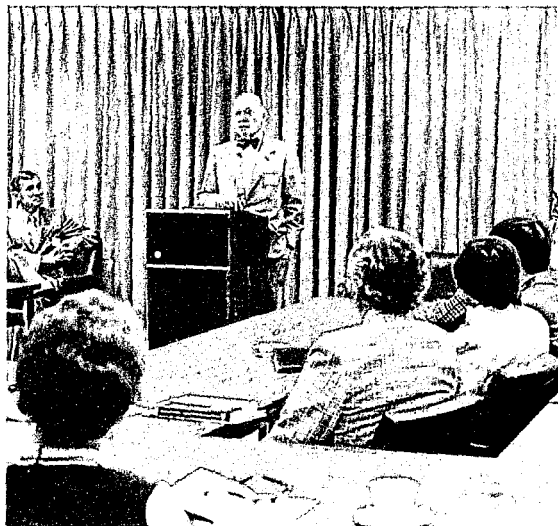
Other contributors of substantial scholarship grants are Aetna Life and Casualty; the Sloan Foundation; Gas Company of New Mexico; General Electric Company; Levi Strauss and Company; The Fleischmann Foundation; J.C. Penney Company; Mrs. Jean

Mullins Macey; Mountain States Mutual Casualty Company; Xerox Corporation; Anderson School Alumni Club; The Clinton P. Anderson Agency; and Independent Insurance Agents of New Mexico, Inc. In addition, in 1976 students at the Anderson School were designated to be the recipients of Presidential scholarships contributed by Mr. and Mrs. Lewis Kohlhaas; Hutchinson Fruit Company; The Citizens Bank, Farmington; The First National Bank in Albuquerque; and American Furniture Company.

The School is fortunate in having been able to obtain these scholarship monies. Without these funds, our School would not be able to recruit or retain outstanding students within New Mexico.

This year we are particularly proud to announce the new Robert O. Anderson M.B.A. fellowships awarded to outstanding M.B.A. applicants and supported by the School's Foundation through gifts from Mr. Robert O. Anderson.

In 1975, the School began funding a faculty research program through the Anderson School Affiliate Program and Foundation. In the same year, the School organized a Faculty Research Advisory Committee to assist the Dean in the evaluation and development of the faculty research program. The program has now been expanded through a gift from Mr. Robert O. Anderson to the School's Foundation, and through Affiliate Program support and a special budget item from the University of New Mexico for faculty research.



A large part of the School's success in recruiting and retaining outstanding faculty has been made possible through its faculty development program funded by the private sector through the Anderson School Foundation, the School's Affiliate Program, and its alumni fund-raising program. These funds support faculty research, recruiting of new faculty, and faculty travel to professional meetings to present their research and papers. Last year, for example, the private sector alone, through the School's development programs mentioned above, provided over \$6,000 for these purposes.

The faculty development program includes support for research and travel to professional meetings funded by the School's foundation, as well as a special teaching-effectiveness program conducted for our faculty in cooperation with the UNM School of Medicine. A new and most exciting faculty development program has just been funded by the Atlantic Richfield Foundation. This program will permit the Anderson School faculty to participate in the development of programs of the Aspen Institute for Humanistic Studies on a continuing basis through the Institute's worldwide centers.

Additional programs and activities made possible by the Affiliate Program and the Anderson School Foundation are the School's Top Management Briefings, the Executive-in-Residence Program, and the Distinguished Lectures in Accounting Series.

Each semester, the Executive-in-Residence Program invites outstanding management leaders from throughout New Mexico and the United States to meet the School's faculty and students. This program provides our faculty an excellent opportunity to enrich their seminars with the executive's experience and insight, and provides the latter with time and a new and stimulating environment for self-enrichment. The executives-in-residence spend from several days to a full academic year in residence. This program was initiated in 1975.

The Top Management Briefing and Distinguished Lectures in Accounting Series bring distinguished academic and management talent to meet with New Mexico's management leadership several times each year.

This year the Small Business Administration Service Corps of Retired Executives (SCORE) team joined our School. They have been planning new liaison and advisement programs for student placement in the Co-op Program and assisting in the School's Small Business Institute Program. In the latter program, teams comprised of students, faculty, and SCORE executives provide counselling to local small businesses requesting assistance from the Small Business Administration.



"The only real protection we can offer our students against the cynicism, the superficial, the pat answer, and false realism that surrounds them is early and consistent exposure to the works of men and women who have been able and willing to think hard about the human condition and to put those thoughts down with grace and aptitude."

Robert O. Anderson

LOOKING TOWARD THE FUTURE

The Robert O. Anderson Graduate School of Business and Administrative Sciences already plays a leading role in management education in the Southwest, and is recognized as having the potential to join a relatively small group of the leading graduate professional schools of management in the United States. Mr. Robert O. Anderson's willingness to lend his name to our School, and the recent attainment of independent graduate school status are significant steps in that direction. The Anderson Graduate School and its Advisory Council believe its continued development as a center of pride and academic excellence for the development of professional managers is both a worthy goal for the University of New Mexico and essential for the growth of the State.



ROBERT O. ANDERSON
*Chairman of the Board
Atlantic Richfield Company*

FACULTY

MICHAEL Q. ANDERSON

Assistant Professor

B.S., Rose-Hulman Institute of Technology, 1971; M.S., Northern Illinois U., 1973; D.B.A. Indiana U., 1977

Major area: Management Science; Operations Research.

EDWIN H. CAPLAN

Professor

B.B.A., U. of Michigan, 1950; M.B.A., U. of Michigan, 1952; Ph.D., U. of California, 1965; C.P.A.

Major area: Management information and control systems; behavioral implications of accounting.

JOSEPH E. CHAMPOUX

Associate Professor

B.S., San Diego State College, 1968; M.S., San Diego State College, 1970; Ph.D., U. of California, 1974.

Major area: Organizational behavior, research methodology, computers in social science research.

DONALD K. CLANCY

Assistant Professor

B.S., Pennsylvania State U., 1970; M.B.A., Pennsylvania State U., 1971; Ph.D., Pennsylvania State U., 1976.

Major area: Managerial accounting and information systems.

KARL CHRISTMAN

Associate Professor

B.S., Indiana U., 1948; M.B.A., Indiana U., 1952; C.P.A.

Major area: Accounting.

FRANK COLLINS

Assistant Professor

B.B.A., U. of Texas, 1960; M.S., U. of Houston, 1971; Ph.D., U. of Houston, 1974; C.P.A.

Major area: Accounting and behavioral implications of accounting.

PATRICIA ELLIOTT

Visiting Associate Professor

B.B.A., Eastern New Mexico U., 1963; M.B.A., Denver U., 1966; D.B.A., U. of Colorado, 1972.

Major area: Accounting and Taxation.

HOWARD V. FINSTON

Professor

A.B. and M.A., Stanford U., 1948; Ph.D., Stanford U., 1953

Major area: Organizational behavior, labor relations, and organizational development.

PATRICIA HALL

Lecturer

B.S., U. of Wisconsin, 1963; M.B.A., U. of Chicago, 1968.

Major area: Business and society; business history.

H. MICHAEL HAYES

Assistant Professor

B.S., U. of New Mexico, 1945; Ph.D., U. of Michigan, 1977.

Major area: Marketing management.

WILLIAM H. HUBER

Dean of the University College & Professor

A.B., Ohio State U., 1946; J.D., Ohio State U., 1947.

Major area: Law, political economic philosophy.

ROGER H. JEHEINSON

Associate Professor

B.A., U. of Louvain, Belgium, 1958; M.A. U. of Montreal, 1966; M.Ph., Yale U., 1970; Ph.D., Yale U., 1972.

Major area: Organizational behavior; psychology in administration; phenomenological social psychology.

ROBERT A. LENBERG

Professor

B.A. Brigham Young U., 1955; M.S., U. of Minnesota, 1959; Ph.D., U. of Minnesota, 1965.

Major area: Planning, organizational intelligence, integrative management, marketing, and international business.

RODRIGO LIEVANO

Assistant Professor

B.B.A., U. of Houston, 1971; Ph.D., U. of Houston, 1975.

Major area: Management science; operations research.

PERRY T. MORI

Professor

B.S., B.A., Northwestern, 1948; M.B.A., Northwestern, 1949; J.D., U. of New Mexico, 1965; C.P.A.

Major area: Accounting, law, and insurance.

R. CHARLES MOYER

Associate Professor

B.A., Howard University, 1967; M.B.A., University of Pittsburgh, 1968; Ph.D., University of Pittsburgh, 1971.

Major area: Finance.

ALLEN M. PARKMAN

Assistant Professor

A.B., Brown U., 1962; M.A., U. of California, 1970; Ph.D., U. of California, 1973.

Major area: Applied microeconomics.

JOHN PEROVICH

*Lecturer**UNM Vice President for Business and Finance*

B.B.A., U. of New Mexico, 1948; M.B.A., U. of New Mexico, 1950.

Major area: Accounting.

WILLIAM S. PETERS

Professor

B.A., Dartmouth College, 1946; M.B.A., Wharton School, U. of Pennsylvania, 1948; Ph.D., U. of Pennsylvania, 1954.

Major area: Statistical analysis, decision theory, and operations research.

JAMES L. PORTER

Assistant Professor

A.B., U. of Rochester, 1969; M.B.A., New York U., 1971; J.D., Temple U. School of Law, 1975.

Major area: Administrative law; government regulation of business.

RAYMOND RADOSEVICH

Professor and Associate Dean

B.S.E., U. of Minnesota, 1961; M.S.I.E., U. of Minnesota, 1964; M.S.I.A., Carnegie Institute of Technology, 1967; Ph.D., Carnegie-Mellon U., 1969.

Major area: Strategy and policy; management of technology; project management.

SION RAVEED

Assistant Professor

A.B., San Diego State U., 1970; M.S., Wright State U., 1972; D.B.A., Indiana U., 1976.

Major area: International business and marketing.

ROBERT R. REHDER

Dean and Professor

A.B., Depauw U., 1952; M.B.A., Indiana U., 1958, Ph.D., Stanford U., 1961.

Major area: Organization theory and organizational development.

RICHARD A. REID

Associate Professor

B.S.M.E., Case Western Reserve U., 1962; M.B.A., Ohio State U., 1967; Ph.D., Ohio State U., 1970.

Major area: Systems analysis, operations research.

DONALD G. SIMONSON

*Associate Professor**Director, New Mexico School of Banking*

B.S., U. of Illinois, 1956; M.S., Purdue U., 1963; Ph.D., U. of Michigan, 1972.

Major area: Finance.

DANIEL M. SLATE

Professor

B.S., U. of Washington, 1952; M.A., U. of Washington, 1956, Ph.D., U. of Washington, 1961.

Major area: Organizational economics and environment.

LOTHAR G. WINTER

Professor

B.B.A. U. of Freiburg, 1952; M.A. Dipl.
 rer. Pol. U. of Freiburg, 1953; Ph.D. Dr.
 rer. Pol. U. of Freiburg, Germany, 1956

Major area: International business and
 marketing management

JOHN A. YLAKEL

Associate Professor

B.S., Pennsylvania State U., 1957; M.S.,
 Pennsylvania State U., 1962; Ph.D., U. of
 Florida, 1971; C.P.A.

Major area: Financial and managerial
 accounting theory, business mergers

LEE B. ZINK

*Associate Professor**Director, Bureau of Business and**Economic Research*

B.A., Indiana U., 1959; Ph.D., Oklahoma
 State U., 1967

Major area: Economics



ADVISORY COUNCIL

Maxie Anderson

Chairman

President, Ranchers Exploration and Development Corporation

J.T. Michelson

Vice-Chairman

Anderson School Foundation

Board of Trustees

President, Sunbell Corporation

Robert B. Anderson

President, Lincoln County Land and Cattle Company

Robert O. Anderson

Chairman of the Board, Atlantic Richfield Company

Sherburne Anderson

President, Clinton P. Anderson Agency, Inc.

Joe Baca

Executive Director, All Indian Development Association

William T. Barnhouse

President, Gas Company of New Mexico

Kenneth C. Bonnell

Executive Vice President, Bank Securities, Inc.

D.E. Boyle

President, Dale Bellamah Corporation

J. Larry Carter

President, The First National Bank in Albuquerque

George A. Chant

President, Chant Corporation

Charles Crespy

President, GABS, The Anderson Graduate School of Business

Jack Daniels

Chairman of the Board, Daniels Insurance, Inc.

William E. Davis

President, The University of New Mexico

John Dendahl

President, Eberline Instrument Corporation

Gaylord Freeman

Honorary Chairman, First National Bank of Chicago

Joe R.G. Fulcher

Attorney at Law

Hickum L. Galles

President, Galles Chevrolet

Robert M. Goodman

President, Goodman and Associates

Hugh J. Graham, Jr.,

President, Albuquerque Federal Savings & Loan Association

Avelino V. Gutierrez

Chairman of the Board, Plaza del Sol National Bank

Richard W. Heim

Director, Health Care Management Division, Kirschner Associates

Benigno C. Hernandez

Judge, New Mexico Court of Appeals

Thomas R. Horton

Director of University Relations, IBM Corporation, Armonk, N.Y.

Art Janpol

President, Art Janpol Volkswagen, Inc.

Henry Jaramillo, Jr.

President, Ranchers State Bank, Belen

George S. Jenks

Chief Executive Officer, Albuquerque National Bank

Col. Bradley J. Johnson

Chief, Personnel Division, Kirtland Air Force Base

Franklin Jones

Attorney at Law

James E. Killorin

Vice President and General Manager, Mountain Bell Telephone

Richard R. Leveille

General Manager, Kennecott Copper Corporation, Chino Mines Division

Ralph Looney

Editor, Albuquerque Tribune

Jean Mullins Macey

Anderson School Alumna

Arthur Maciszewski

President, ARF Products, Inc.

Cyrene Mapel

Vice President, First New Mexico Bankshare Corporation

Milo McGonagle

President, First National Bank of Santa Fe

Robert J. Nordhaus

Attorney at Law

Gordon W. Paul

Partner, Peal, Marwick, Mitchell & Co.

Bruce J. Pierce

President and Chief Executive Officer, Bank of New Mexico

George A. Schreiber

Chairman of the Board, Public Service Company of New Mexico

Morgan Sparks

President, Sandia Laboratories

William White

President, Santa Fe National Bank

Thomas J. Wortman

Vice President and General Manager, GTE Lenkurt, Inc.

Raymond Zimmer

*Secretary-Treasurer, Anderson School Foundation Board of Trustees
Partner, Peal, Marwick, Mitchell & Co.*

ANDERSON GRADUATE SCHOOL FOUNDATION BOARD OF TRUSTEES

J.T. Michelson
Chairman
President, Sunbell Corporation

Maxie Anderson
Vice Chairman
President, Ranchers Exploration and
Development Corporation

Raymond Zimmer
Secretary-Treasurer
Partner, Peat, Marwick, Mitchell &
Company

Rita Adkins
Manager, Credit Life Division, Pargin
Realty

George A. Chant
President, Chant Corporation

Douglas Collister
President, Kistler-Collister, Inc.

Robert M. Goodman
President, Goodman and Associates

Art Janpol
President, Art Janpol Volkswagen, Inc.

George S. Jenks
Chairman of the Board and Chief
Executive Officer,
Albuquerque National Bank

Harry F. Lee
Rancher

Milo McGonagle
President, First National Bank of
Santa Fe

Bruce J. Pierce
President and Chief Executive Officer,
Bank of New Mexico

ALUMNI CLUB OFFICERS

Gary L. Pierson,
Vice President, Sunbell
Corporation - President

Bernard E. ("Gig") Brummell,
Office Manager,
Dean Witter & Company - First Vice
President

Frank Bachicha, Jr.
Attorney at Law-Second
Vice President

Thomas L. Popejoy, Jr.,
Attorney at Law - Secretary

Jo Ann Hunter,
Secretary-Treasurer, Hunter Lumber
Company - Treasurer

Accounting

Professor Perry T. Mori,
Area Coordinator
Professors Edwin H. Caplan, Karl
Christman, Donald K. Clancy,
Frank Collins, Patricia Elliott, John
A. Yeakel

Accounting Alternatives in
Portfolio Selection

Alternate Accounting Systems:
Their Genesis

Bankers - Accountants - Financial
Statements: Their Relationship to
Small Business Loan Decisions

Budgetary Response Attitudes

Case Studies in Management
Accounting

Contingent Payment Obligations

Cost Benefits and Causes of
Informal Information Systems

Informal Information — An
Exploratory Study

The Interaction of Budgetary
Characteristics and Personality
Variables with Budgetary
Response Attitudes

Making it in a CPA Firm

The Management Control
Problems of Responsibility
Accounting

The Materiality Game¹

A Note on Dilutionary Exchanges
and Financial Reporting

Supplementary Text for
Introductory Accounting

Range Estimates in Financial
Statements

Relative Effects of Operant
Conditioning and Participation in
Budgeting²

Financial Management

Professor Donald G. Simonson, Area
Coordinator
Professors R. Charles Moyer, John
A. Yeakel

Allocation of State Idle Funds and
Investment Performance by State
Treasurers

Allocational Efficiency and the
Mutual Fund Industry³

Capital Adequacy among Money
Center Banks

Demand for Mutual Funds

A Simulation of Cyclical Behavior
in Commercial Banking

Human Resources Management

Professor Howard V. Finston, Area
Coordinator
Professors Joseph E. Champoux,
Roger H. Jehenson, Robert R.
Rehder

The Bureaucratization of Higher
Education: Educational
Dysfunction

Case Studies in Management
Accounting⁴

Employee Reactions to the Open
Space and Records and
Communications Center
Concepts in the State Office of the
Soil Conservation Service

Explicit and Implicit Costs
Associated with Participative
Management

Job Design and Motivation

A Longitudinal Study of Job
Change: A Serendipitous Field
Experiment

Mid-Career Management
Education in Australia

A Moderated Regression Analysis
of Growth Need Strength in the
Hackman-Oldham Theory of Job
Design

Personality Characteristics and
Adjustment to Work

Relative Effects of Operant
Conditioning and Participation in
Budgeting⁴

Selected Case Studies in Labor
Arbitration

The Social Distribution of
Knowledge in Formal
Organizations

Study of National Labor
Relations Board Decisions

Survey of Perceived Job
Characteristics and Job Attitudes
at Los Alamos Scientific
Laboratory

Work and Non-Work: A Review
of Theory and Empirical
Research

Management Science

Professor William S. Peters, Area
Coordinator
Professors Michael Q. Anderson,
Rodrigo J. Lievano, Richard A. Reid

Allocational Efficiency and the
Mutual Fund Industry³

Analysis of Longitudinal Nursing-
Home Patient Assessment Data

A Commercial Loan Officer
Development Game

Computer-Based Information Systems for Small Firms

Development of an Empirically Based Model to Predict Total Time Spent by Patients in a Rural Primary-Care Clinic

Development of Research Design for Evaluation of a Rural Health-Care Delivery System

Graphic Projections of Semantic Values

The Impact of New Mexico Environmental Protection Regulations on the Cost of Refining Crude Oil

A Loan Officer's Simulation Game

Models for Evaluating Probability Assessors

A Semantic Interpretation of Changes in Conceptions of the Good Life

State Transitional Probabilities Determination for Nursing-Home Patients

The Use of Fuzzy Sets in Management Science and Information Systems.

Marketing Management and International Management

Professor Robert A. Lenberg, Area Coordinator
Professors Michael Hayes, Sion Raveed, Lothar G. Winter

An Analysis and Synthesis of Long-Range Strategic Corporate Planning Theories and Practices

Conflict of Interest between Multinational Companies and Developing Host Countries

International Interdisciplinary Teamwork⁶

Survey of Executive Management Programs in the United States and Western Europe⁶

Thoughts on Executive Programs: A Search for New Balances⁶

Organizational Economics and Environment

Professor Daniel M. Slate, Area Coordinator
Professors Patricia Hall, William H. Huber, Allen M. Parkman, James L. Porter

Agency Law: Legal Reality versus Consumer Perception

Board of Director Liability

The Fallacy of Government Demand

The FCC and Diversity of Ownership: Legal and Economic Analysis

The Impact of Minimum Wage Legislation on the Optimal Size of Firms

The Minimum Wage and the Optimal Size of Firms in Retail Trade

The Minimum Wage and Small Business

Simultaneous Legal and Illegal Demand for Prescription Drugs

Survey of Executive Management Programs in the United States and Western Europe

A Theory of Black Market Demand

Thoughts on Executive Programs: A Search for New Balances⁶

International Interdisciplinary Teamwork⁶

The Materiality Game⁶

Planning

Associate Dean Raymond Radosevich
Professor Robert Lenberg

Characteristics of Technical Changes in Small and Medium-Size Industrial Farms in Sao Paulo, Brazil

Designing Innovative Systems

Planning and the Implementation and Control of Plans in Research Organizations

The Management of Technology in Development Projects

*Organizational Economics and Environment Area participated in this research.

*Human Resources Management Area participated in this research.

*Management Science Area participated in this research.

*Accounting Area participated in this research.

*Financial Management Area participated in this research.

*Organizational Economics and Environment Area participated in this research.

*Accounting Area participated in this research.

*International Management Area participated in this research.

