

cal poly report



CALIFORNIA POLYTECHNIC STATE UNIVERSITY
SAN LUIS OBISPO, CALIFORNIA 93407

Volume 28, No. 34

April 7, 1977

DEPARTMENT HEADS NAMED

President Robert E. Kennedy, on the recommendation of Jon M. Ericson (Dean, Communicative Arts and Humanities) and endorsement of Hazel J. Jones (Vice President for Academic Affairs), has made two acting department head appointments in the School of Communicative Arts and Humanities. Appointed to head the Philosophy Department is Russell A. Lascola, who will serve in the position from Mar. 24, 1977 through the 1978-79 academic year. This appointment was made on the retirement of James T. Culbertson, who has been at Cal Poly for 24 years and has been department head for 6 years.

Dr. Kennedy also appointed Harry Sharp as acting department head for the Speech Communication Department to serve for the 1977-78 academic year. James R. Emmel, who has been at Cal Poly since 1967 and department head since 1968, will return to full-time teaching.

On the recommendation of Warren W. DeLey (Associate Dean, Social Sciences) and with the endorsement of Hazel J. Jones (Vice President for Academic Affairs), Dr. Kennedy also appointed Michael J. O'Leary as acting department head for the Social Sciences Department for the 1977 Spring Quarter only. Mahmud S. Hariri is on an advance quarter with pay and will return during the 1977 Fall Quarter.

POWER CONTROL WORKSHOP COMING

The precise control of electrical power systems will be the topic of a professional workshop at Cal Poly on Thursday and Friday (Apr. 28 and 29). The Power System Control Workshop, sponsored by the Cal Poly Electric Power Institute, will open at 8:15 am on Thursday (Apr. 28), and continue through 4 pm the following day. Workshop coordinators William F. Horton and Saul Goldberg (both Electrical and Electronic Engineering) have organized the program around four main topics -- energy management and conservation, regulation and tie line control, data management and processing, and energy control centers.

Keynote speaker for the workshop will be a man Dr. Horton calls "a pioneer in his field." Nathan Cohn, who has spent 50 years in the electrical power industry, will describe the dramatic changes that have occurred in the industry. Now a consultant with headquarters in Jenkstown, Pa., Cohn has watched the control systems develop from hand thrown switches to electronically operated switches and computer forecasting that predicts the amount of electricity needed within a utility system. Information on the Power System Control Workshop can be obtained by writing to Dr. Horton in care of "Electric Power Institute, California Polytechnic State University, San Luis Obispo, Calif., 93407."

FOOD SERVICE HOURS - EASTER WEEKEND

Everette Dorrrough (Foundation Food Service Director) has listed the Food Service hours of operation that will be applicable on Easter Weekend.

Vista Grande Restaurant	- Friday, April 8	- 11 am to 8 pm
	Saturday, April 9	- 11 am to 8 pm
	Sunday, April 10	- 11 am to 8 pm SPECIAL EASTER DINNER
Vista Grande Cafeteria	- Friday, April 8	- Breakfast 7 am to 9 am Lunch 11 am to 1 pm (Closed after 1 pm)
Student Dining Hall	- Friday, April 8	- Breakfast 6:30 am to 9:30 am Lunch 10:30 am to 1:30 pm Dinner 4:30 pm to 7 pm
	Saturday, April 9	- Breakfast 9:30 am to 12 noon Lunch 12 noon to 2 pm Dinner 5 pm to 7 pm
	Sunday, April 10	- Breakfast 9:30 am to 12 noon Lunch 12 noon to 2 pm Dinner 4:30 pm to 7 pm
Snack Bar	- Friday, April 8	- 7 am to 4 pm
	Saturday, April 9	- Closed
	Sunday, April 10	- Closed
Sandwich Plant	- Friday, April 8	- 6 am to 1 pm
Staff Room	- Friday, April 8	- 7 am to 4 pm
Burger Bar	- Friday, April 8	- 10 am to 4 pm
	Saturday, April 9	- Closed
	Sunday, April 10	- Closed
Ice Cream Parlour	- Friday, April 8	- 11 am to 4 pm

REMINDER ON PURCHASING DEADLINES

Submission deadlines for purchase requisitions chargeable to current year expiring appropriations are listed below. Requisitions must be in the Purchasing Office by the following dates:

Apr. 15 - Non-contract supplies or equipment costing more than \$1,000.

May 31 - Supplies or equipment costing less than \$1,000.

Purchase requisitions received in the Purchasing Office after May 31 will be charged against 1977-78 funds. Chargeback accounts for copying, duplicating and campus store-room supplies will be closed out on May 25 for fiscal year 1976-77. Beginning May 26, all expenditures for these supplies and services will be charged to fiscal year 1977-78 funds. For additional information or clarification, please call the Purchasing Office at Ext. 2231.

PUPPETRY MASTER CLASS ANNOUNCED

Three educator/puppeteers with international reputations will teach a master class at Cal Poly this coming August. Offered in conjunction with the 38th National Festival of the Puppeteers of America, the Master Class is designed for advanced professionals and students in the growing field of puppetry.

George Latshaw, Kermit Love, and Albrecht Roser will conduct the week-long class, which will range in subject matter from the construction and manipulation of puppets to the puppet as actor, and audience psychology. The class, offered jointly by the Speech Communication Department, Special Programs Office, and Continuing Education Office, is strictly limited in enrollment.

Latshaw, one of America's most creative puppeteers, is no newcomer to university teaching. He has appeared numerous times on television in the United States, and recently in England and Wales. He has also taught puppetry in Holland and Puerto Rico. Latshaw was the first editor of the Grapevine, the original publication of the Puppeteers of America.

Love's work in puppetry is best known in this country as a result of his association with the Muppets, for whom he has designed many of the characters seen on television's "Sesame Street" and "Muppet Show." His recent production of a new puppet play, "Chopsticks," using full-body puppets, at the University of Hawaii was highly acclaimed.

Roser, Germany's leading puppeteer, has toured the world with his famous leading puppet, Gustaf. Roser, twice winner of the gold medal of the International Marionette Union (UNIMA), has performed in Europe, Asia, and Australia, as well as both North and South America. He has been artist-in-residence this spring at the University of Connecticut.

The Puppetry Master Class will be offered from Aug. 8-13. The Puppetry Festival Workshop will coincide with the National Festival of the Puppeteers of America, to take place on the university campus from Aug. 14-19. The \$120 fee for the Master Class includes all tuition, credit fees, supplies and materials, handouts, and lunch each day, Monday through Friday. The \$40 Festival Workshop fee includes tuition, credit fees, and materials. For additional information, as well as registration materials, persons interested are encouraged to write to the Special Programs Office or telephone Ext. 2158.

CHILDREN'S PUPPET PERFORMANCES SCHEDULED

A program of free puppet shows for elementary school age children will be presented by the students in children's drama classes at Cal Poly on Monday (Apr. 18) and Wednesday, (Apr. 20). The puppet shows will be presented in Davidson Music Center 212 at 10:10 am and again at 1:10 pm both days. Each show will last approximately one hour, according to Michael Malkin (Speech Communication).

Due to limited seating, reservations are required for the shows. Teachers or other qualified group leaders should call Dr. Malkin at 546-2486 for reservations. The shows are most suitable for children in grades one through five according to Dr. Malkin.

Typewritten copy intended for the next issue of Cal Poly Report must be received prior to 12 noon on Tuesday (Apr. 11) in the Public Affairs Office, Adm. 125. Copy intended for Cal Poly Dateline is due in the Public Affairs Office by 12 noon on Wednesday (Apr. 13).

AUTO ENGINEERS WIN AWARD

The Society of Automotive Engineers (SAE) has named the student chapter at Cal Poly as one of its outstanding student branches for 1976. The award, which includes a plaque and a \$100 check, is made to "the chapter most active in engineering related projects," according to Jim Axtell, president of the Cal Poly group. Many of the chapter's activities have involved designing and constructing vehicles for off-road competition. The chapter also has built a turbo-charged, four-cylinder engine that runs on propane gas for a clean air race.

ANNUAL BLOOD DRIVE COMING

This year's annual campus blood drive will be held in Chumash Auditorium on Thursday (Apr. 14) from 9 am to 4 pm. Each year the Student Health Center sponsors the drive to replenish the blood bank account. The account is made available to all students, staff, faculty and immediate family members. The Cal Poly Wives' Club, and Gamma Sigma Sigma will assist in sponsoring the project. Refreshments will be served to all donors. All students, staff, and faculty are urged to donate. No appointment is necessary.

WIVES' CLUB ACTIVITIES PLANNED

The Apr. general meeting of the Cal Poly Wives' Club will be held in a new location -- the multi-purpose room of the C. L. Smith School, Laguna Lake area at 8 pm on Tuesday (Apr. 12). Robert G. Reynolds (Architecture) and James H. Hayes (Journalism) will present a slide illustrated report of research done this past summer of paintings and prose dealing with the Central Coast. Members and their guests are invited.

Cal Poly Wives' Club May luncheon tickets are now on sale and may be purchased from Section Chairmen or at the general meeting on Apr. 12. Early purchase of tickets will greatly assist the luncheon committee.

LIBRARY EXHIBIT FOR APRIL

The Library's exhibit for the month of April is sponsored by the History Department and is entitled Symbols of Tyranny. It consists of a collection of paraphernalia, including posters, medals, swords, armbands, etc. from Germany's Nazi Regime. The exhibit which was arranged by history student W. A. Pierce, includes several book titles from the Library's collection, including The History of the Nazi Party, by Orlow, The Third Reich, by Lichtenberger, The Face of the Third Reich, by Fest, and others.

ANNOUNCEMENT OF CAL POLY FOUNDATION BOARD MEETING

The Board of Directors of the California Polytechnic State University Foundation will hold a regular meeting on Tuesday, April 19, at 1:30 pm in Conference Room 409; Admin. Bldg. on the California Polytechnic State University campus in San Luis Obispo, California. This is a public meeting. For further information about this meeting, or to obtain a copy of the meeting agenda, contact Al Amaral (Executive Director, Cal Poly Foundation) in University Union 212, or call Ext. 1131.

UNIVERSITY CLUB LUNCHEON PROGRAMS - 1977 SPRING QUARTER

The University Club meets each Thursday noon in the Staff Dining Hall. For fun, fellowship and an informational lunch hour, bring or buy a lunch in the cafeteria line for the programs listed below:

- Apr 7 Aryan Roest - Rural Russia-Slide presentation
- Apr 14 Vaughan Hitchcock - Views of the Montreal Olympics and Cal Poly Wrestling
- Apr 21 Ron McCullough - Operation of Hearst Castle
- Apr 28 George Brand - "For 15¢ Per Day"
- May 5 Connie Breazeale - Italian Cuisine
- May 12 Fred Wolf - New Directions in American Railroads
- May 19 Presentation by the Majors and Minors
- May 26 David Sanchez - Folk Guitarist
- June 2 Luncheon with President and Mrs. Kennedy on the President's patio

OPEN ENROLLMENT FOR LIFE INSURANCE PLAN

An open enrollment period, from April 1 through 30, has been announced for the term life insurance program sponsored by The California State University and Colleges System and underwritten by Northwestern National Life Insurance Company. This term life insurance plan offers a constant insurance amount with a premium increase at each three (3) year interval based on the insured's attained age; does not require enrollment in any other plan; does not require membership in employee organizations; and is available through payroll deduction.

During the designated open enrollment period all eligible California State University and Colleges employees under 60½ years will be able to obtain life insurance coverage without a medical examination or other evidence of insurability. Materials concerning this plan are currently being distributed to all university employees by Northwestern National Life Insurance Company. If you have any questions concerning this plan, please call Barbara Melvin in the Personnel Office at Ext. 2236.

SUPPORT STAFF VACANCIES

Vacant support staff positions have been announced by Robert M. Negranti, Staff Personnel Officer. Descriptions of the positions and other vacancies are posted outside the Personnel Office, Adm. 110, ext. 2236. Applications shall be on official forms. Contact the Personnel Office to obtain an application. This University is subject to all laws governing affirmative action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments.

Clerical Assistant II-B, (\$719-\$859/month), one position available in Center for Career Development, Student Affairs Division. Temporary to start 4/11 thru 6/30/77. Duties: transcribe dictated memos and letters, sort and distribute mail, prepare purchase requisitions, conduct telephone business within University, and other clerical functions. Requirements: type 45 wpm, shorthand 90 wpm, must be a high school graduate and have taken the General Clerical Test. Good verbal skills and some college work desirable. Closing date: 4/14/77.

WHO...WHAT...WHEN...WHERE???

O. Robert Noyes (Food Industries) has recently published a paper titled "Effect of Mercury on NADH and the Protective Role of Oxaloacetate" in Vol 17, Number 1 of the Bulletin of Environmental Contamination and Toxicology.

Richard J. Krejsa (Biological Sciences) has completed giving a special mini-course (6 Fridays) in "Conservation and Camping" to a group of twelve 4th and 5th graders at Mission-Nativity School. The course encompassed lectures on basic principles of conservation, natural resources and practical applications of these to food, clothing, shelter, and equipment used in hiking, mountaineering and camping. The class ended Apr. 1 with a field trip and hike along Cuesta Ridge.

John B. Wordeman (Head, Graphic Communications), Eugene F. Coleman and William J. Pyper (both Graphic Communications) were guests on Mar. 17 and informal speakers at a meeting of Graphic Arts Industry, a regional trade association in Santa Barbara. The group represents commercial and inplant printers, publishers and graphic arts suppliers in the Central Coast area. The theme of the meeting was graphic arts education.

Robert J. Rodin (Biological Sciences) has a photo display of pictures taken in South West Africa, being shown in Jim's Campus Camera during the first two weeks of Apr.

Walter P. Schroeder (Head, Education) served on the accreditation revisitation to the Paso Robles Union High School District, Mar. 15.

Kenneth S. Ozawa (Physics) is co-author of a two-volume project report titled, Physical and Biological Effects of Thermal Discharges at La Cygne Lake. This study covers the effects of discharging approximately 500,000 gallons per minute of heated water into the 2,600 acre lake built to cool an 800 mega-watt fossil fuel electric generating plant. This project was funded with \$150,000 by U. S. Department of Interior, Office of Water Research and Technology, and Kansas Water Resources Research Institute.

Mary A. Norton (Physics) has accepted a summer research appointment, a NSF grant, at University of California, Santa Barbara in Herbert Broida's laboratory engaged in molecular and solid state spectroscopy. She plans to utilize the latest laser spectroscopy techniques to study particle formation and homogeneous versus heterogeneous nucleation.

Paul R. Neel (Director, Architecture and Environmental Design) attended the National American Institute of Architects Continuing Education Committee Steering and General Meetings as regional representative from the C.C.A.I.A. and participated in policy recommendations. The meeting was held at the University of Kentucky Mar. 3-7.

Ilene Rockman (Library) attended a T.I.E. advisory board meeting at Westmont College in Santa Barbara, Feb. 18. Among topics discussed were the new microfiche catalogs to be distributed this spring and the revised membership directory. Rockman also attended a California Library Association Intellectual Freedom Committee Meeting at California State University, Northridge, Feb. 23.

L. Joe Glass (Agricultural Engineering) served as a resource person from this area to the emergency hearing on the drought meeting conducted by Congressman Leon Panetta at Salinas on Mar. 12. Congressman Panetta held the hearing to receive testimony from local farmers, representatives of government agricultural agencies, and other public officials on the extent of drought-related problems, the types of assistance available from the government, and the effectiveness of current federal disaster relief programs.

NEW EMPLOYEES, TRANSFERS AND PROMOTIONS

Donald L. Shelton (Director of Personnel Relations) announces the following appointments to new positions, lateral transfers and promotions in the support staff personnel for February and March, 1977. A hearty welcome is extended to the new members of the Cal Poly staff and congratulations to those that have been promoted!

NEW EMPLOYEES

Belveal, Patsy S.	Clerical Assistant II	General Office
Clower, Diane D.	Clerical Assistant II	General Office
Donahue, Debra A.	Clerical Assistant II	Personnel
Enos, Johanna	Clerical Assistant II	Health Center
Geoghagen, Locksley	Student Affairs Assistant I	Educational Opportunity Program
Grieb, Janis M.	Intermediate Account Clerk	Financial Operations
Hutten, Allana J.	Clerical Assistant II	Admissions & Records
McCarthy, Joan E.	Clerical Assistant II	Mathematics
McFarland, Daniel E.	Custodian	Plant Operations
McGrew-Elkins, Kim E.	Clerical Assistant II	Health Center
O'Flaherty, Susan	Student Personnel Technician	Financial Aid
Peng, Charlene G.	Payroll & Personnel Transaction Clerk	Personnel
Rich, Ted K.	Head Resident I	Housing
Ruiz, Benjamin	Custodian	Plant Operations
Steward, Martha J.	Clerical Assistant II	Architecture
Stout, Karen	Custodian	Plant Operations
Wilson, Sherrie L.	Clerical Assistant II	Admissions & Records

PROMOTIONS

Silva, Rosemarie R.	Clerical Assistant III	Admissions & Records
Taylor, Shirley A.	Departmental Secretary II	Engineering Technology

TRANSFERS

Woody, Dorothy V.	Clerical Assistant II	School of Business
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WHO...WHAT...WHEN??? (continued from page 6)

Edgar A. Hyer, John A. Rogalla, Gaylord Chizek, H. Clay Little, Douglas Genereux, David Schaffner, and Duane Seaberg (all Agricultural Management) attended the second annual teaching improvement conference for instructors in Agricultural Economics-Business-Management. This conference was held on the California State University, Fresno campus Mar. 26. Faculty members participating in the meeting were from campuses at Chico, Fresno, Pomona, and San Luis Obispo. Genereux and Schaffner presented results of a survey of agricultural management, and Seaberg made a presentation concerning the internship program.

Joanne B. Ruggles (Architecture and Art) has had one of her serigraphs selected to hang in the 53rd Annual National April Art Exhibit sponsored by Utah's Springfield Museum of Art.

Habib Sheik and Robert Lint (both English) attended the state conference of the California Association of Teachers of English to Speakers of Other Languages (CATESOL) in San Diego, Mar. 24-27.

CANDIDATES FOR FACULTY POSITIONS BEING SOUGHT

Candidates for positions on the faculty of the University are presently being sought, according to Donald L. Shelton, (Director, Personnel Relations). Those interested in learning more about the positions are invited to contact the appropriate dean or department head. This University is subject to all laws governing affirmative action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendment Act. All interested persons are encouraged to apply.

Lecturers, (\$13,572-\$18,756/Academic Year, salary quoted is for full-time and will be adjusted according to assignment and qualifications). School of Architecture and Environmental Design anticipates openings for part-time employment in Architecture, Architectural Engineering, City & Regional Planning, Construction Engineering and Landscape Architecture starting the Fall Quarter 1977-78 AY. Applicants must submit brochure of original work for review and must possess a master's degree. Prefer candidates with California registration and teaching experience. Closing date: 5/1/77.

Lecturer, (\$6,786-\$13,026/year, dependent upon qualifications), Transportation Engineering Department, School of Engineering and Technology. Half-time position teaching courses in professional practice, transportation engineering fundamentals, transportation materials, engineering computer applications, or any combination of the above. Ph.D. in Civil or Transportation Engineering and 5 years of minimum pertinent industrial experience required. Teaching experience and PE License desired. Position is for 1977-78 Academic Year only. Closing date: 4/30/77.

Lecturer, (\$3,393-\$6,513/year, dependent upon qualifications), Transportation Engineering Department, School of Engineering and Technology. Part-time (.25) position teaching courses in transportation materials, transportation drainage systems, highway design, highway and airfield pavement design, or other similar Transportation Engineering courses. B.S. in Civil Engineering and 5 or more years of appropriate industrial experience and PE License required. Teaching experience in above areas also required. This position is for the 1977-78 Academic Year only. Closing date: 4/30/77.

Lecturer, (\$13,572-\$17,088), Production Management/Industrial Management, Management Department, School of Business. Opening for full-time position. Appropriate doctorate for ABD with specializations in Management Information Systems and Production Management. Appropriate experience desirable. Position available: 9/77. Closing date: 4/22/77.

Lecturer, (\$4,128-\$8,684/Quarter), two full-time positions for Summer Quarter 1977, Accounting Department, School of Business, beginning 6/20/77 thru 9/1/77. Doctorate in Accounting preferred, Masters and/or CPA will be considered. Closing Date: 5/16/77.

SPECIAL EASTER DINNER AT VISTA GRANDE

Vista Grande Restaurant will hold a special Easter dinner Sunday (Apr. 10) between the hours of 1 pm and 8 pm. The menu will include soup or salad, baked honey glazed ham or roast choice top round of beef with natural gravy, baked Idaho potato with sour cream and chives or candied yams, savory green beans, freshly baked sesame seed rolls and butter, apple or cherry tart, and choice of small beverage. Cost of the dinner will be \$4.95 per person with a child's plate available for \$2.75. Reservations are recommended.

REMEMBER TO SAVE ENERGY



STAFF SENATE ELECTIONS NOTICE*****

The Staff Senate Elections Committee is currently accepting nominations for Staff Senators for the 1977-78 year. Vacancies to be filled exist in the following service areas: Administration, Business Affairs, Student Affairs, School of Business, Division of Social Sciences, School of Communicative Arts and Humanities, School of Science and Mathematics, and Auxiliary Services (ASI and Foundation). Nominees must be staff members who are employed more than half-time in appropriate service areas and have worked at the University for a full year. Nominations may be made by filling out the nomination form below and returning it to the Elections Committee, in care of Anna Boken, Chase Hall 218 (ext. 2070) by Wednesday, April 13.

I nominate _____ to serve as a staff senator from
(name of nominee)

the _____.
(service area)

(signature)

I accept the nomination for Staff Senator. I am employed more than half time and have worked at the University for a full year.

(signature of nominee)

encouraging notes

April 7, 1977

NSF - SCIENTISTS AND ENGINEERS IN ECONOMIC DEVELOPMENT PROGRAM. Through a special program called Scientists and Engineers in Economic Development (SEED), funded by the Agency for International Development, the NSF provides support for individual U.S. scientists and engineers to apply their experience to specific problems of development in various specified countries.

Program objectives are to enable U.S. scientists and engineers to share experiences with their counterparts in developing countries through the conduct of specific research and education projects contributing to the economic development of the host country, to establish long-term collaborative relationships between U.S. and foreign institutions, and to increase the capability of scientific and technical institutions in developing countries to contribute to economic development.

Applicants are limited to scientists and engineers from U.S. academic institutions with at least five years of postdoctoral or equivalent experience in teaching or research and who will return to their institutions on completion of the project. Proposals will be considered in the following fields: engineering, physical sciences, earth sciences, biological sciences, social sciences, and science education.

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NSF - PUBLIC SERVICE PROGRAM. As many as 25 residencies for scientists and engineers and 25 internships for students will be awarded under the first competitive round of NSF's Program of Public Service Science Residencies and Internships, NSF reported last week. Focus of program activities will be on providing citizens with scientific information needed to make rational decisions affecting their daily lives; included could be such projects as research, preparing informational materials, providing expert advice and providing informal education activities such as seminars, lectures or workshops. Residents and interns will work with host organizations that serve important public purposes, such as educational institutions, professional associations and societies, state and local government agencies, trade unions and citizens' organizations.

Residencies, amounting to \$18,000 per year, are available to persons who possess a doctorate in science (including engineering, mathematics and social sciences) or equivalent professional experience and qualifications. Internships, amounting to \$5,000 per year, are available to graduate students and students who have completed at least three years of undergraduate studies by the time they begin their internships. Internships may be for 6-12 month periods, while residencies are normally for 12 months. DEADLINE: *May 15, 1977.*

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NSF - SCIENCE RESOURCES DATA BASES AND RELATED STUDIES. The Division of Science Resources Studies (SRS) is seeking proposals for its Program Analytical Awards-Science Resources Data Bases and Related Studies (77-7). The awards will be for in-depth analysis and integration of data developed by SRS on scientific and technological activities, and for related studies.

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NSF - ETHICS IN SCIENCE & TECHNOLOGY. Preliminary proposals for NSF's Ethics and Values in Science and Technology Program must be submitted by *May 1, 1977*. Formal proposals will have a deadline of *August 1, 1977*.

The program supports research, conferences, workshops, and other activities designed to reach the following objectives: (1) increased understanding of the ethical problems and value conflicts generated by scientific and technological developments, as they affect both the scientific community and the larger society; (2) increased understanding of the impact of changing ethical and social standards on the scientific and technological enterprise, including the establishment of research priorities and the conduct of research; and (3) increased understanding of the processes of interaction between science and society which generate value conflicts and which lead to their resolution. (SE 77-62)

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DOL - DEVELOPMENTAL GRANT RESEARCH AWARDS. Funding will be provided for a limited number of Developmental Grant Research Awards for Conceptual Research on Labor Market Problems/Issues Concerning Hispanic American. None of the awards will exceed \$15,000/12 months. They will support and encourage investigative and analytical work in areas concerning the employment and training experience of Hispanic Americans. The research work produced under these awards is expected to be conceptual in nature, aimed at enhancing or synthesizing knowledge about processes, conditions, or methods relevant to the labor market problems and issues concerning this population group. The results of this research effort may lead to support of further work in this area. DEADLINE: *May 20, 1977*.

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EDUCATIONAL POLICY FELLOWSHIPS. Applications for Educational Policy Fellowships are now being accepted by George Washington University's Institute of Educational Leadership. For more information, contact the Research Development Office, 2982. DEADLINE: *April 18, 1977*.

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NEA - WORK EXPERIENCE INTERNSHIP PROGRAM. The National Endowment for the Arts has set *June 17* as the deadline for Fall 1977 applications to its Work Experience Internship Program. The Fall 1977 Internship period will be between September 19 through December 16, 1977. The Internship Program is designed to provide arts administrators or potential arts administrators with an intensive awareness of the policies, procedures, and operations of the NEA and to give them an overview of arts activities in the U.S. Each intern is assigned to one of the Endowment's program or Administrative areas to gain a functional view of the Endowment's daily operations. Time is also spent in meetings and seminars with Endowment officers, staff, and panelists; artists, journalists, Federal officials, and leading arts administrators. Participants are selected on a competitive basis according to their academic background and prior professional experience, and grants include a fellowship stipend of \$2,210 plus round-trip transportation expenses. For guidelines and application materials, contact: Intern Program Officer (Mail Stop 557), National Endowment for the Arts, Washington, DC, 20506, (202) 634-6380.

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NSF - WORKSHOPS ON AQUATIC AND TERRESTRIAL RESEARCH IN ARCTIC ALASKA. NSF will sponsor two workshops on research in arctic Alaska. A three-day workshop starting April 29 will be held in Seattle, Washington, to discuss terrestrial research; a two-day workshop will be held at Woods Hole, Massachusetts, starting May 4 to discuss limnological research. The object of the workshops is to review the current state of knowledge and to identify important questions requiring further research. The results will be incorporated into a plan for arctic-integrated research proposals.

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NIE - RESEARCH ON ORGANIZATIONAL PROCESSES IN EDUCATION. The National Institute of Education has set application deadlines in April and July for proposals to its new program of Grants for Research on Organizational Processes in Education. The program will support studies of how elementary and secondary schools and school districts carry out the essential tasks of any organization, such as setting goals, finding resources, assigning work, monitoring performance, identifying and solving problems, and adapting to changing times. Two kinds of grants will be awarded: (a) small grants will be limited to a maximum of \$7,500 and to 12 months duration; (b) regular grants may be up to three years in duration and will be awarded funds in annual increments. DEADLINES: *April 15, 1977* for small grants; *April 15, 1977* or *July 15, 1977* for regular grants.

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NSF - OCEANOGRAPHY SECTION. The Oceanography Section is seeking unsolicited research proposals to increase the store of scientific knowledge and enhance understanding of the scientific aspects of major problems confronting the nation in the marine environment. Most of the research is basic in character, although some work of a more applied nature is also supported. Specific programs include:

Biological Oceanography Program - The nature and distribution of marine life in terms of how the numerous types of organisms function individually and within communities and their interactions with their physical and chemical environment.

Marine Chemistry Program - Distribution of chemical elements and compounds in the oceans and large lakes; understanding the distribution in terms of where these components have come and are going, and how they are modified by biological and chemical processes.

Physical Oceanography Program - Movement of water in the deep oceans, on the continental shelves, in coastal estuaries, and in large lakes; understanding these movements in terms of the driving forces, physical properties of the water bodies, and their boundaries.

Submarine Geology and Geophysics Program - The character and distribution of marine sediments and rocks that form the ocean floor; natural processes, such as sediment transport mechanisms, plate tectonics, submarine volcanism; chemical interactions among rocks, sediments, and seawater.

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NSF - BIOPHYSICS. The Biophysics Program will support research in the application of advanced instrumental and physical methods toward (1) unraveling the three-dimensional structure of biopolymers and their functional complexes with other biopolymers and small molecules, and (2) dynamics of biopolymers and their complexes in solution; development of state-of-the-art instrumentation and techniques for better insight into the structure, interaction, and function of biologically important molecules. DEADLINE: *May 15, 1977.*

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EPA EXCHANGE PROGRAM. The U.S. Environmental Protection Agency is seeking personnel from academic institutions as well as state and local officials who are interested in a temporary assignment with the agency on a personnel exchange basis. At Research Triangle Park, N.C., EPA's Environmental Sciences Research Laboratory is seeking expertise in chemistry, physics and meteorology, while its Office of Air Quality Planning and Standards has openings in energy strategies, engineering/economics, pollutant analysis, source-receptor analysis, atmospheric chemistry/engineering, emission standards, and engineering, standards implementation, and data systems. Applicants should have at least four years of post-graduate experience and a demonstrated interest in independent investigation.

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NATIONAL INSTITUTE OF EDUCATION. The National Institute of Education has a number of deadlines in April in both grants competition and requests for proposal submissions. Grant competitions call for research proposals in specific areas of interest, whereas requests for proposals seek contractors for specific tasks, such as evaluation of an ongoing project.

<u>ANNOUNCEMENT DATE</u>		<u>PROGRAM</u>
April	RFP	<u>INFORMATION SYSTEM IMPROVEMENTS/NEW FILES PROJECT:</u> Several new information areas are presently under consideration for inclusion in new data bases. The purpose of this study will be to select an information area and to design and field test a data base.
April	RFP	<u>ERIC CLEARINGHOUSES:</u> Awards will be made for the establishment and maintenance of ERIC Clearinghouses to acquire, critique, coordinate, index, abstract, catalog, and make available unpublished, noncopyrighted materials in selected areas of education.
April	RFP	<u>EDUCATIONAL AND OCCUPATIONAL ASPIRATION AND ACHIEVEMENT OF MARRIED WOMEN:</u> Longitudinal study of social, psychological and economic factors (including the Women's Movement) affecting the educational and occupational behavior of married women.
April	GC	<u>RESEARCH GRANTS, WOMEN AND MATHEMATICS:</u> The under-supply of women interested in and prepared for careers requiring mathematical skills contributes to occupational segregation. The purpose of these research grants will be to explore what education can do to remove self-limiting barriers on women's interest and participation in mathematics.
April	RFP	<u>TEACHER-ORGANIZED TEACHER CENTERS:</u> A two-year program of research, development, and technical assistance to explore the impact of teacher centers on inservice education and to help teachers participate in the design and implementation of such centers.
May	RFP	<u>SCHOOL PERFORMANCE AND STUDENT BEHAVIOR:</u> A study of the apparent relation between grading practices, individual behavior, and social climate.
May	RFP	<u>SOCIAL VALUES AND SCHOOL ENVIRONMENTS:</u> An investigation of the changing role of youth in the family and the effect of that change on the school social environment.
June	GC	<u>READING COMPREHENSION:</u> Research on the reading comprehension and writing problems of middle-grade students, including studies to determine the extent and type of reading problems encountered, the interrelationship between reading, listening, and writing abilities and the nature and efficacy of testing practices currently used.

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