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Washington University Record, July 7, 1983

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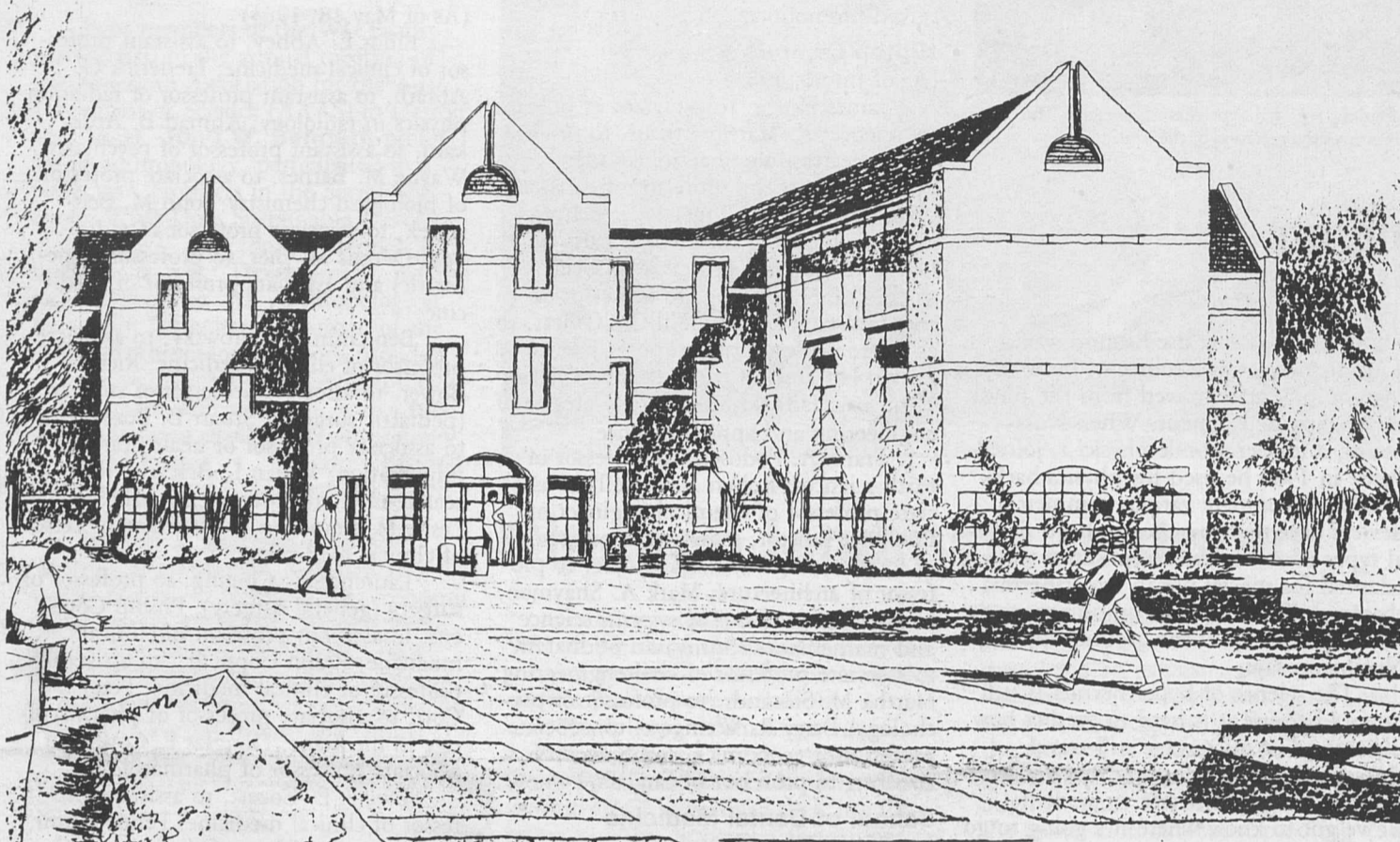
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Washington University Record



WU plans to construct a four-story building which will house 80 students adjacent to both the new sports complex and the present fraternity houses. The estimated cost of the building is \$1.5 million, and occupancy is scheduled for late summer, 1984. The building will contain kitchen, dining and living areas, along with study spaces, advisor apartments and a library. The units will be fully accessible to the handicapped. Trivers Associates Architects/Planners have been selected to design the building, which will blend in with the character and style of existing campus architecture. Engineering consultants for the project include Jack R. Tennill & Associates, Inc., and Lapin-Ellis & Associates, Inc.

Engineers will teach

Math and science teacher shortage to be eased by Monsanto/WU program

A recent report by the National Commission on Excellence in Education shows that public education in this country is in trouble. Some of the problems the commission noted include inadequate quality of teaching and a shortage of science and mathematics teachers in nearly all 50 states.

WU has joined forces with Monsanto Company to help ease the growing shortage of high school science and mathematics teachers in the St. Louis area. Under a program recently developed by the University's Department of Education, engineers from Monsanto's Corporate Engineering Department can prepare for a new career in teaching.

"The University's Department of Education is concerned about the quality of education in our schools, and we feel that training professional engineers to teach will help offset the crisis in the science and math areas," said Carol H. Pauk, the department's assistant director.

"We know Monsanto is going through a reorganization, and that the need for engineers on specific projects is decreasing," said Pauk, who approached the company with the idea. She believes the program will appeal to engineers who are considering early retirement and would like to start a second career.

Pauk said the engineers' technical background and expertise, combined

with their teacher education experience, would give them the tools to become effective science and mathematics teachers.

The teacher training program at WU offers several options for the engineers. They can attend night school or summer-time classes on either a full- or part-time basis over one to three years. The program leads to either a post-bachelor's teaching certificate or an MA degree in teaching.

Over a dozen engineers from Monsanto have inquired about the program, Pauk said. Of those engineers, four have applied to the new program and have been accepted by the University.

Pauk said both the University and Monsanto have been concerned about whether the engineers could adjust to working in a classroom after spending years working in a corporate environment.

She discovered, however, after talking to those interested in the program, that many of the engineers have spouses or other relatives in the teaching field, or they themselves have worked with youths through volunteer activities and are familiar with some of the problems teachers deal with in the classroom.

"Many of the engineers tell me they've always wanted to be teachers, but they've had to put that career on the back burner because they were lured away by the corporate world," Pauk

said. "Others say they've always had a way with kids and enjoy working with them. They think of going into a classroom as a real challenge."

Pauk said her department will guide the engineers carefully and methodically. The engineers will be encouraged to enroll in their first semester in a course in educational psychology for teachers. "The course allows the students to participate in a classroom setting. It is designed to further the students' understanding of classroom interaction and the fundamental principles of teaching and learning."

Monsanto will work on an individual basis with interested engineers on contracts, scheduling and financial aid. In most instances, the employees will be eligible for tuition assistance under Monsanto's program.

While the shortage of high school science and mathematics teachers is not as serious in the St. Louis suburbs as it is in rural Missouri areas, Pauk said there could be a major shortage in the St. Louis area within five years when many science and mathematics teachers approach retirement age.

"We're becoming such a technical society. We need teachers who are properly trained in science and math so our children will be able to deal with current technology," Pauk said.

Economist North to serve as Luce professor

Douglass C. North, a scholar specializing in economic organization, history and political economic theory, has been named Henry R. Luce Professor of Law and Liberty. His appointment is effective July 1.

North comes to WU from the University of Washington, Seattle, where he has been professor of economics since 1960. He was chairman of the department of economics there from 1967 to 1979, and served as director of the Institute for Economic Research for five years prior to that.

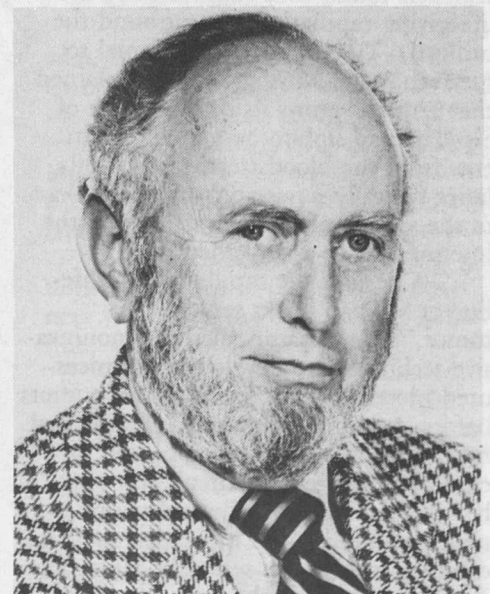
In the fall of 1979, he held the Peterkin Professorship in Political Economics at Rice University. During the 1981-82 academic year he was Pitt Professor at the University of Cambridge.

North is the author of numerous books, including *The Economics of Public Issues*, currently in its fifth edition. He collaborated with Robert P. Thomas to write *The Rise of the Western World: A New Economic History*, which has been translated into five languages and published in paperback in 1976. Other books by North include *Structure and Change in Economic History* (1981), *Growth and Welfare in the American Past: A New Economic History* (1966 and 1974) and *Institutional Change and American Economic Growth* (1971).

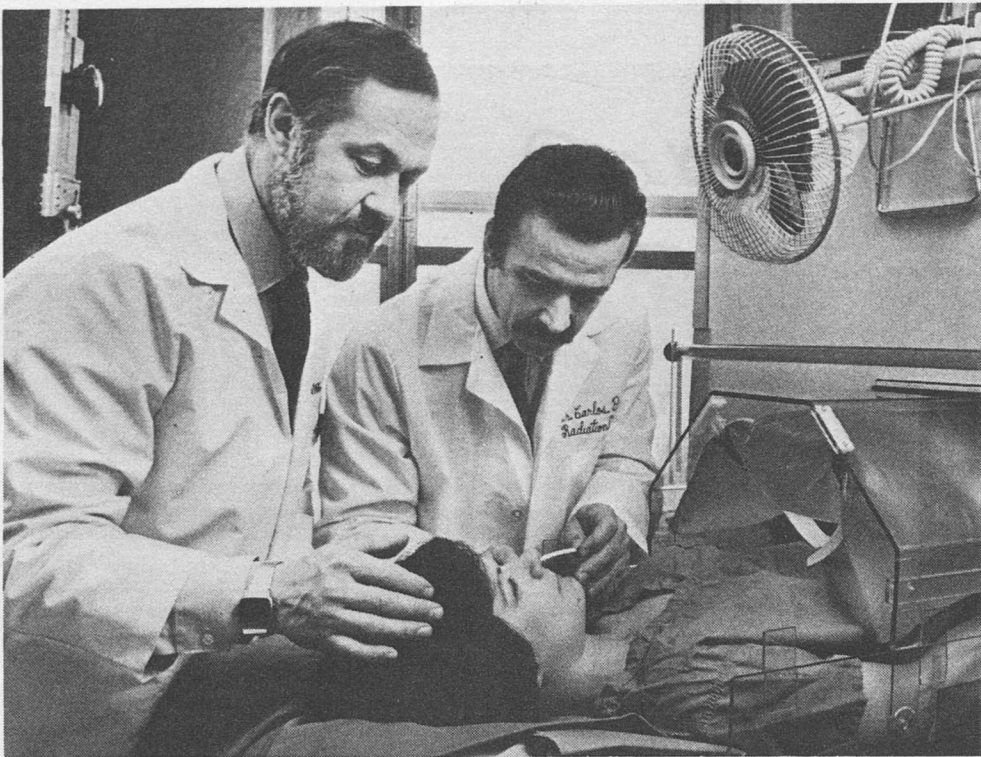
He has published widely in U.S. and international publications on economics and economic history.

North has lectured at almost every major American and Canadian university and at conferences and universities in Japan, South Africa, Europe, and South America. He was president of the Economic History Association, 1972-73, president of the Western Economic Association, 1975-76, and has given expert testimony before a number of federal bodies. He has received research grants from the Ford Foundation, the National Science Foundation, the Social Science

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Douglass C. North



Gilbert Nussbaum (left) and Carlos Perez prepare a patient for deep regional hyperthermia therapy. The clear plastic octagonal treatment couch, designed by Nussbaum, improves the precision of the heating and provides additional safety for the patient.

Cancer research heating up at School of Medicine

The fight against cancer is heating up, especially in the division of radiation oncology at WU's School of Medicine. Researchers there are using a new heat treatment called hyperthermia, which in 1982 — when used with radiation therapy — caused some degree of tumor regression in approximately 80 percent of the 101 patients treated.

In several of those cases, the tumor treated actually disappeared and, at last check-up, had not returned. These successes came in a patient population in which other forms of therapy — such as chemotherapy or radiation therapy — had proved ineffective.

"These tumors were of many different types and sizes and all were relatively close to the surface of the skin," says Carlos Perez, director of WU's division of radiation oncology. "We are advanced now to the point that the combination of heat and radiation therapy can be used with optimism in the treatment of breast cancer, cancer of the head and neck, and skin cancer. In some cases it can be used in tumors that have spread to the lymph nodes."

The goal of hyperthermia, according to Perez and his two colleagues, Bahman Emami, assistant professor of radiology, and Gilbert Nussbaum, assistant professor of radiation physics, is to elevate the temperature of the tumor to 110-114 degrees, while keeping the patient's overall "fever" below 104 degrees. Temperatures of about 110 degrees take a high toll on cancer cells.

"We have found," says Perez, "that tumors that were previously irradiated are more susceptible to heat than normal tissues. Heat and radiation work very well together."

By applying heat to tumors, the researchers found they could destroy the life-giving capillaries that surround the tumors. "Tumors are a testimonial to survival," says Nussbaum. He explained that a tumor grows its own network of capillaries to siphon oxygen and nutrients from the bloodstream. The capillaries typically service only the cells close to the surface of the tumor, leaving the interior cells in a weakened state.

"Consider the capillaries as a lifeline or railroad tracks serving the tumor," says Emami. "Using a noninvasive technique we developed, we measured blood flow in certain animal tumors before and after heating. We found that for the levels of heating employed in clinical hyperthermia, circulation after heating was substantially and permanently reduced — an indication that the capillary lifeline was seriously damaged. It's like destroying the railroad tracks that move cargo in and out of the tumor."

In 1978, Perez used sound waves and microwaves as a source of heat, using equipment borrowed from the physical therapy department. When Nussbaum, a former atomic physicist, joined Perez in 1980 he used his physics background to compare various commercial devices designed to generate heat. Several types of commercial applicators were adapted for special use in hyperthermia therapy. "Some of the equipment we essentially built from the ground up," Nussbaum says.

The science of hyperthermia is still inexact because it is hard to predict how ultrasound or microwave will travel through the human body. "Even if we put the heat right where we want it, we've got to know where it's going to go from there," says Emami. "Just as in radiation therapy, the effects of heat therapy will depend on how well we can avoid damage to healthy tissues. It's difficult to do because the body has systems developed to help avoid thermal damage by spreading applied heat throughout the body."

Despite its technical drawbacks, the method developed by Nussbaum, Emami and Perez resulted in 1982's impressive average success rate of 80 percent, with remission rates for the specific types of cancer ranging from 60 to 100 percent in relatively small samples.

But so far the success rates have been demonstrated only on tumors close to the surface of the skin. Those buried deep within the body present difficulties more complicated than tumors near the skin.

"In the end," says Emami, "it's going to come down to whether or not we can fool Mother Nature and successfully circumvent the systems of temperature regulation that thousands of years of evolution have built into the human body."

Don Clayton

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Faculty receive promotions

The following faculty members received promotions:

Hilltop Campus (As of July 1, 1983)

James E. Alt, to professor of political science; R. Martin Arthur, to professor of electrical engineering; Rodey Batiza, to associate professor of earth and planetary sciences; Roger N. Beachy, to associate professor of biology; Larry E. Davis, to associate professor of social work; Eric H. Dunlop, to professor of chemical engineering; Will D. Gillett, to associate professor of computer science; Evelyn Hu-DeHart, to associate professor of history; Hiroaki Mukai, to professor of engineering and applied science;

Frank A. Podosek, to professor of earth sciences; Robert L. Powell, to associate professor of chemical engineering; Enola K. Proctor, to associate professor of social work; Donald C. Royle, to professor of architecture; Mark A. Shayman, to associate professor of systems science and mathematics; Srinivasan Sridharan, to associate professor of civil engineering; Martha M. Storandt, to professor of psychology; Barry R. Weingast, to associate professor of economics; and Steven N. Zwicker, to professor of English.

School of Dental Medicine (As of April 1, 1983)

Charles M. Johnson, to adjunct associate professor of removable prosthodontics; Richard S. Rochman, to adjunct assistant professor of operative dentistry; and Raymond F. Wilkinson, to associate professor of periodontics (part-time).

Law school appoints new assistant dean

Susan Sullivan, former director of career planning and placement at the Georgetown University Law Center in Washington, D.C., has been appointed assistant dean of the WU School of Law.

Her primary responsibilities here will be in career counseling and job placement.

Sullivan joined the Georgetown staff, one of the largest placement centers at any law school in the country, in 1975 as associate director and served as director from 1977 to 1979. While at Georgetown, Sullivan initiated a career development program for first-year law students, the first such program at any American law school. She also was associate director of admissions at Stephens College in 1979-80.

Sullivan received a doctoral degree this May in higher education administration and counseling from the University of Missouri-Columbia. While in graduate school, she served internships in the office of the provost at the University of Missouri-Columbia, the Missouri Department of Higher Education, Jefferson City, and the Association of American Law Schools in Washington, D.C. She also holds a master in education degree from the University of Miami and a bachelor of arts degree from Drake University.

School of Medicine (As of May 18, 1983)

Elliot E. Abbey, to assistant professor of clinical medicine; Frederick G. Abrath, to assistant professor of radiation physics in radiology; Ahmad B. Ardekani, to assistant professor of psychiatry; Wayne M. Barnes, to associate professor of biological chemistry; John M. Bedwinek, to associate professor of radiology; Dennis M. Bier, to professor of pediatrics and associate professor of medicine;

Benjamin A. Borowsky, to associate professor of clinical medicine; Richard J. Bower, to associate professor of surgery (pediatric surgery); Stuart B. Boxerman, to associate professor of health care administration; Vivian L. Braciale, to research assistant professor of pathology; Leslie M. Brandwin, to assistant professor of clinical medicine;

Laurence Y. Cheung, to professor of surgery (general surgery); Phillip Comens, to assistant professor of clinical medicine; Ralph Copp, Jr., to assistant professor of clinical medicine; Peter B. Corr, to associate professor of pharmacology in medicine; Douglas F. Covey, to associate professor of pharmacology;

Duane E. Cozart, to assistant professor of clinical medicine; Felipe Crimi, to assistant professor of clinical psychiatry; Alejandro M. Datuin, to assistant professor of clinical psychiatry; Joseph M. Dooley, to associate professor of clinical neurology; Steven Dresler, to assistant professor of pathology;

Felton J. Earls, to professor of psychiatry (child psychiatry) and of pediatrics; Russell E. Eggebrecht, to assistant professor of clinical medicine; Bahman Emami, to associate professor of radiology; Keith A.A. Fox, to assistant professor of medicine; Mark E. Frisse, to assistant professor of medicine; Arthur H. Gale, to associate professor of clinical medicine; Lawrence A. Gans, to assistant professor of ophthalmology; William T. Garrison, to assistant professor of medical psychology in psychiatry (child psychiatry);

Lawrence D. Gelb, to associate professor of microbiology and immunology; Arnold M. Goldman, to assistant professor of clinical medicine; Mae O. Gordon,

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North — continued from p. 1

Research Council, and the Rockefeller Foundation.

The Luce chair is funded by a grant from the Henry Luce Foundation, which the University was awarded in 1981. North's appointment was recommended by an inter-school search committee, chaired by Dean F. Hodge O'Neal of the School of Law.

North will teach two undergraduate courses each year, possibly in connection with the multidisciplinary undergraduate program in Law and Liberty currently directed by Derek M. Hirst, associate professor of history.

Campus Notes

Four members of the WU faculty participated in the annual meeting of the American Association for the Advancement of Science (AAAS) in Detroit May 26-31. **John W. Bennett**, professor of anthropology, participated in a panel on "Frontiers in the Social Sciences: What Does Sustainable Development Mean?" The topic of Bennett's presentation was "Development, Adaptation, Resources: An Anthropological Viewpoint." Bennett, chairman of the AAAS Anthropology Section, presided over the annual National Geographic Society Lecture, and arranged, with **Lois Beck**, assistant professor of anthropology, a symposium on "Migratory Pastoralism: Physical and Social Systems in the Context of Development."

Harold J. Barnett, professor emeritus of economics, took part in a special session on technical and economic trends for the year 2000. Barnett spoke on "World Nonfuel Minerals." **Raymond E. Arvidson**, associate professor of earth and planetary sciences, spoke on "Planetary Perspective on the Global Geology of the Earth" in a symposium titled "Planetary Perspectives on the Geosciences."

Kurt H. Studt, assistant professor of oral diagnosis and radiology at the School of Dental Medicine, has become board certified in oral medicine by the American Board of Oral Medicine. The examination was given April 26 in Vancouver, British Columbia, Canada. Although oral medicine is not a dental specialty, it does require expertise in the treatment of oral lesions and sores and the diagnosis of oral cancer. Studt received his AB in 1963 and his DDS in 1966 from WU. He is a fellow in the Academy of General Dentistry.

M. Frederic Volkmann, director of public relations, has been elected chairman of the national board of trustees of the Council for Advancement and Support of Education (CASE) for one year beginning June 23. Formerly chair-elect of CASE, he was installed at the CASE annual meeting in San Diego in June. CASE is the largest association of higher and independent educational institutions in America. Its headquarters are in Washington, D.C.

An active member of CASE and its predecessor organizations, Volkmann has served on the CASE national board of trustees since 1979. In 1981 and 1982, he chaired the CASE Summer Institute in Communications and he has chaired several CASE trustee committees. Volkmann has won numerous CASE awards for his programs at Ohio State University and at Washington University, including several grand awards and exceptional achievement awards for public relations, periodicals, publications, and slide shows. He has been director of public relations at WU since 1980.



Chicago landmark restored

Sculpture conservation experts at WU are finishing up a two-month restoration project in Chicago on Ivan Mestrovic's *Two American Indians*.

These heroic bronze figures on horseback, located at the entrance to Grant Park, have been a landmark in downtown Chicago since their installation in 1928. Structural and surface repairs are being performed by the Washington University Technology Associates (WUTA) Sculpture Conservation Laboratory. The project is being financed by the F. B. Ferguson Fund (which commissioned the sculptures 57 years ago) under the administration of the Art Institute of Chicago.

The restoration, appropriately enough, is being done on the centennial of the birth of Mestrovic, a native of Slavonia, now Yugoslavia. He and his family came to the United States in 1947 at the invitation of Syracuse University, and in 1955, he joined the faculty of the University of Notre Dame. He died in 1962.

Engineers and scientists from WUTA, under the direction of Jerry S.

Dahl, manager of engineering projects, and Phoebe Dent Weil, conservator, completed an extensive preliminary examination in February and March, and are now working on the final phase — the removal of surface corrosion products and the restoration of the monuments' original color. The last step will include the application of weatherproofing and corrosion prevention coatings.

During the repair process, the legs of the two horses were removed in order to insert a new stainless steel support structure for the sculptures. Concrete filling, which had caused the bronze to crack as it expanded and contracted throughout the seasons, also was replaced with a light epoxy foam.

According to Timothy Lennon, conservator of the Department of Paintings and Objects Conservation at the Art Institute of Chicago, "Few conservation teams exist that bring together the engineering, scientific, logistical, and managerial skills needed to treat monumental sculpture problems. WUTA staff members have proven ability in such undertakings."

Gluckman named All-American Bears compile 22-16-2 baseball record

The naming of junior pitcher Marc Gluckman to the NCAA Division III All-American first team, as well as all-star laurels for team members Jim Crisanti and Fred Webb, capped a fine baseball season for coach Rick Larsen and his WU Baseball Bears.

The Sucamore, Ill., lefthander set two school records this year for the most games won in a season, 11, and the most strikeouts, 106. Finishing the season with only two losses — his first and last games — the star hurler had an earned-run average of 1.44, which included four shutouts and one save. He did not allow a homer while facing 361 batters.

Gluckman was selected the Bears' Most Valuable Player.

For the season, the Bears compiled a 22-16-2 record, which included a 21-5-2 mark upon returning from a 1-9 open-

ing-season road trip through the South.

Gluckman was joined by shortstop Crisanti on the roster of the Division III, District Five All-District first team. Centerfielder Fred Webb was picked as the All-Tournament team centerfielder in the District Five Regional at Oshkosh, Wis.

Crisanti was the Bears' top hitter with a .377 average, despite having missed nine games at the beginning of the season because of an injury.

Webb led the team in RBI's, driving in 30 runs. He had 14 extra-base hits among his 30 safeties, 10 doubles, a triple and three homers for a .312 average. He was named the team's rookie of the year.

Other individual honors went to first baseman Ken Hill, who received the Leo Kelly Memorial Award for the player

Athletes receive Hayes Award for leadership

Douglas J. Freeman, Dennis R. McGrew and Laurie A. Skokan received this year's W. Alfred Hayes Award. The award is given annually to graduating student athletes who, by personal example, have provided constructive leadership at WU.

Hayes, a 1949 WU alumnus and life trustee, died Dec. 4, 1980. This is the second year the award has been given.

A major in architecture, Freeman lettered four years in football as a defensive back and two years in track. As co-captain of the track team, he participated in the 110-meter high hurdles, the 400-meter intermediate hurdles and the 400-meter and mile relays. Freeman was also co-chairman of the Association of Black Students.

McGrew, who also earned four football letters, was team captain in his senior year. He was the team's best offensive lineman for the past two years and was voted the Offensive Most Valuable Player in 1982. McGrew also participated in intramural basketball and softball. A major in chemical engineering and a member of the National Honor Society, McGrew was a member of the student chapter of the American Institute of Chemical Engineers.

Skokan played for three years in both women's basketball and volleyball. She was captain of the basketball team her junior and senior year and tri-captain of the volleyball team her senior year. She averaged 4.4 points per game in basketball and was a starter all three years in volleyball. A member of Phi Beta Kappa and Mortarboard, Skokan majored in psychology. She also volunteered to serve on the Psychology Peer Advisory Committee, supervised proctors and officiated intramural volleyball games.

who displayed the most dedication, enthusiasm and competitive spirit. Kelly was the Bears' head baseball coach for 13 years until his death last year. Infielder Mike Simon was named most improved player and pitcher-outfielder Craig Ballantine was cited as honorary captain.

All players receiving individual citations will return to play for the Bears next year, with the exception of Ballantine, who graduated.

Other team highlights included its selection to the Division III Regional contest for the second consecutive year; best season winning percentage in 15 years, at .611; a 10-3-2 record against Division III opponents; a 3-1 mark against Division II foes, the lowest team earned-run average in nine years, at 3.00; and winning streaks of five, six and eight games.

Calendar

July 7-August 6



The WU Gallery of Art in Steinberg Hall is currently exhibiting three summer exhibitions consisting of approximately 70 art works, the majority from the gallery's own collection. Above, "Soldiers Guarding Culvert" is a work by Paul Louis Narcisse Grolleron, which is on display in the lower level of the gallery.

Music

Sunday, July 10

8 p.m. The Gateway Festival Orchestra, conducted by William Schatzkamer, WU prof. of music, will perform in the WU quadrangle. In case of rain, the concert will be held in Graham Chapel. (The orchestra also will perform July 17, 21 and 31, 8 p.m. in the quadrangle.) Free.

Monday, July 11

7 p.m. Department of Music Graduate Recital, with Donna Cox, WU graduate student in choral conducting. Graham Chapel.

Friday, July 29

7:30 p.m. The Inver'an Pipe Band's Third Annual Quadrangle Concert, including traditional Scottish airs, marches, jigs and Highland dancing. WU quadrangle. Free.

WU Record award one of seven won by Public Relations Office

The *Washington University Record* has won an Exceptional Achievement Award for Internal Periodical Publishing in the 1983 Council for Advancement and Support of Education (CASE) Recognition Program. The award is one of seven won by the Public Relations Office, including the broadcast service, feature service and publications office.

Each spring, CASE sponsors a program for its 2,500 member institutions recognizing superior public relations programs and publications. CASE is the largest association of higher and independent educational institutions in the United States.

The award-winning *Record* issues were edited by Charlotte Boman and written by Jill Draper, Susan Killenberg, Susan Kesling and King McElroy.

In addition, the University's broadcast service, which produces two-minute news feature video stories for television and radio, won an Exceptional Achievement Award for Video and a

Exhibitions

"Core Exhibition," work by freshmen and sophomore students of the WU School of Fine Arts. Through July 29. Bixby Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. (Gallery closed on weekends.)

"Foreign Journals — The World Before Your Eyes." Through July 18. Level 3, Olin Lib. Open regular library hours.

"Cubists, Surrealists and Expressionists." Through Sept. 4. Upper Gallery, Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Parsons' Collection of 19th Century European and American Paintings." Through Aug. 21. Lower Gallery, Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Old Masters." Through Aug. 21. Print Gallery, Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

Citation Award for Radio. The broadcast service is directed by Steve Kraushaar.

The WU feature service, which produces four or five feature stories monthly for national newspaper and magazine coverage, won a Citation Award for Best Articles of the Year and a Special Merit Award for Research Coverage for the News Media. The feature service, formerly directed by Charles Koltz, includes writers Don Clayton and Jill Draper.

The publications office, directed by William Noblitt, also won an Exceptional Achievement Award for Student Recruitment Brochures and Folders, and a Citation Award for Periodicals Program Improvement.

From more than 4,000 entries in the 1983 competition, 761 awards were made to 302 member institutions, including WU. The top awards were announced at the CASE Annual Assembly in San Diego June 23.

Promotions — continued from p. 2

to research assistant professor of ophthalmology; Neville Grant, to professor of clinical medicine;

Curt H. Hagedorn, to assistant professor of medicine; Jay P. Heiken, to assistant professor of radiology; John E. Helzer, to professor of psychiatry; Peter Herscovitch, to assistant professor of neurology and of radiology (radiation sciences); Christine G. Janney, to assistant professor of pathology;

Morris Joftus, to assistant professor of clinical medicine; Eugene M. Johnson, Jr., to professor of pharmacology; Harold J. Joseph, to professor of clinical medicine; Dov Kadmon, to assistant professor of surgery (urology); Michael A. Kass, to professor of ophthalmology; Robert E. Kraetsch, to assistant professor of clinical medicine;

Donald J. Krogstad, to associate professor of medicine; Theodore Krupin, to professor of ophthalmology; Marvin E. Levin, to professor of clinical medicine; Jeff W. Lichtman, to assistant professor of physiology and biophysics; Philip A. Ludbrook, to professor of medicine and radiology;

Patrick J. Lustman, to assistant professor of medical psychology in psychiatry; Charles B. Manley, to professor of surgery (urology); Matthew K. McGue, to assistant professor of biostatistics in preventive medicine; John A. McDonald, to associate professor of medicine; Leland Meldon, to professor of radiology; Mani Menon, to associate professor of surgery (urology);

Robert F. Miller, to professor of physiology in ophthalmology; Terri G. Monk, to assistant professor of anesthesiology; Aubrey R. Morrison, to associate professor of pharmacology and of medicine; Harlan R. Muntz, to assistant professor of otolaryngology; William A. Murphy, Jr., to professor of radiology; Patrick R. Murray, to associate professor of pathology and of clinical microbiology in medicine;

Michael J. Noetzel, to assistant pro-

fessor of pediatrics and neurology; Patricia L. O'Neal, to professor of clinical psychiatry; Robert P. Perrillo, to associate professor of medicine; Jorge A. Pineda, to assistant professor of obstetrics and gynecology; William J. Powers, to assistant professor of radiology;

James A. Purdy, to professor of radiation physics in radiology; John P. Rice, to associate professor of mathematics in psychiatry and of biostatistics in preventive medicine; Margaret M. Rich, to assistant professor of surgery (orthopedic surgery); Charles L. Roper, to professor of clinical surgery (cardiothoracic surgery); Eugene H. Rubin, to assistant professor of psychiatry;

Jean E. Russell-Childers, to research assistant professor (orthopedic surgery); Jo-Ellyn M. Ryall, to assistant professor of clinical psychiatry; Jeffrey E. Saffitz, to assistant professor of pathology; Allahyar G. Samadaei, to assistant professor of clinical psychiatry; Daniel Jose Santa Cruz, to associate professor of pathology;

Julio V. Santiago, to professor of pediatrics and associate professor of medicine; David W. Scharp, to associate professor of surgery (general surgery); Martha J. G. Sellers, to assistant professor of medical psychology in psychiatry (child psychiatry); Gary D. Shackelford, to professor of radiology in pediatrics; Paul W. Sheffner, to assistant professor of clinical psychiatry;

Barry A. Siegel, to professor of medicine; Marilyn J. Seigel, to associate professor of radiology; Richard G. Sisson, to associate professor of clinical surgery (general surgery); Wayne A. Stillings, to assistant professor of clinical psychiatry; Arnold W. Strauss, to professor of pediatrics and of biological chemistry; Zila Welner, to assistant professor of pediatrics; Thomas A. Woolsey, to professor of anatomy and neurobiology and of physiology and biophysics; and Patrick R. M. Thomas, to associate professor of radiology.

SIR program sponsors scholars from abroad

WU departments and schools may submit a proposal to invite a scholar from abroad to lecture during the 1984-85 academic year in any field of humanities or social sciences. This Fulbright Scholars-In-Residence program is open to departments and schools which have not had frequent opportunities to receive scholars from abroad as lecturers and are introducing programs with an international perspective, and those which have an established international or area studies program.

For more information on the Scholars-In-Residence program, contact the Council for International Exchange of Scholars, 11 Dupont Circle, Suite 300, Washington, D.C. 20036, telephone (202) 833-4950.

Deadlines for various Fulbright awards continue through Feb. 1, 1984. Contact Ruth Iyob at WU's Office of International Studies for information on these awards at Ext. 5958.

Calendar Deadline

The deadline to submit items for the Aug. 4-Sept. 3 calendar of the *WU Record* is July 21. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker name and identification and the title of the event. Those submitting items, please include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.

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