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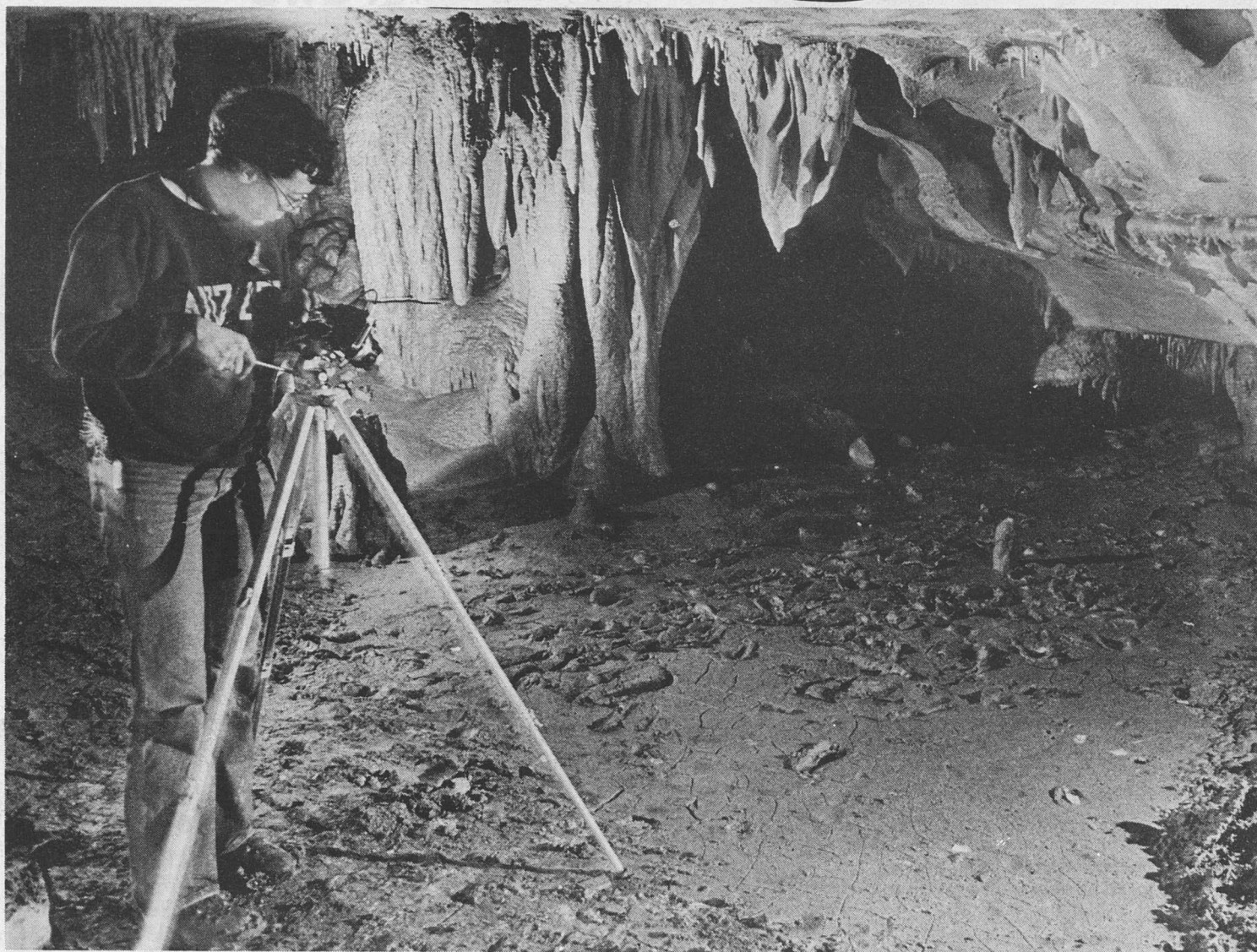
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Washington University Record

Vol. 8, No. 35

August 4, 1983



Patty Jo Watson, professor of anthropology, photographs footprints left by aboriginal cave explorers around 2500 B.C. in Jaguar Cave in Tennessee.

Mining for history Cave explorations reveal secrets of past societies

"Most men, when they think they are thinking, are merely rearranging their prejudices," observed football immortal Knute Rockne.

Rockne's comment could well be applied to the laypersons' jumbled concepts about the native people who inhabited America thousands of years ago. We think of them as vaguely subhuman. As one passing tourist once asked a Kentucky archaeologist who was digging at an ancient Indian mound, "Could these people breathe air?"

In fact, says Patty Jo Watson, WU professor and chair of the Department of Anthropology, "They were just as smart as we are, and they were exceedingly skillful at using the resources of their environment."

Watson specializes in the artifacts left by people who used the extensive cave systems of Kentucky and Tennessee some 4,000 years ago. From such findings as textiles, vegetable remains, charred food, gourd vessels, bones, used torches, hair, paleofeces, and actual mummified bodies, Watson and other researchers have reconstructed a wide-ranging society that was, says Watson, "run in a clever and business-like manner."

The Archaic period in the eastern woodlands of North America included a tribal society featuring cultivated food, mining, politics, religion, medicine, and paths of trade and communication reaching as far as Michigan and Mexico. The caves were an integral part of this society.

Researchers are fortunate that the environment within parts of Kentucky's Mammoth Cave System — where Watson and her husband, Richard Watson, WU professor of philosophy and author of *The Longest Cave*, have been studying aboriginal activities since 1955 — is specially suited for preserving artifacts and other specimens.

"There's total preservation of ordinarily perishable organic material," explains Watson. "In the dry passages of these big caves, many objects are left just as they were 4,000 years ago."

The first, and most general, problem that Watson wanted to investigate was why these aboriginal people had gone into the caves to begin with.

One reason was to find shelter. With a constant temperature of about 58 degrees F., the vestibules, or entrances, provided the tribal groups with ready-made living spaces which were cool in

summer and warm in winter. Also, the caves may have been thought to be a means of communication with the underworld home of the spirits and monsters found in Southeastern Indian lore.

A third reason for prehistoric caving was for the minerals that could be mined there. In Mammoth's Salts Cave, where Watson has done a major part of her study, the Indians mined gypsum. Powdered gypsum could be used as a white pigment for skin paint, Watson speculates, or as whitewash and/or plaster. In its crystalline form, gypsum assumes long or flower-like forms that could have been traded as jewels or might have found their way into medicine bags to draw out sickness or evil spirits.

The two other minerals that Watson believes were mined in Salts Cave are sodium sulfate, a cathartic and salty food seasoning, and Epsom salt.

Watson thinks that the natives used these materials themselves and also as part of an intricate network of trade. Some of the commercial items that were coming into the region were copper from what is now Michigan, conch shells and other marine goods from the Gulf of

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Rimer heads Library of Congress Asian division

J. Thomas Rimer III, chairman of the Department of Chinese and Japanese since 1973, has been appointed curator of the Asian division at the Library of Congress.

As curator of what Rimer considers "the best collection of Asian books and materials in the world," he will supervise a staff of 24 and also do research. He assumed his new position in Washington, D.C., Aug. 1.

When Rimer was drafted into the Army in 1955 and sent to Japan, he remembers he had to look up Tokyo on an Atlas to see where he was headed. Since then he has earned both a master's and a doctoral degree in Japanese literature from Columbia University.

Rimer, who became interested in Japanese culture during his military service, worked for the U.S. Information Agency for nine years, serving as assistant cultural affairs officer in Vientiane, Laos, and then director of the American Cultural Center in Kobe, Japan. He studied Japanese for two years at the Foreign Service Language Institute in Tokyo.

Rimer joined the Department of Chinese and Japanese in 1971 after completing his graduate work at Columbia University.

Since 1974, he has written, edited, translated or collaborated on eight books on Japanese theatre and literature. His most recent book, *On the Art of the No Drama*, a translation with Yamazaki Masakazu, will be released by Princeton University Press in January, 1984.

Cardiothoracic surgery head appointed

James L. Cox, former director of the CORE cardiac surgery electrophysiology lab at Duke University, has been named cardiothoracic surgeon-in-chief at Barnes Hospital and head of the division of cardiothoracic surgery at WU's School of Medicine beginning July 1. Cox is the author or co-author of more than 70 articles on cardiothoracic surgery and research.

A graduate of the University of Tennessee Medical School in Memphis, where he received the Alpha Omega Alpha Award as the outstanding student in the 1967 graduating class, Cox served his internship and residency in surgery at the Duke University Medical Center. He served as DUMC's chief resident in surgery from 1976 to 1977.

Cox succeeds Clarence S. Weldon, WU professor of cardiothoracic surgery.

Host families needed for foreign students

The WU International Office is looking for 50 families to participate in the Host Family Program for the 1983-1984 academic year.

The Host Family Program is designed to acquaint WU international students with Americans and their culture and vice versa. Although host families do not provide living accommodations for international students, the families do invite the students to their homes throughout the year.

"We encourage the host families to include the students in activities like family picnics, trips to the zoo, birthday parties, and holiday celebrations," said Diane Hasty, international student advisor and assistant director of the International Office. "The families expose the students to social and cultural experiences that the students probably would never experience on their own."

About 600 foreign students from 77 countries attend the University yearly, with some 200 new foreign students enrolling each fall. Many of the students have never been to the U.S. and as Hasty said, "They are looking for contact with Americans outside the academic environment on a more personal level. The program allows the students to share time with a family who can make them less lonesome for their own families."

Families who would like more information on the program can call Diane Hasty at 889-5991 or Jill Hill at 889-5922.

WSWU plant sale

Ferns, palms, hanging baskets, geraniums and a variety of other plants will be sold at the Women's Society of Washington University's seventh annual plant sale from 10 a.m. to 5 p.m. Monday, Aug. 29, in Friedman Lounge, Wohl Center.

Proceeds from the plant sale will help raise funds for a full-tuition scholarship to WU awarded annually to an outstanding student completing two years of study at one of the St. Louis Community College campuses.

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Joan Garrison (foreground), former physical therapy instructor at the Central Institute for the Deaf (CID), has her hearing tested by audiologist Pamela Mortenson and Gerald Popelka, head of audiology at CID.

Free hearing tests

Employees of Washington University and of the University's Medical Center may have their hearing tested free beginning Sept. 1 through Hearing Central, a new service of the Central Institute for the Deaf (CID).

The hearing checkups will be confidential, by appointment only, and scheduled for Thursday mornings at the CID Hearing Laboratories, 909 S. Taylor. The test will take about 30 minutes.

The number to call for an appointment is 652-5877. Scheduling of appointments begins Aug. 1. The free test also will be open to adults living in the St. Louis metropolitan area.

"We want to stress that Hearing Central will offer a more complete hearing checkup than a typical hearing screening," said Gerald Popelka, head of audiology at CID and a WU associate professor of audiology. Typical hearing tests, he explains, are less precise because they are based on responses to tones, and do not take the client's age into account. If hearing loss is found, a staff audiologist will explain the type and degree of hearing loss and will offer advice on whether aid should be considered.

Popelka recommends that everyone over the age of 40 have a regular hearing checkup every four or five years, and people who are frequently exposed to noise should have their hearing checked once a year.

The free checkups offered by Hearing Central are not for people who have already been diagnosed as having a hearing impairment, Popelka said.

In addition to free hearing checkups, Hearing Central will also offer for free a noise protection information bureau and an advisory service for the hearing impaired.

The noise protection information bureau will provide the measured noise levels of common household appliances, such as washing machines, vacuum cleaners and stereos; tools, such as an

electric drill; and machines, such as lawn mowers and motorcycles. Most consultation is by telephone, but portable items may be brought into the clinic for noise measurement. Bureau staff members also will offer advice on ways to protect the ears from everyday noise.

The guidance and referral service will provide special information for people who are deaf or hard of hearing. The service has compiled directories of services and licensed audiologists in the St. Louis area, as well as of devices that assist the hearing impaired.

"Public information about hearing and prevention of deafness were two of the original purposes of Central Institute when it was founded in 1914," said Michael H. Freund, president of CID. "We established Hearing Central to re-emphasize the service using today's modern technology and considering today's problems of increased noise levels and a population that is growing older."

Two School of Medicine students cited for neuroscience research

Two WU School of Medicine students have been named co-recipients of the Sixth Annual James L. O'Leary Prize for Research in Neuroscience.

Stephen C. Massey, Department of Ophthalmology, and Eric Rubin, Department of Physiology and Biophysics, received the prize at the medical school's annual neuroscience symposium in April. The O'Leary Prize recognizes original and important accomplishments in neuroscience research by a pre- or post-doctoral student at WU. The competition is based on research abstracts.

The prize is named in honor of the late James L. O'Leary, a professor and head of the Department of Neurology from 1928 until his death in 1975.

Pirtle fellowship established at GWB

The George Warren Brown School of Social Work has established the Dorriece Pirtle Fellowship. Pirtle, who died last summer after a long illness, was a faculty member of the School of Social Work from 1955 until her retirement in 1980.

Shanti Khinduka, dean of the School of Social Work, said, "The fellowship is a way to pay tribute to Pirtle's 25 years of dedicated service as a classroom teacher, advisor, practicum instructor, leader in curriculum innovation, and as a mentor and guide to hundreds of students who became her lifelong friends."

Pirtle, who received her MSW from WU in 1953, had a great interest in women's issues and she developed and taught social work courses in women's studies at the school.

A minimum of \$1,000 will be awarded each year to a social work student committed to the study and analysis of women's issues and to the improvement of the socio-economic position of women, Khinduka said. The first recipient of the scholarship will be chosen and announced next fall.

Department ranked high by math society

The American Mathematical Society has ranked WU's Department of Mathematics among the top research departments in the country. The classification is based on an assessment of graduate programs conducted by the Conference Board of Associated Research Councils. The best programs at 39 colleges are designated as Group I. In addition to WU, Group I includes such institutions as Cornell, Harvard, Stanford, Yale and the University of Chicago.

Massey's research is to identify the chemical language used by light sensitive cells as they communicate with nerves that serve the eye. Such knowledge, Massey believes, is essential to the eventual development of treatment for patients suffering from a variety of sight disorders, including night blindness and color blindness.

Rubin's work describes the development of complex circuit-like connections among cells in the brain. The research, according to Rubin, was done in a relatively simple part of the nervous system where developmental events can be easily observed and later applied to the more complex regions of the human brain.

Campus Notes

Donald R. Bernier, WU director of technical education in nuclear medicine and technical supervisor of nuclear medicine at the Mallinckrodt Institute of Radiology, was elected to serve on the board of trustees of the Society of Nuclear Medicine. It is the first time in the 29 year history of the society that a technologist has been elected to serve on the board.

A past president of the society's technology section and former chairman of several technologist section committees, Bernier is associate editor of the *Journal of Nuclear Medicine Technology* and a founding member of the Nuclear Medicine Certification Board.

Richard V. Bradley, assistant professor of clinical surgery, has been re-elected by the School of Medicine's part-time faculty to serve as a member of the Executive Faculty at the school. A 1952 graduate of WU's School of Medicine, he joined the academic staff in 1968 as an instructor in surgery and became an assistant professor in 1974. He formerly served as president of the Barnes Hospital Society, the St. Louis Medical Society and the Missouri State Medical Association.

Richard P. Bunge, professor of anatomy and neurobiology and Beaumont-May Institute of Neurology Scholar in Anatomy, delivered the Gordon H. Scott Memorial Lecture at Wayne State University, Detroit, Mich., in late May. Bunge spoke on "Control of Proliferation and Function in Myelin Forming Cells."

Jan Burggrabe, coordinator of health programs for University College, spoke on "The ABCs of EAP" at the July 7 meeting of the Alabama chapter of the Association of Labor-Management Administrators and Consultants on Alcoholism, Inc. (ALMACA), in Birmingham. Discussing emerging trends in the field of Employee Assistance Programs (EAP), she reminded the members of the need for continuing professional education in addition to adequate preparation for new practitioners.

Susan Crawford, director of the WU School of Medicine library and professor of biomedical communication, was elected by the Medical Library Association to give the Janet Doe Lecture at their annual meeting in Houston, Texas, on May 31. The lectureship represents one of the highest honors bestowed by the association. Crawford spoke on "The Origin and Development of a Concept: The Information Society."

Richard deCharms, professor of education and psychology, organized a panel of four scholars, including himself, who spoke on "The Changing Images of Persons in Psychology: Political Implications" at the annual meetings of The International Society of Political Psy-

chology at Oxford University, England, in July. The three other scholars are John Shotter, professor of psychology at the University of Nottingham, England; John Raven, Scottish Council for Research in Education, Edinburgh; and Peter Ossorio, professor of psychology, University of Colorado. DeCharms' paper is titled "The Paradox of Personal Causation."

Christopher R. Drahozal, of Cedar Rapids, Iowa, received the 1983 John M. Olin Prize as the outstanding economics major among graduating seniors at WU. The \$70 prize, awarded annually since 1977, was given by the Center for the Study of American Business and the Department of Economics. Drahozal graduated in May from the College of Arts and Sciences and is currently enrolled at the University of Iowa School of Law.

Four George Warren Brown School of Social Work faculty members participated in the 110th annual forum of the National Conference on Social Welfare May 22-25, in Houston, Texas. The forum was titled, "Mobilizing Society to Meet New Realities."

Ronald A. Feldman, director of the school's Center for Adolescent Mental Health, presented a workshop on "Improving and Applying Knowledge for Mental Health Practice with Adolescents," which he co-authored with **Arlene R. Stiffman**, the center's co-director. Assistant Dean **Helen V. Graber** spoke on "Creating the New Age Settlement" during an author's forum. Professor **Martha N. Ozawa** delivered her paper, "Toward Developing a System of Income Maintenance," at a general session of the forum, and assistant professor **Michael W. Sherraden** presented his paper, "Employment Policy and Labor Market Reality," during an author's forum.

Samuel E. Guyer, professor of fixed prosthodontics and chair of the Department of Fixed Prosthodontics at the School of Dental Medicine, has been reappointed to an additional one-year term as consultant to the American Dental Association Commission on Dental Accreditation. Consultants are used for accreditation site visits and for subcommittee activities.

Ruthan B. Kannegieter, assistant professor of occupational therapy, was appointed to a second three-year term on the roster of research consultants of the American Occupational Therapy Foundation. Kannegieter will consult on behalf of the foundation with staff and clinical therapists on the design and implementation of research projects in occupational therapy.

Kannegieter was recently promoted to colonel, United States Army Reserve. As the chief occupational therapist of the 21st General Hospital in St. Louis, she is

responsible for the administration of the section that includes the training of occupational therapy technicians.

Paul R. Manske, research assistant professor of pediatric surgery, has been appointed chief of the division of orthopedic surgery in the Department of Surgery at WU's School of Medicine. Manske, a 1964 graduate of the School of Medicine, will serve as chief orthopedic surgeon at Barnes Hospital. He is also on staff at St. Louis Children's Hospital, Jewish Hospital and County Hospital.

A resident orthopedic surgeon at Barnes Hospital from 1969 to 1972, Manske joined the WU medical faculty in 1972 as an instructor in orthopedic surgery. He became assistant professor in 1976, and research assistant professor of pediatric surgery in 1979.

Martha N. Ozawa, professor of social work, was the keynote speaker at the June 4 "Conference on Myths of Pension Security: A Woman's Perspective," in Des Moines, Iowa. She presented a paper titled "Women and Social Security."

David A. Peters, professor and chairman of mechanical engineering, was invited by the Nanjing Aeronautical Institute in China to give a series of 15 three-hour lectures on helicopter dynamics. Peters presented the talks from June 13 to July 1.

Peter H. Raven, Engelmann Professor of Botany at WU and director of the Missouri Botanical Garden, gave the principal commencement address at Knox College, Galesburg, Ill., on June 4. In his address, titled "Global Ecology: What It Means to the United States," Raven was critical of a report recently published by the American Association for the Advancement of Science on the future of the world's economy, food supply and climate. Raven said the report was "factually preposterous" and that not a single person with biological or ecological qualifications was involved in the panel that prepared the report for the annual meeting of the AAAS in Detroit in May.

Knox College awarded Raven an honorary doctor of science degree at commencement.

Raven also gave the principal commencement address at Southern Illinois University at Edwardsville on June 10. He spoke on "Perspectives on St. Louis" and was awarded an honorary doctor of science degree from the university.

Carl M. Rovainen, professor of physiology and biophysics, has been elected a Fellow of the American Association for the Advancement of Science (AAAS). He was one of 296 individuals elected this year by the AAAS Council for scientifically or socially distinguished efforts in the advancement of science. The association is the leading general scientific organization in the U.S.

Stephen G. Sellers, assistant professor of anthropology, **John W. Bennett**, professor of anthropology, and **William Cole**, a recent graduate of anthropology, have been hired by Ralston Purina to evaluate the application of vegetable protein products as dietary supplements and substitutes for animal protein. They will examine the degree of and causes for adoption of high-protein food in various societies, viewed in terms of principles of social and cultural change in the behavioral sciences. Their final report will be presented at a symposium hosted by Ralston Purina next December.

Sellers currently is in Turrialba, Costa Rica, for one month expanding his research on agricultural relationships between family-owned farms and large-scale farm enterprises. Sellers received a grant from the National Science Foundation and is pursuing this research in collaboration with the tropical Agricultural Center for Research and Teaching in Costa Rica.

Earl Shepard, professor emeritus of orthodontics and a lecturer at WU's School of Dental Medicine, was awarded the Distinguished Service Award of the American Association of Orthodontists. Shepard received the award at the association's annual meeting in Boston in May.

Marc D. Smith, assistant professor of health care administration, and **Barry A. Hong**, assistant professor of medical psychology and coordinator of in-patient psychiatry at Jewish Hospital, presented the results of their recently completed research, "Living-Related Kidney Donors: A Study of Donor Education, Socioeconomic Adjustments, and Rehabilitation," at the Tenth Annual Transplant Symposium of the Midwest Organ Bank in Kansas City, Mo., on May 19. In addition, Smith and Hong conducted a research seminar, titled "Living-Related Kidney Donation: Issues, Strategies, and Public Policy," at the symposium.

Frederick R. Warren-Boulton, associate professor of economics, will be on leave-of-absence during the 1983-84 academic year to serve as director of the Economic Policy Office in the Antitrust Division of the U.S. Department of Justice. Warren-Boulton will report to Assistant Attorney General William Baxter and will be responsible for the economic analysis of antitrust and other policies toward competition carried out by the Justice Department.

George I. Zahalak, professor of mechanical engineering, will give the keynote address at the annual meeting of the American Society of Biomechanics. The meeting will be in October at the Mayo Clinic in Rochester, Mich.

Calendar

Wednesday, Aug. 10

8:30 a.m.-5:15 p.m. Genetic Epidemiology of Coronary Heart Disease: Past, Present and Future Workshop. Cori Aud., 660 South Euclid Ave. (Also Thursday and Friday, Aug. 11 and 12.) Sponsored by the National Heart, Lung, and Blood Institute of Bethesda, Md.; Division of Biostatistics, WU School of Medicine; and the departments of Medicine and Psychiatry, Jewish Hospital. For more information, call 454-3357. Admission \$45; \$30 for students.

Thursday, Aug. 25

5:30 p.m. University College New Student Orientation. Room 30, January Hall.

Saturday, Aug. 27

Noon. University College Campus Tour. Meet in Room 30, January Hall.

Exhibitions

"A Selection of 16th-Century Books," including works by Gesner, Bartisch, Tagliacozzi and Pare. Through Sept. 9. WU School of Medicine library annex, 615 S. Taylor Ave. 8:30 a.m.-5 p.m. weekdays.

"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.

Music

Sunday, Aug. 14

7:30 p.m. WU Department of Music Jazz Ensemble Concert, directed by Robert Edwards, WU instructor of music. Works of Duke Ellington, Count Basie, Sammie Nestico, Horace Silver and Lester Young. WU quadrangle. Free.

Calendar Deadline

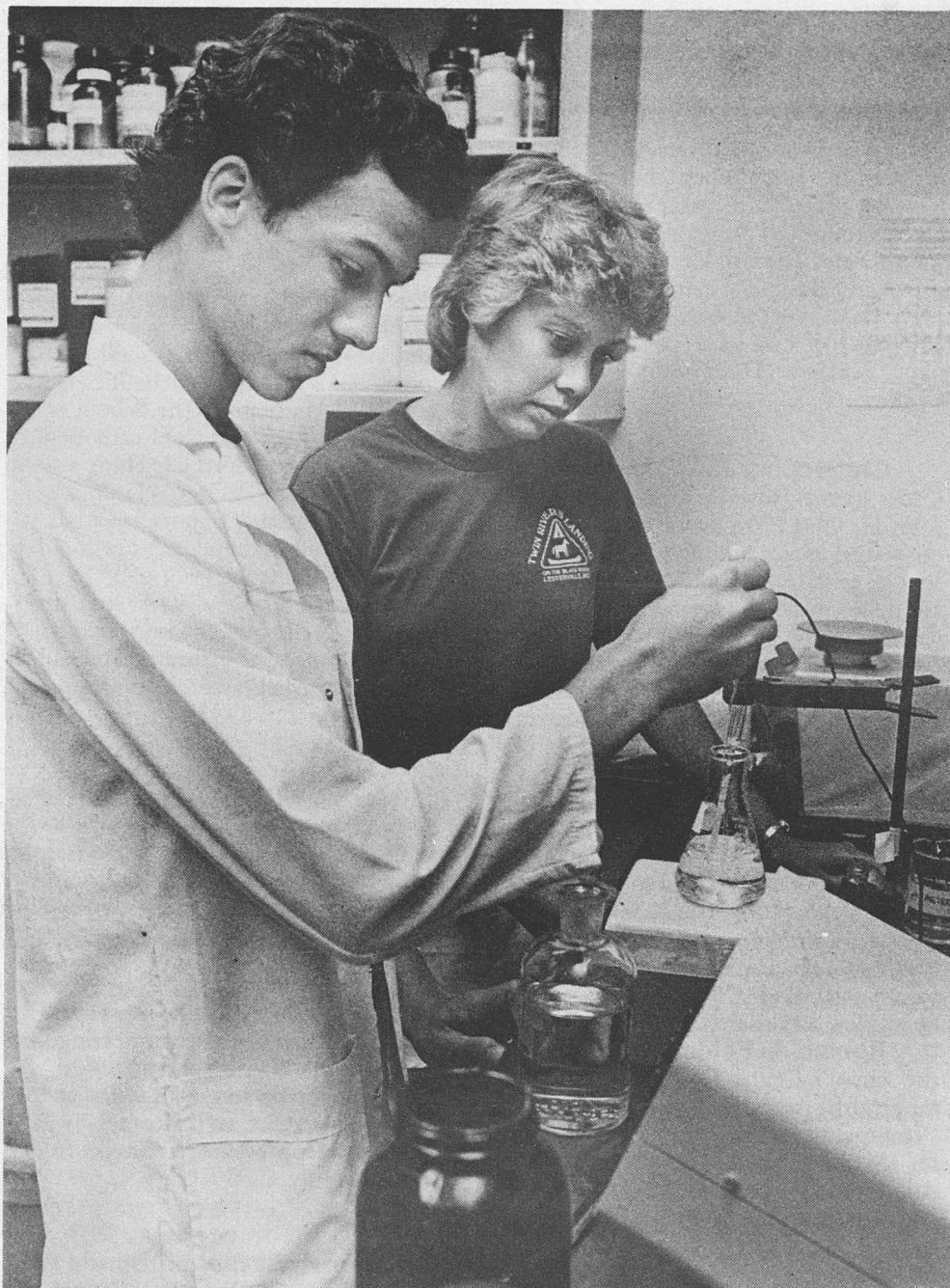
The deadline to submit items for the Sept. 1-10 calendar of the *WU Record* is Aug. 18. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker name and identification and the title of the event. Those submitting items, please include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.

GWB Center releases publications

The Center for Adolescent Mental Health at the George Warren Brown School of Social Work has released its first quarterly publications.

The publications, which will be disseminated to approximately 500 professionals, include the first issue of adolescent mental health abstracts, a working paper, a practice applications paper, a program profile, and *Adolinks*, the center's newsletter.

The center is funded through a grant from the Administration on Children, Youth and Families. Ronald A. Feldman, professor of social work, is the center's director, and Arlene R. Stiffman is co-director.



Four earn Myers engineering scholarships

Four recent high school graduates have been awarded scholarships to WU. The scholarships were established by a \$345,000 gift from the late George W. F. Myers, founder and owner of the Myers Engineering and Equipment Company of St. Louis.

The winners of the scholarships, which are named for Myers and his wife, Martha Russell Myers, are: Lisa M. Brockmeyer, daughter of Mr. and Mrs. Bernard J. Brockmeyer of Normandy; Eric J. Baier, son of Mr. and Mrs. Joseph E. Baier of Florissant; Nancy M. Trull, daughter of Mr. and Mrs. James M. Trull of south St. Louis; and Deborah A. Braun, daughter of Mr. and Mrs. Robert O. Braun of Affton.

The scholarship winners were nominated by their high school principals on the basis of academic achievement. Some 200 seniors from high schools within a 25-mile radius of WU competed for the scholarships.

Brockmeyer, a graduate of Normandy Senior High School, received a full-tuition scholarship for admission to the School of Engineering and Applied

Science, and Baier, a graduate of McCluer North High School, received a full-tuition scholarship for admission to the College of Arts and Sciences.

Trull, a graduate of Notre Dame High School, was awarded a half-tuition scholarship and will enter the School of Fine Arts, and Braun, a graduate of Academy of the Visitation, was also awarded a half-tuition scholarship and will enter the College of Arts and Sciences. The awards will cover all four years of undergraduate study.

Grants available for research abroad

The United States Information Agency and Institute of International Education is accepting applications for grants for graduate study or research abroad in all academic fields and for professional training in the creative and performing arts. Approximately 500 awards to 50 countries will be available for the 1984-85 academic year.

Deadline for applying is Oct. 7, 1983. For more information, contact Karen Schmitt at the Stix International House, room 208, or call Ext. 5350.



Eleven high school students from the metropolitan St. Louis area participated this summer in a research apprenticeship program at the School of Medicine. The program is sponsored by the National Institutes of Health, the Office of Undergraduate Admissions, and the Office of Minority Student Affairs. Additional funding was provided by the WU departments of Medicine, Pharmacology, Biochemistry, Microbiology and Anatomy. At right, Steven Garmon, of University City High School, prepares buffers for a DNA isolation with Jan Mayden, research technician. Above, Bysshe Guiden, of East St. Louis Lincoln High School, does a liposaccharide consumption assay. The students were supervised by School of Medicine faculty members.

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Mexico, and gourds and squash from MesoAmerica. "What they did was probably pretty hardheaded commercial activity," says Watson.

In old and outdated terminology, the aborigines who explored Mammoth Cave were "barbarians" — meaning that they had risen above the stage of savagery, and now cultivated food.

But that terminology, with its de-meaning implications, troubles Watson, who has adapted a somewhat protective attitude about the people she has been studying for almost 30 years. Biologically, she says, we have all been equal since the appearance of *Homo sapiens* about 30,000 years ago.

"What happens to a particular human group over a particular period of time," she says, "has to do with its history and with its physical and social environment."

"These people were smart; they knew exactly what they were doing. They were familiar with all aspects of their natural environment in a way that we certainly are not, because we have a tremendous artificial buffer around us."

In other words, they made the most of what they had. Can 20th-century *Homo sapiens*, in truth, make the same statement?