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.

In fact, says Patty Jo Watson, WU professor of anthropology, "Could these people breathe air?"

Watson specializes in the artifacts left by people who used the extensive cave systems of Kentucky and Tennessee around 3500 B.C. "Could these aboriginal people have 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 in these big caves, many objects are left just as they were 4000 years ago.

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 4000 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.

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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, Weil 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.

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 Center, 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 a fee 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. Pfeudt, 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 postdoctoral 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.

Massey's research is to identify the chemical language used by light sensitive cells as they communicate to both 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 researcher, 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 B. 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 in Human Cells." Bunge speaks on "Control of Proliferation in Human Cells."

Jan Burggrabe, coordinator of health programs for University College, spoke on "The ABCs of EAP" 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." Burggrabe spoke on "Control of Proliferation in Human Cells."

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 11. The lecture 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 Psychologists at Oxford University, England, in July. The three other scholars are John Shorter, 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. DeCharm's paper is titled "The Paradox of Personal Caution." deCharms spoke on "The Changing Images of Persons in Psychology: Political Implications."

Christopher R. Drahozal, of Creighton University School of Medicine, received the 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 11th 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," as 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. Geyer, professor of fixed prosthetics 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 1983 Accreditation. Consultants are used for accreditation site visits and for subcommittee activities.

Ruth 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 named chief orthopedic surgeon in the Department of Surgery at WU's School of Medicine. Manske, who graduated from 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 sociology, 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." Ozawa spoke on "The Changing Images of Persons in Psychology: Political Implications."

David A. Peters, professor and chairman of mechanical engineering, was invited by the Nanjing Aeronautical Institute in China to give a series of 13 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.

Know 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 psychology 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 in anthropology, have been hired by Ralston Purina to evaluate the application of vegetable protein products as dietary supplements and substrates for animal protein. They will examine the degree 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, Attitudes, 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.
Wednesday, Aug. 10
8:30 a.m.-5:15 p.m. Genetic Epidemiology of Coronary Heart Disease; Poster, Present and Future Workshop, Cox Aud., 660 South Euclid Ave. (Late 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 454-5577. Admission $45; $10 for students.

Thursday, Aug. 25
5:30 p.m. University College New Student Orientation. Room 50, January Hall.

Saturday, Aug. 27
Noon. University College Campus Tour. Meet in Room 50, January Hall.

Exhibitions

"A Selection of 16th-Century Books," including works by Giotto, Bartolozzi, Tagliacozzi and Par. Through Sept. 6. WU School of Medicine Library annex, 615 S. Taylor Ave. 8:30 a.m.-5 p.m. weekdays.

"Cubism, Surrealism and Expressionism." Through Sept. 4. Upper Gallery, Gallery of Art. Art of 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

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

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

Calendar Deadline

The deadline to submit items for the Sept.-Oct. calendar 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.

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 D. 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.

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 Adlakwa, the center's newsletter.

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

Caves — continued from p. 1

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 Gassen, of University City High School, prepares buffers for a DNA isolation with Jan Meyers, research technician. Above, Rhysie Gauden, of East St. Louis Lincoln High School, does a liposaccade consummation assay. The students were supervised by School of Medicine faculty members.