

Washington University School of Medicine

Digital Commons@Becker

Washington University Record

Washington University Publications

11-4-1993

Washington University Record, November 4, 1993

Follow this and additional works at: <https://digitalcommons.wustl.edu/record>

Recommended Citation

Washington University Record, November 4, 1993. Bernard Becker Medical Library Archives.
<https://digitalcommons.wustl.edu/record/635>.

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University Record by an authorized administrator of Digital Commons@Becker. For more information, please contact vanam@wustl.edu.

Event brings scientists, journalists together

More than 120 science writers, scientists and science journalism educators from across America and throughout the world are attending the 31st Annual New Horizons in Science Briefing from Oct. 31 through Nov. 4 on campus, at the Ritz-Carlton Hotel in Clayton and at the St. Louis Science Center.

Washington University is the host for the event, which is an ongoing program of the Council for the Advancement of Science Writing Inc. (CASW). The council is a New York-based, non-profit educational corporation run by distinguished journalists and scientists to increase public understanding of science. The annual briefing helps enhance the quality of medical and science reporting and improve the relationship between scientists and the press. The purpose of the briefing is to keep scientists and science communicators educated about science and medical topics that will be newsworthy in the near future.

Chancellor William H. Danforth said he is pleased that Washington University is hosting the event. "Writers from around the world will have an opportunity to hear from some of Washington University's most distinguished faculty. CASW is a vital force in fostering accurate and timely writing about science, technology and medical topics," he said.

Award-winning science reporters from the Wall Street Journal, Newsday, Dallas Morning News, Houston Chronicle, The Christian Science Monitor, Popular Science, Time, Science, St. Louis Post-Dispatch and the national bureau of the Associated Press, among others, are mingling with some of the nation's top free-lance writers, authors and public information specialists from universities and prominent laboratories. Journalists from every geographical area of the United States are represented. Reporters this year have come from as far away as Sweden to attend. Writers from the American Medical Association and the American Chemical Society, the largest science organization in the world, are in attendance. Stories are filed on-the-spot, interviews are conducted between sessions, and notes and manuscripts are kept for future stories and reference in the New Horizons effort to bring journalists and scientists together.

The event has been hosted every fall since 1963 at a different university across the United States.

"The New Horizons Briefing is a moveable intellectual feast that presents an eclectic smorgasbord of science," says Ben Patrusky, CASW executive director and free-lance writer from New York City. "CASW is very careful in accepting bids to host the program. We make sure to go to places with very strong science talent. Washington University fits that bill to the hilt."

"Our role is to give intellectual back-

ground and information to journalists so they will write more informed stories on topics of growing concern."

The program is a global event, this year drawing Boris Spitsyn, head of the Diamond Film Crystallization of the Institute of Physical Chemistry in Russia, to deliver a plenary session. It also features renowned scientists from Emory University, the University of Wisconsin, Harvard University, the

Naval Research Laboratory and the University of Maryland.

Washington University is well-represented at the New Horizons Briefing, with 17 faculty members from both the Hilltop Campus and the School of Medicine participating in plenary sessions and laboratory tours.

The official program began Sunday evening with a welcome from Chancellor Danforth.

Continued on page 6



The University's Visions gospel choir gave a concert during the Black Arts and Sciences Festival held last week.

Fall enrollment figures show geographical diversity

Washington University's total day and evening school enrollment for the 1993-94 academic year is 11,671, according to Dennis J. Martin, assistant provost.

"Freshman class enrollment is 1,254. This includes 45 African-Americans, 174 Asians, 24 Hispanics and two American Indians," said Martin. In all, minority

students comprise 19.5 percent of the 1993 freshman class.

"Overall enrollment is strong at Washington University," said Martin. "We have more freshmen than last year's count of 1,104, and our retention of returning students remains high. Eighty-five percent of those who enter as freshmen graduate from Washington University."

Although enrollment among minorities in the 1993 freshman class decreased from last year's 24 percent, Martin said that the University is developing a number of recruitment strategies to improve minority enrollment. "The competition to attract qualified minority students is intense," he noted.

The Class of 1997 has students from 49 states and 22 foreign countries. A total of 533 are from the Midwest, while 275 are from the Mid-Atlantic states.

Of the 1,254 freshmen, 62 percent ranked in the top 10 percent of their high

school classes, while 84 percent ranked in the top 20 percent. High schools did not report a rank for 30 percent of the freshman class. The middle 50 percent of the freshmen scored between 500-610 on the verbal Scholastic Aptitude Test (SAT), between 600-710 on the math SAT and between 26-31 on the American College Test Service (ACT) composite score, said Harold M. Wingood, dean of undergraduate admission.

The freshman class "is a great group of students," said Wingood. "We are delighted that they chose Washington University as a place to study. The majority of our students come from areas that are 500 miles away. That's an unusual phenomenon that means we are a geographically diverse institution. In fact, we are among the most geographically diverse research universities in the country."

For fall 1993, day school undergraduates total 5,045, while graduate and professional

Continued on page 8

Conference explores race and science

The connection between race and science is the focus of a conference to be held Nov. 11-12 in the Women's Building formal lounge.

The conference, which is open to the public, primarily will focus on blacks and science. There is no registration fee. The event opens at 1 p.m. Thursday, Nov. 11, with a keynote address by Shirley M. Malcom, head of the American Association for the Advancement of Science's (AAAS) Directorate for Education and Human Resources Programs. The directorate includes AAAS programs in education, activities for underrepresented groups and public understanding of science and technology.

Other prominent scholars who will deliver papers during the conference include internationally renowned geneticist Mary-Claire King of the University of California, Berkeley; Richard C. Lewontin, Alexander Agassiz Professor of Zoology and professor of biology at Harvard Uni-

versity; Kenneth R. Manning, Thomas Meloy Professor of Rhetoric and of the History of Science at the Massachusetts Institute of Technology; Luther Williams, assistant director of the National Science Foundation; and Willie Pearson Jr., professor of sociology at Wake Forest University in Winston-Salem, N.C.

The conference is sponsored by the University's American Culture Studies Institute and African and Afro-American Studies Program (AFAS) and the Missouri Botanical Garden. The National Science Foundation awarded AFAS a grant to support the conference.

The conference is significant "because historically, race and science have been intertwined," said Gerald Early, Ph.D., professor of English and director of the African and Afro-American Studies Program. "The conference will provide a perspective about the connection between race and science. We also will examine the

Continued on page 8

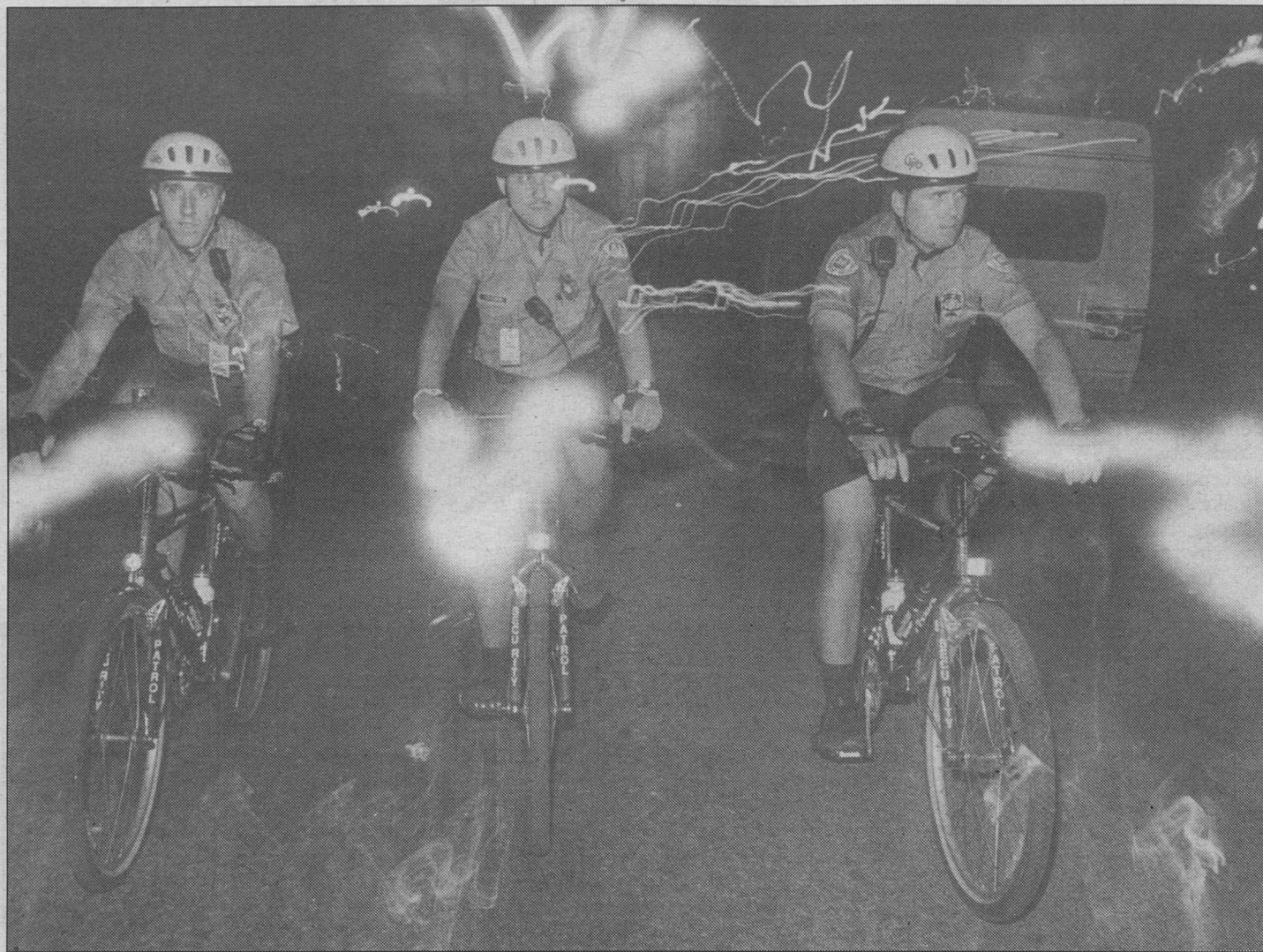
In This Issue...

Trading four wheels for two: Newly formed Security Bike Patrol at the medical center helps protect employees and property *Page 2*

Digging the past: Archaeologist Patty Jo Watson, Ph.D., reconstructs prehistoric life from cave artifacts *Page 3*

Cowpoke music: Riders in the Sky revives a musical tradition for children *Page 5*

Medical Update



Security bike patrol officers, from left, Rob Wilder, David Goodwin and Joe Schilling ride on Clayton Avenue. On a typical night, the officers log 15 to 20 miles on their bicycles.

Bike patrol's presence protects medical center after hours

Some nights their job is exciting, and other nights it borders on the monotonous and mundane. But the officers in the medical center's new Security Bike Patrol consistently get job satisfaction knowing their mere presence deters crime and trespassing on the medical center campus and increases the safety of employees and visitors.

From 6 p.m. to 2 a.m. seven days a week, they patrol the 16-block area of the medical center. Each bike patrol officer takes two to four square blocks and is responsible for riding within this area and checking the garages, parking lots and building exteriors for the eight-hour shift. The officers also respond to calls from the in-house security departments in the medical center.

"Generally, we're just out here visually trying to deter crime in the first place," says Eric Lambing, a patrol officer. "Nobody is out looking for a big arrest or anything like that." Lambing emphasizes that the patrol's highest priority is to protect the people who work at the medical center as well as their personal property and the property of the school and hospitals.

David Thompson, manager of Protective Services at the medical school, says the bike patrol was started as part of an overall security plan developed in 1992 by the Washington University Security Council. The council is made up of security directors from the School of Medicine and St. Louis Children's and Barnes and Jewish hospitals. "The early results of the bike patrol are that it has been very effective," says Thompson.

The officers are looking for suspicious people, cars that have been tampered with and anything else out of the ordinary. Since July, when the nine-person bike patrol started riding, they have broken up a youth disturbance, made a few arrests for trespassing, assisted the St. Louis Metropolitan Police Department (SLMPD) in pursuits and arrests and answered various other calls. There are very few violent crimes in the medical center vicinity, and members of the bike patrol would like there to be even fewer such incidents.

On a typical night, the officers ride 15 to 20 miles on their bicycles. Al-

though they may meet up with each other during the evening or answer a call on the radio from a colleague, it is a job for someone who does not mind being alone. Patrolling the area solo at 1 a.m. is a little eerie, Lambing says. Nevertheless, the officers appear to enjoy their jobs. Coming from backgrounds ranging from military police to city police to county police, they say they like being out, getting exercise and meeting the wide range of people they encounter while on patrol.

"It's fun, and I enjoy coming to work," says Lambing. "It's a good career. I get out here and hopefully I'm helping somebody or keeping a crime from happening."

Having a bike patrol is a relatively new idea in law enforcement or security, says Oliver Helbig, coordinator. The idea started with the city police in Seattle. Today, the SLMPD has a bike patrol, and a few municipalities in and around St. Louis have one or two people riding bikes for part of their shifts.

The bike patrol at the medical center is a private security unit. The officers

are individually hired by the medical school, St. Louis Children's and Barnes and Jewish hospitals. These officers do not have legal jurisdiction over the streets of St. Louis; they are solely responsible for medical center property.

Because the SLMPD has had a decrease in manpower over the last five years, the bike patrol has taken up some of the slack in the area, says Helbig. He says the bike patrol gets some calls the SLMPD used to receive, and the cyclists always are able to reach the scene before the police arrive.

Lambing says one of the reasons he became a bike officer is because it is on the cutting edge of law enforcement. The hours could be better, he admits, since working nights cuts into his social life. But he and the other officers have their own after-work social hour. They often lift weights for an hour or so at the weight room in Olin Residence Hall, which is open all night. Lambing points out their social options are limited. "There is not a lot you can do when you get off at 2 in the morning," he says.

—Diane Duke

Volunteers are needed for study of manic depressive illness and substance abuse in teens

Researchers at Washington University School of Medicine are seeking volunteers for a study involving a new treatment for children who are both manic depressive and substance abusers.

Barbara Geller, M.D., professor of child psychiatry at the School of Medicine, is evaluating the effectiveness of the drug lithium combined with family therapy in 12- to 18-years-olds who abuse alcohol or drugs and also suffer from bipolar disorder (manic depression).

Studies in adults have shown that lithium and therapy are not effective, but Geller says preliminary results of their effectiveness in children are promising. "We believe that if we can treat adolescents before they've lost their jobs, been in broken marriages, or been expelled from school, perhaps we might be able to head off the long-term consequences," she says.

Addiction is the most common complication of bipolar disorder. It could begin, Geller says, as an attempt to escape from mood swings, but alcohol and drug abuse soon heighten the problems caused by the manic depression.

Children with these problems are often hard to diagnose, according to Geller. She advises parents and teachers to look for warning signs such as stealing, skipping school, mood swings and alcohol missing from the house.

"We're hoping that people will be more cognizant of the problems early on so that we can identify and begin to treat the youngsters sooner," Geller says.

Patients in the study receive free medication and weekly counseling from the Childhood Affective Disorders Program at Washington University School of Medicine. The study consists of six weeks of drug therapy, 12 weeks of counseling and follow-up as needed. For more information, call 362-7365.

Gilula named chief of musculoskeletal imaging section

Louis A. Gilula, M.D., professor of radiology, has been named chief of the musculoskeletal imaging section at Washington University's Mallinckrodt Institute of Radiology.

Gilula assumes this position after serving 18 years as co-chief of the section with William Murphy, M.D. Murphy left the University in August to head the diagnostic imaging division at the University of Texas M.D. Anderson Cancer Center.

Gilula is well known as an expert in wrist imaging. His research focuses on evaluating radiological techniques for diagnosing wrist pain and for determining patient outcome. Since coming to Washington University in 1973 as an instructor of radiology, he has published 146 scientific papers and 126 invited papers about musculoskeletal imaging. In addition, he is the author of a book entitled *The Traumatized Hand and Wrist, Radiographic and Anatomic Correlation*, and has contributed to 35 other books. Gilula became a professor in 1982.

As an active member of numerous professional organizations, including the Radiological Society of North America, the American College of Radiology and the International Skeletal Society, he has helped organize more than 15 meetings, workshops and refresher courses. He also has been the keynote speaker at several international symposia and has served as co-organizer for the annual International Wrist Investigators workshop since 1987. Gilula is active in several local organizations, such as the St. Louis Medical Society and the Greater St. Louis Society of Radiologists. At the medical center, he has directed the visiting fellowship program at Mallinckrodt Institute since 1975.

He holds editorial responsibilities with a number of scientific journals, including the *Orthopaedic Review Journal*, the *European Journal of Radiology* and the *Journal of Bone and Joint Surgery*. In 1982, he received the honor of being named a fellow of the American College of Radiology.

Record

Executive Director,
University Communications: Judith Jasper

Executive Editor: Susan Killenberg

Editor: Deborah Parker, 935-5235, Box 1070

Editor, Medical news: Diane Duke,
362-9662, Medical School Box 8065

Assistant Editor: Carolyn Sanford,
935-5293, Box 1070

Contributing writers: Debby Aronson,
Caroline Decker, Jim Dryden, Gerry Everding,
Tony Fitzpatrick, Nancy Galofre, Jim Keeley,
Juli Leistner, Dave Moessner, Joni
Westerhouse and Mike Wolf

Photographers: Joe Angeles, Tom Heine,
David Kilper and Herb Weitman

Production: Galen Harrison

Record (USPS 600-430;ISSN 1043-0520),
Volume 18, Number 11/Nov. 4, 1993. Pub-
lished for the faculty, staff and friends of
Washington University. Produced weekly
during the school year, except school holidays,
and monthly during June, July and August by
the Office of Public Affairs, Washington
University, Campus Box 1070, One Brookings
Drive, St. Louis, Mo. 63130. Second-class
postage paid at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send
address changes to Record, Washington
University, Campus Box 1070, One Brookings
Drive, St. Louis, Mo. 63130.

Hilltop Campus employees: Send to Office
of Human Resources, Washington University,
Campus Box 1184, One Brookings Drive,
St. Louis, Mo. 63130.

Medical Campus Employees: Send to Payroll
Office, Washington University, Campus Box
8017, 660 S. Euclid, St. Louis, Mo. 63110.

Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Patty Jo Watson reconstructs the past

Patty Jo Watson, Ph.D., professor of anthropology, grew up wanting to be a cowboy, or an Indian, or, she says, preferably, both. Her lifelong love of the outdoors eventually led her instead to crawl in caves, dig in pits and sift through dirt looking for clues to how ancient humans, including Native Americans, lived.

Watson, who joined Washington University in 1969 as an assistant professor, has spent most of her 40-year career focusing on the origins of plant domestication, looking for evidence first in the Near East — Iraq, Iran and Turkey — and then in North America. Her contributions to the field are both theoretical and practical.

Watson has championed the use of scientific theory in archaeology. In a concept that revolutionized the field of archaeology, Watson suggested that hypotheses can be formulated and then tested in archaeology as with any other science. Two of her books on archaeological theory, *Explanation in Archaeology: an Explicitly Scientific Approach* (1971) and *Archaeological Explanation: The Scientific Method in Archaeology* (1984) advocate this approach, now widely accepted by archaeologists.

Watson also is widely recognized as a pioneer in studying contemporary societies to aid understanding of archaeological remains left by prehistoric peoples. On a basic field techniques level, Watson implemented a special flotation system for recovering charred botanical remains from archaeological deposits.

Along the way, the soft-spoken Iowan has amassed the highest honors both from archaeological and caving colleagues. In 1988 Watson was elected to the National Academy of Sciences. The academy, a private organization chartered by the U.S. Congress to provide scientific advice to the government, has approximately 1,500 members. Watson also

is a fellow of the American Association for the Advancement of Science, an honorary Member of the Cave Research Association and a Life Member of the National Speleological Society, which is that society's highest honor. The 8,000-member society has awarded only 28 honorary Life Memberships since its founding 52 years ago.

Watson has been joined in her intellectual pursuits by her husband Richard Watson, Ph.D., professor of philosophy, geologist and speleologist. In fact, while Watson was in graduate school, her husband, known as "Red," deliberately got a master's degree — his second — in geology so they could work together. The Watsons met in junior high school, got married after college and spent their 1955 honeymoon caving.

"Red gave me as a wedding present a carbide lamp, a pair of gloves, a hard hat and all the appropriate gear," remembers Watson, "and then we went caving."

That honeymoon trip was a pivotal experience for Patty Jo Watson, who subsequently has spent 30 years researching the ancient explorers of the very caves she first saw in 1955.

Although Watson did not grow up planning to be an archaeologist, she describes her interest in the natural sciences, her rural background and archaeology as "making a happy combination."

"My official story is that the seed was planted when I was in high school. The little town library in Sheffield, Iowa, had a respectable number of books, but it was open only on Wednesday afternoons and Saturday afternoons. When I was younger, especially in summer, I would just count up the hours and minutes between because I read up all the allowance of books that I could take out on Wednesday afternoon long before Saturday afternoon. Anyway, they had a copy of this wonderful book by Agatha Christie, *Come Tell Me How You Live*, which was about a year at an archaeological excavation and survey project in North Syria when she, as the wife of archaeologist Max Mallowan, accompanied him to help manage the expedition.

"It was so well written and completely charming I was totally captivated by it. I can't remember thinking 'Wow, that's what I want to do,' but I think that was the initial setting of the agenda that I later came to follow."

Because of her interest in the natural sciences, Watson majored in pre-med zoology at Iowa State. After two years

at Iowa State, she enrolled at the University of Chicago Department of Anthropology to study archaeology.

"When I got to Chicago I was going to do North American Indian archaeology," Watson remembers. "But then I found that (archaeologist Robert) Braidwood was doing field research in an incredibly romantic ... to me ... part of the world, Iraqi Kurdistan, looking for the first evidence of domestic plants and animals. It was wonderfully exciting work and I fell right into that."

Watson worked in the Near East on three separate occasions — in 1954, 1959 and 1970. On her second trip she carried out the first comprehensive study of a contemporary community in order to make connections to archaeological evidence from the same region (or site), a practice now called ethnoarchaeology.

Michael J. Fuller, professor of anthropology at Florissant Valley Community College and a former student of Watson's, notes that she "was one of the pioneers of ethnoarchaeology. She was one of the first to live long enough in a village to understand everything from its architecture to its cooking and its kinship structure."

In 1963 Watson turned her attention to North America,

1949. Because outside contact has been limited, Chinese archaeologists do not know about many of the latest excavation and research techniques. The National Academy of Sciences' Committee on Scholarly Communication with China, under the direction of Thorp, is working to enable collaboration with Chinese archaeologists.

Watson is quick to note the highly developed skills of Chinese archaeologists, including detailed knowledge of pottery types and stratigraphy. However, she notes, they have not traditionally concentrated on retrieval of organic material, such as animal bones and plant remains. Because of their lack of contact with other countries over the past 45 years, Chinese archaeologists have had no access to new recovery techniques. When Watson was in China last summer, her hosts gave her a 1x1 meter square and watched her dig it so she could demonstrate excavation and fine-scale recovery techniques.

Watson also is intensely involved with teaching the next generation of archaeologists here at Washington. Former students continue to appreciate her guidance.

"As far as I'm concerned, Patty Jo walks on water," says Ken Carstens, a former student and now professor of anthro-

pology at Murray State University. "She is a phenomenally intellectual person. She has the patience of Job. She can take a person who isn't a scholar and turn them into one."

Her former student Fuller adds, "She knows that students can get distracted. She keeps them on track. Pat is very serious about the success of people that have come to work and study with her."

Watson has high expectations of her students but she also helps them at every opportunity. "Ideally (the teacher-student) relationship should be a reciprocal kind of relationship rather than patron/client," says Watson. "The work should benefit both parties rather than just provide the



"Red gave me as a wedding present a carbide lamp, a pair of gloves, a hard hat and all the appropriate gear, and then we went caving."

focusing on the Salts Cave in Flint Ridge Cave System, Mammoth Cave National Park in Kentucky, where she concentrated on documenting prehistoric cave exploration and the origins of plant domestication. With its almost constant temperature and humidity, as well as protection against weathering, the cave system is well suited for preserving artifacts and botanical material.

Using the textiles, vegetable remains, charred food, gourd vessels, human paleofeces and other items left in the caves, she has reconstructed the lives of the prehistoric people who lived in this region of North America's eastern woodlands.

Watson's cave research has been published in numerous articles and two well-known books, *The Prehistory of Salts Cave, Kentucky* and *Archaeology of the Mammoth Cave Area*.

In addition to her work in Kentucky, Watson has been called in on other major projects. At a recent archaeological conference, Watson and co-author Cyndi Mosch revealed findings about a man who died 8,000 years ago in a Colorado cave. These are the oldest human remains discovered above 10,000 feet. Watson says this is the only known example in the world of a human found in a cave at that elevation.

A second project takes Watson much further afield — to China. There, in collaboration with Robert Thorp, Ph.D., chair of the Department of Art History and Archaeology and professor of art history, she has been one of the first foreigners to participate in an archaeological excavation since

professor with a captive labor force."

"As long as you worked your butt off she kept you under her wing," says Carstens. "She pointed me in the right direction, put me in contact with other leaders in the field, guided me while standing back far enough to let me make my own mistakes and even taught me how to write research grants so I would be ready for the real world. She basically paved every road that needed to be paved."

Carstens also feels indebted to Watson for her level-headedness. Last August, Carstens was one of several archaeologists and cavers who were assisting a film crew from WGBH Boston taping a documentary on Watson for "A Life of Science," scheduled for fall 1994. Carstens, who is hypoglycemic, went into insulin shock and then hypothermia and severe dehydration one and one-half miles inside the cave. If left untreated, Carstens was in danger of going into a coma and, perhaps, dying.

Watson responded to the emergency in her typical, efficient way, says Carstens.

"She knew what role she had to play and what had to be done. She got me comfortable, made sure I was warm and I had water. Then she went to the appropriate rescue organization, she knew what to tell them." Watson's rescue effort required three or four grueling trips in and out of the cave.

In addition to teaching, excavating and writing about her field, Watson is very interested in building the discipline, notes Fuller. That includes making sure that people from different ethnic groups and geographical locations are trained as archaeologists. She is currently working to recruit American Indian students.

Also, Watson has paid special attention to including foreign students in the program. These students typically return to their home countries to teach. It is important that they learn North American methodology, not, she emphasizes, because it is necessarily better, but it is important that it is part of their repertoire. "(Other archaeologists) always appreciate, as I do, finding out how other people do things," says Watson.

Anthropology students from places such as China, Turkey, Yemen and Jordan have trained with Watson. Many are now teaching at universities in their own countries, helping to educate future archaeologists in scientific approaches to the past.

— Debby Aronson

Calendar

Nov. 4-13



Exhibitions

"Recent Acquisitions: Rare Books and Manuscripts Added to Special Collections." Through December. Olin Library, Special Collections, Level Five. Hours: 8:30 a.m.-5 p.m. weekdays.



Films

Thursday, Nov. 4

7 and 9 p.m. Filmboard Foreign Series. "Gold of Naples," in Italian with English subtitles. Room 100 Brown Hall. Cost: \$3. For 24-hour Filmboard hotline, call 935-5983.

Friday, Nov. 5

7 and 9:30 p.m. Filmboard Feature Series. "Citizen Kane." (Also Nov. 6, same times, and Nov. 7 at 7 p.m.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series. "Fail Safe." (Also Nov. 6, same time, and Nov. 7 at 9:30 p.m.) Room 100 Brown Hall. Cost: \$3.

Tuesday, Nov. 9

7 p.m. Chinese Film Series. "Raise the Red Lantern," with English subtitles. Room 219 South Ridgley Hall.

Wednesday, Nov. 10

7 and 9 p.m. Filmboard Foreign Series. "Day For Night," in French with English subtitles. (Also Nov. 11, same times.) Room 100 Brown Hall. Cost: \$3.

Friday, Nov. 12

7 and 9:30 p.m. Filmboard Feature Series. "Reservoir Dogs." (Also Nov. 13, same times.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series. "Say Anything." Room 100 Brown Hall. Cost: \$3.



Lectures

Thursday, Nov. 4

Noon. Genetics and biology and biomedical sciences seminar. "The Retinoblastoma Protein: Tumor Suppression by Transcriptional Inhibition," Ed Harlow, prof. of genetics, Harvard Medical School, Boston, and investigator, Massachusetts General Hospital, Charlestown, Mass. Erlanger Aud., McDonnell Medical Sciences Bldg.

4 p.m. Biology and biomedical sciences student-organized seminar. "Protein Folding: Finding a Needle in a Haystack," Ken A. Dill, prof., Dept. of Pharmacology, U. of California, San Francisco. Erlanger Aud., McDonnell Medical Sciences Bldg.

4 p.m. Chemistry seminar. "Electronic Structures of Active Sites in Copper Proteins and Their Contributions to Reactivity," Edward I. Solomon, prof. of chemistry, Stanford U. Room 311 McMillen Lab.

4 p.m. Earth and planetary sciences colloquium. "Plate Boundary Processes From High Resolution Aftershock Studies," Susan Y. Schwartz, research geophysicist, Earth Sciences Dept., U. of California, Santa Cruz. Room 162 McDonnell Hall.

4 p.m. Edward G. Weltin Assembly Series lecture. "Family Values? Women, Asceticism and Roman Imperial Society," Elizabeth A. Clark, John Carlisle Kilgo Professor of Religion, Duke U. May Aud., Simon Hall.

4:15 p.m. Philosophy colloquium. "Neutrontal Control of Behavior From a Levels Perspective: Spinal Cord Circuits That Select and Generate the Forms of a Task and Their Blends," Paul Stein, prof. of biology. Hurst Lounge, Room 201 Duncker Hall.

4:30 p.m. Math colloquium. Aimo Hinkkanen, prof. of math, U. of Illinois, Urbana. Room 199 Cupples I Hall.

Friday, Nov. 5

9:15 a.m. Pediatric Grand Rounds. "Sorting Problems of Blood Clotting Factors," Robert J. Fallon, asst. prof. of pediatrics, cell biology and physiology, Division of Hematology/Oncology. Clopton Aud., 4950 Children's Place.

Noon. Brown bag lunch for women faculty. Remarks by Susan Appleton, prof., School of Law. Lambert Lounge, Room 303 Mallinckrodt Center.

1 p.m. Solid-state engineering and applied physics seminar. "Capacity Bounds for Magnetic-recording Media," D. G. Porter, electrical engineering graduate student. Room 305 Bryan Hall.

4 p.m. Earth and planetary sciences colloquium. "Experimental Results for U and Th Solubility in Supercritical Aqueous Fluids," K. Vala Ragnarsdottir, prof., Dept. of Geology, U. of Bristol, England. Room 162 McDonnell Hall.

4 p.m. Twenty-first Annual Carl Vernon Moore Memorial Lecture. "Transgenic and Protein Structural Approaches to Unraveling the Enigmas of Prion Diseases," Stanley B. Prusiner, prof. of neurology, Dept. of Neurology, U. of California, San Francisco. Moore Aud., 4580 Scott Ave.

6 and 8:30 p.m. WU Association Travel Lecture Series. "Costa Rica," Sherilyn Menten, travel lecturer and researcher. Graham Chapel. Cost: \$4.50 at the door.

Monday, Nov. 8

11 a.m. Civil engineering seminar. "Reliability-based Measures of Structural Control Robustness," B. F. Spencer Jr., assoc. prof. of civil engineering, U. of Notre Dame, South Bend, Ind. Room 216 Urbauer Hall.

Noon. Molecular biology and pharmacology seminar. "The Regulation of Fibroblast Growth Factor Receptor Activity (the Molecular Biology and Pharmacology of FGF Receptors)," David M. Ornitz, asst. prof., Dept. of Molecular Biology and Pharmacology. Room 3907 South Bldg.

Noon. Molecular microbiology special seminar. "Molecular Pathogenesis of Aleutian Mink Disease Parvovirus Infections," Marshall Bloom, Laboratory of Persistent Viral Diseases, Rocky Mountain Laboratories, Hamilton, Mont. Room 775 McDonnell Medical Sciences Bldg.

4 p.m. Biology seminar. "Predicting Some Consequences of Environmental Change," Timothy Wootton, prof. of biology, Dept. of Ecology and Evolution, U. of Chicago. Room 322 Rebstock Hall.

4 p.m. Biomedical computing and biomedical engineering seminar. "Mechanistic Models in Drug Design and Toxicology," Chris L. Waller, research assoc., Center for Molecular Design. Room 509C Bryan Hall.

4 p.m. Immunology seminar. "Neurotrophic Factors and How They Work," George Yancopoulos, vice president, Discovery Division, Regeneron Pharmaceuticals, Tarrytown, N.Y. Third Floor Aud., Children's Hospital.

4 p.m. Theatre arts lecture. "Theatre/Theory: The Anxiety of Abstraction," Gerald Rabkin, prof. of theatre arts, Rutgers U., and writer for the Kansas City Star, American Theatre and Performing Arts Journal. Room 313 Mallinckrodt Center.

Wednesday, Nov. 10

7:30 a.m. Obstetrics and Gynecology Grand Rounds. "Gynecologic Ultrasound: Evaluation of Premalignant and Malignant Disorders," Lisa Bernhard, instructor, Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place.

11 a.m. Assembly Series Thomas D. Fulbright Lecture in American History.

"Thomas Jefferson's Legacies," Peter S. Onuf, Thomas Jefferson Memorial Foundation Professor, U. of Virginia and author, *Statehood and Union: A History of the Northwest Ordinance*. Graham Chapel.

4 p.m. Biochemistry and molecular biophysics seminar. "Non-Watson-Crick Base Pairs and RNA Structure," Ignacio Tinoco Jr., U. of California, Berkeley. Cori Aud., 4565 McKinley Ave.

4 p.m. David R. Calhoun Jr. Memorial Lecture. "Japan in Transition: A New Paradigm for Managers," Yotaro Kobayashi, chairman and chief executive officer, Fuji Xerox Co. Ltd. Sponsored by John M. Olin School of Business and the Center for the Study of American Business. May Aud., Simon Hall.

4 p.m. Physics lecture. "The Classical Limit of an Atom," Carlos Stroud, U. of Rochester, N.Y. Room 204 Crow Hall. (Coffee: 3:30 p.m., Room 245 Compton Hall.)

4:15 p.m. Women's studies colloquium. "Difference: Postcolonial Diasporas and Race Relations," Ranu Samantrai, asst. prof., English and women's studies, Smith College. Sponsored by Women's Studies, African and Afro-American Studies Program, Dept. of English and Social Thought and Analysis. Hurst Lounge, Room 201 Duncker Hall.

Thursday, Nov. 11

Noon. Genetics seminar. "Regulators That Govern Meiotic Gene Expression in Yeast," Aaron Mitchell, Institute of Cancer Research, Columbia U., N.Y. Room 816 McDonnell Medical Sciences Bldg.

Noon. Human studies committee lecture. "Physicians and National Socialism," Stephen Lefrak, Distinguished University Professor of Medicine. Wohl Hospital Bldg. Aud.

1:10 p.m. George Warren Brown School of Social Work lecture. "Media's Reports of Violence in the Community: Factual or Slanted?" Donald Suggs, publisher, St. Louis American. Brown Hall Lounge.

3:30 p.m. Earth and planetary sciences colloquium. "Stratospheric Ozone: Prospects for Preservation," Richard Turco, prof., Institute of Geophysics and Planetary Physics, U. of California, Los Angeles. Room 162 McDonnell Hall.

4 p.m. Biology and biomedical sciences student-organized seminar. "Regulation of Phospholipase Activities by G-proteins," Paul Sternweis, Dept. of Pharmacology, U. of Texas Southwest Medical Center. Erlanger Aud., McDonnell Medical Sciences Bldg.

4 p.m. Chemistry seminar. "De Novo Simulations of Globular Protein Folding, Structure and Dynamics," Jeffrey Skolnick, research assoc., Scripps Research Institute. Room 311 McMillen Lab.

4 p.m. Charles W. Buescher Memorial Colloquium. "The Formation of Metallic Cores: An Experimental Study," John W. Larimer, prof., Dept. of Geology, Arizona State U. Room 361 McDonnell Hall.

4:30 p.m. Math colloquium. "Multiplication Operators on Functional Hilbert Spaces in Several Variables," Raul Curto, U. of Iowa, Iowa City. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

6 p.m. First G. Leland Melson Visiting Professorship and Lecture. "Color Doppler Sonography of Pelvic Masses," Arthur C. Fleischer, prof. of radiology and radiological sciences and prof. of obstetrics and gynecology, Vanderbilt U. School of Medicine. Scarpellino Aud., Mallinckrodt Institute of Radiology.

Friday, Nov. 12

9:15 a.m. Pediatric Grand Rounds. "Early Intervention for Low Birth Weight Infants," Marie C. McCormick, prof. and chair, Dept. of Maternal and Child Health, Harvard School of Public Health and prof. of pediatrics, Joint Program in Neonatology, Harvard Medical School, Boston. Clopton Aud., 4950 Children's Place.

Noon. Cell biology and physiology seminar. "Molecular and Cellular Studies of Clathrin and its Associated Proteins," Tomas Kirchhausen, assoc. prof., Center for Blood Research, Harvard U. Medical School, Boston. Room 423 McDonnell Medical Sciences Bldg.

4 p.m. Hematology-oncology seminar. "CSF-1 Receptor: Mechanisms of Intracellular Signaling," Angel Lee, asst. prof. in biochemistry and molecular biophysics. Room 8841 Clinical Sciences Research Bldg.



Music

Monday, Nov. 8

8 p.m. Amphion Chamber Orchestra concert. Program includes Stravinsky's "L'Histoire du soldat" ("The Soldier's Tale"), directed by Seth Carlin, prof. of music. Women's Bldg. Lounge.

Friday, Nov. 12

8 p.m. Student/faculty concert. "Tchaikovsky: A Concert to Honor the Composer on the 100th Anniversary of His Death." Solo songs, choral music performed by students Robyn Reso, Garry Ziegler, James Doering and faculty members Christine Armistead, Donnal DiGrazia, John Stewart, Julie Emoed-Wallace. Graham Chapel.

Saturday, Nov. 13

8 p.m. Black Composer Repertory Chorus concert. Directed by Robert Ray. Program features "Ballad of the Brown King" by Margaret Bonds. Graham Chapel.



Performances

Friday, Nov. 5

8 p.m. Performing Arts Dept. production. "Buried Child." (Also Nov. 6, 12 and 13, same time, and Nov. 7 at 7 p.m.) Edison Theatre. Cost: \$7 for the general public; \$5 for senior citizens and WU faculty and staff; and \$5 for students.



Miscellany

Friday, Nov. 5

1 p.m. Biology and biomedical sciences 20th anniversary symposium. "The Impact of Molecular Biology on Homology Assessments in Systematics," Robert DeSalle, Dept. of Entomology, American Museum of Natural History, New York, N.Y.; "Specification of Functional Areas in the Developing Mammalian Cortex," Dennis O'Leary, prof., Molecular Neurobiology Laboratory, The Salk Institute, San Diego, Calif.; "Repressor Mediated Translational Control: The Regulation of Ferritin Synthesis by Iron," William Walden, assoc. prof., Dept. of Microbiology and Immunology, U. of Illinois, Chicago. Cori Aud., 4565 McKinley Ave.

4:30 p.m. International Student Resource Group tour. Tour of Chrysler Corp. assembly plant. Meet at Stix International House to board bus. For more info., call 935-5910.

Saturday, Nov. 6

9 a.m.-4:30 p.m. Second Annual Comparative Literature Symposium for Graduate Students. Papers on topics related to comparative literature will be presented by arts and sciences graduate students. Sponsored by the Committee on Comparative Literature. Alumni House living room.

10 a.m.-4 p.m. Women's workshop. "Making Yourself Heard: A Workshop for Women." Workshop includes assertiveness skills training, communication between men and women and a panel discussion regarding challenges facing women in the workplace. Open to all WU women. Lambert Lounge, Mallinckrodt Center. (Light lunch will be provided.) For lunch and reservation info., call 935-7583.

8 p.m. Bookmark Society reading. Reading by Richard (Red) Watson, prof. of philosophy. West Campus Library, 7425 Forsyth Blvd.

Monday, Nov. 8

6:30 p.m. Society of Professors Emeriti annual dinner and program. Program features a string quartet from WU Dept. of Music. Whittemore House. Cost: \$20 per person. For more info., look for announcement in the mail.

Thursday, Nov. 11

1-5 p.m. Race and Science Conference. (Continues through Nov. 12, 8:30 a.m.-noon.) Keynote address by Shirley M. Malcom, head, American Association for the Advancement of Science's Directorate for Education and Human Resources Programs. Sponsored by the American Culture Studies Institute, the African and Afro-American Studies Program and the Missouri Botanical Garden. Women's Bldg. Lounge. (A 6:30 p.m. dinner will be held at Spink Pavilion, Missouri Botanical Garden. Cost: \$30, payable by Nov. 4.) For info., call 935-5690.

Friday, Nov. 12

7:30 a.m. School of Continuing Medical Education 20th Annual Symposium.

"Anesthesia and the Geriatric Patient." (Continues through Nov. 14.) Marriott Pavilion Hotel. For cost and registration info., call 362-6893.

8 a.m. School of Continuing Medical Education seminar. "Innovations in Oral Cavity Cancer." (Continues through Nov. 13.) Adam's Mark Hotel. For cost and registration info., call 362-6893.

3 p.m. International Student Resource Group lecture and tour. "On Stage — Back Stage," a tour of the St. Louis Repertory Theatre. Meet at Stix International House to board bus. For more info., call 935-5910.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-4926.



Audience members are encouraged to wear their favorite cowboy or cowgirl outfits when Riders in the Sky performs Nov. 21 in Edison Theatre.

Cowboy trio saddles up at Edison, performs old Western favorites

Strap on your six-shooter and pull on your cowboy boots — Riders in the Sky, a singing cowboy trio, is galloping into Edison Theatre at 2 and 4 p.m. Nov. 21.

This event, which is part of the "ovations! for young people" series, also features a special benefit for children and their families following the 4 p.m. show. The Riders will host a chuck wagon dinner in the Whittemore House with the proceeds benefiting Friends of Edison. Tickets are \$15 for children and \$18 for adults. Reservations are required. For more information about the benefit or to make a reservation, call 935-6518.

For the past 13 years, Riders has done things "the cowboy way," following the trail blazed by Roy Rogers, Gene Autry and the Sons of the Pioneers and introducing traditional Western music to millions of new fans. The trio performs old favorites such as "Pecos Bill" and "Cody of the Pony Express," both from the Sons of the Pioneers songbook. It also performs original works, such as Ranger Doug's "I Always Do," "How Does He Yodel?" and "The Cowboy's A-B-C."

Riders' three-part harmony and multi-level humor is heard weekly on the award-

winning "Riders Radio Theater," which is broadcast over 151 National Public Radio outlets. The trio has recorded 11 albums and regularly performs at the Grand Ole Opry.

Riders in the Sky also recently joined the Saturday morning crowd with a CBS television program called "Riders in the Sky." The program takes place at Harmony Ranch in Tumbleweed Valley in the heart of the West. The show combines live action, puppets, cartoon segments and songs of the West. The Riders may soon be as popular as pubescent mutant turtles, smart-aleck Simpsons and the droll lazy cat named Garfield. Best of all, the members say, they reached this pinnacle as humans who wear white hats, big boots, and who stick to their guns.

The trio comprises Ranger Doug, singer and guitarist and self-proclaimed "Idol of American Youth"; fiddler Woody Paul, also known as King of the Cowboy Fiddlers; and Too Slim, who is best known for performing "Face: The Music," in which he performs the longest face-slapping solo on record. "It's all in the wrist," he says of his palm-to-cheek performance.

All tickets are \$8. Audience members are encouraged to wear their favorite cowboy or cowgirl outfits.

For more information, call 935-6543.

Philharmonia Baroque Orchestra makes debut

The Philharmonia Baroque Orchestra, directed by Nicholas McGegan, will perform works by Bach, Mozart, Vivaldi and Telemann at 8 p.m. Nov. 20 in Edison Theatre.

This St. Louis debut is being held in honor of the Friends of Edison and the Friends of Music. The concert is part of Edison Theatre's "OVATIONS!" series.

McGegan will give a pre-concert lecture for ticketholders at 7 p.m. in Edison Theatre. He will discuss the orchestra.

During the concert, Seth Carlin, professor of music and internationally acclaimed keyboardist, will make a special guest appearance, performing on the fortepiano. Carlin has performed under the auspices of the Cambridge Society for Early Music in Boston and Tafelmusik concerts in Toronto and is a founding member of Trio Mozart, featured at New York's Merkin Hall in the "On Original Instruments Series."

McGegan, who has guest-conducted the St. Louis Symphony and taught at Washington University, has been music

director of Philharmonia Baroque since 1985. During his tenure he has helped establish the orchestra as one of the most prominent period-instrument orchestras in the United States. In 1990, McGegan became director of the Göttingen Handel Festival in Germany. Over the next two years, he will be guest conductor at Sweden's Drottningholm Slottsteater and the English National Opera.

The Philharmonia has been called "the country's leading early-music orchestra" by The New York Times. Since its founding in 1981, the Philharmonia Baroque has become "an ensemble for early music on authentic instruments as fine as any in the world today," according to Alan Rich of the Los Angeles Herald Examiner. The Philharmonia has made 17 recordings for Harmonia Mundi and records exclusively on that label. The orchestra's widely praised releases include a live concert recording of Handel's "Susanna," which received a Grammy nomination in 1990.

Tickets are \$25 for the general public and \$20 for students.

For more information, call 935-6543.

Sports

Football

Last Week: Washington 49, Principia 33

This Week: vs. Colorado College, 1:30 p.m. Saturday, Nov. 6, Francis Field

Current Record: 6-3

Washington secured its third winning season since 1990 with a 49-33 victory at Principia College. Junior running back Todd Hannum, Maryville, Tenn., turned in one of the top rushing performances in school history with a 290-yard effort on 23 carries. Senior quarterback Aaron Keen, Cheyenne, Wyo., threw three touchdown passes, two to senior receiver Ted Gregory, Elkhorn, Neb.

Women's Volleyball

Last Week: Washington 3 (15, 8, 15, 15), Rochester Institute of Technology 1 (8, 15, 4, 11); At UAA Championships: Washington 3 (15, 15, 15), Carnegie Mellon 0 (7, 0, 4); Washington 3 (15, 15, 11, 15), Emory 1 (8, 4, 15, 9); Washington 3 (15, 15, 15), New York 0 (4, 3, 5); Washington 3 (15, 15, 15), Rochester 0 (2, 5, 6); Washington 3 (15, 15, 15), Chicago 0 (2, 2, 10)

This Week: vs. St. Francis, noon Saturday, Nov. 6, Lebanon, Ill.; vs. McKendree, 4 p.m. Saturday, Nov. 6, Lebanon, Ill.

Current Record: 38-1

The Bears travelled to Rochester, N.Y., and came home with their fifth consecutive University Athletic Association championship. The Bears extended their UAA win streak to 59 matches and their regular season winning string to 24. Seven team members were recognized with all-UAA honors, including junior Amy Albers, Washington, Mo., who was selected as the league's most valuable player. Joining Albers on the all-Association first-team were seniors Amy Sullivan, St. Louis, and Leslie Catlin, Lawrence, Kan., and junior Anne Quenette, Springfield, Ill. Also recognized: sophomore Nikki Gitlin, Roslyn, N.Y., to the second team, and seniors Angie Suarez, St. Louis, and Christine Masel, Raytown, Mo., to the honorable mention squad. For the seventh straight year, Teri Clemens and Joe Worlund were voted by their peers as UAA Coaching Staff of the Year.

Men's Soccer

Last Week: Washington 5, Case Western Reserve 1

This Week: NCAA South Central Regional: vs. Wisconsin-Oshkosh, 11 a.m. Friday, Nov. 5, Wheaton, Ill.

Current Record: 12-5-1

For the fourth consecutive year Washington University is making a trip to the NCAA Division III national tournament. With a victory on Friday, the Bears would play the winner of the Wheaton-Illinois Benedictine match at 1 p.m. on Saturday.

Women's Soccer

Last Week: Case Western Reserve 1, Washington 0; Missouri-Rolla 2, Washington 0

Current Record: 4-14-0 (Season complete)

The Bears lost against Case Reserve, giving up a goal with just 10 minutes remaining, to end their UAA season at 0-5. Seniors Alison Wilson, Bethesda, Md., and Lainie Mitzner, East Brunswick, N.J., tied for team leadership with four points apiece.

Men and Women's Cross Country

Last Week: at University of Chicago Invitational: *Men's Finish:* 1st of 5; *Women's Finish:* 3rd of 3

Next Meet: at NCAA Division III Midwest Regionals, 11 a.m. Saturday, Nov. 13, Oshkosh, Wis.

Led by a medal-winning performance from freshman Keith Lit, Southampton, Pa., the men's team finished first in a closely contested field of five. Lit circled the 4.865-mile course in 26:03.5 to place first overall in the field of 40 runners. The women were led by freshman Amy Chi, Olympia Fields, Ill., who completed the five-kilometer run in 20:01.8 and finished 11th out of 40 competitors.

Men and Women's Swimming/Diving

Last Week: *Men's Team:* Washington 116, Northeast Missouri 86; Missouri-Rolla 131, Washington 76. *Women's Team:* Northeast Missouri 112, Washington 83

This Week: Washington University Relays, noon Saturday, Nov. 6, Millstone Pool

The Bears dove into the 1993-94 swimming season, posting strong performances against a trio of scholarship teams. Freshman Chris Manos, Westfield, N.J., was the Bears' sole multiple winner on the men's side, winning both the 500-yard freestyle (5:14.02) and the 1,000 free (10:41.51). On the women's side, freshman Shay Upadhyaya, Brentwood, Tenn., posted a near-Washington record clocking of 25.86.



Roy Curtiss III, left, professor of biology, meets Jerry Bishop of the Wall Street Journal during the official welcome of the New Horizons in Science Briefing. The event, which is an annual program of the Council for the Advancement of Science Writing Inc., brings scientists and journalists together.

Journalists tour science laboratories — from page 1

The Washington contribution to the program consists of Roy Curtiss III, Ph.D., professor of biology, who delivered the opening session on his research of an anti-fertility vaccine with nonvirulent Salmonella bacteria;

Stanley J. Korsmeyer, M.D., professor of medicine and of molecular biology; Eugene B. Johnson, Ph.D., professor of molecular biology and pharmacology; and Dennis W. Choi, M.D., Ph.D., professor and head of neurology, who presented a special symposium on cell death Nov. 2;

Michael I. Miller, Ph.D., professor of electrical engineering, who discussed computer algorithms that can determine individual biological patterns and shapes on Nov. 2;

Peter H. Raven, Ph.D., Engelmann Professor of Botany and director of the Missouri Botanical Garden, who debated Julian L. Simon, Ph.D., professor of

business administration, University of Maryland, on species extinction Nov. 2;

John Atkinson, M.D., professor and head, Department of Medicine, who is presenting a plenary session on the complement system Nov. 3;

Raymond E. Arvidson, Ph.D., professor and chair, Department of Earth and Planetary Sciences, who is discussing new plans to explore Mars after the lost Mars Observer Mission.

On Wednesday afternoon, the New Horizons writers and editors will observe a demonstration of Project Zeus delivered by Jerome R. Cox, Sc.D., professor of computer science, Jonathan S. Turner, Ph.D., professor and chair of computer science, and Gilbert R. Jost, M.D., professor of radiology, Mallinckrodt Institute of Radiology.

Journalists also will tour the NASA Geoscience Node. The tour will be led by Arvidson, Bruce Fegley, Ph.D., associate professor of earth and planetary sciences, and Michael E.

Wyssession, Ph.D., assistant professor of earth and planetary sciences. Finally, they will tour the laser laboratory of Dewey Holten, Ph.D., professor of chemistry, and Christine R. Kirmaier, research associate professor of chemistry.

Other area scientists to make presentations include Philip H. Brodsky, Ph.D., director, corporate research and environmental technology, Monsanto Co., who will speak on waste cleanup techniques on Nov. 4, and Mark A. Prelas, professor of nuclear engineering, University of Missouri, who, with Spitsyn, will discuss diamond electronics on Nov. 4.

The New Horizons program also includes an annual banquet, which this year was held Nov. 2 in Ridgley Hall's Holmes Lounge. Jon Van, Chicago Tribune science writer and president of the National Association of Science Writers (NASW), presented NASW Science-in-Society awards to Justin Catanoso and Taft Wireback, writers for the Greensboro (N.C.) News & Record; John Horgan, senior writer for Scientific American; and CNN's Miles O'Brien, science correspondent, and Kate King, producer, for science stories they wrote and produced in 1993.

On the evening of Nov. 3, the program shifts to the St. Louis Science Center for a dinner and tours. The film "Antarctica" will be shown in the center's OMNIMAX Theatre. Robert M. Walker, Ph.D., McDonnell Professor of physics and director of the University's McDonnell Center for the Space Sciences, will comment on his search for meteorites in Antarctica. The event is being hosted by the Academy of Science of St. Louis and the St. Louis Science Center.

The New Horizons program is sponsored by Washington University, with additional contributions from Monsanto Co. and the National Science Foundation.

School of Architecture to host forum on city design for mayors

The School of Architecture will host the Mayors' Institute on City Design: Midwest from Nov. 11-13. The institute, which is sponsored by the National Endowment for the Arts (NEA), provides a forum for an invited group of mayors to meet with architects and designers to discuss all aspects of city design — architecture, landscape architecture, historic preservation, growth planning and management, urban design and development.

The keynote lecture will be held at 8 p.m. Thursday, Nov. 11, by John Norquist, mayor of Milwaukee, Wis., in Steinberg Hall auditorium. The lecture is free and open to the public.

The National Mayors' Institute on City Design program was established in 1986 by the NEA in partnership with the University of Virginia School of Architecture, the Jefferson Institute and the U.S. Conference of Mayors. In 1990 four regional institutes were established at universities nationwide. Washington University's Urban Research and Design Center is hosting the Midwest institute. The institute runs for three years. Each year mayors from different cities attend.

Each institute brings together a group of mayors and design professionals. The agenda includes presentations on general city design topics as well as discussions of specific design issues selected by the participating mayors. More than 100 mayors have "graduated" from the various institutes since the program's inception.

The design professionals are a broadly interdisciplinary group comprising experts in architecture and urban design, historic preservation, landscape architecture, developers and sociologists as well as three NEA representatives.

Panel members include John Hoal, director of the institute and assistant professor of architecture at Washington University; Donald Royse, Ph.D., urban planner and architecture professor; Jack Kirkland, associate professor of social work; Davis Van Bakergem, director of the Urban Research and Design Center; Catherine Brown, landscape architect at the University of Minnesota; Annette Bridges, state preservationist for the Scott Joplin House; and Mary Means of the Main Street Program, a national program that gives resources to small cities to help preserve their main streets and downtowns.

"Mayors are the focus of the institute because they are uniquely situated to be powerful advocates for good design in their communities," Hoal said. "The institute serves as a vehicle for providing support and resources for the increased involvement of mayors in city design and they aim to have a positive influence on the livability of American communities."

This year's attendees are the mayors from Vincennes, Ind.; Hutchinson, Kan.; Columbia, Mo.; Green Bay, Wis.; Inkster, Mich.; Champagne, Ill.; and Zanesville, Ohio. The cities were selected by Hoal and David Block, coordinator of the institute and a graduate student in architecture. Other Washington University members of the project are Diane Treas Howard, grant administrator, and Elizabeth Falletta, project assistant.

Members of the advisory committee, which helped form the framework of the institute were: Cynthia Weese, dean of the School of Architecture; former St. Louis Mayor Vince Schoemehl and University City Mayor Janet Majerus, both alumni of the program; Royse and Van Bakergem.

Fuji Xerox chairman and CEO to speak

Yotaro Kobayashi, chairman and chief executive officer (CEO) of Fuji Xerox Co. Ltd., will present "Japan in Transition: A New Paradigm for Managers" at 4 p.m. Wednesday, Nov. 10, in Simon Hall's May Auditorium.

The speech by Kobayashi, one of Japan's leading business executives, is presented by the John M. Olin School of Business and the Center for the Study of American Business with support from the David R. Calhoun Jr. Memorial Lecture fund. It is one of many on-campus activities scheduled as part of International Week, which is sponsored by the International Business Council of the business school.

Kobayashi graduated from Tokyo's Keio University in 1956 and received an MBA from the University of Pennsylvania's Wharton School in 1958. Upon graduating, he joined Fuji Photo Film. He was assigned to Fuji Xerox in 1963, became president and CEO in 1978 and in January 1992 was named chairman.

Kobayashi is one of three co-chairmen of the Keidanren's Committee on Europe. The Keidanren, also known as the Japan Federation of Economic Organizations, is Japan's leading business association.

Fuji Xerox was established in 1962 as a Japanese-British joint venture and is equally owned by Fuji Photo Film Co. Ltd. and Rank Xerox Limited, a subsidiary of Xerox Corp. Over the years, the company has maintained leadership as a manufacturer and marketer of xerographic copy machines. Despite stiff competition from rival Canon and Ricoh, the younger Fuji Xerox launched a vigorous Total Quality Control program centered around a concept known as "dantotsu" — making the absolute best product possible.

As Fuji Xerox prospered, Kobayashi exhorted the company's employees to capture the prestigious Deming Prize for Quality Control awarded by the Keidanren. In 1980, Fuji Xerox won the prize, attaining a level of employee commitment that is now legendary.

In recent years, the company has transformed itself into a supplier of integrated documentation systems, going beyond paper to include electronic and multimedia formats and introducing many original hardware and software products.

The speech is free and open to the public, and seating for the event is on a first-come, first-served basis.

For more information, call 935-6398.

Scholar discusses Thomas Jefferson's legacies

Historian Peter S. Onuf will give the Thomas D. Fulbright Lecture in American History at 11 a.m. Wednesday, Nov. 10, in Graham Chapel. His lecture, "Thomas Jefferson's Legacies," is part of the Assembly Series.

Onuf also will participate in an informal discussion at 2:30 p.m. Nov. 10 in Room 113 Busch Hall. Both the lecture and discussion are free and open to the public.

Onuf, Thomas Jefferson Memorial Foundation Professor at the University of Virginia, will speak in honor of the 250th anniversary of the third president's birth. Onuf is author and editor of numerous books and articles, including *Statehood and Union: A History of the Northwest Ordinance*, published in 1987. *Jeffersonian Legacies*, which Onuf edited, came out in April. *Federal Union, Modern World: The Law of Nations in an Age of Revolutions*,

1776-1814, which he co-authored with his brother, Nicholas, was published in August.

Onuf's honors include several grants. In 1984-85 he was a National Endowment for the Humanities Fellow at the American Antiquarian Society, in the spring of 1991, a Fellow at the Center for the History of Freedom at Washington University and during the summer of 1992, a Fellow at the Virginia Foundation for the Humanities and Public Policy.

Onuf, who received his doctorate from Johns Hopkins University, has taught there and at Columbia and Southern Methodist universities.

The Thomas D. Fulbright Lecture in American History is co-sponsored by the Assembly Series, Department of History, Student Union, Undergraduate History Association and Washington University Political Society. For more information, call 935-4620.

St. Louis community to run for flood relief

Students from the John M. Olin School of Business are organizing a 5K run and one-mile walk for flood relief. Proceeds will benefit the St. Louis Disaster Relief Fund of the American Red Cross. The St. Louis community is encouraged to participate.

"We continue to hear from local organizations about the need for funds now that the waters have receded and the redevelopment can begin," said Bill Zollinger, one of the race organizers. "By taking part in our 5K race or one-mile walk, individuals can contribute to organizations that really need help."

The 5K run and one-mile walk will start and finish at the business school on Nov. 14. The run begins at 8 a.m. The one-mile walk begins at 8:45 a.m.

Registration forms are available. Entry fees will be \$8 per person if postmarked by Nov. 9, and \$10 per person if postmarked from Nov. 10 through race day. No refunds will be available. Entry fee includes a T-shirt and miscellaneous surprise goodies.

For the 5K run only, there will be awards for the top three overall male and female finishers as well as the top three finishers in each age group. Age categories are: 19 and under, 20-29, 30-39, 40-49, 50-59, 60 and older. Several special prizes will be awarded, including an award to the top faculty/administrator from the Olin School. An award will be presented to the company with the largest team of runners. The awards ceremony will be held at approximately 9:30 a.m. on Nov. 14 in the Simon Hall lobby.

The race is made possible through the generous support of Edison Brothers Stores and other local companies. All participants may enjoy breakfast donated by the Saint Louis Bread Company and music provided by KEZK radio.

Businesses or individuals that wish to contribute to the Flood Relief Run may call Ricki Hampton at 935-6315.

For The Record

For The Record contains news about a wide variety of faculty, student and staff scholarly and professional activities.

Of note

Juan C. Bandres, M.D., a postdoctoral fellow in molecular microbiology, received a Meritorious Achievement Award from the Infectious Diseases Society of America during the society's meeting held in New Orleans. ...

Angel Lee, M.D., Ph.D., assistant professor of biochemistry and molecular biophysics, received a \$33,000 two-year grant from the American Heart Association, Missouri Affiliate Inc., for a project titled "Regulation of Signal Transduction in the Colony Stimulating Factor-1 Receptor by Serine/Threonine Phosphorylation." ...

During the Frontiers in Bioprocessing III conference held in Boulder, Colo., **Umashanker Sampath**, Ph.D., research associate in chemistry, received the Best Poster award for his poster titled "Chemical Synthesis of Building Blocks for Synthetic Ribozymes: Preparation and Characterization of Phosphoramidite 2." He co-authored and presented the poster with **James K. Bashkin**, Ph.D., assistant professor of chemistry. At the same conference, **Elena I. Frolova**, Ph.D., a research associate in chemistry, presented "Sequence-specific Cleavage of RNA by a Synthetic Ribozyme." She wrote the poster with Bashkin and Sampath. ...

The **Women's Panhellenic Association** (WPA), which comprises members of the seven sororities on campus, received third place honors in the National Panhellenic Conference's competition for the 1991-93 Public Relations Award. The conference is the governing body of all the country's national sororities. In addition, the WPA placed third in the competition for overall panhellenic excellence for schools with six to 10 chapters. The executive council of the WPA completed the applications for the competitions. The council members are: **Patricia Wu**, president; **Mandee Rosler**, vice president, membership development; **Kristina Gobel**, vice president, programming; **Lynne Tapper**, vice president, public relations; **Michelle Franco**, rush chair; **Lynne Lee**, director of rush counselors; **Kimberly Green**, treasurer; **Jennifer McCarthy**, secretary; and **Elaine Leo**, standards board chair. **Cathy Earley**, coordinator of Greek affairs, is the association's adviser.

Speaking of

Garland E. Allen, Ph.D., professor of biology, presented a paper titled "Flaws in Modern Theories of Biological Determinism — The Case of Eugenics" at a symposium held at the University of Illinois at Urbana-Champaign. The symposium honored the retirement of behavioral geneticist Jerry Hirsch of the university. ...

Andrew D. Dimarogonas, Ph.D., William Palm Professor of Mechanical Design, presented a plenary paper on "Vibration and Acoustic Monitoring of Rotating Machinery: A State of the Art Review" during the Acoustical Society of America's 124th meeting held in Denver. ...

William H. Gass, Ph.D., David May Distinguished University Professor in the Humanities and director of the International Writers Center, delivered a paper titled "Emotion and Meaning" at the 1993 Literature Symposium held in Graz, Austria. ...

Ann E. Geers, Ph.D., associate professor of psychology in the Department of Speech and Hearing at the Central Institute for the Deaf (CID) and director of clinical services at CID, will present a miniseminar on "Optimizing the Benefits of Cochlear Implants for Children" at the Nov. 19 convention of the American Speech-Language-Hearing Association held in Anaheim, Calif. ...

At the International Conference on Luminescence '93 held in Storrs, Conn., **John M. Jean**, Ph.D., assistant professor of chemistry, presented posters on "Pico-second Resonance Raman Study of

Vibration Dynamics of S₁ trans-Stilbene in Alcohols and Alkanes" and "Time- and Frequency-resolved Fluorescence as a Probe of Coherence Effects in Condensed Phase Electron Transfer." ...

Richard Scaldini, Ph.D., associate dean of the John M. Olin School of Business and director of executive programs, and **Penny Adams**, associate director of executive programs, presented workshops on operational issues during a conference in Mexico City co-sponsored by the American Association of College Schools of Business and the Executive MBA Council, an international association. The conference on "The Challenge of Educating International Managers: An Immersion Program" included meetings with prominent government and business leaders in Mexico. ...

Stephan K. Schindler, Ph.D., assistant professor of Germanic languages and literatures, presented a paper on "Der Skandal der DDR-Literatur ist Seine Skandalöse Lektüre" (The scandal of GDR-Literature is the West-German Reader) during the German Studies Association's annual convention held in Washington, D.C. ...

Michael Valente, Ph.D., associate professor of otolaryngology (audiology),

delivered a presentation on "Programmable Hearing Aids: Issues to Consider Before Dispensing" at the University of California, San Francisco. He also presented "Experiences With Digitally Programmable Hearing Aids" and "Fitting Strategies for Unilateral Hearing Loss" during the Kansas Speech-Language-Hearing Association's annual convention held in Wichita, Kan.

On assignment

Enola Proctor, Ph.D., professor of social work and chair of the doctoral program, was elected to a two-year term as chairperson of the Group for the Advancement of Doctoral Education (GADE) during the organization's 1993 annual meeting held in St. Louis. The group comprises chairpersons of social work doctoral programs at universities in the United States, Canada and Israel. ...

Theodore Reich, M.D., Samuel and Mae S. Ludwig Professor of Psychiatry, served as chairman of The 1993 World Congress on Psychiatric Genetics, which was held in New Orleans. More than 400 scientists from around the world attended the event, which was sponsored by The International Society of Psychiatric Genetics.

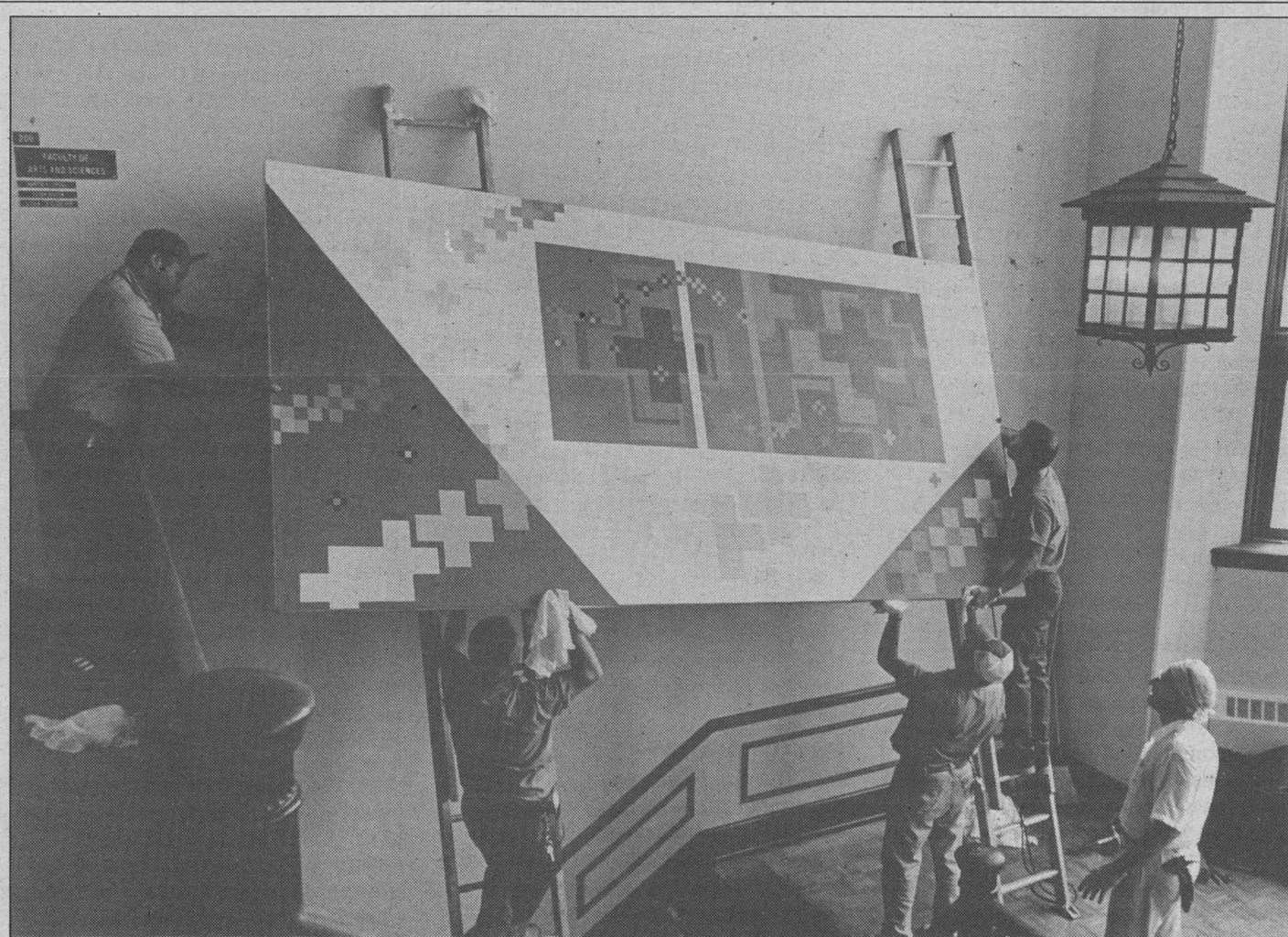
To press

Maxine I. Lipeles, J.D., professor (part time) of environmental regulation and policy, co-authored an environmental law casebook published by Anderson Publishing of Cincinnati. The casebook, titled *Water Pollution*, has been adopted for use by Yale Law School. Lipeles wrote the casebook with Jackson B. Battle, who practices and teaches law in Texas. *Water Pollution* is the second in Anderson's four-volume casebook series on environmental law. ...

Murray L. Wax, Ph.D., professor emeritus of anthropology, published an article titled "How Culture Misdirects Multiculturalism" in a 1993 issue of the *Anthropology & Education Quarterly* journal.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070. Items must not exceed 75 words. For information, call Sanford at 935-5293.



A painting by philosophy Professor Lucian W. Krukowski was installed on the eastern wall of the South Brookings stairwell. Krukowski (bottom, far right) donated the 1975 painting, "Consolations of Philosophy," to the University. He recently donated his 1978 painting titled "Complex I," which hangs on the opposite wall.

New members sought to join Woman's Club

Newcomers to the Washington University community are invited to join The Woman's Club, a social organization that sponsors cultural and educational activities. The annual dues are \$5 for first-time members (even if not new to the University), and \$10 every year thereafter.

The club was founded in 1910 to promote friendships, provide a forum for growth and welcome women to the campus community. Each year the club sponsors an Assembly Series lecture and endows a scholarship for women who are changing or returning to careers. The 1993 scholarship recipient is senior Jamie Eisenberg, a painting major in the School of Fine Arts.

The club will sponsor its fall luncheon at noon on Nov. 19 at the Mandarin House, 9150 Overland Plaza, which is located at Page and Woodson roads. The cost is \$9.50 per person. Reservations are requested by Nov. 12.

For more information about the luncheon, call Coreen Motard at 645-2022.

Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (School of Medicine).

Jurisiculture: China is the third of a definitive eight-volume work to explore the organization and regulation of society. **Gray L. Dorsey**, J.S.D., Charles Nagel Professor Emeritus of Jurisprudence and International Law, wrote the book and, as in previous volumes, attempts to understand another people, society and civilization, in relation to prevailing beliefs about reality. The author seeks to avoid the risk of distortion caused by "reading in" something familiar — instead of seeing what is really there. Building on the philosophical anthropology of F. S. C. Northrop, Dorsey argues that the cooperative activities of a human society are made possible by the shared consciousness of its members. He finds that from the Han dynasties (202 B.C.E.-220 C.E.) until the present century, the Chinese ideal society was a balance of power, interest and morality, as understood in a unique Chinese consciousness that had been developing from earliest times. He traces the development of that consciousness, taking into account the extensive anthropological discoveries of this century and the monumental work of Joseph Needham on Chinese science. (Transaction Publishers: New Brunswick, N.J., and London)



Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Assistant Accountant

940030. *Engineering Accounting*. Requirements: 18 hours of college business courses, including six hours of accounting course work; ability to use/willing to be trained to use mainframe computer, including financial on-line system (FIS, SIS, ELIG, FOCUS); ability to use personal computer, including spreadsheet software (WordPerfect); confidence in verbal ability; ability to deal effectively with University personnel; typing 45 wpm with accuracy. Clerical tests and three letters of recommendation required.

Receptionist/Data Entry Clerk

940072. *General Services*. Requirements: High school graduate, some college preferred; ability to deal cordially with the public; typing 40 wpm with accuracy. Clerical tests and three letters of recommendation required.

Word Processing Operator, Part-time

940089. *School of Social Work*. Requirements: Some college, associate's degree preferred; ability to proofread own work; transcription experience; above average knowledge of English grammar and spelling; ability to train personnel; pleasant telephone manner; ability to work with students, faculty, administrators and staff under minimum supervision; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Systems Administrator

940096. *University Registrar*. Requirements: Bachelor's degree; experience in computer systems and automation. Resume and three letters of recommendation required.

Department Secretary

940100. *Alumni and Development Programs*. Requirements: High school graduate, bachelor's degree preferred; strong command of the English language; ability to deal with multiple priorities with minimal supervision; typing 40 wpm with accuracy. Overtime, including nights, weekends, etc., is essential, as is a good personality and good grooming. Clerical tests and three letters of recommendation required.

Administrative Secretary

940102. *Graduate School of Arts and Sciences*. Requirements: High school graduate, some college preferred; provide general secretarial support to associate dean and to the coordinator of graduate student affairs and services; must be flexible (ability to change or work on two or more projects at one time); must enjoy working in a public contact area; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Programmer/Analyst II

940104. *Computing and Communications*. Requirements: Certificate or associate's degree; knowledge and experience with administrative data processing; excellent organizational and communications skills. Resume and three letters of recommendation required.

Programmer/Analyst III

940107. *Computing and Communications*. Requirements: Bachelor's degree; good language and people skills; ability to work with minimal supervision; ability to learn quickly and adapt to new

circumstances; experience with use and management of desktop computers; knowledge of desktop data base technology in a client/server environment highly desired; familiarity with DOS, Macintosh systems; knowledge of Novell, Appletalk, Windows and TCP/IP networking highly desired. Resume and three letters of recommendation required.

Associate Director of CAIT

940110. *Center for the Application of Information Technology (CAIT)*. Requirements: Bachelor's degree in a pertinent field of engineering, business, information systems or finance, an advanced degree is preferred; excellent communication skills; excellent marketing, general management and financial management skills; a minimum of 10 years of applicable work experience in business or industry with teaching experience as a component of the work experience; teaching experience is subject to review based upon other attributes; ability to plan, organize and lead special projects. Resume and three letters of recommendation required.

Facilities Manager

940112. *Gallery of Art*. Requirements: Bachelor's degree; experience handling works of art; experience with hand tools, power tools; trustworthy, experienced, able to supervise students. Resume and three letters of recommendation required.

Curator

940113. *Gallery of Art*. Requirements: Master's degree in art history or master's of fine arts degree with emphasis on 19th- and 20th-century European and American art; museum or gallery experience; strong research, public speaking and writing skills. Resume and three letters of recommendation required.

Director of Major Events and Special Projects

940114. *Public Affairs*. Requirements: Bachelor's degree; five years experience in public relations; three years of event planning; able to work evenings and weekends; experience managing employees and networking with peers, other managers, students and faculty. This is a 10-month appointment. Resume and three letters of recommendation required.

Department Secretary

940115. *Major Gifts and Capital Projects*. Requirements: Associate's degree or equivalent; specialized secretarial and business training; detail oriented; three years general office experience; good command of English; must be alert and well-spoken; able to deal with multiple priorities; mature; well-groomed; must have a pleasant personality; ability to work well with and relate easily to people; sensitivity to the needs and mission of Washington University and higher education; willingness to learn. Clerical testing and three letters of recommendation required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resume to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Secretary III

940222-R. *Radiology*. Requirements: High school graduate or equivalent with post-

high school training; emphasis on administration, secretarial sciences, language arts, planning and accounting; familiarity with graphics software; experience with Macintosh, Microsoft Word, Excel and Filemaker; typing 65 wpm.

Secretary I

940230-R. *Transportation*. Schedule: Part-time, 20 hours per week, usually 9 a.m.-1 p.m., but hours may switch as needed. Requirements: High school graduate or equivalent; good communication and customer-service skills; must have WordPerfect and spreadsheet experience; some knowledge of accounting procedures; typing 60 wpm.

Research Patient Coordinator/Professional

940246-R. *Ophthalmology*. Requirements: One to two years college with experience in an ophthalmic medical setting; good communication skills; sound knowledge of ophthalmic tests and measures; excellent recordkeeping skills.

Clerk Typist I

940276-R. *Student Affairs*. Schedule: Part-time, four hours per week, mornings or afternoons, flexible. Requirements: High school graduate or equivalent with a minimum of one year office experience; typing 35 wpm; ability to lift 20-pound boxes.

Medical Research Technician

940307-R. *Neurology*. Requirements: Bachelor's degree in biology, biochemistry or related field; skills in biochemistry and experience in neuroscience preferred.

Medical Secretary I

940308-R. *Pediatrics*. Schedule: Part-time, 20 hours per week, 8 a.m.-noon Mondays-Fridays. Requirements: High school graduate or equivalent, one year college preferred; good communication skills; familiar with manuscript typing and formatting; typing 60 wpm.

Medical Research Technologist

940311-R. *Pathology*. Requirements: Bachelor's degree in a scientific field with one year experience in a biochemical research laboratory. Will be perform-

ing and analyzing experiments in molecular biology and immunology.

Library Assistant II

940314-R. *Medical Library*. Schedule: 4-11 p.m. Fridays; 8:15 a.m.-6 p.m. Saturdays; 4 p.m.-midnight Tuesdays, Wednesdays and Thursdays. Requirements: One year college with some library experience preferred; mature work ethic; service oriented.

Lab Tech Research

940324-R. *Pharmacology*. Requirements: Some course work beyond high school; good binocular vision in working with microscope and performing microsurgery; fine motor skills with a steady hand. Will be working with laboratory mice.

Clinic Administrator

940326-R. *Obstetrics and Gynecology*. Requirements: Bachelor's degree or equivalent and ARDMS registered in obstetrics and gynecology with five years clinical experience; ability to work effectively with people in a fast-paced patient environment.

Med Lab Tech I

940328-R. *Pediatrics*. Schedule: 3-11:30 p.m. Mondays-Fridays with rotating weekends and holidays. Requirements: Two years of job-related college course work and certification or pending certification by ASCP, NCA, HEW or other accepted registry, including military medical laboratory training as a medical lab tech.

Administrative Coordinator

940334-R. *Pediatrics*. Requirements: High school graduate or equivalent with at least seven years experience, including four years in a medical setting and advanced secretarial training; good oral and written communication skills; computer experience; typing 70 wpm.

Medical Research Technician

940337-R. *Pediatrics*. Requirements: High school graduate or equivalent with at least three years experience or the equivalent combination of academic background and experience, bachelor's degree in chemistry, biochemistry or biology preferred.

Impact of black scientists reviewed — from page 1

status of blacks entering the science profession and review the impact black scientists have made in the United States. If there has not been an impact, we will explore why not."

The conference will be organized into two panel discussions. Each discussion will last for approximately two and a half hours and will be preceded by a keynote speech of about a half hour. During the discussions, each panelist will present a 20-minute paper, which the American Culture Studies Institute and AFAS will publish at a later date.

Following Malcom's Nov. 11 talk in the Women's Building formal lounge, a panel discussion titled "American Science and the Concept and Ideology of Race" will be held at 1:45 p.m. in the same location. The panelists will present papers focusing on race, genetics and intelligence. In addition to Mary-Claire King and Richard Lewontin, the panelists are Marcus W. Feldman, Burnet C. and Mildred Finley Wohlford Professor of Biological Sciences at Stanford University, and Diane B. Paul, professor of political science and director of the Program in Science, Technology and Values at the University of Massachusetts at Boston.

At 6:30 p.m. on Nov. 11, Luther Williams, assistant director of the National Science Foundation, will speak during a dinner in the Missouri Botanical Garden's Spink Pavilion. The cost for the dinner is \$30. Reservations are requested before Nov. 4.

The second panel discussion, titled "The History of Blacks in the Growth and Development of Scientific Thinking," will be held at 9 a.m. on Nov. 12 in the Women's Building formal lounge. The panelists will deliver papers ranging from the role of black colleges in producing black scientists, to the effect of racism on blacks entering scientific fields. Besides Kenneth R. Manning and Willie Pearson Jr., the panelists will be Bernice T. Anderson, a research scientist in the Division of Education Policy Research and Services at Educational Testing Service in Princeton, N.J., and Cheryl Leggon of Wake Forest University.

For more information, call 935-5690.

Enrollment — from page 1

students total 5,119. Evening school undergraduates total 1,108, and evening graduate students are 399, for a total of 1,507.

Total fall 1993 enrollment for day school undergraduate, graduate and professional students is: Architecture, 300; Arts and Sciences, 4,304; Business, 1,303; Engineering, 1,840; Fine Arts, 320; Law, 669; Medicine, 987; and Social Work, 441. Enrollment for students in both undergraduate and graduate programs in evening schools is: University College, 1,203; Engineering, 232; Architecture Technology, 43; and Fine Arts Institute, 29.