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## Washington University Record, April 11, 1996

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MS SAMUELA  
BOX NO. 8132  
KOFEMAN



Robert Dymek, Ph.D., distributes handouts to students at Maplewood-Richmond Heights High School. Dymek was one of 11 Washington University faculty members and graduate students who volunteered as substitute teachers so local secondary science teachers could attend a convention last month in St. Louis.

## ‘Pinch hitters’

### Professors, graduate students substitute teach in local schools

Robert Dymek, Ph.D., is talking about John Wayne, Alfred Hitchcock and the rock group U2. Actually, he’s talking about geological formations, like the Southwest’s Joshua tree, depicted on one of U2’s album covers; the sandy beach of California’s Bodega Bay, where Hitchcock’s “The Birds” was filmed; and Utah’s Six-Shooter Peaks, site of many westerns starring “The Duke.”

Making geology come alive is routine work for Dymek, professor of earth and planetary sciences in Arts and Sciences. Recently, however, Dymek had an additional challenge: communicate his field to St. Louis-area secondary students.

Dymek was one of 11 from Washington University who volunteered to “pinch hit” for area secondary school teachers who were attending the annual convention of the National Science Teachers Association, held March 28-31 in St. Louis. Project BEST (Business-Engineers-Scientists-Teachers) enabled a greater number of local teachers to attend the convention by recruiting about 60 science professionals from businesses and universities to serve as substitute teachers.

Dymek didn’t take the assignment lightly. Armed with carousels of slides, maps, handouts and a box of rock and mineral samples, he put two full days into preparation. “I didn’t volunteer to get a day off from work,” he said. “I thought it was important for high school teachers to go to the convention. It was also an opportunity to turn on a student to geology.”

Dymek taught three classes at Maplewood-Richmond Heights High School. In a morning chemistry class, where his focus was everyday uses of chemical reactions to the Earth’s crust, questions focused on such topics as earthquakes on the New Madrid fault and the atomic bomb. “It went far afield from what I’d intended,” said Dymek, “but that was OK.”

At LaSalle Springs Middle School in the Rockwood school district, Kathleen Mann Koepke, Ph.D., research assistant professor of neurology and executive director of the Alzheimer’s Disease Research Center at the School of Medicine, engaged sixth-graders in a host of hands-on experiments to illustrate the field of neuroscience. She also took along a hu-

man brain — immersed in water in a Tupperware bowl — for the students to look at and touch. “Did you take it from a live person?” one boy asked.

“The brain was the highlight,” Mann Koepke said. “The kids got excited and for a few minutes forgot that it was science.”

Why did Mann Koepke volunteer for the project? “Grade schools usually include little biology,” she said. “It’s an opportunity for me as a female scientist to take science out to the kids and to girls in particular. Plus, I believe that whether or not any of these kids go into science, we need a public which is science literate.”

The teachers also provided career-awareness for students. While some teachers participated in career question-and-answer sessions, others approached the subject more subtly. After seeing Dymek’s slides of spectacular sites from Niagara Falls to the Grand Canyon, one girl asked, “Does this mean you’ve been to all these places?” Dymek smiled. “Yes,” he said. “That’s one of the great things about being a geologist.” The girl’s eyes widened. “Cool,” she said softly.

*Continued on page 5*

## Faculty members designated Lilly Teaching Fellows

Six assistant professors in Arts and Sciences have been named 1995-96 Lilly Teaching Fellows through a program that enables faculty members to enhance their teaching skills and undergraduate course development.

Washington University is in its third year of a grant from the Lilly Endowment Teaching Fellows Program of Indianapolis. The Teaching Center administers the program, which continues through the 1996-97 academic year.

The 1995-96 Lilly Teaching Fellows are: Pauline Kleingeld, Ph.D., Department of Philosophy; Steven J. Meyer, Ph.D., Department of English; Eloisa Palafox, Ph.D., Department of Romance Languages and Literatures; Roger Petersen, Ph.D., Department of Political Science; Brigitte Rossbacher, Ph.D., Department of Germanic Languages and Literatures; and Michael E. Wyssession, Ph.D., Department of Earth and Planetary Sciences.

Department chairs in Arts and Sciences make nominations for Lilly Teaching Fellows from among the assistant professors in their second, third or fourth years. Nominees are asked to describe their present and expected teaching responsibilities; outline the teaching projects they would undertake as fellows; chronicle the benefits they would gain; and describe their long-range teaching goals.

Robert H. McDowell, Ph.D., director of The Teaching Center and professor of mathematics in Arts and Sciences, and the center’s advisory committee select the fellows, who then are released from teaching a course during an appropriate semester to pursue the projects. As part of the program, the professors attend a conference each semester in which fellows nationwide meet and exchange ideas about their research. The most recent conference was held last month near Atlanta.

Kleingeld is redesigning an existing course titled “Introduction to Philosophy,” which she will teach next fall. Several hundred students take the course each year, with 45 students in a section. Besides Kleingeld, other faculty also teach the course. Like most introductory courses, “Introduction to Philosophy” often is the first contact students have with the field, said Kleingeld. She plans to regularly divide the 45 students into interactive small groups. “It’s very important to have small groups in an introductory course,” she said. “Students master philosophical terms, and they practice arguing. Defending your opinion and having a good argument for it is very

*Continued on page 7*

## Architecture, business, social work students tackle urban renewal

The project is an innovative one: Select a struggling St. Louis business area. Brainstorm redevelopment ideas with shop owners, community associations and concerned residents. Create architectural designs, a neighborhood strategy and a business plan. Begin implementing the ideas.

The Washington University chapter of the American Institute of Architects (AIA) takes on a community volunteer project each year. What makes this year’s project different is that students from the School of Architecture merged their energies with students from other disciplines.

The result is that more than 40 students from architecture, the John M. Olin School of Business and the George Warren Brown School of Social Work are creating a vision for Cherokee Street, a south St. Louis business area.

“When we first started meeting with people in the community,” said Scott Foster, a graduate student in architecture and business and one of the project leaders, “we realized it was much more than an architectural project. So we decided to integrate three disciplines. Being able to see things from more than one angle really helped problem-solving.”

When planning began in January, the community was apprehensive of the student undertaking. But after meeting the students, said Foster, apprehension gave way to enthusiasm and involvement. After conducting two all-day Saturday brainstorming workshops, the students began the implementation phase March 30. During a six-hour period, more than 30 students cleaned seven blocks of street litter and spruced up storefronts by scraping off old signage, cleaning windows, scrubbing tile and painting. St. Louis city aldermen and University faculty worked

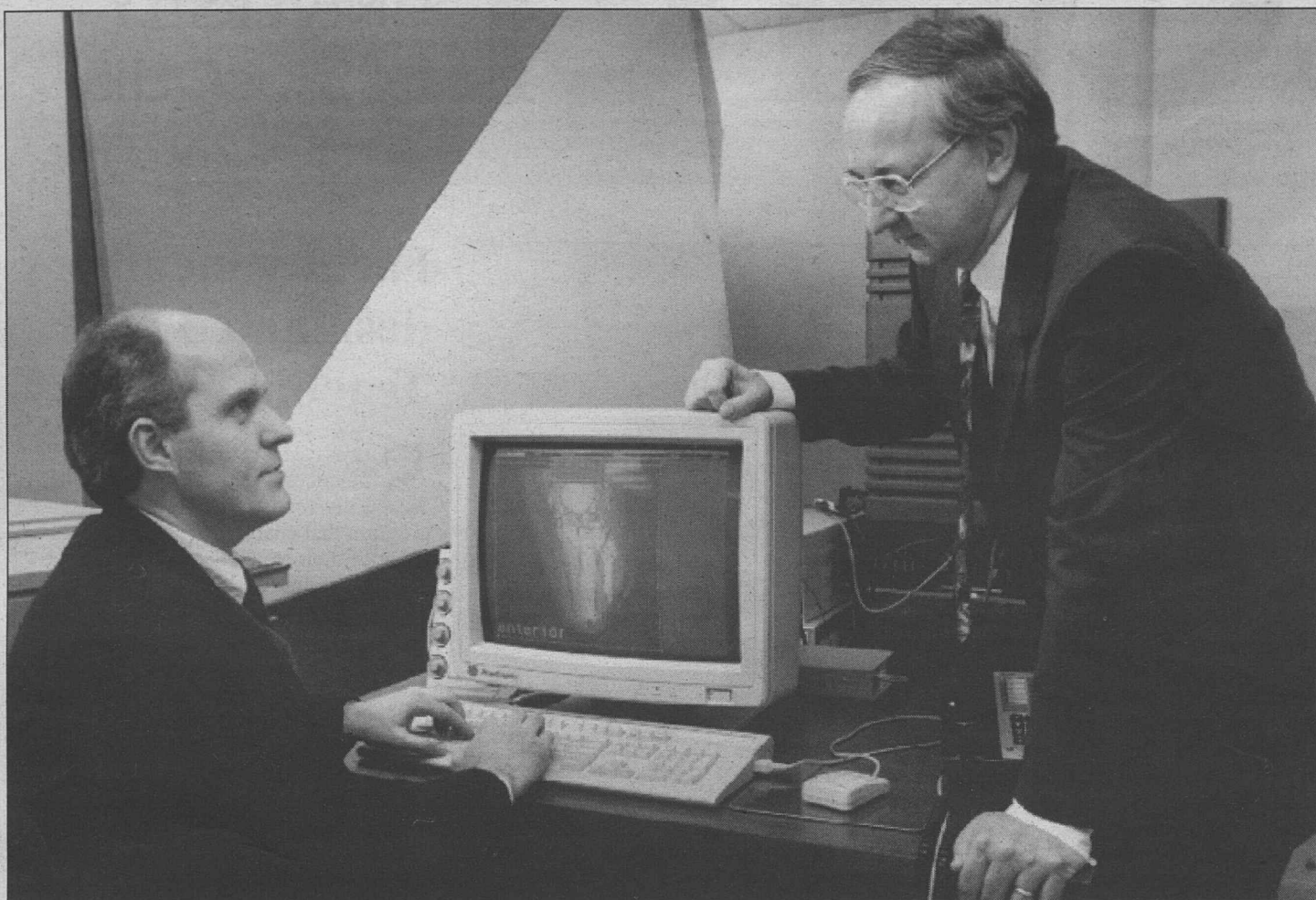
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# Medical Update



Paul K. Commean, left, senior research engineer, and Michael W. Vannier, M.D., discuss a 3-D image of an amputee's remnant limb. With computer graphics, prosthetists will be able to see the bone underneath the skin to better evaluate an artificial limb's fit. Prosthetists currently take a plaster cast of the remnant limb to get the best fit.

## A better fit

### New 3-D medical imaging system to improve design of artificial limbs

Engineer and radiologist Michael W. Vannier, M.D., professor of radiology, has been a pioneer in 3-D medical imaging, developing technologies that have revolutionized head and face surgery. He now has turned his attention to artificial legs, which attach to flesh with a plastic socket.

Vannier, who also is an assistant professor of surgery, has received a four-year \$1.2 million grant from the National Institutes of Health (NIH) to develop a 3-D imaging system that should greatly improve the fit of artificial limbs. The grant comes from the NIH's National Center for Medical Rehabilitation Research, a component of the National Institute of Child Health and Human Development.

"Our aim is to improve the design and fitting of prostheses by developing imaging procedures that will allow prosthetists

to objectively evaluate the quality of fit," Vannier said.

To be comfortable and easy to use, the socket must hug the contour of the remnant limb. But limbs vary greatly in shape from patient to patient because surgeons have different ways of shortening bones during amputation. If a socket does not fit well, it can cause pain and hamper walking.

Prosthetists currently take a plaster cast of the remnant limb, use the cast to make a socket, and manually sculpt the socket to obtain the best fit. Considerable guesswork is involved because the socket deforms the flesh when in place.

Vannier thought it would be better to look directly at interactions between the socket and flesh. "With computer graphics, you can subtract the image of the socket to reveal the flesh as it exists when the socket is on," he explained.

Vannier uses an optical scanner to make 3-D images of the remnant limb's surface and CT (computed tomography) scans to assemble images of the underlying bone, muscle and fat.

Mathematical modeling of the changes that take place in the flesh is done in collaboration with Barna A. Szabo, Ph.D., the Albert P. and Blanche Y. Greensfelder Professor of Mechanics in the School of Engineering and Applied Science.

Vannier is testing the validity of his 3-D graphical displays with adult amputees. Then he will compare images of patients with poorly fitting prostheses with images of patients whose prostheses fit well. "We will use these data to identify the biomechanical characteristics of successful prostheses," Vannier said. "That should allow us to develop reliable methods to improve the design and evaluation of artificial limbs." — Linda Sage

## Morris to investigate vascular dementia that can follow stroke

John C. Morris, M.D., associate professor of neurology and assistant professor of pathology, has received a five-year \$1.5 million grant to study the dementia that can follow stroke. The grant comes from the National Institute of Neurological Disorders and Stroke at the National Institutes of Health.

Stroke is a major contributor to dementia, second only to Alzheimer's disease. "But few studies have studied it separately from Alzheimer's disease, so there is a great deal of confusion," said Morris, co-director of Washington University's Alzheimer's Disease Research Center.

Stroke occurs when a blood vessel becomes blocked or bursts, preventing oxygen and nutrients from reaching a region of brain tissue. Death of such tissue can hamper cognitive function, leading to dementia.



John C. Morris

The researchers will determine whether the clinical symptoms of vascular dementia are the same as those that typify Alzheimer's disease. They also will identify the areas of the brain in which damage can lead to dementia and study whether dementia arises suddenly after stroke or develops gradually before or after.

The study will involve 270 men and women at risk for stroke because of high blood pressure or constricted carotid arteries. The subjects will come from studies already under way at the School of Medicine.

Once a year, participants will receive cognitive tests to assess how well different regions of their brains are functioning. Magnetic resonance imaging will detect any structural damage, and positron emission tomography will reveal whether the usual parts of the brain become active during certain tasks. — Linda Sage

## Correction

In the April 4 Record, the local phone number for the benign prostatic hyperplasia (BPH) study should have been 576-4697.

## Advisory group established for Forest Park Southeast neighborhood

The revitalization of the Forest Park Southeast neighborhood has taken a step forward with the creation of a 30-member Community Advisory Group, which represents all of the neighborhood's stakeholders and geographic areas.

Forest Park Southeast received a big boost when the U.S. Department of Housing and Urban Development (HUD) awarded Washington University, in partnership with the neighborhood and the city of St. Louis, a five-year \$2.4 million grant for long-term community revitalization. With an additional \$3.2 million from the city and \$1.6 million from Washington University Medical Center, the grant created a pool of almost \$8 million. The HUD funding began Feb. 1, with at least the first six months as a planning period.

The partners will use the funds to implement a revitalization plan that evolved out of existing programs. The main goal is to stabilize the neighborhood and improve safety by increasing homeownership and the quality of rental properties. Forest Park Southeast consists of 45 blocks south and east of the medical center.

The advisory group will fine-tune the plan to fit neighborhood requirements within the framework of federal regula-

tions. "It will serve as a vehicle for residents to have very meaningful input into what happens with the grant money," said committee member and block unit officer Phil Heagney. "It also will establish a way to provide clear and accurate information about what the grant offers and to allow legitimate differences of opinion to be put on the table and discussed openly."

Revitalization plans include buying and rehabilitating dilapidated buildings;

demolishing unsafe buildings; converting two- and four-family flats into marketable rental units and affordable townhouses; establishing a management-assistance program to help landlords improve the quality of their rental units; expanding police coverage; and starting a repair program for existing homeowners. Because HUD funds were less than those requested in the grant proposal, alternative ways to boost the repair funds are being explored.

## Lipid Research Center's laboratory expands

The Core Laboratory for Clinical Trials of the Lipid Research Center is offering expanded services to the School of Medicine's research community. The Core Laboratory is standardized by the Centers for Disease Control. It provides a full range of clinical testing and specializes in clinical trials.

The laboratory supports clinical research studies of all sizes and complexity. The expansion, said Thomas G. Cole, Ph.D., laboratory director and research associate professor in medicine, allows the laboratory to offer a comprehensive package, including

specimen acquisition, routine and esoteric analysis, data handling and result reporting. The lab also writes operations manuals and provides data management that meets Food and Drug Administration guidelines.

The laboratory's goal is to serve as a resource for Washington University investigators by offering services that are not available elsewhere at the medical school. "By using our services, investigators can concentrate on the design of a trial without having to worry about logistic details," said Cole.

For more information, call 362-3522.

# Record

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Record (USPS 600-430; ISSN 1043-0520), Volume 20, Number 27/April 11, 1996. Published 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 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

## Teitelbaum seeks to inhibit osteoporosis

Even Harold Varmus, M.D., a Nobel Prize winner and director of the National Institutes of Health, stands to benefit from the expertise of Steven L. Teitelbaum, M.D., a leading bone researcher and pathologist.

The two met three years ago when Varmus was invited to deliver a guest lecture at The Jewish Hospital of St. Louis. Varmus won the Nobel Prize in medicine or physiology in 1989 for his joint discovery demonstrating that mutations and other alterations in genes that control cell growth could lead to cancer. One of the growth-control genes Varmus studies, c-src, also helps regulate the growth of cells that break down bone — called osteoclasts — which Teitelbaum studies.

By investigating osteoclasts, researchers can better understand how c-src normally functions and how mutations in the gene lead to cancer. "The osteoclast is a great model for studying c-src," Teitelbaum explained, "so I taught Dr. Varmus to grow osteoclasts. We've been friends ever since."

Teitelbaum, the Wilma and Roswell Messing Professor of pathology, thrives in his School of Medicine laboratory. It's here that he works to piece together the molecular steps that lead to osteoporosis, what he calls the "queen of all bone diseases."

"I get a high off the research and being able to train good people," Teitelbaum explained. "It really is quite exciting."

Teitelbaum's foray into academic research, and his love for it, is a far cry from his original career intentions. When he left Brooklyn, N.Y., in 1960 to attend medical school at Washington University, he planned to return to Brooklyn to open his own practice. Teitelbaum changed his mind, however, during medical school when he studied the pathology of diabetes in the lab of Paul Lacy, M.D., Ph.D., one of the best-known diabetes researchers and now professor emeritus of pathology. The exposure to pathology interested Teitelbaum, and he thought about pursuing it as a career.

After graduating from the School of Medicine in 1964, Teitelbaum trained as a pathology resident at New York University and here. It was here that Teitelbaum fell under the influence of Louis Avioli, M.D., a well-known bone researcher who now is the Sydney M. and Stella H. Shoenberg Professor of medicine and director of the Division of Bone and Mineral Diseases. At the time, there were few pathologists studying metabolic bone diseases, such as osteoporosis.

Avioli was setting up one of the first bone-diagnostic units in the country to evaluate and diagnose bone disorders. Because Teitelbaum had trained in pathology and had an interest in bone diseases, a close relationship developed between the two.

### Mastering a new biopsy technique

After Teitelbaum joined the School of Medicine faculty in 1968, he went to France to learn a new biopsy technique that involved inserting a long needle into the hip bone to withdraw a bone fragment about the size of the eraser at the end of a pencil. "I brought back the technique to Washington University, and since there were so few people in the United States performing it, it became a real monopoly for me," Teitelbaum explained.

During the next few years, Teitelbaum learned a great deal about bone diseases but became frustrated that the new developments in science had not yet made it possible to answer fundamental questions about the pathology of bone diseases. So he retreated into the laboratory to find some answers. It was there that he specialized in studying osteoclasts, cells that break down or resorb bone. They work in conjunction with bone-forming cells called osteoblasts.

Normally, except in growing bones, the rates of bone formation and resorption are equal so that the total mass of bone remains constant. Osteoporosis, which primarily affects post-menopausal women, is believed to result when osteoclasts outperform osteoblasts, leading to progressive bone loss. The result is a net loss in bone mass and strength, which leaves bones brittle and ultimately can lead to painful fractures.

Osteoporosis affects about 25 million Americans and contributes to 1.3 million bone fractures annually.

Teitelbaum wanted to find out how osteoclasts resorb bone. Doing so would enable scientists to design treatments to prevent osteoporosis and other bone disorders mediated by osteoclasts. But, initially, the experimental tools used to study osteoclasts were very primitive, Teitelbaum recalled. So he devised a system that allowed researchers to isolate osteoclasts and grow them in the lab. "Once we accomplished that, it all fell into place," Teitelbaum said. "We were able to take the cell apart and identify the molecular mechanisms by which it resorbs bone."

and his co-workers traced the problem to osteoclasts, which resorb the bone around the artificial implant. They have developed a mouse model that mimics the human situation after hip-replacement surgery and found that tumor necrosis factor, a protein known to induce the death of tumor cells, plays a key role in activating osteoclasts.

Building on his lab's earlier research showing that specific biomolecules can block osteoclast activity in a test tube, Teitelbaum is giving the mice injections of these biomolecules. He's hoping the injections will block tumor necrosis factor and thereby inhibit osteoclast formation and prevent implant loosening.

Teitelbaum is collaborating on the project with Kurt Merkel, M.D., assistant professor of orthopaedic surgery.

In another study with M. Mehrdad Tondravi, Ph.D., a research associate in his lab, Teitelbaum is investigating why some breast cancer cells, and not others, metastasize to bone. Virtually all women who die of breast cancer have bone metastasis. As the disease affects cells deep in the body's skeletal structure, it causes excruciating pain and leaves weakened bones susceptible to fracture. Patients with bone cancer metastasis also face a shortened life span.

The team has identified a molecular marker on the surface of breast cancer cells that makes them less likely to metastasize. The marker is absent on the surface of

metastatic cancer cells. The research team now is injecting DNA from the molecular marker into the metastatic breast cancer cells to see if it prevents their spread to bone.

But the bulk of Teitelbaum's lab time is spent dissecting the molecular mechanisms that lead immature osteoclasts to develop and break down bone. He and his co-workers have identified the ion transport and enzymatic mechanisms important in bone resorption. They recently shifted their focus to a key molecule that allows osteoclasts to attach to bone. Without the critical attachment molecule, which Teitelbaum identified with the help of Ross, osteoclasts can't break down bone. The researchers also cloned the gene that produces the molecule.

### Treatments may be on the way

They then proposed to a group at Monsanto Co. that it would be possible to block the development of osteoporosis with a compound that interferes with the attachment protein. Working with Monsanto scientists, they demonstrated that the compound blocks bone resorption in vitro and in vivo. Monsanto now is making a derivative to test in clinical trials.

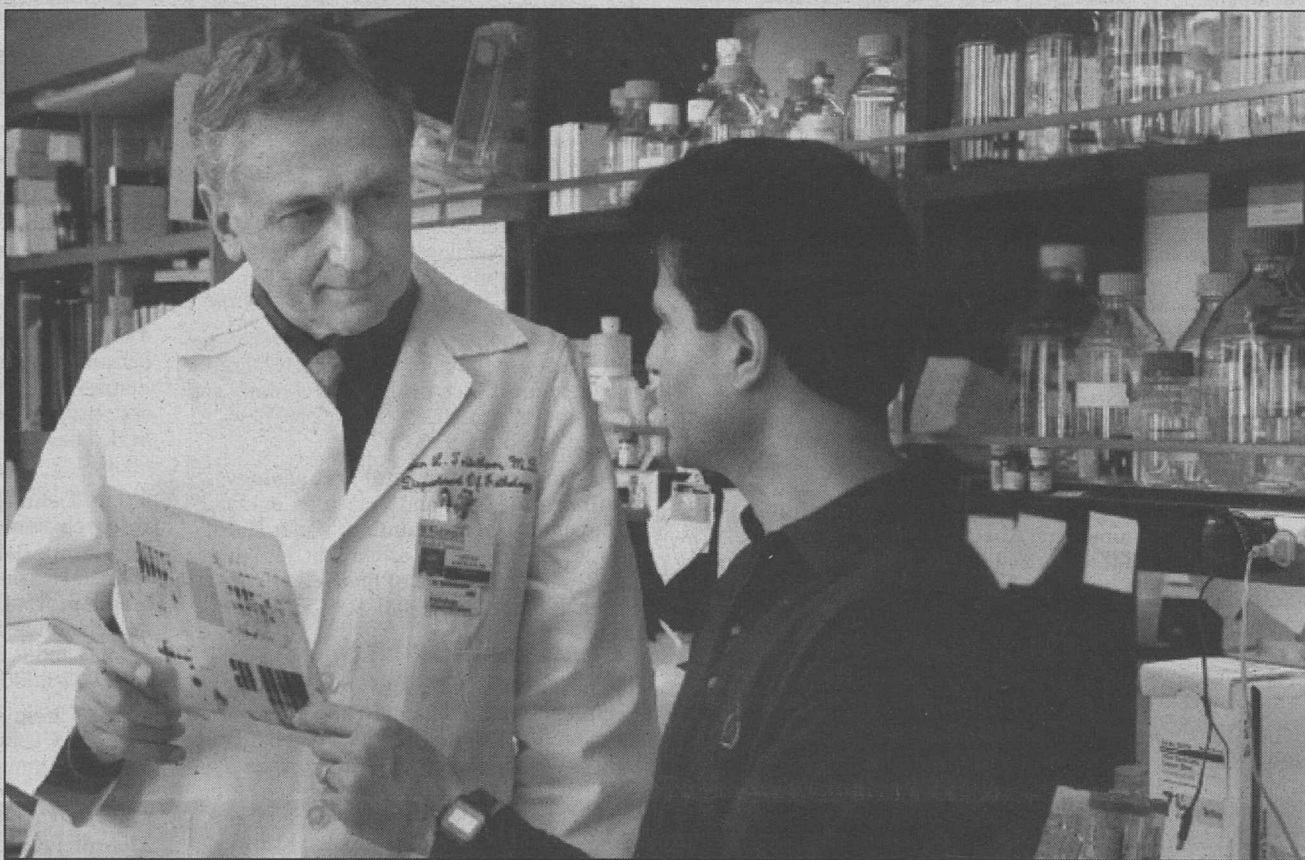
The research eventually may lead to new treatments for osteoporosis and other bone diseases, said Gregory R. Mundy, M.D., professor and head of the Division of Endocrinology at the University of Texas Health Science Center in San Antonio and a colleague of Teitelbaum's. "He has made major contributions to the field of bone and mineral research, and many of us have benefited from his work," Mundy said.

"It's been very exciting to go from bench research to an animal model," Teitelbaum said. "In this lab, we try to focus on in vivo experiments. The in vitro experiments are also important, but ultimately we want to see what happens in a living human being; we want to know what the real-life applications are."

Outside of his life at the University, Teitelbaum loves to travel, and when possible, he is joined by his lawyer wife, Marilyn. When their three children were younger, the entire family often would join him before or after scientific meetings in Europe, Africa and other far-flung destinations. Teitelbaum said he's thankful for the opportunities he's had at the University.

"I really believe my career would not have been what it is if it weren't for Washington University," Teitelbaum said. "This University gave me a real sense of excellence and the latitude to explore what I wanted. There are very few places, if any, where I could have grown like I have."

— Caroline Decker



Steven L. Teitelbaum, M.D., left, and M. Mehrdad Tondravi, Ph.D., examine a set of DNA binding proteins.

**"I really believe my career would not have been what it is if it weren't for Washington University."**

Today, Teitelbaum is known nationally and internationally for his research, according to his colleagues. "There's no question about it; he's one of the best osteoclast researchers around," Avioli said. "He's quite intelligent and one of the brightest men in the field."

Teitelbaum also recognizes the need for continued federal support of bone research. He plays an active role in the American Society for Bone and Mineral Research. He served as its president from 1992-93 and now chairs the society's public policy committee. In both posts, he has lobbied politicians to increase funding for bone research.

"It's a lot of work, but it is very satisfying," Teitelbaum said. "When we walk into their offices, we're only asking for something that is for the good of the country. Despite the cynicism of politics today, medical research really is a bipartisan issue. We've received the help of liberal Democrats and conservative Republicans."

### 'He is demanding but fair'

But it is working in the laboratory, where he now spends most of his time, that Teitelbaum especially enjoys. "He is demanding but fair," said Paddy Ross, Ph.D., a research assistant professor of pathology in Teitelbaum's lab and a close collaborator and colleague. "He sets high standards for everyone — including himself — and expects his co-workers to live up to them. But he's also very supportive and is quick to give credit to others for work that is well-done."

Ongoing projects in the lab range from artificial hip implant studies and breast cancer metastasis research to molecular studies of osteoclasts and their role in degrading bone.

About 10 percent of patients who undergo hip-replacement surgery eventually will develop a loosening of the hip joint after 10 years. Currently, the only way to correct the problem is another operation. Teitelbaum



# Calendar

April 11-20



## Exhibitions

**"Currents 66."** Paintings and collages by Michael Byron, visiting artist in the School of Art. Through May 19. Gallery 337, Saint Louis Art Museum. 721-0072.

**"M.F.A. Thesis Exhibition."** Opening reception: 5-7 p.m. April 19. Gallery of Art, Steinberg Hall. Exhibit runs through May 5. Works are available for purchase. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. (See story, page 6.) 935-4761.

**"The Stanley Elkin Show."** Through May 31. Special Collections, Olin Library, Level Five. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5495.



## Films

All Filmboard movies cost \$3 and are shown in Room 100 Brown Hall. For 24-hour hotline information, call 935-5983.

### Thursday, April 11

**7:30 p.m. French Film Series.** "Le Million" (1931), with English subtitles. Room 162 McDonnell Hall. 726-1565.

### Friday, April 12

**4 p.m. Contemporary American Documentary Film Series.** "Hoop Dreams" (1994). Room 149 McMillan Hall. 935-5216.

**7 and 9:30 p.m. Filmboard.** "A Clockwork Orange" (1971). (Also April 13, same times, and April 14 at 7 p.m.)

**Midnight. Filmboard.** "Theatre of Blood" (1973). (Also April 13, same time, and April 14 at 9:30 p.m.)

### Monday, April 15

**3 p.m. Russian film.** "Shadows of Forgotten Ancestors." Room 219 South Ridgley Hall. 935-5177.

**7 and 9 p.m. Filmboard.** "The Fourth Man" (1979). (Also April 16, same times.)

### Tuesday, April 16

**7 p.m. Chinese Film Series.** "Old Well" (1987), with English subtitles. Room 219 South Ridgley Hall. 935-5156.

### Thursday, April 18

**7:30 p.m. French Film Series.** "Madame De" (1953), with English subtitles. Room 162 McDonnell Hall. 726-1565.

### Friday, April 19

**7 and 9:30 p.m. Filmboard.** "Smoke" (1995, B&W), starring William Hurt and Harvey Keitel. (Also April 20, same times.)

**Midnight. Filmboard.** "The Pink Panther" (1964). (Also April 20, same time.)



## Lectures

### Thursday, April 11

**4 p.m. Earth and planetary sciences colloquium.** "What Factors Control the Shape of the Moon?" Maria Zuber, prof. of geophysics, Dept. of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology. Room 362 McDonnell Hall. 935-5610.

**4 p.m. Chemistry seminar.** "Hydrolysis and Transesterification of RNA by Metal Complexes: Design and Testing of Ribozyme Mimics; New Assays From RNA Cleavage Reactions," James Bashkin, asst. prof. of chemistry. Room 311 McMillen Lab. 935-6530.

**4 p.m. Molecular oncology seminar.** "Biochemical Genetic Analysis of Rapamycin-sensitive Signal Transduction Pathways Leading to T-cell Activation," Xiao-Feng S. Zheng, prof. of chemistry, Harvard U. Third Floor Aud., St. Louis Children's Hospital. 362-3365.

**4:15 p.m. Philosophy-neuroscience-psychology lecture.** "Carving the Brain at Its Joints? Implications of Brain Mapping Research for Philosophy," Jennifer Mundale, doctoral candidate. Room 110 January Hall. 935-6670.

**4:30 p.m. Math colloquium.** "Conformal and Laguerre Geometry of Canal Surfaces and Explicit Integration of Willmore Envelopes in Euclidean Space," Emilio Musso, U. of L'Aquila, Italy. Room 199 Cupples I Hall. 935-6726.

**8 p.m. Urology seminar.** "Update on Continent Diversion," Carl A. Olsson, prof. and chair, Dept. of Urology, College of Physicians and Surgeons of Columbia U., New York. 16th Floor, 7701 Forsyth Blvd. 362-3365.

### Friday, April 12

**9:15 a.m. Pediatric Grand Rounds.** The ninth Ben Abelson Memorial Lecture. "HIV Infection and AIDS in Children," Philip A. Pizzo, chief, Pediatric Branch, and head, Infectious Diseases Section, National Cancer Institute, and prof. of pediatrics, Uniformed Services U. of the Health Sciences, Bethesda, Md. Clopton Aud., 4950 Children's Place. 454-6128.

**11 a.m. American Indian Awareness Week lecture.** "Advancements in American Indian Education," Eddie Brown, executive director, Dept. of Human Services, Tohono O'odham Nation. Room 307 Brown Hall. 935-4510.

**Noon. Cell biology and physiology seminar.** "Degradation of the Mutant Secretory Protein Alpha 1 Antitrypsin Z in the ER: Role of Calnexin, Ubiquitin and the Proteasome," David Perlmutter, prof. of cell biology and physiology and of pediatrics. Room 426 McDonnell Medical Sciences Bldg. 454-6066.

**Noon. Environmental engineering seminar.** "Development of a Granular Bed Biofilter for the Treatment of Gas-phase Pollutants," Makram Suidan, the Association of Environmental Engineering Professors' Distinguished Lecturer, and prof. of environmental engineering, U. of Cincinnati. Room 100 Cupples II Hall. 935-5548.

**Noon. Immunology thesis defense.** "Structure, Function and Regulated Expression of the IFN $\gamma$  Receptor  $\beta$  Chain," Erika A. Bach, graduate student in immunology. Room 7738 Clinical Sciences Research Bldg. 362-3365.

**Noon. Occupational Therapy Grand Rounds.** "Attention and Driving Performance in Alzheimer's Disease," Jan Duchek, asst. prof. of occupational therapy. Moore Aud., 660 S. Euclid Ave. 286-1614.

**1 p.m. Solid-state engineering/applied physics seminar.** "An Illustrated Path From an Idea to the Fabrication of an Optical Waveguide Subsystem," T.S. Barry, graduate student in electrical engineering. Room 305 Bryan Hall. 935-5565.

**4 p.m. Anatomy and neurobiology seminar.** "Genetic Loci Controlling Anesthetic Sensitivity in *C. elegans*," C. Michael Crowder, asst. prof. of anesthesiology and of molecular biology and pharmacology. Room 928 McDonnell Medical Sciences Bldg. 362-6976.

**4 p.m. Hematology seminar.** "Gene Therapy for Hemophilia," Katherine A. High, Children's Hospital of Philadelphia. Room 8841 Clinical Sciences Research Bldg. 362-3365.

**4 p.m. Urological surgery seminar.** "RTPCR for PSA Staging and Prognosis of Localized Prostate Cancer," Carl A. Olsson, prof. and chair, Dept. of Urology, College of Physicians and Surgeons of Columbia U., New York. Second Floor, Room B, Eric P. Newman Education Center. 362-3365.

**7 p.m. American Indian Awareness Week lecture.** "I Always Wanted To Be an Indian," Basil Johnston, Canadian Ojibway author and educator. Brown Hall Lounge. 935-4510.

### Saturday, April 13

**9 a.m. Urology seminar.** "Anti-death Genes in Prostate Cancer," Carl A. Olsson, prof. and chair, Dept. of Urology, College of Physicians and Surgeons of Columbia U., New York. Second Floor, Room B, Eric P. Newman Education Center. 362-3365.

**9 a.m. Saturday morning neurosciences seminar.** "Disorders of Basal Ganglia and Their Treatment: Dystonia," Joel S. Perlmutter, assoc. prof. of neurology and neurological surgery and of radiology. Cori Aud., 4565 McKinley Ave. 362-3365.

### Monday, April 15

**4 p.m. Biology seminar.** "Cis Elements and Trans-acting Factors Involved in Chloroplast Gene Expression in Chlamydomonas," Jean-David Rochaix, prof. of molecular biology and plant biology, U. of Geneva, Switzerland. Room 322 Rebstock Hall. 935-6850.

**4 p.m. Cardiovascular biology seminar.** "Retinoid Signaling Pathways and Cardiac Diseases in Genetically Manipulated Mice: Genes and Physiology," Kenneth R. Chien, prof. of medicine, U. of California, San Diego. Room 3907 South Bldg. 362-8908.

**4 p.m. Psychology colloquium.** "Dementia and Response to Pain in the Elderly," Fran Porter, adjunct asst. prof. of psychology and asst. prof. of pediatrics. Room 216, new psychology bldg. 935-6565.

**4:30 p.m. Art history and archaeology seminar.** "Pleasure and Preaching in Dutch 17th-century Genre Painting," Peter Hecht, prof. of art history, U. of Utrecht, and director, Research Institute of the Netherlands. Room 200 Steinberg Hall. 935-5270.

### Tuesday, April 16

**9 a.m. Psychiatry lecture.** Alex H. Kaplan Lecture. "Psychodynamic Therapy in the Decade of the Brain," Glen O. Gabbard, the Bessie Walker Callaway Distinguished Professor of Psychoanalysis and Education, Karl Menninger School of Psychiatry and Mental Health Sciences, Topeka, Kan. Clopton Aud., 4950 Children's Place. 362-7772.

**Noon. Molecular microbiology/microbial pathogenesis seminar.** "Cellular Investigations of Prion Diseases," David Harris, asst. prof. of cell biology and physiology. Room 775 McDonnell Medical Sciences Bldg. 362-3692.

**12:10 p.m. Physical therapy seminar.** "The Incorporation of Disease-specific Health Status Measures in Patient Care," Jay Piccirillo, asst. prof. of otolaryngology and director, Clinical Outcome Research Office. Classroom C Forest Park Bldg., 4444 Forest Park Blvd. 286-1406.

**4 p.m. Anthropology colloquium.** "Excavating Ancient Aksum Ethiopia: Revealing the Center of a Forgotten Empire," Jacke Phillips, archaeologist, McDonald Institute for Archaeological Research, Cambridge, England. Room 149 McMillan Hall. 935-5252.

**8 p.m. Architecture lecture.** "Everyday and 'Other' Spaces," Mary McLeod, architectural historian and theorist, Columbia U., New York. Steinberg Hall Aud. 935-6200.

### Wednesday, April 17

**6:30 a.m. Anesthesiology Grand Rounds.** "Nicardipine in Anesthesia," Mary Ann Cheng, instructor in anesthesiology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

**8 a.m. Obstetrics and Gynecology Grand Rounds.** "The Intra-Uterine Device: Making a Comeback," Fiona Redwood, chief resident in obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 454-7886.

**11 a.m. Assembly Series.** The Women's Society Adele Starbird Lecture. "Molly Ivins Can't Say That, Can She?" Molly Ivins, columnist and author. Graham Chapel. (See story, page 6.) 935-5285.

**2 p.m. Math talk.** Topic to be announced. Dorota Jarosz, graduate student in mathematics. Room 199 Cupples I Hall. 935-6726.

**4 p.m. Biochemistry and molecular biophysics seminar.** "Recent Insights Into the Ligand Entry Mechanism for Intestinal Fatty Acid-binding Protein," David Cistola, asst. prof. of biochemistry and molecular biophysics. Cori Aud., 4565 McKinley Ave. 362-0261.

### Thursday, April 18

**9:30 a.m. Cardiovascular/vascular biology seminar.** "The Oxidation Theory of Athero-

sclerosis — Fact or Fiction?" Joseph L. Witztum, prof. of medicine and director, Specialized Center of Research on Arteriosclerosis, U. of California, San Diego. Clopton Aud., 4950 Children's Place. 362-8908.

**11:15 a.m. Social work seminar.** "Report on the Landmark National UNOCCAP Project: Use, Need, Outcome, Costs, Child and Adolescent Project," Arlene R. Stiffman, assoc. prof. of social work. Room 353 West Campus Administrative Center. 935-5687.

**1 p.m. Vision science seminar.** "A Primate Model of Retinitis Pigmentosa," David Grosz, research asst. prof. of ophthalmology and visual sciences. East Pavilion Aud., Barnes Hospital. 362-3726.

**1:15 p.m. Social work lecture.** "Housing Issues in Kansas City Inner-city Neighborhoods," Turner Pettway, director of operations, Kansas City (Mo.) Neighborhood Alliance. Brown Hall Lounge. 935-7433.

**2:30 p.m. Mechanical engineering seminar.** "R.M.S. Titanic: Simple Answers to Hard Questions," Theodosios Korakianitis, assoc. prof. of mechanical engineering. Room 100 Cupples II Hall. 935-6055.

**4 p.m. Biology seminar.** "Patterns in Distribution and Abundance of Birds: Current Status and Future Directions," John Blake, asst. prof. of biology, U. of Missouri-St. Louis. Room 322 Rebstock Hall. 935-6860.

**4 p.m. Central Institute for the Deaf research seminar.** "Non-linear Cochlear Spectrum Analysis and Peak Detection in Human Hearing," Julius L. Goldstein, research prof. of electrical engineering in speech and hearing. Second Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave. 977-0000.

**4 p.m. Chemistry seminar.** "Electron Transfer Cleavage of 4-member Rings: DNA Photorepair and Other Cases," Daniel E. Falvey, assoc. prof. of chemistry, U. of Maryland, College Park. Room 311 McMillen Lab. 935-6530.

**4 p.m. Earth and planetary sciences colloquium.** "PHILLS/ORASIS: NRL's Modular Hyperspectral Sensors and Unsupervised Subpixel Demixing System," John Antoniadis, head, Plasma Instrumentation and Testing, Plasma Physics Division, Naval Research Laboratories, Washington, D.C. Room 362 McDonnell Hall. 935-5610.

**4:15 p.m. Philosophy-neuroscience-psychology lecture.** Topic to be announced. Paul Churchland, prof. of philosophy, U. of California, San Diego. Room 110 January Hall. 965-6700.

**4:30 p.m. Math colloquium.** "Matricial Methods and Stopping Times in Harmonic Analysis," Nets Katz, prof. of mathematics, Yale U. Room 199 Cupples I Hall. 935-6736.

**6 p.m. Social work lecture.** "Intergenerational Issues: The Ties That Bind," Nancy Morrow-Howell, assoc. prof. of social work; Novella Perrin, director, Central Missouri State U. Gerontology Institute; Bonnie Miller, lawyer, Rothman, Sokol, Adler and Sarachanpc; Joli Harris, social worker, Cardinal Ritter Institute; Linda Drapp, registered nurse, St. Jane Center; and Amy Lit, OASIS. Brown Hall Lounge. 935-4909.

**6:15 p.m. German lecture.** "Das Geständnis Liebe und Risiko in Rede und Schrift," Walter Haug, prof. of German, U. of Tübingen, Germany. Hurst Lounge, Room 201 Duncker Hall. 935-5106.

### Friday, April 19

**9:15 a.m. Pediatric Grand Rounds.** "Gene Targeting to Define Natural Functions of Cytokines: New Actions of Lymphotoxin in Immune Responsiveness," David D. Chaplin, prof. of medicine, of genetics and of molecular microbiology, and chief, Division of Allergy/Immunology. Clopton Aud., 4950 Children's Place. 454-6128.

**Noon. Cell biology and physiology seminar.** "Regulation of Meiotic and Early Embryonic Cell Cycles," James L. Maller, prof. of pharmacology and investigator, Howard Hughes Medical Institute, U. of Colorado School of Medicine. Room 426 McDonnell Medical Sciences Bldg. 362-6812.

**3 p.m. Art history and archaeology seminar.** "From Winckelman to Wilde: Homosexuality and the 19th-century Debates on the Renaissance," James Saslow, assoc. prof., Queens College, City U. of New York. Room 200 Steinberg Hall. 935-5270.





## Music

### Thursday, April 11

**8 p.m. Student recital.** Program: music of Beethoven, Frédéric Chopin, Franz Schubert, Georges Bizet, Claude Debussy and Henri Duparc. Graham Chapel. 935-5581.

### Tuesday, April 16

**8 p.m. Student recital.** Program: music of Beethoven, Joaquín Rodrigo and Karl Friedrich Zelter. Graham Chapel. 935-5581.

### Saturday, April 20

**8 p.m. Opera.** Jeremy Gerard, graduate student in vocal performance, will perform "A Water Bird Talk," an opera in one act for male voice. Graham Chapel. 935-5581.



## Performances

### Thursday, April 11

**8 p.m. Student dance concert.** Sponsored by Thyrsus. (Also April 12, same time, and April 13 at 2 p.m.) Dance Studio, Room 207 Mallinckrodt Center. Cost: \$2. 725-9156.

### Friday, April 12

**8 p.m. The Performing Arts Dept. presents** "Romeo and Juliet," held in celebration of the play's 400th anniversary. (Also April 13, 19 and 20, same time, and April 14 and 21 at 2 p.m.) Edison Theatre. Cost: \$8 for the general public; \$6 for senior citizens, students, and WU faculty and staff. 935-6543.



## Miscellany

### Thursday, April 11

**Noon. Book signing.** Murray L. Weidenbaum, the Edward Mallinckrodt Distinguished University Professor and director, Center for the Study of American Business, will sign his book "The Bamboo Network." Campus Bookstore, Mallinckrodt Center. 935-5696.

**4-5:30 p.m. American Indian studies panel discussion.** "Current Issues in Indian Country Today." Room 307 Brown Hall. 935-4510.

### Friday, April 12

**1:30 p.m. American Indian Awareness Week book signing.** Basil Johnston, Canadian Ojibway author and educator. Campus Bookstore, Mallinckrodt Center. 935-4510.

**3 p.m. Law school panel discussion.** "Affirmative Action in Higher Education and the Recent 'Hopwood vs. State of Texas' Decision." Mudd Law Bldg. 863-4381.

## Nuclear weapons focus of Feenberg lecture

From zero nuclear weapons in 1945, the world's stockpile grew to more than 60,000 and now is decreasing. Can the residual nuclear weapons be maintained safely and reliably? This and other questions will be answered by Richard L. Garwin, a physicist who has worked with

**4-6 p.m. American Indian Awareness Week presentation.** American Indian alumni will discuss current affairs regarding the elderly, consulting to tribal entities and retention and recruitment of American Indian students. Room 218 Brown Hall. 935-4510.

**7-10 p.m. PRINTMARKET preview party.** Tickets are \$35 for those younger than 35 and \$50 for others. Call 361-3737 for reservations. The PRINTMARKET opens to the public from 10 a.m.-5 p.m. April 13 and from noon-5 p.m. April 14. Gallery of Art, Steinberg Hall. Admission to the market is \$5 for the general public and \$2 for students. 361-3737.

### Saturday, April 13

**9:30 a.m.-noon. Book arts workshop.** "Polaroid Emulsion Transfer," John Galbreath, photographer. Participants should bring 35 mm slides. Room 212 Bixby Hall. Cost: \$40. 935-4643.

**10 a.m.-5 p.m. Book Arts Market.** Items for sale range from \$2 to more than \$1,000. Registration fee to exhibit: \$15. Bixby Gallery, Bixby Hall. 935-4643.

**3-5 p.m. Women's Society festival for international children.** Features music, Easter egg hunt and refreshments. Open to international children in WU community. Stix International House. 935-4787.

**7 p.m. Catholic Student Center event.** "Trivia Night." Cost: \$5. 725-3358.

### Monday, April 15

**7-10 p.m. Continuing Medical Education conference.** "Internal Medicine Review." The topic is hematology. Steinberg Amphitheater, The Jewish Hospital of St. Louis. 362-6891.

**7:30 p.m. Catholic Student Center event.** "Dead Man Waiting," an evening of film and dialogue on the death penalty and Missouri's execution policies. Catholic Student Center, 6352 Forsyth Blvd. 725-3358.

### Wednesday, April 17

**4:30 p.m. Architecture panel discussion.** "History, Theory and the Design Curriculum." Room 116 Givens Hall. 935-6200.

**8 p.m. Poetry reading.** Features Kevin Prufer, Joy Katz and Anthony Priest, graduating students in the M.F.A. writing program. Hurst Lounge, Room 201 Duncker Hall. 935-5120.

**9 p.m. Hillel event.** "A Women's Gathering: Rosh Chodesh." Hillel Center, 6300 Forsyth Blvd. 726-6177.

### Thursday, April 18

**7:30 p.m. Faculty/graduate student feminist reading group book discussion.** "Enlightened Women: Modernist Feminism in a Postmodern Age," by Alison Assiter. Room 220 Busch Hall. 935-5102.

### Saturday, April 20

**9 a.m.-noon. Book arts workshop.** "Pop-up Adventures," Bob Smith, prof. emeritus, School of Art. (Continues April 27, same time.) Room 212 Bixby Hall. Cost: \$65. 935-4643.

**9:30 a.m.-noon. Book arts workshop.** "Preserving Family Stories," Cissy Lacks, photographer. Room 104 Bixby Hall. Cost: \$30. 935-4643.

**10 a.m.-noon. Art history/music symposium.** "Michelangelo's Poetry: Word, Music and Image." Saint Louis Art Museum Aud. 935-5270.

**11 a.m.-8 p.m. Thurtene Carnival 1996.** North Brookings Hall parking lot. 935-2829.

**1-4 p.m. Book arts workshop.** "Basic Bookbinding," Andrea Vadner, book artist. (Continues April 27, same time.) Room 104 Bixby Hall. Cost: \$65. 935-4643.

the nuclear weapons program since 1950, when he delivers the Eugene Feenberg Memorial Lecture at 4 p.m. Wednesday, April 10, in Room 201 Crow Hall.

The lecture is sponsored by the Department of Physics in Arts and Sciences. For more information, call 935-6279.

ing; Gilbert Nussbaum, Ph.D., associate professor of radiology; William Pickard, Ph.D., professor of electrical engineering; Jeffrey Saffitz, M.D., Ph.D., professor of pathology and associate professor of medicine; Mitchell Taibleson, Ph.D., professor of mathematics; and Robert Walker, Ph.D., McDonnell Professor of physics and director of the McDonnell Center for the Space Sciences in Arts and Sciences.

— Cheryl Jarvis

## Campus puts out welcome mats for multicultural celebration

"Come celebrate with us in April," the slogan Washington University's admissions office is touting to prospective students, presents a unique invitation to admitted multicultural students who will visit the University from Thursday, April 11, to Sunday, April 14, to participate in a host of events specially designed for them.

A component of April Welcome — the annual monthlong event that draws nearly a thousand prospective students — Multicultural Celebration Weekend will begin for many at St. Louis' Lambert Field, where about 60 University staff and alumni volunteers personally will greet students at their arrival gates. After checking in at Friedman Lounge in Wohl Student Center, visitors will take time to relax, snack and chat before attending a welcome reception and barbecue April 11 at J.K.L. Plaza.

"Students will take care of business at the reception but also will take time for fun," said Lisa Hammonds, associate director of admission and coordinator of multicultural recruitment.

The visitors will mingle with faculty, alumni and current students who represent a wide variety of campus organizations. Discussions regarding activities, courses and other events will materialize into weekend itineraries that prospective students will tailor to their interests.

On Friday, April 12, students will launch into their schedules with classroom visits throughout the morning. That afternoon, they'll attend cocurricular open houses to get a sense of the non-academic side of University life. Organizations such as campus radio station KWUR, the Campus Y, the music and performing arts departments in Arts and Sciences, and Student Life will put out their welcome signs.

Students also will explore a series of booths in the Women's Building that will highlight the workings of Student Affairs, Student Union, Disabled Student Services and Greek life on campus.

Athletics will come into play when students may opt to lift weights or run track as part of a Saturday, April 13, tour of the Athletic Complex. That evening, students will work out on the dance floor at a campuswide party, "Global Groovin'," that will feature food and music from around the world.

Members of campus-based multicultural organizations worked hard to ensure an exciting and successful experience for their potential classmates.

"To prepare for this weekend, we've been meeting once a week for the past three months," said Julie Cheh, a junior majoring in anthropology in Arts and Sciences. "Our goal is to make Washington University as diverse as possible. While the multicultural recruiting effort is relatively new, so far it has been very successful." Cheh is a former co-president of the Asian Students Association.

In addition to the Asian Students Association, participating multicultural organizations include the Asian Multicultural Council, the Association of Black Students, the Association of Korean Students, the Association of Latin American Students, the Indian Students Association (Ashoka) and the Chinese Students Association.

These organizations have taken visiting parents into consideration as well. Parents, too, will discover resources and camaraderie in activities designed for them. At a welcome reception and catered dinner, they will have the opportunity to talk with other parents and administrators. Campus and city tours, a financial aid information session and lunch with members of the University community are activities open to visiting families.

"It is important for minority students to get a feel for the University before they actually enroll," said freshman Katrina Harris, a member of the Association of Black Students. "After the weekend, we call students to check on their safe return and ask how they enjoyed their time here. We want to know how we can improve the program for next year."

The admissions office has expressed delight with the University's enthusiastic response to April Welcome. "Thanks to the extraordinary effort on the part of our current students, alumni and administrators, our guests will meet the people and see the places that contribute to the strength and diversity of our University community," said Hammonds.

April Welcome volunteers are needed throughout the month to greet and have lunch with visitors. Help is needed particularly on Mondays and Fridays, the busiest days, said Lee Nuckolls, assistant director in the admissions office.

"We hope visitors will view Washington University as a multifaceted place, not just a four-year experience," added Nuckolls. "If they (students) choose us, they will be joining a whole community."

To volunteer, call 935-4641.

— Cynthia Georges

## Sports

Compiled by Mike Wolf, director, and David Moessner, assoc. director, sports information.

### Track squads place high at WU Open

Finishing a respective first and second, the women and men's track and field squads were in full stride at last weekend's eight-team Washington University Open. Freshman Claudine Rigaud won the 100- and 200-meter dashes. Her 25.50 seconds in the 200 obliterated the WU varsity record and earned her a provisional ticket to the NCAA Division III Outdoor Championships. Also earning national berths were freshman Emily Richard and junior Jerylin Jordan in the 3,000-meter run and freshman Monica Lewis in the 400. On the men's side, sophomore Alex Galifianakis charted the season's top time among all University Athletic Association competitors with a 57.04-second performance in the 400-meter hurdles.

This week: 11 a.m. Saturday, April 13, at Western Illinois Invitational (Macomb)

### Baseball team suffers back-to-back losses

WU's momentum on the baseball diamond was slowed last weekend in Jackson, Ill., as Central Region rival MacMurray College recorded 8-1 and 5-0 victories over the Bears. The losses

marked the first successive losses of the season.

Current record: 17-6

This week: 3 p.m. Friday, April 12, at Greenville (Ill.) College; 1 p.m. Sunday, April 14, vs. Maryville University (2), Kelly Field

### Women's tennis team faces SIUE this week

Idle last week, the women's tennis team resumes play this week.

Current record: 6-5

This week: 4 p.m. Thursday, April 11, vs. Southern Illinois University-Edwardsville, Tao Tennis Center; noon Saturday, April 13, vs. Southwest Baptist University (Bolivar, Mo.), Tao Tennis Center

### Greenville next foe for men's tennis team

Finishing its season with a flurry of matches, the men's tennis team returns to the courts Wednesday, April 10.

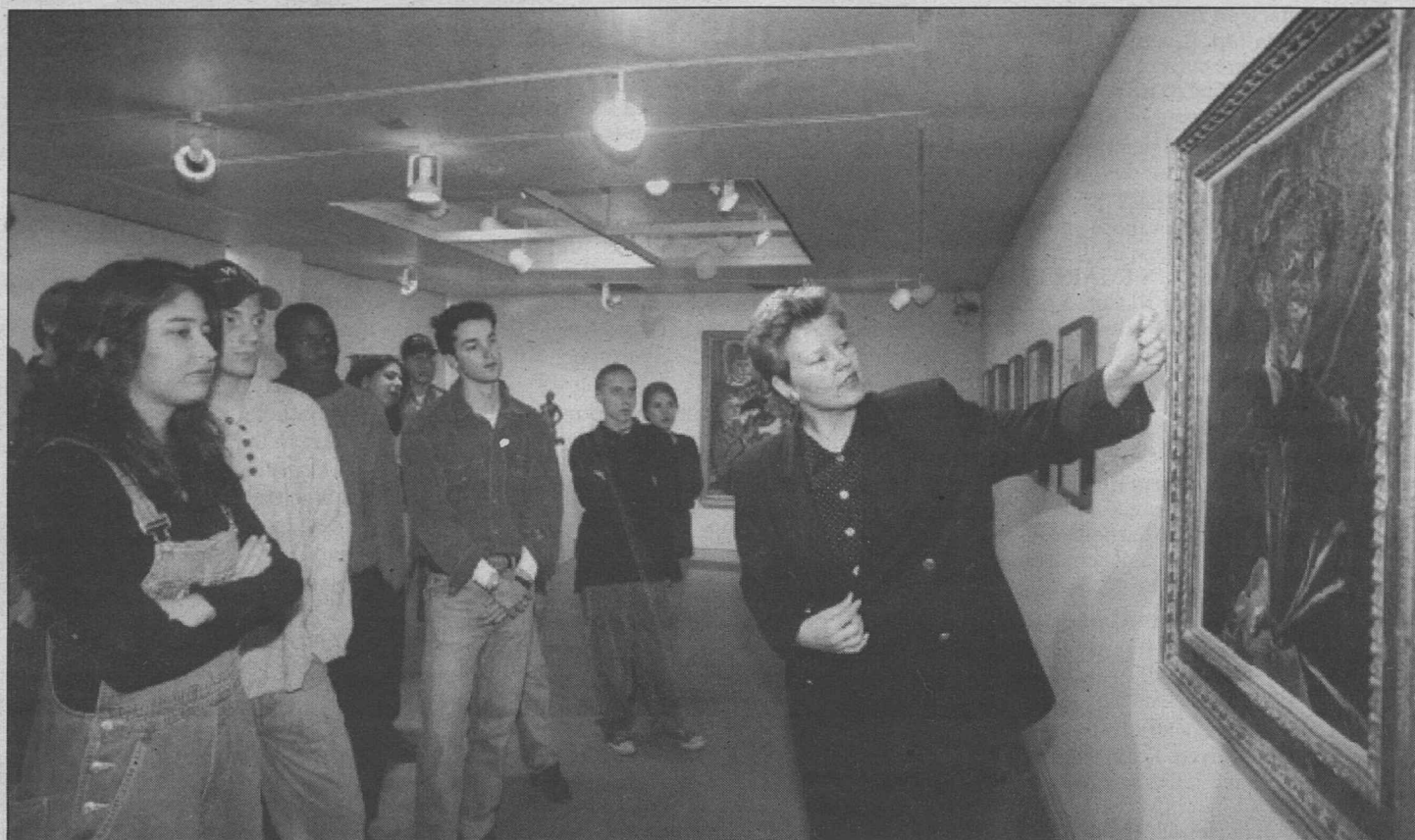
Current record: 2-3

This week: 3:30 p.m. Wednesday, April 10, vs. Greenville College, Tao Tennis Center; 2 p.m. Saturday, April 13, vs. Southwest Baptist University, Tao Tennis Center

## Volunteers come from all disciplines — from page 1

Other University faculty members and students who volunteered their time for the project were: Will Gillett, Ph.D., assistant chair and associate professor of computer science and director of the Undergraduate Program; Leslie Hayes, University Fellow in Mathematics in Arts and Sciences; Jennifer Hollingsworth, graduate student in chemistry in Arts and Sciences; Patricia Mathias, D.Sc., postdoctoral fellow in chemical engineer-





Cornelia Homburg discusses Ludwig Meidner's painting "Selbstbildnis" (Self Portrait) with students who are taking a class on contemporary German society and culture.

## Gallery wants to paint broad academic landscape

Highly regarded for its outstanding collection of artworks and as the home to numerous ground-breaking exhibitions, the Gallery of Art is reaching out increasingly to academic disciplines beyond the frame of fine art.

The gallery's permanent collection offers a wealth of information for students in many different fields of study, said Cornelia Homburg, curator of the gallery.

"It doesn't have to be only for students of art and art history," she said. "Students of history, literature, anthropology, sociology, architecture and the classics, to name a few, can take advantage of what we have here. It's a valuable resource on campus."

An upper-level class on contemporary German society recently took advantage of the gallery's noted 20th-century European painting collection to learn first-hand about Germany's artistic culture. Homburg, who is from Germany, gave the tour and subsequent discussion in her native language.

She noted afterward that students can gain a much better understanding of the historical and artistic movements underlying the art by viewing the actual works

rather than looking at reproductions in books or on slides.

"To work with the real thing is completely different," she said. "You look at it differently and from all sides and perspectives. Generally, the gallery does not show artworks in isolation, but rather you can see them in context and how they relate to others."

The students in the course, titled "Germany Today," were impressed with the collection and the tour. "It was very helpful," said Quentin Kruel, a sophomore civil engineering major. "I'm not very learned when it comes to art. This brings it all together."

Mina Arsala, a sophomore planning to major in international business, said it was interesting to see how the artists used color and design and to understand what was transpiring in Europe at the time the works were made. "There are a lot of great European paintings here," she said. "It's very impressive."

Both of these students, along with about half of the 16-member class, will study next academic year at universities in Tübingen and throughout Germany as part of the University's overseas studies program.

Robert Weninger, Ph.D., associate professor in the Department of Germanic Languages and Literatures in Arts and Sciences and teacher of "Germany Today," hopes the trip to the gallery will inspire these students to explore cultural attractions while abroad.

"We want them to experience the full cultural range of the country," Weninger said. "There is a fine collection of European art in the gallery. And she (Homburg) can explain it in German. This has been very useful for the students."

While a class on contemporary German society is ideal for taking advantage of the gallery's offerings, Homburg also plans to reach out to disciplines seldom associated with fine art. In the fall, Homburg will curate an exhibition of photographs that explore the influence of science on modern society.

The series of photographs, by California artist Catherine Wagner, shows various scientific tools and objects that were shot in research laboratories across the United States, including many here. The exhibition also will feature a series of lectures in which Homburg plans to involve students and faculty from the science departments. This show is just another example of how the gallery may serve as a focal point where the various disciplines meet, she said.

"The whole idea is to make these resources available to the University," Homburg said, noting there are many independent study possibilities and internships available at the gallery. "We want people to use these objects actively. If you want to see an artwork from the collection, the gallery will be happy to help you."

— Neal Learner

## Final spring lecture in Assembly Series features Molly Ivins

Acclaimed journalist and best-selling author Molly Ivins will deliver the annual Women's Society Adele Starbird Lecture at 11 a.m. Wednesday, April 17, in Graham Chapel. This Assembly Series lecture is titled "Molly Ivins Can't Say That, Can She?"

From 2 to 3 p.m. that day, Ivins will sign books in Room 303 Mallinckrodt Center. The lecture and book signing are free and open to the public.

Ivins, a columnist for the Fort Worth (Texas) Star-Telegram, recently joined the team of CBS' "60 Minutes." She is the author of two best-selling books, "Molly Ivins Can't Say That, Can She?" (1991) and "Nothin' But Good Times Ahead" (1993). Her free-lance writing has appeared in numerous magazines, including Harper's, The Nation, Esquire and the Atlantic Monthly. One month, her byline appeared simultaneously in Playboy, The Progressive and Reader's Digest.



Molly Ivins

Ivins is an occasional commentator on public radio and television. She is active in Amnesty International's Journalism Network and the Reporters Committee for the Freedom of the Press, and she writes about media issues for the American Civil Liberties Union.

Ivins, a three-time Pulitzer Prize finalist, received the Headliners Award for the best column in Texas in 1992 and the Carey McWilliams Award from the American Political Science Association in 1991.

After earning a bachelor's degree from Smith College in Northampton, Mass., and a master's degree in journalism from Columbia University in New York, Ivins studied for one year at the Institute of Political Science in Paris. Her journalistic career began at the Houston Chronicle. She also has held positions at the Minneapolis Tribune, the Texas Observer and The New York Times.

Ivins' lecture, the last in the spring 1996 Assembly Series, is co-sponsored by the Assembly Series; Pi Sigma Alpha, a political science honor society; the Department of Political Science in Arts and Sciences; Student Union; and the Women's Society of Washington University. The lecture pays tribute to the late Adele Chomeau Starbird, dean of women at the University for 28 years.

Details of the fall 1996 Assembly Series will be given in an August issue of the Record.

For more information about Ivins' lecture, call 935 5285.

## Egyptologists gather for annual meeting

More than 200 scholars of Egyptian history and culture are expected in St. Louis from Friday, April 12, to Sunday, April 14, for the 47th annual meeting of the American Research Center in Egypt.

Co-sponsored by the Center for the Study of Islamic Societies and Civilizations in Arts and Sciences and the Saint Louis Art Museum, the meeting is being held in conjunction with the museum's exhibit "Splendor of the Pharaohs: American Discoveries in Ancient Egypt."

The annual meeting will include a range of academic presentations, panel discussions and field reports from the world's leading Egyptologists. Registration and a \$70 fee are required for full access to all events, but organizers are offering a free two-day public workshop from 9 a.m. to 5 p.m. April 12 and 13. Titled "Transitions," the workshop will explore periods of dramatic change in Egyptian history and culture in the Islamic Period (mid-13th century to present).

All events, including the public workshop, will be held at the art museum.

For more information on the public workshop, call 935-5166. For more information on the exhibit, call 721-0072.

## Campus Watch

The following incidents were reported to the University Police Department from April 1-7. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety-awareness on campus.

### April 1

3:46 p.m. — A student reported that between March 28 and April 1 a mirror, valued at \$25, was stolen from a vehicle parked near Millbrook Square apartments.

6:41 p.m. — University Police and the University City Fire Department responded to a fire in a trash receptacle at the loading dock of Urbauer Hall.

### April 2

3 p.m. — While investigating a minor traffic accident in a parking lot near Wohl Student Center, University Police learned that one of the parties involved — a Marriott Management Services Corp. employee — was wanted by four municipal police departments for alleged misdemeanor crimes. The subject was arrested and released to St. Louis County Justice Services.

### April 3

Noon — A student reported that another student entered an Eliot Residence Hall room and began to verbally harass the student about a personal matter. The incident will be referred to the judicial administrator.

11:43 p.m. — A Marriott Management Services Corp. employee reported that a vacuum cleaner, valued at \$60, was stolen from Wohl Student Center.

### April 4

7:43 a.m. — A student reported that a coat and three darts, valued at a total of \$140, were stolen from an office in Eliot Hall.

3:08 p.m. — A student reported that a set of darts and a carrying case, valued at a total of \$35, were stolen from an office in Eliot Hall.

### April 5

9:48 a.m. — A student was arrested in Millbrook Square apartments on outstanding felony warrants from St. Louis County and misdemeanor warrants from Clayton. The student was conveyed to St. Louis County Justice Services.

### April 6

2:49 a.m. — A student reported that a wallet containing \$20, a credit card and a student identification card was stolen from a lounge in Lee Residence Hall. The wallet later was found near a laundry room in the residence hall. The money and credit and ID cards were missing.

5:12 a.m. — A University Police officer discovered a partially open overhead door to the Shepley Video Store. Unable to contact anyone affiliated with the store, the officer re-secured the door. Later, a co-owner of the store reported that 12 videos had been stolen.

2:20 p.m. — A student reported that a bicycle locked to a rack near Simon Hall was stolen.

### April 7

6:35 p.m. — A Marriott Management Services Corp. employee reported that \$591 was stolen from the bakery shop in Mallinckrodt Center.

University Police also responded to two reports of car vandalism near Shepley and Koenig residence halls.

## Second-year M.F.A. students exhibit works

The School of Art will host its annual "Master's of Fine Arts (M.F.A.) Thesis Exhibition" from April 19 to May 5 in the Gallery of Art in Steinberg Hall.

Seventeen second-year M.F.A. students will show their works in various media, including painting, sculpture, ceramics, photography and printmaking. The show also will include some large-scale installations. All of the works are available for purchase.

An opening reception will be held from 5 to 7 p.m. April 19 in the gallery. It is free and open to the public.

The exhibit hours are 10 a.m. to 5 p.m. weekdays and 1 to 5 p.m. weekends.

The exhibition is the final requirement for students completing their degrees in the M.F.A. program. All of the works in the exhibit are selected by a panel of art faculty members. The show represents the best work from each student, said Stan Strembecki, professor of art and acting director of the graduate studies program. For more information, call 935-4761.



## Distinguished alumni from business school to receive awards

The John M. Olin School of Business will hold its 10th annual Distinguished Alumni Awards Dinner on Tuesday, April 16, at the Ritz-Carlton Hotel in Clayton. Cocktails begin at 6 p.m., and dinner starts at 6:45 p.m.

Four individuals will receive Distinguished Alumni Awards. They are: James K. Berthold (MBA '62), chairman of the board and president of Sunnen Products Co. of St. Louis; Roy R. Heimbarger (BSBA '59), president and chief executive officer of Blue Cross and Blue Shield of Missouri and chairman and chief executive officer of RightChoice Managed Care Inc. of St. Louis; Mary Ann Krey (AB '69, MBA '88), chief executive officer of Krey Distributing Co. of St. Louis and a member of the Board of Trustees; and William J. Shaw (MBA '72), executive vice president of Marriott International Inc., president of Service Group and chairman of the board of Host Marriott Services Corp. of Washington, D.C.

In addition, Robert L. Virgil, Ph.D., (MBA '60, Ph.D. '67) and his wife, Gerry, will receive the Dean's Medal for exceptional dedication and service to the school. Bob Virgil served the Olin school for 17 years as dean and today is a partner in Edward Jones, a St. Louis-based national investment firm.

Sam Fox (BSBA '51), chairman and chief executive officer of the St. Louis-based Harbour Group Ltd. and a member of the Board of Trustees, will receive the Beta Gamma Sigma Medallion for Entrepreneurship.

For more information about the awards dinner, call Sandy Jurgenson at 935-5179.

# For The Record

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

## Of note

**Sean R. Eddy**, Ph.D., assistant professor of genetics, received a \$789,422 grant from the National Center for Human Genome Research for a project titled "Probabilistic Models of Protein and Ribonucleic Acid Structure."

## Speaking of

**Andrew D. Dimarogonas**, Ph.D., the William Palm Professor of Mechanical

Design, spoke on "Quality Control and Ethics in Ancient Engineering and Manufacturing" at a Chicago meeting of Sigm Xi, a scientific research society. The Illinois Institute of Technology co-sponsored his talk and broadcast it on ITT-TV, the institute's public television station. ...

**Gerald Early**, Ph.D., the Merle Kling Professor of Modern Letters and professor and director of the African and Afro-American Studies Program in Arts and Sciences, delivered a presentation titled "My Involvement in the Making of Ken Burns' 'Baseball'" at Spelman College in Atlanta. ...

**Cynthia Weese**, FAIA, professor and dean of the School of Architecture, spoke on "Careers in Academe" at Yale University.

## Making the news

**John C. Morris**, M.D., associate professor of neurology, was quoted in two recent issues of The New York Times regarding studies conducted at the Alzheimer's Disease Research Center at the School of Medicine. The studies show that brain aging can proceed without the changes of Alzheimer's disease. The findings suggest that the serious memory loss of Alzheimer's is not an inevitable part of aging.

## Students win top honors at regional dance festival

Washington University student dancers swept gracefully past hundreds of other aspiring dancers to win top honors at the regional American College Dance Festival held recently at the University of Utah in Salt Lake City.

As winners of the Northwest regional festival, the dancers in the Performing Arts Department in Arts and Sciences will perform at the biannual National College Dance Festival on May 20-22. The performance will be held in the Terrace Theatre at the Kennedy Center in Washington, D.C.

More than 400 student dancers from 33 schools in 13 states participated in the Northwest regional festival. A panel of renowned dancer-choreographers adjudicated 42 dances. Both Washington University dances entered in the festival

were selected for the final "Best of Festival" gala concert, which featured 11 dances.

From the gala concert, adjudicators then selected the two University dances and two dances from the University of Utah to be performed at the National College Dance Festival. This festival will feature the winning dances from seven regional competitions across the country.

Mary-Jean Cowell, Ph.D., associate professor and coordinator of the dance program, noted that the University was the only independent university offering dance through its bachelor of arts program to be represented at the gala concert. Most of the other students represented large state colleges and universities that offer bachelor of fine arts programs in dance, she added. "I'm so proud of these students," Cowell said,

commenting on her dancers. "They proved that you can achieve a high level of accomplishment in dance and at the same time pursue excellence in their other studies."

The Washington University dances were "Far From Home ... Entrance," choreographed and danced by senior Tam Le, and "One Second Before Time," choreographed by David Marchant, artist-in-residence in dance. Marchant's piece was performed by junior Dyanna Charles, senior Alexander Gish, junior Nicole Roberson, junior Jennifer Weber and senior Melissa Weinrieb.

In addition, Le received the regional nomination for Dance Magazine's "Best College Dance Performer" award. The winner will be announced at the National College Dance Festival.

## Lilly fellowship program enables faculty to enhance teaching skills — from page 1

important in philosophy."

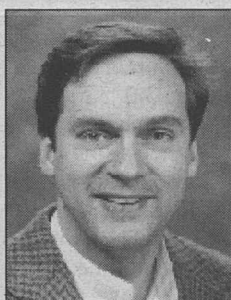
She also is focusing on ways to teach students how to write papers that contain effective philosophical arguments, and she is conducting research on how to structure writing assignments so students receive regular feedback. "What I hope is that by making the course more interactive, students will ask and answer certain philosophical questions for themselves. Then it will be easier for them to think critically and be more articulate when discussing philosophers' views," said Kleingeld, adding that she is thrilled to receive the fellowship. "I think it's great that Washington University supports teaching in this way."

Meyer has proposed a course titled "Tropes and Hypertext: An Introduction to Poetry," which he may teach next spring. "The idea is to tap into what students find exciting about working on a computer and to see how this applies to writing poetry," he said. Hypertext is a form of computer software that adds dimensions to a document so particular words or phrases on the computer screen lead to other related texts. For example, if the words "natural piety" appear in a text, another document could be made to appear that contains William Wordsworth's Intimations Ode, the poem that also contains the phrase. Meyer wants his students to explore the ways that recent computer technologies, like Hypertext, are related to more traditional modes of writing poetry.

Some writers, most notably novelist Robert Coover, have argued that Hypertext revolutionizes the writing of literature. Typically, these writers have only had fiction in mind. Meyer wants to examine the accuracy of this claim with respect to poetry. His hope is to entice his students' interest in poetry through the use of computers as a literary tool. Commenting on the fellowship, he noted that "it's really been quite amazing in regard to the amount of time the fellowship has given me to apply my work to the course. It enables you to step back



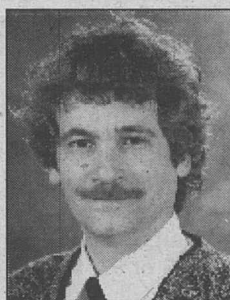
Pauline Kleingeld



Steven J. Meyer



Eloisa Palafox



Roger Petersen



Brigitte Rossbacher



Michael E. Wyssession

from your teaching, evaluate it and think about where it's going."

In the fall of 1997, Palafox wants to take her students on "The Road to Santiago de Compostela," the title of a new course she has created through the fellowship. The development of the St. James cult in northern Spain became one of the most important sites of medieval pilgrimage in the Middle Ages, besides pilgrimages to Jerusalem and Rome, said Palafox. "There are a number of stories, traditions, monuments and artistic works, both popular and learned, related to the legendary road. They have grown and evolved in fascinating ways from the Middle Ages to the present," she said. Geographically, there are several roads leading to Santiago, but Palafox will focus on a major one called "Camino Frances," or "The French Road," the connecting point to Santiago for most Europeans.

Her interdisciplinary course will focus on various aspects of the pilgrimage, including religious, historical, musical, literary and artistic emphases. By using reading assignments, tourist information about the road, and aids such as a CD-ROM, videos and other audiovisual materials, Palafox hopes to re-create the pilgrimage. "I want students to be interested in the Middle Ages. I want them to realize this pilgrimage can help them understand the foundations of the Spanish/Hispanic culture. Nowadays, the road is also very popular with tourists who go to Spain. If or when my students go there, they'll be prepared," she said.

"I think it's great that Washington University supports teaching in this way."

Pauline Kleingeld

"Ethnicity, Gender and Violence" is the title of a new course Petersen plans to teach next fall. "My main objective is to encourage students to think about different ways to approach a problem. What methods are best? I also want them to develop skills in critical thinking, combining various disciplines in that process. I want to push interdisciplinary boundaries to the limit," he said.

In regard to violence, he will focus on several areas, such as exploring environmental factors as well as individual characteristics, including a discussion of genetic tendencies. He also will examine whether violence maintains order in cer-

tain societies and if harboring ethnic stereotypes can lead to violent outcomes. "Many people believe that we sometimes create images of people of other ethnicities, believing we need to commit violence in order to defend ourselves," he

said, citing such conflicts as that of the Serbs and Croats in the former Yugoslavia. Petersen's wife, Daniela Stojanovic, is of Yugoslavian background and recently traveled there to interview women involved in peacemaking efforts. She also has protested the massive rapes committed in the country. In the course, Petersen will examine the ethnic, religious and gender dimensions of this conflict and others.

Rossbacher has created a course titled "Feminisms and Popular Culture," which she will teach during the 1997-98 academic year. The course is designed to motivate students to think critically about feminism and gender issues that are highlighted by popular culture and the mass

media, including the popular works of such authors as Camille Paglia, Naomi Wolf and Katie Roiphe; films like "Thelma and Louise," "The Last Seduction" and "Disclosure"; talk shows; and various musical genres such as rap and hip-hop.

Rossbacher said, "We will ask to what extent and by what means popular representations of feminism and gender issues succeed in capturing the imagination and forming the views of today's youth, and how such representations contribute to and affect feminism's progressive agenda or, conversely, subvert its goals." In addition, she will examine the conflicting ways women of varying generations address gender concerns, such as the definition of femininity and equality.

The fellowship has allowed Wyssession to help coordinate the Department of Earth and Planetary Sciences' revised curriculum for undergraduates. To enhance the quality of the undergraduate course offerings, the department completely has overhauled its curriculum for next fall. The students will have a set of three core courses that all earth and planetary sciences undergraduate majors will be required to take, to be followed by upper-level elective courses. "The electives will be offered every other year and will be known to students at least two years in advance," noted Wyssession. "Students will have more classes to choose from and will be able to tailor their course selection to their interests."

Wyssession has helped redesign the first core course, titled "Evolution of the Earth." The other courses, to be taken after the first course, are "Earth Materials" and "Earth Forces." Wyssession is assisting other faculty members in ensuring that the core offerings do not overlap. "Students will get a well-integrated background from these three courses," he said. "They will develop good analytical, quantitative and problem-solving skills. That's very important, particularly if they are entering graduate school or the world of work."

— Carolyn Sanford



# Opportunities & personnel news

## Hilltop Campus

The following is a partial 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.

**Media Facilities Coordinator 960204.** *School of Art.* Requirements: bachelor's degree; familiarity with Mac, SGI and PC environments; ability to work effectively with faculty, students and staff; experience with the following software preferred: Director, Photoshop, Strata Studio, Wavefront and Quark Xpress; experience with similar software packages helpful; grant-writing experience or willingness to learn. Application required.

**PC Support Assistant 960210.** *School of Law.* Requirements: high school graduate; specific training in hardware, software or networking highly preferred; experience installing and troubleshooting PCs, cards

and peripherals; experience working with PC-based software, such as WordPerfect Office and Microsoft Office, and database products, preferably Foxpro; experience working in a medium-sized Unix, Novell or Windows network environment; good customer-service and communication skills. Application required.

**Department Secretary 960211.** *Chemical Engineering.* Requirements: high school graduate; computer skills. Application required.

**Career Counselor 960212.** *Career Center.* Requirements: undergraduate degree in a liberal arts discipline; graduate-level degree in counseling, student personnel, career counseling or related field; demonstrated knowledge of career counseling and placement theory and practice; experience in, or exposure to, an arts and sciences career center; knowledge of the use of technology and computers in instructing and assisting students with their career development and placement activities; training in administering and interpreting career-interest inventories; knowledge of effective job-search

methods and opportunities for Arts and Sciences graduates; flexibility; creativity; self-starter and team player; committed to continued development as a professional in career services. Application required.

**Administrative Assistant 960214.** *East Asian Studies.* Requirements: high school graduate; some college preferred; ability to communicate with graduate and undergraduate students, faculty members and the general public; experience with FIS and SIS systems; word processing experience using WordPerfect; accounting background; ability to supervise a college work-study aide; ability to maintain filing system for graduate and undergraduate students; ability to maintain files for outside grants; ability to help director with grant applications; good general secretarial skills. Application required.

**Assistant Director 960215.** *Center for Engineering Computing.* Requirements: bachelor's degree; communication skills and a strong customer-oriented focus; management experience, including budgeting, planning and personnel supervision; Unix, PC and network sys-

tem management. Application required.

**Administrative Assistant 960216.** *Accounting Services.* Requirements: college degree from a business or vocational school; accounting or bookkeeping experience is a plus; five years secretarial experience with accurate typing skills, including statistical typing; excellent interpersonal communication skills, particularly on the telephone; one year of PC word processing experience, including WordPerfect for Windows; experience with Lotus and e-mail; excellent grammar, punctuation and spelling skills; ability to maintain confidential information; ability to participate as a team member on various teams and projects. Application 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 362-7197 to request an application. External candidates may call 362-7195 for information regarding application procedures or

may submit a résumé 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.

**Statistical Data Analyst 960216-R.** *Ophthalmology.* Requirements: master's degree in biostatistics; Ph.D. preferred; training and experience in SAS programming; experience with large longitudinal datasets from multicenter studies preferred.

**Desktop Support Analyst 960684-R.** *Surgery.* Requirements: high school graduate or equivalent; additional education preferred; two years experience in desktop applications, including Microsoft products; knowledge of PC and/or Macintosh operating systems; knowledge of e-mail, the Internet and HTML is a plus. Responsibilities include providing end-user and front-line support and training for desktop applications.

**Professional Rater I 960779-R.** *Psychiatry.* Requirements: bachelor's degree in psychology, social work or related field; one to three years experience helpful; interviewing experience; detail-ori-

ented; ability to work independently. Responsibilities include conducting face-to-face interviews with adolescents and adults. Some travel is involved. Schedule: full time.

**Professional Rater I 960780-R, 960781-R, 960782-R.** *Psychiatry.* Requirements: bachelor's degree in psychology, social work or related field; one to three years experience helpful; interviewing experience; detail-oriented; ability to work independently. Responsibilities include conducting face-to-face interviews with adolescents and adults. Some travel is required. Schedule: part time.

**Statistical Data Analyst 960789-R, 960790-R.** *Psychiatry.* Requirements: master's degree in biostatistics, mathematics or statistics; three years experience preferred. Responsibilities include developing programs to enter and manage large computer datasets; performing Ancova and other multivariate techniques; performing Life Table and other survival analytic techniques; and performing multiple system checks for data-verification.

**Sonographer 960831-R.** *Obstetrics and Gynecology.* Requirements: RDMS registered or registry eligible; experience in ob/gyn ultrasound.

## Direct deposit open to all employees

Beginning May 1, all Washington University employees will be able to participate in the direct-deposit program.

Previously, direct deposit was an option only for those employees who received one paycheck a month. Beginning next month, however, the direct-deposit option will be available to employees from the Hilltop and Medical campuses who are paid bi-weekly or who are on a special payroll.

Meetings have been scheduled to answer employee questions about direct deposit. Employees may sign up for direct deposit at these meetings.

On the Hilltop Campus, there will be a meeting from 11 a.m. to 1 p.m. Monday, April 15, on the third floor of Mallinckrodt Center.

On the Medical Campus, there will be a meeting from 11 a.m. to 1 p.m. Wednesday, April 17, in Room 1140A of the Clayton/Taylor Building, 4480 Clayton Ave.

Representatives from Boatmen's Bank and Washington University Shared Payroll Services will be on hand to answer questions and sign up employees. Employees do not have to have accounts at Boatmen's to participate in direct deposit. Payroll checks can be deposited at virtually any financial institution.

To sign up, each employee will need to bring a voided personal check and attach it to an authorization form. These forms will be available at the meetings.

For more information, call Shared Payroll Services at 935-9833 or 935-4387.

## Team tennis, lessons offered this spring

The Tao Tennis Center will be the site of two innovative tennis programs offered this spring by Lynn Imergoot, head coach of the women's tennis team and assistant athletic director, and Pat Purcell, assistant women's coach.

World Team Tennis offers competition on a team basis for men and women. Leagues will be formed at the 3.0, 3.5, 4.0, 4.5, 4.6 and above levels. A match consists of a set of men's singles, women's singles, men's doubles and women's doubles and two sets of mixed doubles. Teams will play one evening per week from 6 to 8 p.m. or 8 to 10 p.m., depending on the number of

teams entered. You may enter as a team (minimum of two men and two women) or as an individual and be placed on a team. The season runs from April 29 through July 12. Deadline for entries is Monday, April 15.

Group tennis lessons are offered for both adults and juniors beginning April 29. Sessions are scheduled during the day and in the evening in two- and four-week sessions.

For more information and application forms, call Imergoot at 935-5204 or come to the Administrative Office in the Athletic Complex.



Social work and architecture graduate student Mara Minarik scrapes signage off the door of a Cherokee Street storefront while architecture graduate student David Benfield sweeps the entryway.

## Students aim for ongoing renewal — from page 1

alongside the students, and area businesses donated cleaning supplies and pizza.

"The most gratifying part of the project," said Foster, "has been seeing relationships develop among people in the community who hadn't worked together before."

The students ended their volunteer workday by hanging their architectural designs for Cherokee Street in the newly cleaned storefronts.

"So often in school we design something that doesn't have a real-life connection," said AIA chapter President Susan McNabb, a graduate student in architecture and construction management. "This was an opportunity to see the beginning of what we proposed and designed start to happen."

McNabb hopes the multidisciplinary approach will start a precedent for future projects.

Brainstorming sessions, conducted March 16 and 23 with professors, residents, church groups and community associations, resulted in a long-term vision for the area, which stretches from Gravois Avenue to the former Lemp brewery. Architectural plans feature site and landscape work, including signage to identify Cherokee Street; parking solutions, including strategic downsizing of vacant shops in the middle of blocks to create walkways to ample parking behind shops; additional lighting and benches at the street corners of "antique row" so shoppers are more likely to park on side streets; and a mixed-use project for the former brewery, which includes an antique village on the first floor and office and residential space above.

Although many of the students, like

Foster and McNabb, will be graduating next month, they've written proposals so the project can be ongoing. In this way, too, the undertaking distinguishes itself from previous one-day service projects. If and when the proposals are approved, social work students will organize neighborhood block captains to be responsible for the upkeep of adjacent streets, and business students will create a marketing plan that Cherokee Street building owners can use to attract new tenants.

"I was surprised how many people participated from the business school," said Sarah Dian, a graduate student in architecture and business. "There were about 15 of us working really late one night on this project. We didn't want to just work for three weeks and leave. We wanted to give the community something after we're gone."

One elated shopkeeper was Marlene Cohen, owner of Proper Shoe Co. "The streets were spotless when those kids were finished. They even got into the cracks on the sidewalk," she said. "They gave me wonderful suggestions on how to make my stores look better and what color to paint them. Knowing there are people out there who are trying to help makes me feel hopeful."

Overwhelmingly, students said it was gratifying to make a difference and that this kind of involvement was something they hoped to continue after graduation.

"Architects have a great responsibility to be a part of their communities," said Cynthia Weese, FAIA, dean of the architecture school. "They understand how to shape the built environment, and they need to get out and do it."

— Cheryl Jarvis