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## Washington University Record, April 9, 1998

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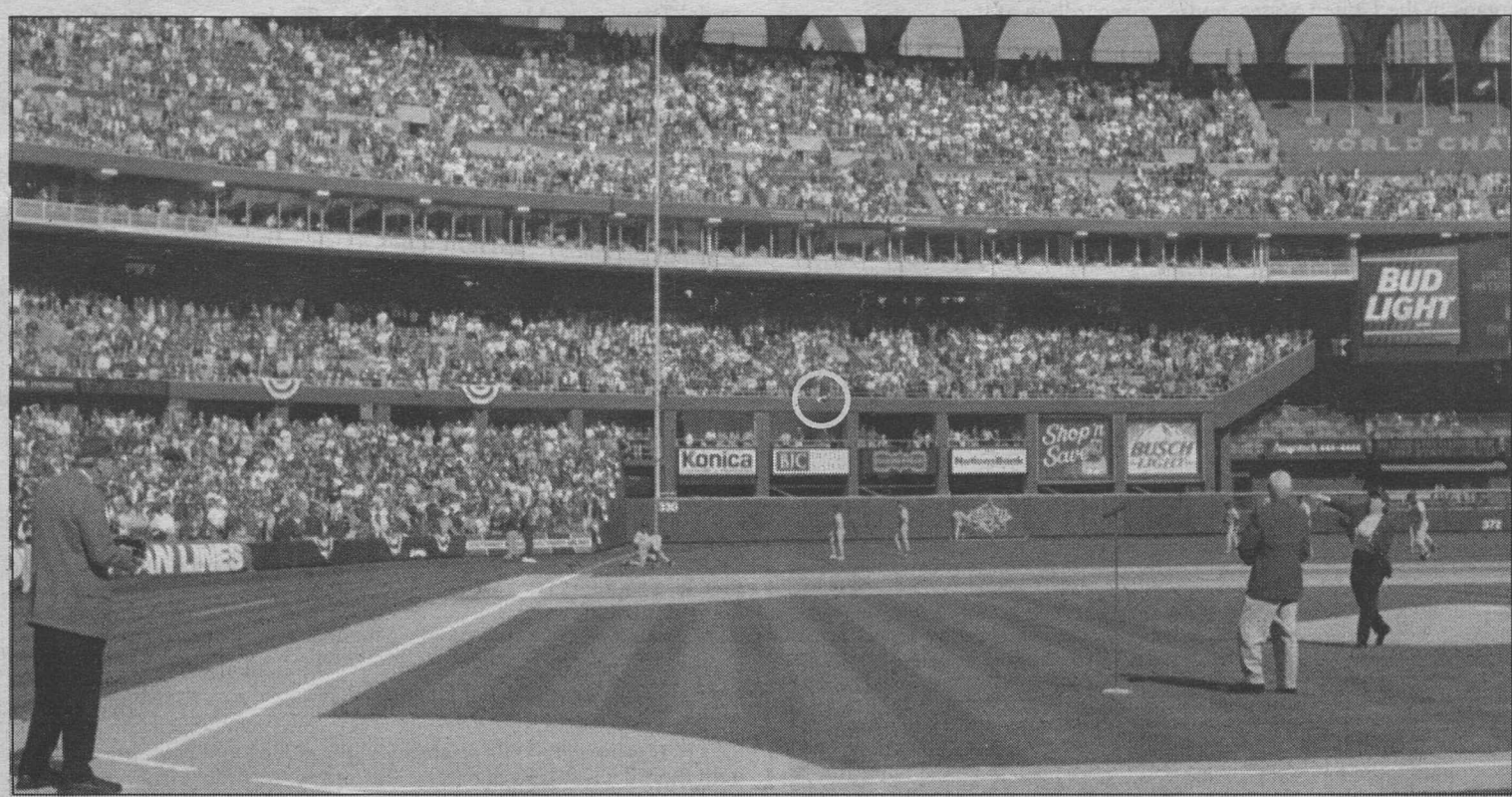
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# Record

WASHINGTON  
UNIVERSITY  
IN ST. LOUIS

Vol. 22 No. 27 April 9, 1998



## First pitch honors

Nancy Fahey, coach of the University's national champion women's basketball team, hurls a sizzling ceremonial first pitch right over home plate into the hands of Ed Macauley, another St. Louis basketball great, to start the Cardinals' opening day game March 31. Veteran sportscaster Jack Buck (second from right, back to camera) calls the play. (The ball can be seen in the circle.) Story on page 5.

## University lab blazing trail toward 'wired world'

Imagine a "wired" world: Instead of magnets and scotch tape holding messages on your Frigidaire, there's a monitor displaying voice, written and even video messages. You access the monitor by a hand-held remote control device — a "palmtop" computer. Using the palmtop, you can read messages from family members, browse the Web, watch "Wuthering Heights" or cheer on the Chicago Bulls, all while you ride the MetroLink home from work.

You bank and shop across the Internet with "digital cash," which replaces your credit cards. You invest in financial markets using the same currency. The corner video store is a thing of the past because you can sit at home and, through a World Wide Web interface, request any movie you want at any time of the day. In education, network users bring the schoolroom into their homes by interacting with school-based teachers who have videotaped their lessons. If you missed a

lecture early in the semester and finals are staring you in the face, you can call the lecture up on the professor's Web site archive and rest at ease.

You can put videos of your family vacation on your own Web page and invite your relatives and friends to watch without the hassle of inviting them over.

Every technological question involved in making the possibilities of this wired world a reality is being addressed now in the Applied Research Laboratory (ARL) on the fifth floor of Bryan Hall at the School of Engineering and Applied Science.

Already, for instance, University researchers have prototyped a high-performance Multimedia on Demand service and server that allows users to record lectures, movies, news clips and TV shows, and then play them back on demand any time through a Web browser.

In an informal poll conducted by Business Week magazine last spring, the University was ranked

fourth worldwide among academic laboratories in telecommunications and networking by the computer industry's prime "movers and shakers" — and much of that work is conducted at the ARL, which finds itself squarely in the eye of the data and telecommunications tornado.

"Computers and communications are merging, and that is the essence of the revolution in our midst," said Christopher I. Byrnes, Ph.D., dean of the engineering school. "Twenty years ago, computers were largely main-frame computers used for business and scientific computations. Today, most people use computers linked to each other over networks to communicate. Advances in high-speed computing, switching and networking have completely changed the way we think about communicating, and Washington University engineers are in the thick of these endeavors."

Founded in 1988 by Jerome R. Cox, Jr., Sc.D., the Harold B. and

Adelaide G. Welge Professor of Computer Science and then department chair, and Jonathan S. Turner, Ph.D., the Henry Edwin Sever Professor of Engineering, the ARL originally was conceived as an interdisciplinary workshop to research, prototype and demonstrate high-performance network technologies and applications and, subsequently, license them to industry for commercialization.

Project Zeus, started in 1988, *Continued on page 6*

## Graham Chapel renovations to enhance beloved building

A highlight of the Hilltop Campus soon will be a bit brighter. Last week, bid requests went out for renovation work on Graham Chapel — work that will include illuminating the structure's ceiling.

Work is scheduled to begin May 24 and end Sept. 1. During that time, the 89-year-old chapel will be closed. Some of the work will increase disabled access to the building. Other components are cosmetic, said John M. Rozycki, construction manager in Facilities Planning and Management.

Along with the new lighting, the project includes cleaning the chapel's walls, installing a new sound system and new heating and cooling, replacing the seats in the balcony and building bathrooms downstairs.

An addition to the east side of the building will create a new ramped entrance and provide an elevator and stairs to the lower level.

With its four spires and stained glass window, which depicts the dedication of King Solomon's temple, Graham Chapel is a beloved and central structure on the Hilltop. The building was dedicated in 1909. It is named for St. Louis businessman Benjamin Brown Graham and was given to

## Bon Appetit! — new food service company chosen

Washington University has selected The Bon Appetit Management Company of Menlo Park, Calif., to operate its dining service programs. A five-year agreement will become effective July 1, subject to negotiation of final contract details.

Bon Appetit is a multistate food service management firm that has won awards for its creative and innovative menus. Its philosophy includes using high-quality, fresh foods and providing strong customer service — both of which were key ingredients in its selection to manage the University's dining operations. The company serves a variety of corporate and educational clients throughout the country, including Stanford University, Wheaton (Ill.) College and Loyola University of Chicago.

"We are delighted to begin this new partnership with Bon Appetit," said Richard A. Roloff, executive vice chancellor. "They have a wonderful reputation for providing excellent food on a consistent basis, and they bring a wealth of experience and new ideas to our dining service programs. They will assist us in making attractive dining options an integral part of our University operations."

The selection of Bon Appetit follows a lengthy review process begun in late 1997. Three companies were invited to submit detailed proposals for operating an array of dining service programs, from the residence hall board program to executive catering. A 10-person selection committee

*Continued on page 6*

## Students design neighborhood marker

Two graduate architecture students hope their winning design for a marker at the entrance to the Forest Park Southeast Neighborhood will not only welcome residents and visitors but uplift them as well.

"We selected elements that would blend in with the existing neighborhood but also would be contemporary and symbolize the future and promise the neighborhood holds," said graduate student Monica Moore of the design

she created with Tomislav Zigo, also a graduate student.

Their design for the east entry along Manchester Road calls for a 28-foot steel tower that brings a sense of prominence and firmly establishes the site as an entryway. A low brick wall with the neighborhood's name emblazoned in bold letters curves in front of the tower. Elements from the design of the wall, which ranges in height from 2 to 4 feet, are incorporated in the students'

designs for a nearby bus shelter, helping to foster the sense of a community gathering point.

The Washington University Medical Center (WUMC) Community Revitalization Program sponsored the contest for a marker at the entryway to the 45-block neighborhood and awarded the winning team a \$500 prize.

Students in the graduate studios of Jo Noero, the Ruth and Norman Moore Professor of

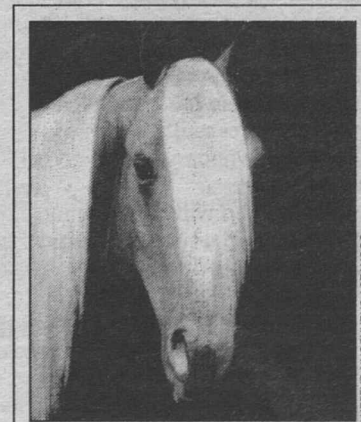
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Families often have second thoughts about organ donation decisions, a study shows

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**Simon to speak ..... 4**  
Former Sen. Paul Simon, D-Ill., will speak on social policy Wednesday, April 15



**Art market**  
Artist Joe Ando's work is among the many prints and drawings on display at this year's PRINTMARKET. Story on page 5.



# Medical Update

## Some families would reverse organ donation decisions if asked again

Investigators from the School of Medicine and Mid-America Transplant Services have found that a significant number of organ donor families would not donate a loved one's organs if asked to do so again.

The researchers also found that many families who chose not to donate would change their minds and give consent if the opportunity arose again. The findings, reported in the March 20, 1998 issue of the journal *Psychosomatic Medicine*, show that about one in five families

would do things differently the next time around.

Organs and tissues procured from one donor can save the lives of up to seven people. Some 55,000 are waiting for kidney, heart, liver and other organs in the United States, and of those, one person dies every three hours, still waiting.

"At a time when there is a real scarcity of donated organs and tissues in this country, it's not to anyone's advantage to have people feeling they did not do the right thing," said Barry A.

Hong, Ph.D., associate professor of psychiatry and of medicine.

Hong's research team surveyed 225 family members who had been approached about donating the organs of relatives, regardless of their decision. Family members were surveyed at least one year after the experience.

Of those surveyed, 178 were satisfied with their decision. Another 47 reported they were not. Of those, 22 were donor family members who said they

would not donate again. The remaining 25 were non-donor family members who would now donate if given the opportunity.

"I'm concerned that 20 percent of these people think they should have done something else," Hong said. "That's a sizable proportion, and I think it's one that should be worrisome to the transplant community."

Hong and colleagues looked at numerous factors, including previous knowledge of transplantation, the request process, characteristics of the deceased and medical/hospital factors. "We thought that looking at all of the factors together would give us a more realistic idea of

what influences both the decision regarding donation and the satisfaction with that decision," Hong said.

Those who were comfortable with their decisions to donate tended to be more highly educated and had previously discussed the issue with their families.

In fact, prior discussion was one of the most important factors involved both in donation and in later satisfaction. According to Hong, people who want to donate their organs at the time of death can ease the burden on family members by making those intentions clear. Families must consent to donation, regardless of whether a donor card has been signed, and those families who were most satisfied were certain they were following the wishes of their loved ones.

Surprisingly, religion was an important factor influencing satisfaction. The researchers found that those who chose to

donate but later were dissatisfied tended to go to church more often and to be more religious than those who were satisfied. Hong is not sure why, but he said the issue warrants further investigation.

The researchers also found that the larger the number of family members involved in the decision, the less likely a dona-

tion would occur. Families are more likely to agree to donate when their loved ones are at community hospitals than at larger university medical centers. The number of people who approached the family about donation also was a factor. Being

approached by several health care workers made family members leery.

"How you're asked, who does the asking and how sensitive they are to the problems going on in the family — those are very important issues. I'm not sure we give those issues enough attention," Hong said.

What happens after a donation might be just as important to the family's ultimate peace of mind. Hong believes it is critical that both the families who consent to donate and those who refuse receive support for their decisions.

"I think sometimes families are curious where the organs went and whether they helped to save someone, and I think some things could and should be done to assure donor families that their loved ones helped save lives," Hong said. — Jim Dryden

**"How you're asked, who does the asking and how sensitive they are to the problems going on in the family — those are very important issues."**

— Barry Hong



### Brain Awareness Week puppet show

During this year's Brain Awareness Week, Kate Schandl (left) and Doug Rodgers presented a puppet show about disabilities awareness at the St. Louis Science Center on March 28. Schandl and Rodgers are members of the St. Louis Society for Children and Adults with Physical Disabilities. The School of Medicine is one of the major sponsors of Brain Awareness Week, a public information campaign to focus attention on the importance of the brain and neuroscience research.

## Sicard named head of general surgery

Gregorio A. Sicard, M.D., has been named head of the Division of General Surgery at the School of Medicine.

The appointment was announced by Timothy J. Eberlein, M.D., the Bixby Professor and chair of the Department of Surgery. Sicard succeeds Samuel A. Wells Jr., M.D., professor and former head of the surgery department, who is leaving July 1 to become director of the 63,000-member American College of Surgeons, the largest surgical organization in the world.

"Greg Sicard has a long history of achievement at the School of Medicine and Barnes-Jewish Hospital and an excellent relationship with physicians and surgeons in the community," Eberlein said. "A superb vascular surgeon, he also has strong leadership qualities and a vision of where the division needs to go in the future."

Sicard, who will continue in his role as professor of surgery at

the medical school and as director of the vascular service at Barnes-Jewish Hospital, becomes head of all surgical sections within general surgery: burn trauma and surgical critical care, colon and rectal, hepatobiliary/pancreatic, oncology/endocrinology, transplantation and vascular.



Gregorio A. Sicard

An author or co-author of more than 130 scientific articles and 40 book chapters, Sicard is well known for his expertise in minimally invasive vascular

reconstruction and in repair of aortic aneurysms. His most recent clinical research has involved vein reconstruction in prosthetic graft infections.

In 1996, a special edition of *American Health* magazine named Sicard as one of the nation's top doctors. He is an

active member of many professional societies and a fellow of the American College of Surgeons; he also is a member of the prestigious American Surgical Association. He serves on the editorial boards of six journals—*American Journal of Kidney Diseases*, *Annals of Vascular Surgery*, *Archivos de Cirugia Vascular*, *ASAIO Transactions*, *Patologia Vascular* and *Research in Surgery*—and is guest reviewer or abstractor for several others.

Sicard received a bachelor's degree from Saint Louis University in 1965 and a medical degree from the University of Puerto Rico School of Medicine in 1972. Following an internship and residency at Barnes Hospital, Sicard did a renal transplant fellowship at the medical school. He joined the surgery department in 1977, steadily rising through the ranks to become chief of the section of vascular surgery in 1983 and professor of surgery in 1988.

## Lecturer will discuss inflammatory brain disorders

Patrick McGreer, M.D., Ph.D., will present a lecture titled "Inflammatory Processes in Neurodegeneration" at 9 a.m. April 18 in Erlanger Auditorium, 4565 McKinley Ave.

McGreer is a professor emeritus at the University of British Columbia School of Medicine. His

distinguished and varied career has focused on the potential role of inflammatory processes in Alzheimer's disease. Many of the scientific underpinnings of this expanding area of research were derived from his group's pioneering work. The new insights are contributing to understanding the

disease's development and have led to clinical trials of anti-inflammatory and antioxidant drugs for Alzheimer patients. As well as being a scientist, McGreer played basketball in the 1948 Olympics and was a longtime member of the British Columbia Provincial Cabinet.

## 'Vision' exhibit opens at St. Louis Science Center

"Vision," an exhibit exploring how we see, opens Thursday, April 9, at the St. Louis Science Center. Sponsored by the Department of Ophthalmology and Visual Sciences, the traveling exhibit from the National Eye Institute will run through June 30.

The free exhibit features interactive displays, photos and artifacts, including handblown glass eyes. It also includes information about eye disorders, current eye research and a look at the future of ophthalmology.

While the exhibit is on display, scientists and eye specialists from the ophthalmology and visual sciences department will present a variety of special programs, primarily on Saturdays. In addition, the Science Center will display copies of many rare ophthalmology manuscripts from the Bernard Becker Collection in Ophthalmology. The original manuscripts are housed in the Bernard Becker Medical Library at the School of Medicine.

"Vision" is located on the lower level of the Science Center in the Special Exhibits Gallery. It is open during regular Science Center hours.

For more information, call 289-4444.

## Record

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 Washington  
WASHINGTON UNIVERSITY IN ST. LOUIS



# Washington People

## Ellis fashions 'enduring legacy' at law school

School of Law Dean Dorsey D. Ellis Jr., J.D., is a fly fisherman at heart. "I get out on a stream and I don't think about any of the issues that have been rolling around in my head all day," Ellis said. "You can't beat the setting. It's quiet, you don't disturb the environment, and you rarely see anyone else. It's challenging to try to set the fly down delicately on the stream and make it look as natural as possible. You're controlling a long flexible stick with 30 feet of line, a gossamer leader and a feather-weight fly. Then, if you get a strike, you have to set the hook precisely to land the fish. You're constantly alert, but it's also mentally relaxing."

The day-to-day life of a law dean requires a similar mastery over one's environment but poses other challenges as well. Ensuring students' educational needs, overseeing budget and building matters, supporting faculty teaching and research, galvanizing the support of alumni, keeping the administration running smoothly, logging endless frequent-flier miles visiting key supporters and promoting the school's goals — all the while propelling the school forward — would be a daunting task for many. But Ellis not only skillfully tackled these more-than-full-time duties, he oversaw the construction of a new state-of-the-art facility and the school's most successful capital campaign.

After more than a decade of service, Ellis announced last fall that he was ready to step down as dean, effective July 1. A nationwide search for his successor is under way. Ellis plans to serve the school as a full-time professor, devoting his time to teaching and scholarship.

"I have been privileged to serve as dean," Ellis said. "These have been years of personal growth and great satisfaction for me. Now is a good time in the life of the law school for new leadership. We have completed and dedicated Anheuser-Busch Hall and exceeded our campaign goal. The faculty is a vibrant group of scholars with a zest for teaching; the diverse student body possesses strong academic credentials; the administrators and staff are extraordinarily talented and hardworking; and the alumni are enthusiastically supportive. A new dean with a fresh vision and energy can lead this school to real prominence."

### 'A better place to teach and learn'

Ellis said he kept it all in perspective by making firm decisions while "constantly keeping an eye out for what makes the law school a better place to teach and learn" and by delegating responsibilities to able members of his senior administrative staff. He said he also benefited from the extraordinary leadership of the two chancellors under which he served and the support of fellow deans.

Kathleen F. Brickey, J.D., the James Carr Professor of Criminal Jurisprudence and a member of the search committee that helped select Ellis as dean, said Ellis' achievements have exceeded her greatest expectations.

"The most visible enduring legacy Dan leaves the school is, of course, a world-class teaching and research facility," she said. "Anheuser-Busch Hall provides an enormous boost to the school in pursuing the essential tasks of recruiting students, attracting and retaining the best faculty, serving as a venue for important national and international academic and professional conferences and instilling a sense of pride, proprietorship and enterprise among our alumni. The school has progressed on a number of other fronts as well, not the least of which is a faculty that has grown in size, strength and stature during his tenure."

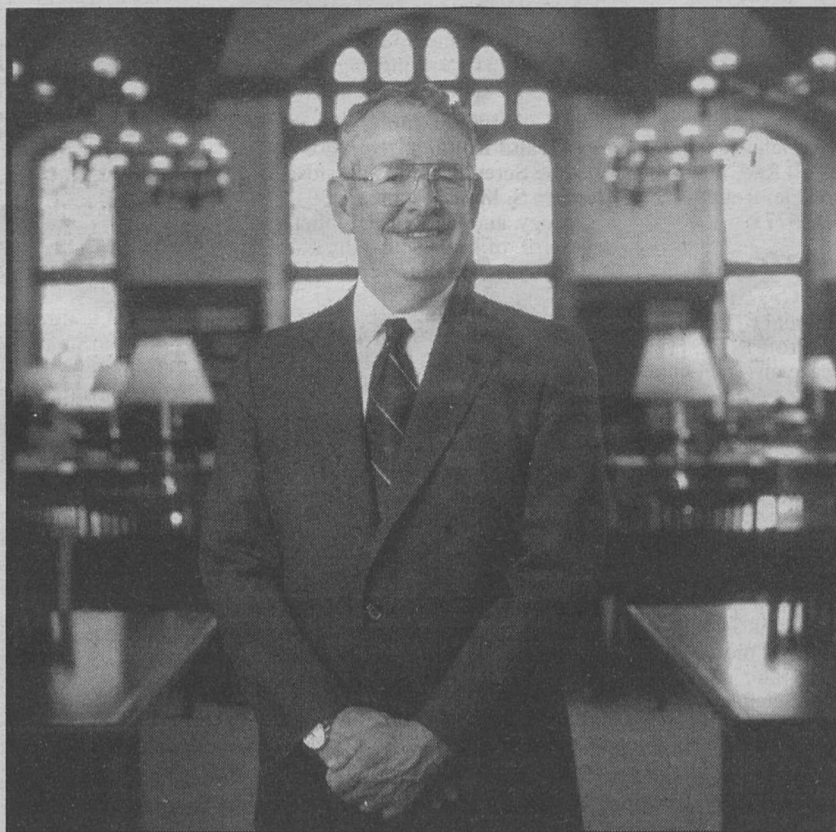
When he became dean in July 1987, Ellis' most pressing goal was to replace the cramped and inadequate teaching, learning and research environment at Mudd Hall. Ellis' efforts — along with those of faculty, students, University administrators and alumni — led to the creation of Anheuser-Busch Hall, at a total project cost of \$40 million. The 175,000-square-foot facility, which combines the latest technological advances with traditional collegiate gothic architecture, opened for classes in January 1997. Now, more than a year later, Ellis said the building has proved a major success.

"We conceived of what it could be, and we got our dream with this building," Ellis said. "The place just feels good. There's a warmth to it, and it works so splendidly. It's a pleasure teaching in the classrooms, the state-of-the-art technology is being used more and more, the library and academic resources center is among the best in today's law schools, the students are taking advantage of the courtyard and the wooden benches throughout the building to congregate after class and, beyond all that, it's a facility that can be easily adapted for the future."

Third-year law student Michael Downey, who served as Ellis' research assistant, said he appreciates having had the dean as a mentor and the direction in which Ellis has taken the school.

"He built a great building, and he drastically improved the school overall," Downey said. "By improving the student body and faculty, Dean Ellis has positioned the school to move forward academically. The next dean will have a great opportunity to build on that momentum."

Stephen H. Legomsky, J.D., D. Phil., the Charles F. Nagel Professor of International Law, stressed Ellis' dedi-



School of Law Dean Dorsey D. Ellis Jr., J.D., stands in Anheuser-Busch Hall's Janite Lee Reading Room.

cation to legal scholarship and maintaining a strong and diverse faculty.

"Dan Ellis has been outstanding," Legomsky said. "When he arrived, our faculty had three women and one minority member, and we were living in Mudd Hall. Ten years later, we have 17 women and four minority faculty members, and, through Dan's tireless efforts, we're now living in one of the most beautiful and most functional law buildings in the world. Apart from all that, our student body is far more selective, our faculty more productive and the whole atmosphere much more intellectually vibrant."

**"Because of Dan Ellis, our law school is an excellent institution, clearly ready to excel in the new century."**

— Jean C. Hamilton

Of the current 31 tenured and tenure-track professors at the school, nearly half were hired during Ellis' term as dean. Ellis also strengthened the school's interdisciplinary teaching through joint-degree programs with East Asian studies and European studies, both in Arts and Sciences, and with the Environmental Engineering Program in the School of Engineering and Applied Science.

- Other highlights of his tenure include:
- increasing substantially the number and scope of the school's lawyering skills courses;
  - strengthening the first-year legal research and writing program;
  - merging computer and library services into a leading department of information resources;
  - overseeing a long-range planning report;
  - twice managing a self-study and re-accreditation process;
  - hosting numerous legal conferences featuring eminent scholars and practitioners;
  - expanding the school's international ties through broadened faculty teaching and scholarship and advanced

degree programs for lawyers from other countries.

At the same time, Ellis has been firmly supportive of alumni relations. The dean not only spurred a dramatic increase in alumni activities both in St. Louis and nationally, but, under his leadership, the school reached its \$20 million Building for a New Century campaign goal — 21 months ahead of schedule and in time for Anheuser-Busch Hall's Sept. 26, 1997, dedication.

Jean C. Hamilton, law school alumna and chief judge of the U.S. District Court, Eastern District of Missouri, said Ellis' efforts are much appreciated. "Dan Ellis has shown alumni, in particular, that by working together with faculty, staff and students at the law school we can achieve our highest goals," said Hamilton, who serves on the school's National Council, founded by Ellis. "Because of Dan Ellis, our law school is an excellent institution, clearly ready to excel in the new century."

In addition to his administrative duties, Ellis has served as a professor of law, teaching in the areas of torts, product liability and antitrust. While his main body of research focuses on punitive damages, he also has published in the areas of constitutional history, torts, antitrust and law and economics.

Ellis came to Washington University from the University of Iowa, where he was vice president for finance and university services, special assistant to the president, acting assistant dean of the faculties and a professor of law. He previously had practiced law for five years in New

York.

Ellis received a law degree from the University of Chicago in 1963 and a bachelor's degree from Maryville College in Tennessee in 1960. A former vice chair of the Board of Directors at Maryville and a recipient of its Distinguished Alumni Award, Ellis will deliver the commencement speech and receive an honorary doctorate from the college this spring.

### Wide involvement in legal community

During the past decade, Ellis also has served on numerous national committees focusing on legal education and law school facilities. He is a member of the Academic Resource Corps of the Association of American Law Schools (AALS), chaired the Committee on Law School Facilities for the American Bar Association (ABA) Section on Legal Education and has served on accreditation inspection teams for both the ABA and AALS. Additionally, he is a member of the American Law Institute, the American Law and Economics Association and the Order of the Coif. In St. Louis, he is a trustee of the Missouri Historical Society and a member of the Professional Advisory Panel of Legal Advocacy for Abused Women.

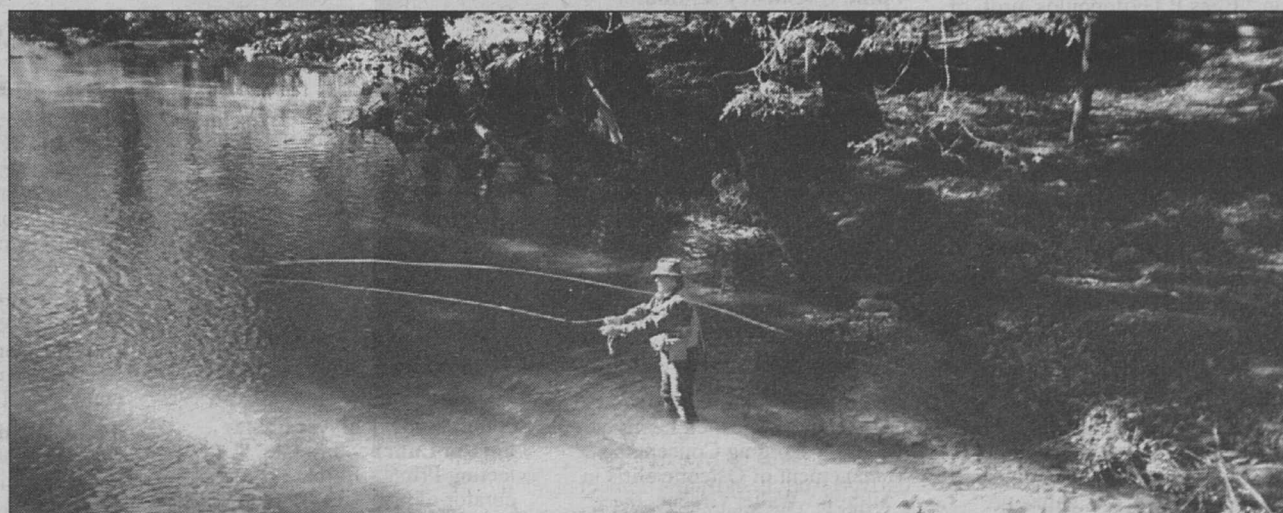
He and his wife, Sondra, have two children — Laura, a lawyer, and Geoffrey, a graduate of the John M. Olin School of Business, who has made Ellis the proud grandfather of 1-year-old Mackenzie.

Among his other interests, Ellis collects antique English and American law books and antique furniture. Once he returns to full-time teaching, his office will be furnished with an antique roll-top desk, wooden filing cabinets and wooden bookcases originally brought from January Hall to Mudd Hall by law professor Gray Dorsey. Ellis rescued a conference table dating back to 1896 from water damage at Mudd Hall; it has been restored for the dean's suite. He also has stripped and refinished an antique oak library table for his faculty office.

Looking ahead, Ellis will serve this fall as a senior research fellow at Jesus College at Oxford University and next spring as a professor in residence at Victoria University in Wellington, New Zealand.

"I'm looking forward to reading and catching up on recent developments in my areas of the law. I also will be getting a better understanding of how other nations deal with the same legal issues," he said. "And besides, New Zealand is supposed to be the fly fishing capital of the world, so I plan to catch up on that, too."

— Ann Nicholson



Cool water, brilliant sunshine and shaded seclusion — "You can't beat the setting," says Dorsey Ellis of fly-fishing, his favorite sport.



# Calendar

Visit Washington University's on-line calendar at <http://cf6000.wustl.edu/calendar/events/v1.1>

April 9-18



## Exhibitions

**"Powerful Grace Lies in Herbs and Plants: A Joint Exhibit on Herbal Medicine."** Sponsored by Missouri Botanical Garden Library and Bernard Becker Medical Library. Through August. Seventh floor, Bernard Becker Medical Library, 660 S. Euclid. 362-4235.

**"The Book Arts in St. Louis: 1898 to 1998."** Through May 22. Special Collections, level five, Olin Library. 935-5495.



## Films

### Thursday, April 9

**7:45 p.m. French and Francophone Film Series.** "La Haine" (1995). Room 162 McDonnell Hall. 935-5175.

### Friday, April 10

**7 and 9:30 p.m. Filmboard Feature Series.** "Much Ado About Nothing." (Also April 11, same times, and April 12, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

### Wednesday, April 15

**6 p.m. Chinese Film Series.** "The Story of Qiu Ju." Room 219 Ridgley Hall. 935-5156.



## Lectures

### Thursday, April 9

**11:15 a.m. Center for Mental Health Services Research lecture.** "Using STATA for Data Analysis." Michael Polgar, research associate and post-doctoral fellow. Room G38 Goldfarb Hall. 935-5687.

**Noon. Genetics seminar.** "Arthropod Morphology and the Evolution of Gene Regulatory Circuits." Lisa Nagy, molecular and cell biology dept., U. of Ariz., Tucson. Room 823 Genetics Library, McDonnell Medical Sciences Bldg. 362-7076.

**2:30 p.m. Mechanical engineering seminar.** "The Nonstatistical Entropy of Thermodynamics and Its Quantum-Theoretic Visualization." Elias P. Gyftopoulos, prof. of nuclear engineering, MIT. Room 100 Cupples II Hall. 935-6047.

**4 p.m. Assembly Series lecture.** CHIMES and Neureuther Library Lecture. Speaker is author Kurt Vonnegut. Graham Chapel. 935-5285.

**4 p.m. Chemistry seminar.** Marcus Lecture. "Advances in Drug Delivery Systems and Tissue Engineering." Robert Langer, prof. of chemical and biomedical engineering, MIT. Room 458 Louderman Hall. 935-6530.

**4 p.m. Earth and planetary sciences colloquium.** "Geology and Geophysics of the Highbury Impact Structure, Zimbabwe: A Deeply Eroded Precambrian Astrobleme in a Paleoproterozoic

Mobile Belt." Sharad Master, Harvard U. and the U. of the Witwatersrand. Room 112 Wilson Hall. 935-5610.

**4:30 p.m. Mathematics colloquium.** "Non-linear Balayage and Applications." Murali Rao, mathematics dept., U. of Fla. Room 199 Cupples I Hall. 935-6771.

### Friday, April 10

**9:15 a.m. Pediatric Grand Rounds.** Second annual Chief Residents' Visiting Professorship. "Influence of Disease on American History." Theodore E. Woodward, professor emeritus of internal medicine, U. of Md. School of Medicine, Baltimore. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology and physiology seminar.** "Bacterial Pili: Getting a Molecular Grip in Bladder Infections." Scott J. Hultgren, assoc. prof. of molecular microbiology. Room 426 McDonnell Medical Sciences Bldg. 935-6950.

**3 p.m. History/Romance languages and literatures lecture.** "Resisting the Muse: Women, Science and Poetry in Enlightenment Italy." Paula Findlen, prof. of history, Stanford U. Women's Bldg. Lounge. 935-5175.

### Monday, April 13

**Noon. Molecular biology and pharmacology seminar.** "Molecular Physiology of Voltage-gated K<sup>+</sup> Currents in the Mammalian Myocardium." Jeanne M. Nerbonne, assoc. prof. of molecular biology and pharmacology. Pharmacology Library: Philip Needleman Library, Room 3907 South Bldg. 362-2725.

**4 p.m. Biology seminar.** "Rapid Evolution of Sex-related Genes." Ursula W. Goodenough, prof. of biology and assoc. prof. of anatomy and neurobiology. Room 322 Rebstock Hall. 935-6812.

**4 p.m. European studies/history/women's studies lecture.** "Europe and Love: Aspects of Cultural History in the 1930s." Luisa Passerini, prof. of history, European University Inst., Florence, Italy. Hurst Lounge, Duncker Hall. 935-4360.

**4 p.m. Immunology Research Seminar Series.** "Molecular Mechanisms of Antigen Processing." Peter Cresswell, immunobiology dept., Howard Hughes Medical Inst., Yale U. School of Medicine. Eric P. Newman Education Center. 362-2763.

**8 p.m. School of Architecture Monday Night Lecture Series.** "Cultural Excavations: Architecture and Infrastructure." Sheila Kennedy, architect, Kennedy & Violich Architecture, Boston. Steinberg Aud. 935-6200.

### Tuesday, April 14

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "ADP-ribosylation of the Ras Protein by Pseudomonas Exoenzyme S." Joseph Barbieri, asst. prof. of microbiology, Medical College of Wisconsin, Milwaukee. Cori Aud., 4565 McKinley Ave. 362-2742.

**4 p.m. Chemistry seminar.** "Correlation of Surface Structure with Unique Chemistry of Nanocrystalline TiO<sub>2</sub>." Tijana Rajh, chemist, Argonne National Lab. Room 311 McMillen Lab. 935-6530.

### Wednesday, April 15

**6:30 a.m. Anesthesiology Grand Rounds.** "Pulmonary Hypertension and Vascular Remodeling." Deborah Shure, assoc. prof. of medicine. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

**7:30 a.m. Orthopaedic surgery lecture.** Distinguished Lecturer Series. "Changing Concepts in Management of Osteomyelitis in Children." Walter Greene, the J. Vernon Luck Professor and chair of orthopaedic surgery,

UM-Columbia. Scarpellino Aud., first floor, Mallinckrodt Inst. of Radiology, 510 S. Kingshighway Blvd. 747-2803.

**8 a.m. Obstetrics and Gynecology Grand Rounds.** "Breast Disease Screening and Diagnosis." Barbara S. Monsees, prof. of radiology, and Gerard M. Doherty, asst. prof. of surgery and dir., breast care service. Clopton Aud., 4950 Children's Place. 362-7139.

**11 a.m. Assembly Series lecture.** Benjamin E. Youngdahl Lecture in Social Policy. Paul Simon, former U.S. senator and dir., Public Policy Institute, SIU-Carbondale. Graham Chapel. 935-5285. (See story at right.)

**3:45 p.m. Physics colloquium.** "Careers for Physicists: Old and New Realities." John S. Rigden, dir. of special projects, American Inst. of Physics. Room 204 Crow Hall. 935-6252.

**4 p.m. Biochemistry and molecular biophysics seminar.** "Functional Mapping and Protein Engineering of Thrombin." Lawrence Leung, assoc. prof. of hematology, Stanford U. Medical School. Cori Aud., 4565 McKinley Ave. 362-0261.

**6 p.m. Germanic languages and literatures/Center for Contemporary German Literature lecture.** "Literatur als Endspiel — Ein Thema, Zwei Variationen (Thomas Mann, Bert Brecht)." Reinhard Baumgart, the Max Kade Writer in Residence. (Lecture is in German.) Hurst Lounge, Duncker Hall. 935-5106.

### Thursday, April 16

**Noon. Genetics seminar.** "Physical Mapping Projects — Large and Small: 1p—Critical Region to Whole Chromosomes." John D. McPherson, asst. prof. of genetics. Room 823 Genetics Library, McDonnell Medical Sciences Bldg. 362-7076.

**4 p.m. Biology seminar.** "Functional Integration, Constraint and the Evolution of Phenotypic Stability." Kurt Schwenk, dept. of ecology and evolutionary biology dept., U. of Conn. Sponsored by the Graduate Program in Evolution and Population Biology. Room 322 Rebstock Hall. 935-4656.

**4 p.m. Chemistry seminar.** "The Dynamics of Organic Reactive Intermediates." Barry Carpenter, prof. of chemistry, Cornell U. Room 311 McMillen Lab. 935-6530.

**4:15 p.m. Philosophy colloquium.** "Of Conspiracy Theories." Brian Keeley, McDonnell Post-doctoral Fellow. Room 110 January Hall. 935-6640.

**4:30 p.m. Mathematics Roeber Colloquium.** "Solution Equations and Differential Geometry." Chuu-Lian Terng, prof. of mathematics, Northeastern U., Boston. Room 199 Cupples I Hall. 935-6302.

**7:30 p.m. Feminist reading group.** Discussion of Audre Lorde's "Sister Outside" and "The Cancer Journals." Open to faculty and graduate students. 6150 McPherson. 935-5102.

### Friday, April 17

**9:15 a.m. Pediatric Grand Rounds.** "Street Drugs: What's New ... What's Out There." Robert A. Wiebe, the Sarah M. and Charles E. Seay Distinguished Chair in Pediatric Medicine and prof. of pediatrics, U. of Texas Southwestern Medical Center, Dallas. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology and physiology seminar.** "How Fertilization Specifies the Dorsal-ventral Axis in Xenopus Embryos." Randall T. Moon, pharmacology dept., U. of Wash. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

**Noon. Gallery of Art Friday Forum Luncheon Series.** "Collecting Prints." Barbara Butts, curator of prints and drawings, The Saint Louis Art Museum. Cost: \$15. Gallery of Art. 935-4523.

## Paul Simon to deliver Youngdahl lecture April 15

Paul Simon, former Democratic senator from Illinois, will deliver the Benjamin E. Youngdahl Lecture in Social Policy at 11 a.m. Wednesday, April 15, in Graham Chapel as part of the Assembly Series. The lecture is free and open to the public.

Simon is director of Southern Illinois University-Carbondale's (SIU) Public Policy Institute, which he established shortly after his retirement from the United States Senate, and teaches political science and journalism at SIU.

In the Senate Simon was known as a strong proponent of education. He was responsible for the National Literacy Act, the School-To-Work Opportunities Act, amendments to the Job Training Partnership Act and the 1994 reauthorization of the Elementary and Secondary Education Act. He was a major force behind the student loan program.

Simon began his professional career as a journalist and at the age of 19 became the nation's youngest editor-publisher when he accepted a Lion's Club challenge to save the Troy (Ill.) Tribune. Simon used the Tribune to expose syndicate gambling connections in Madison County and in 1951, at age 22, was called as a key witness to testify before the U.S. Senate's Crime Investigating Committee. From 1951 to 1953, he served in the U.S. Army and was assigned to the Counter-Intelligence Corps as a special agent along Europe's Iron Curtain.

Simon has written 16 books and has received 46 honorary degrees.

The annual Benjamin E. Youngdahl Lecture on Social Policy honors Benjamin E. Youngdahl, dean of the George Warren Brown School of Social Work from 1945 to 1962.

For more information, call 935-5285.



Paul Simon

### 3 p.m. East Asian studies lecture.

Fifth annual Stanley Spector Lecture on East Asian History and Civilization. "The Cultural Foundation of Asian Nationalism." Lucien W. Pye, the Ford Professor of Political Science, emeritus, MIT. Room 110 January Hall. 935-4448.

**4 p.m. Mathematics geometry colloquium.** "Integrable Systems and Group Actions." Chuu-Lian Terng, prof. of mathematics, Northeastern U., Boston. Room 115 Cupples I Hall. 935-6302.



## Performances

### Friday, April 17

**8 p.m. OVATIONS! Series performance.** "Ubu Roi." Puppet-theater specialists Hystopolis Productions presents Alfred Jarry's 1888 absurdist spoof. (Also April 18, same time.) Cost: \$23. Edison Theatre. 935-6543. (See story on page 5.)



## Miscellany

### Thursday, April 9

**9:30 a.m.-3:30 p.m. Electronic products demonstration.** "The E Files: The Answer is Out There." Sponsored by Bernard Becker Medical Library. Library Atrium, Bernard Becker Medical Library. 362-7085.

**1 p.m. Writing Center workshop.** "Writing a Resume." Presented in collaboration with the Career Center. Room 252 Olin Library. To register, call 935-4981.

**8 p.m. Writing Program fiction reading.** Author Lynne Sharon Schwartz, visiting writer in residence, will read from her novel in progress. Hurst Lounge, Duncker Hall. 935-7130.

### Sunday, April 12

**Hillel Center events.** Nightly music and comedy performances through April 17. Hillel Center, 6300 Forsyth Blvd. For schedule of performances, call 726-6177.

### Tuesday, April 14

**7 p.m. Les-Gay-Bi-Trans reading and discussion group.** "AIDS and Community: Responses to the Epidemic." Room 197 Olin Library. 436-7726.

**8 p.m. Writing Program fiction reading.** Author Amy Hempel, visiting prof., will read from her new work. Hurst Lounge, Duncker Hall. 935-7130.

### Wednesday, April 15

**7 p.m. Writing Center workshop.** "Writing Essay Exams." Staff Conference Room, fourth floor, Olin Library. To register, call 935-4981.

**8 p.m. African and Afro-American studies/Creative Writing Program poetry reading.** Coleen J. McElroy, prof. of English, U. of Wash., will read from her works. Hurst Lounge, Duncker Hall. 935-5690.

### Thursday, April 16

**3 p.m. Dedication of Mary Wickes Memorial Fund.** Sponsored by University Libraries and the College of Arts and Sciences. Women's Bldg. Formal Lounge. 935-5487.

**6-9 p.m. The 15th annual St. Louis PRINTMARKET gala preview party.** More than 25 dealers from throughout the country display prints and other works on paper. Cost for preview: \$50; \$35 for those younger than 35. (PRINTMARKET continues April 17-19, 10 a.m.-5 p.m. Cost: \$5; \$2 for students.) Proceeds benefit the Gallery of Art. Upper and lower galleries, Gallery of Art. 361-3737. (See story on page 5.)

### Friday, April 17

**Business, Law and Economics Center/Center in Political Economy conference.** "Experimental Economics Research on Bargaining and Learning." (Continues through April 19.) Open to the University community. Room 104 Simon Hall. To register, call 935-4183.

### Saturday, April 18

**10 a.m.-5 p.m. Bookarts Market.** Book and paper arts, supplies and demonstrations. Bixby Hall. 935-4643.



## Array of fine art available at gallery event April 16-19

Experienced and first-time art collectors alike will discover an extraordinary array of fine prints and other works on paper at the 15th annual St. Louis PRINTMARKET April 16-19 at the Gallery of Art.

One of the most prestigious events of its type in the Midwest, the St. Louis PRINTMARKET features more than 25 top print dealers from around the country displaying some of the finest quality work available, including old master prints, photographs, antique maps, Australian Aboriginal prints, Americana, Japanese woodblock prints, historical posters and contemporary works from internationally known artists.

Regular hours are 10 a.m.-5 p.m. April 17, 18 and 19. General admission is \$5, \$2 for students. In addition, the Gallery of Art will host a gala preview party, featuring music by jazz pianist Pat Joyce, from 6 to 9 p.m. Thursday, April 16. Tickets to the preview are \$50 per person and \$35 for those younger than 35.

Increasing audiences and a growing national reputation have led this year's PRINTMARKET to expand its offerings, noted chair and founder Cecile Lowenhaupt. "PRINTMARKET has begun to attract a significant number of curators, architects, interior designers and other professionals who find it more convenient to attend during the business day," Lowenhaupt explained. "In order to help accommodate them, we're opening a little earlier in the week ... and are staying open longer."

In addition, since many young and first-time collectors get their start with fine art prints, the Gallery of Art will sponsor a talk on "Collecting Prints" by Barbara Butts, curator of prints and drawings at The Saint Louis Art Museum. The talk will take place at noon April 17 in the Gallery of Art and is presented as part of the Gallery's Friday Forum Luncheon Series. Cost for the

luncheon is \$15. For information on the luncheon, call 935-4523.

Returning favorites and the addition of new dealers will make 1998's PRINTMARKET the largest since the event's founding in 1983, Lowenhaupt added.

Antique lovers will discover a wealth of historic prints, maps and architectural drawings from galleries in St. Louis, Denver, New Orleans and Philadelphia. Antique posters are offered by Art Farago Associates of New York; Kenyon Oppenheimer Inc. of Chicago returns with an extensive display of John James Audubon prints.

Collectors of 20th-century art will find a vast array of works by modern and contemporary masters. Austral Gallery of St. Louis will offer contemporary prints and photographs from Australia, including the work of Aboriginal artists, and Tobai International of Chicago returns with a selection of Asian Prints.

The PRINTMARKET provides audiences an opportunity to select from some of the best art available anywhere, said Lowenhaupt. "It's a chance for people to learn about collecting by talking with the dealers, and there is something for every taste and pocketbook," Lowenhaupt said.

Proceeds from the PRINTMARKET go to support the Gallery of Art. Past proceeds have helped underwrite nationally recognized exhibitions and the acquisition of new works.

Joseph D. Ketner, director of the Gallery of Art, said the gallery is delighted to be the host and beneficiary of the PRINTMARKET for an eighth year. "The exceptional quality and variety of the work presented here make PRINTMARKET one of the finest print shows in the Midwest, if not the nation," Ketner said. "For anyone interested in the visual arts, this is a truly special and unique event and should not be missed."

For more information, call 361-3737.



OVATIONS! brings the biting satire of Alfred Jarry's 1888 play "Ubu Roi" to the Edison stage April 17 and 18 in a new version from Hystopolis Productions of Chicago.

## Absurdist spoof comes to Edison

Part avant-garde masterpiece, part schoolboy prank, Alfred Jarry's 1888 absurdist spoof "Ubu Roi" comes to Edison Theatre April 17 and 18 in a new version by Hystopolis Productions, a Chicago-based company that specializes in puppet theater for adult audiences.

Performances are at 8 p.m. both days and are sponsored by Edison Theatre's OVATIONS! Series. Parents should note that the play is specifically intended for adults and that it contains language and situations not appropriate for children.

"Ubu Roi" tells the tale of King Ubu, an oafish, vulgar and idiotic military man who, along with his equally malevolent wife, Ma Ubu, conceives a farcical plot to assassinate the king of Poland. The work was revolutionary in its day, both for its critique of despotism and for flouting all manner of linguistic and theatrical convention, and

scandalized its original audience. In later years, however, it was re-discovered by the surrealists, who canonized it as a perfect satire of bourgeois values, and, in the 1960s, it became an inspiration for the Theater of the Absurd movement.

Jarry, who wrote "Ubu Roi" at age 15, said the play began as a parody of a particularly nasty teacher, a man who represented "everything in the world that is grotesque." Over the years, however, Jarry's wicked satire has often been seen in political terms. In its own day, hostile critics linked the play's anarchist spirit to a series of terrorist bombings then plaguing Paris, while modern audiences enjoy a wealth of despots with whom to compare the title character. (Since the fall of Nicolae and Elena Ceausescu, the play has enjoyed a renewed popularity in Romania.) Jarry, however, saw his work in universal rather than

specific terms, insisting that Ubu was simply a reflection of our worst selves, a comic distillation of "eternal human imbecility, eternal lust, eternal gluttony, the vileness of instinct magnified into tyranny ..."

Though originally intended as a puppet show, for the past 100 years, "Ubu Roi" has most often been performed with live actors. The new version by Hystopolis Productions returns the work to its roots. Using life-sized puppets that seem twisted cousins to both "The Muppets" and the alien creatures in "Star Wars" (the production received funding from the Jim Henson Foundation), Hystopolis seeks to recapture the work's exuberant spirit.

Tickets are \$23 for the general public. Call for discounts. Tickets are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. For more information or for information regarding pre- and post-show discussions, call 935-6543.

## Sports

Compiled by Mike Wolf, asst. athletic director for media relations, and Kevin Bergquist, asst. director, sports information. For up-to-date news about Washington University's athletics program, access the Bears' Web site at [rescomp.wustl.edu/~athletics/](http://rescomp.wustl.edu/~athletics/).

### Women extend winning streak

The women's tennis team extended its overall winning streak to a season-best five matches and its winning spree over NCAA Division III teams to seven matches with a weekend sweep. The Bears defeated Wheaton (Ill.) College (6-3) and Nebraska Wesleyan U. (9-0) and have not lost to a Division III foe in almost a month. Freshman Keli Leaf won both of her matches at No. 4 singles, and fellow rookie Dayna Morris posted her first collegiate victory at No. 5 singles (6-1, 6-0) vs. Nebraska Wesleyan.

Current Record: 9-4

This Week: 3:30 p.m. Friday, April 10, vs. Hope College, Tao Tennis Center; 1 p.m. Saturday, April 11, vs. U. of Chicago, Tao Tennis Center.

### Men's tennis wins

The men's tennis team upped its season record to 14-4 with three more victories last week. The Bears defeated a pair of NCAA Division II schools, U. of Missouri-St. Louis (9-0) and U. of

Missouri-Rolla (6-1), and Division III foe Nebraska Wesleyan University (9-0). A 4-3 loss to regionally ranked Illinois Wesleyan University, however, slowed the Bears' chances of gaining an NCAA postseason berth next month.

Current Record: 14-4

This Week: Friday, April 10, through Sunday, April 12, at U. of Illinois-Springfield Invitational, Springfield, Ill.

### Runners at meet

The women's track and field team placed fourth and the men's squad finished ninth Saturday at the Northwest Missouri State U. (NMSU) Invitational. Junior Emily Richard won the 10,000 meters in 36 minutes, 09.00 seconds, an NCAA Division III automatic qualifying time and an NMSU meet record. Richard bested the second-place finisher by more than two minutes. Sophomore Tim Julien placed second in the men's 10,000 meters with a time of 31:38.00.

This Week: 11 a.m. Saturday, April 11, Bears host Washington University Invitational, Bushyhead Track and Francis Field.



### Handing out the hoop hardware

Senior captain Amy Schweizer accepts the NCAA Division III women's basketball championship trophy from Chancellor Mark S. Wrighton Friday, April 3. Held in The Gargoyle due to rain, the campuswide celebration of the Bears' recent victory attracted more than 500 well-wishers.

### Baseball 3 and 3

The Bears were unable to hold on to a 5-1 lead over DePauw U. and fell to the Tigers 13-8 to conclude a 3-3 week. Junior first baseman Greg Davis batted .500 and had 10 RBIs in the Bears' six games. Senior pitcher Thor Larsen, seeking his 22nd career victory,

was forced to leave the DePauw game with an injury with two outs in the fifth inning with the Bears in front by four runs.

Current Record: 13-10

This Week: 1 p.m. Thursday, April 9, vs. Maryville U. (2), Kelly Field; 1 p.m. Friday, April 10, at Greenville (Ill.) College (2).

### 'Now pitching ... Nancy Fahey'

You won't find it in the box score, but the first strike of the 1998 baseball season was not thrown by the St. Louis Cardinals' opening day starting pitcher Todd Stottlemire.

At 3:01 p.m. Tuesday, March 31 — nine minutes before Stottlemire's first official delivery — Nancy Fahey reached back and sizzled a strike belt-high right over the heart of the plate amidst 50,000 red-clad fans at Busch Stadium.

Fahey got the ceremonial first-pitch call from the Cardinals after leading the Washington University women's basketball team to the NCAA Division III national championship three weeks ago.

In a salute to St. Louis' other title-winning basketball teams, Fahey's catcher was hall-of-famer Ed Macauley, who played both for Saint Louis University's 1948 National Invitational Tournament champions and the St. Louis Hawks' 1958 National Basketball Association titlists.

"What's your repertoire?" Macauley asked Fahey as the two waited together on the warning track behind home plate throughout the pregame pomp and circumstance.

"How about my 'over-the-plate' pitch?" Fahey deadpanned. Moments later, she responded to announcer Jack Buck's beckoning and, from the front edge of the pitcher's mound, provided a perfect start to one season — and a storybook ending to another.



# University lab blazing trail toward 'wired world' — from page 1

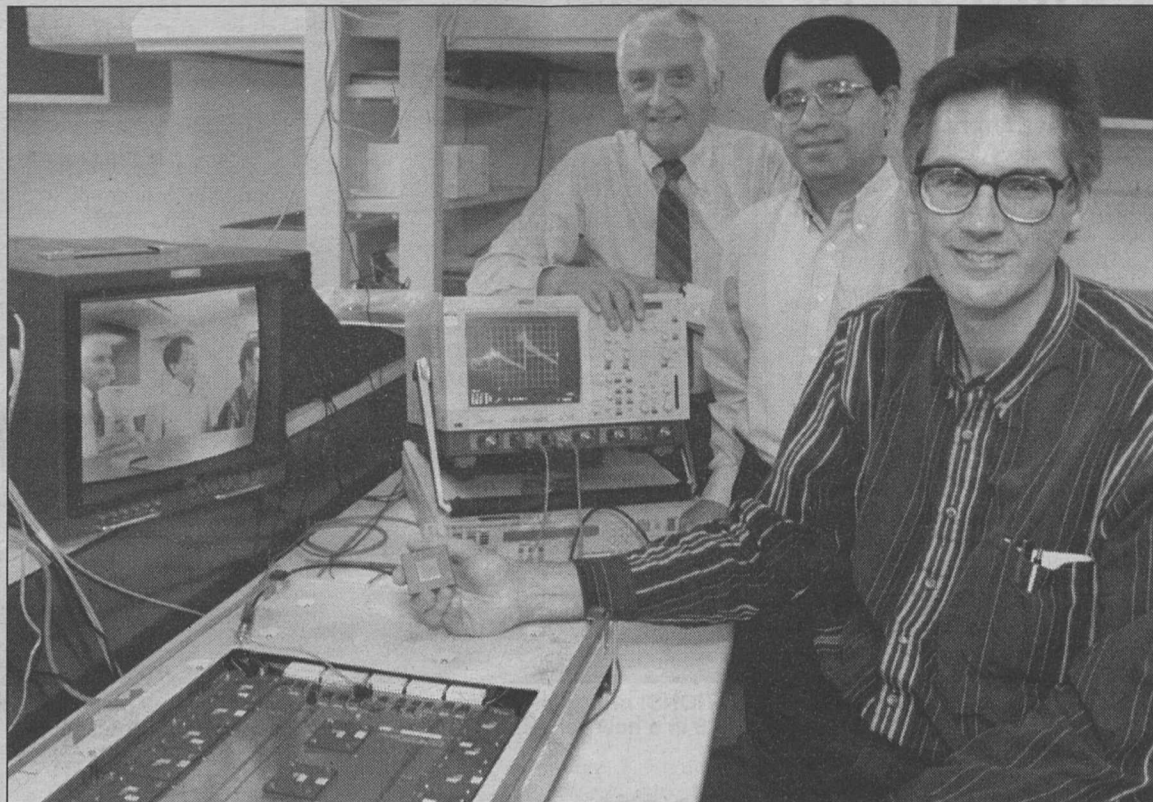
was the first effort. It sought to prototype an advanced switch using a technology known as asynchronous transfer mode (ATM). In the field of telecommunications, ATM refers not to fast cash but to a means of moving large volumes of data quickly through networks. It is a switching and transmission technique based on the concept of carrying information in small, fixed-sized units called cells for efficient transport of multimedia — audio, video, data — information. Whereas a bank ATM slaps cash into your hand after you punch a few buttons, the other ATM delivers text and visual images onto PCs and workstations at rapid speed and in sharp resolution.

ATM discoveries and advancements have been one of the major ARL activities since the laboratory's founding. A booming technology, ATM is used by many institutions and utilities, including NASA, Boeing Corp., NationsBank and the Internet. Telecom giants such as Sprint and MCI rely heavily on ATM technology.

But ATM technology is just part of the ARL's work.

According to Guru M. Parulkar, Ph.D., professor of computer science and ARL director, the 14 researchers and 15 graduate students in the laboratory are involved with every aspect of the data and telecommunications revolution. ARL designs and fabricates everything from microelectronic chips and ATM switches to Internet routers, multimedia workstations and applications development.

"A network in simple terms," Parulkar said, "consists of three components — routers or packet



Applied Research Laboratory (ARL) engineers (from left) Jerome R. Cox, Sc.D., Guru M. Parulkar, Ph.D., and Jonathan S. Turner, Ph.D., gather around a super-fast switch in the fourth floor of Bryan Hall. The TV monitor brings up smooth, real-time images of the three from a camera attached above the screen, a prime example of the distance telecommunication breakthroughs the ARL is achieving.

switches, which distribute data; a network with fiber optic or satellite links; and finally the host, or end system, generally a workstation, TV or computer. In every one of these areas, we're building systems, not doing simply theoretical work. The applications here now and soon to be here are amazing, and we're working to make these applications better and hasten their entrance into the marketplace.

"The range of applications and the number of users are growing astoundingly fast," Parulkar went

on. "Until just recently you had standard broadcast television and telephone applications, and on computers, you did Web browsing and e-mail. With the increase in users and applications of all sorts, just like the highway interchanges that connect busy highways, the switches connecting the network links must be bigger and faster."

To help remedy the switching problem, Parulkar's colleague Turner and the ARL staff are working on modifying ATM components that will increase network transmission and switch-

ing capacity from the gigabit (one billion bits) per second range to the terabit (one trillion bits) per second range.

Parulkar, Cox and their ARL colleagues have been developing a "super" chip that will allow computers to connect to ATM networks at 1.2 gigabits per second, which is the highest speed so far for such connections. Last year, the National Science Foundation decided to support a multiyear, multimillion dollar grant to share ARL's gigabit ATM technology with more than 30 other academic

and research groups nationwide.

Cox and James G. Blaine, Ph.D., professor of radiology in the School of Medicine, are applying Project Zeus technology to the Medical Center's Project Spectrum, where an ATM multimedia network between primary care offices, community hospitals and specialists at the Medical Center will allow communication among physicians throughout the BJC health care system, providing instant access to patient data, X-rays and other radiological images and medical video on their screens.

Project Zeus has matured on campus to allow investigators with exceedingly large requirements for digital image processing and storage to link to resources wherever they may be on campus. Work in brain mapping and 3D imaging of living organisms, for instance, now benefit from this capability.

ARL is approaching its 10th birthday and has accomplished much. Today, with 14 full-time staff and 15 graduate students, it is large by University standards but tiny by the industrial benchmark, and yet it has a worldwide reputation for innovation and contributions to networking theory and practice.

"ARL is a unique asset for both the University and the St. Louis community," said Catalin Roman, Ph.D., professor and chair of computer science. "Its innovations contribute to pushing the technological envelope in the communications area and create an environment that is ripe for the emergence of significant entrepreneurship activities centered around Washington University. St. Louis companies that rely on communication technology can turn their proximity to ARL into a competitive advantage."

— Tony Fitzpatrick



Architecture graduate students Tomislav Zigo and Monica Moore discuss their winning design for a marker for the Forest Park Southeast Neighborhood with Gene Kilgen (right), executive director of the Washington University Medical Center Redevelopment Corp.

## Students design neighborhood marker — from page 1

Architecture, and Jacqueline Tatom, visiting assistant professor of architecture, were invited to submit design proposals. The criteria required that the marker be "bold and distinctive, create a specific feeling of character for the neighborhood, not require maintenance or upkeep, and be made of materials that would weather gracefully."

Gene Kilgen, executive director of the WUMC Redevelopment Corp., and two other representatives of the neighborhood selected five designs from the 15 created by students. The architecture students who designed these final five markers then gave presentations on their work to a committee of neighbors, who ultimately selected the winning design.

"The designs were all excellent," Kilgen said. "The choice of the winning design was in large part due to its low wall that is reminiscent of the entryways to some of the residential streets in the neighborhood. We also felt the monument was attractive and unusual, and the addition of the bus shelter was very special."

Kilgen said it is appropriate for the neighborhood to erect a new marker because it is involved in an overall revitalization effort funded by a \$2.4 million U.S. Housing and Urban Development grant.

The next step will be for the students to fine-tune their designs and come up with a cost estimate, Kilgen said. The nearly finalized project would then be presented at an overall neighborhood meeting prior to construction. Funding

would come from donations by neighborhood businesses. If all goes well, the marker could be built by the end of this summer, Kilgen said.

Noero said the contest allowed the students to test their design skills while directly benefiting a neighboring community.

"The students were able to take their designs from the studio and connect with the real world by working with real clients on a real project — an experience that is greatly desired in the studio," he said.

"The project also gave the community more than a dozen fresh and intriguing designs to choose from, which they would never have gotten from working with one designer," Noero added.

— Ann Nicholson

## Bon Appetit firm chosen — from page 1

comprised of University administrators and students reviewed the proposals and interviewed each of the firms as part of the process. College campuses currently served by the three companies were visited as well. The overall strength of Bon Appetit's proposal won it the contract.

Marriott Food Services has held the University contract since 1983. Marriott's approximately 100 production and service employees who work at the University will be retained for six months and are invited to interview for positions with Bon Appetit.

"It is our intent that existing employees be given every opportunity to remain provided they accept the Bon Appetit philosophy and are successful and contributing members of the team," said Steven P. Hoffner, assistant vice chancellor for operations. Pay scale would remain the same or increase slightly, Hoffner said. "We don't know of any case in which someone would take a pay cut," he said.

With the selection of Bon Appetit, the University community will see a number of changes evolve during the next several months. New dining concepts and

formats will be introduced in existing locations on campus. Bon Appetit will employ several professional chefs at the University, and menu choices will be expanded. Greater emphasis will be placed on providing healthy and nutritional options and offering more vegetarian variety. In addition, the company will ensure that the diverse catering needs of student groups and academic departments are met.

"Bon Appetit has the capability to take us to higher levels of satisfaction with respect to the important role that food service operations play in the fabric of University life," said Hoffner, who will serve as the University's contract administrator. "Change will not occur overnight, but I think the campus community will be excited by the introduction of new menu items and the overall quality of preparation and presentation."

With the transition process already under way, Bon Appetit is expected to name its Washington University management team within the next thirty days. Anyone with questions concerning catered events occurring after July 1 may call 935-4316.

## Campus Watch

The following incidents were reported to University Police from March 30–April 5. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at <http://rescomp.wustl.edu/~wupd>.

### March 30

3:32 p.m. — A student reported that a Rolex watch valued at \$3,000 was stolen from a coat pocket at Stix International House.

### April 2

1:17 p.m. — A student reported the theft of a backpack from an unlocked room in Umrath Resi-

dence Hall. The contents were valued at \$860.

5:40 p.m. — A student reported the theft of a wallet, key and class ring, together valued at \$456, from the Athletic Complex.

University Police also responded to seven additional reports of theft, one report of vandalism and one report of fire.



# For The Record

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

## Of note

**Gerard M. Doherty, M.D.**, assistant professor of surgery, has received a five-year \$545,999 grant from the National Cancer Institute for a project titled "Interferon Gamma and Tumor Growth." ...

**Steven Heston, Ph.D.**, assistant professor of finance, recently won first prize in the Roger Murray Prize Competition for 1997, which is sponsored by the Institute for Quantitative Research in Finance, known as The Q-Group. The prize, which included \$5,000, was based on his research paper "Option Pricing with Infinitely Divisible Distributions," funded by the group. The paper, which Heston presented at the group's recent semi-annual meeting in Arizona, contains option formulas that depend on volatility and skewness and are useful for valuing and hedging options.

## On assignment

**George J. Hruza, M.D.**, associate professor of medicine (dermatology), of surgery and of otolaryngology, has been elected to the board of directors of the American College of Mohs Micrographic Surgery and Cutaneous Oncology. ...

**Jeffrey E. Kalina, M.D.**, instructor in medicine, has been appointed Physician Adviser to the St. Louis Fire Department. In this capacity, Kalina will be responsible for overseeing the medical treatment procedures and emergency medical services provided by paramedics, emergency medical technicians and first responders of the fire department. ...

**Barbara A. Schaal, Ph.D.**, professor and chair of the Department of Biology in Arts and Sciences, recently was elected to a three-year term as a trustee of the Academy of Science of St. Louis. The academy serves as a community resource by acting as a forum for collaboration among science-related

organizations; by promoting exchanges among scientists, teachers, students and the public; and by supporting science education. ...

**William E. Wallace, Ph.D.**, associate professor of art history and archaeology in Arts and Sciences, has been appointed as the Robert Sterling Clark Professor in Residence at Williams College in Williamstown, Mass., for the 1998 spring semester.

## Speaking of

**Elizabeth Spicer**, a master of arts candidate in the Performing

Arts Department in Arts and Sciences, recently was a guest speaker at the Southeastern Theatre Conference held in Birmingham, Ala. Spicer spoke on the identity of the undergraduate actor in performance. She also was appointed chair of the group's New Play Committee.

## To press

**Stanton Braude, Ph.D.**, lecturer and visiting assistant professor in biology in Arts and Sciences, recently had a piece titled "The Predictive Power of Evolutionary

Biology and the Discovery of Eusociality in the Naked Mole-rat" featured as the cover article in the publication Reports of the National Center for Science Education.

## Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a description of your noteworthy activity, to For The Record, c/o David Moessner, Campus Box 1070, or e-mail David\_Moessner@aismail.wustl.edu. Items must not exceed 75 words. For information, call 935-5293.

# Obituaries

## John T. Biggs Jr., associate professor of clinical psychiatry

**John T. Biggs Jr., M.D.**, associate professor of clinical psychiatry in the School of Medicine, died of lymphoma Thursday, April 2, 1998, at his home in Ladue. He was 56.

Biggs was a respected psychiatrist in the St. Louis medical community, caring for patients with severe and chronic psychiatric disorders. Colleagues say he was willing to take on the sickest patients, who often are the most difficult to treat.

"He was well-respected for his tremendous work ethic and his dedication to the patients for whom he cared," said Charles F. Zorumski, M.D., professor and head of the Department of Psychiatry at the medical school. "There's no doubt that he's going to be deeply missed not only by his patients but also by his colleagues in our field."

Biggs came to the University in 1971 as a resident in psychiatry. He joined the faculty in 1974 as an assistant professor of psychiatry. During the next three years, he conducted landmark studies on blood levels of tricyclic antidepressants. In 1974, he left his full-time

position to set up a private practice but continued his teaching duties, becoming an associate professor of clinical psychiatry in 1979. Although he served on the staff of several hospitals, Biggs was affiliated chiefly with Barnes and Jewish hospitals, where he was a staff member for 26 years.

He also collected Chinese artifacts and owned an antiquity business called Petit Musée.

Born in Willard, Mo., Biggs obtained a bachelor's degree in chemistry in 1963 from Drury College in Springfield, Mo., and a master's degree in pharmacology in 1965 from the University of Tennessee in Memphis. After receiving a medical degree from the latter institution in 1968, he served an internship at Parkland Hospital in Dallas.

Survivors include his wife, Nancy Biggs; three children, Andrew, 14, Emily, 13, and John, 11, all of Ladue; and his parents, John and Dorcas Biggs of Willard.

A funeral service was conducted Monday, April 6, followed by burial in St. Paul Churchyard cemetery.



## Pow wow

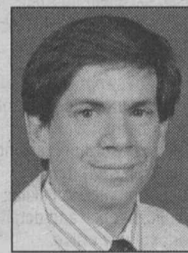
**Two American Indian students from the George Warren Brown School of Social Work (GWB), Tracy Clark (standing) and Deanna Dick (right), share cultural traditions and activities with second-graders from Forsyth School on March 30 in the Brown Hall Lounge. Clark, a Chippewa, and Dick, a Muskogee Creek and Cherokee, were taking part in a six-day celebration of American Indian Awareness Week hosted by GWB's Kathryn M. Buder Center for American Indian Studies.**

# News Analysis

News Analysis contains excerpts from the For Expert Comment service. The service, which provides timely faculty comments to media across the country, is distributed by the Office of University Communications.

## Proposed organ donation by death row inmates medically risky, coerced and immoral, expert says

*Missouri State Rep. Chuck Graham, D-Columbia, has introduced the "Life for a Life" proposal (HB 1670) to allow prisoners to have death sentences commuted to life without parole after donating a kidney or bone marrow. Jeffrey A. Lowell, M.D., assistant professor of surgery and of pediatrics at the School of Medicine, argues against this proposal and states that better options exist.*



**M**ore than 55,000 people are currently awaiting a heart, lung, liver or kidney transplant in the United States. Every three hours, someone on a waiting list dies without the benefit of transplantation.

But as a transplant surgeon, I must strongly argue against "Life for a Life." Why? Even now, most transplant programs in the United States decline organs from prisoners. Unfortunately, prisoners carry a significant potential risk of having transmissible illnesses such as HIV or hepatitis. One of the most important methods to screen potential donors in addition to lab tests is a thorough and accurate social history. No blood test rules out the presence or absence of these viruses with 100 percent accuracy.

Can we assume a voluntarily provided social history is reliable if it, in effect, has the potential to save the donor's own life? I don't think so. The pressure for prisoners to hide risk factors for disease would be overwhelming. As a result, transplant recipients would be placed at significant risk.

In addition, the buying or selling of organs in

the United States is illegal — and certainly is immoral. This practice has been condemned by every recognized transplant organization worldwide. Although the "letter of the law" may not be violated in this bill, clearly the spirit is. Organ donation must be a purely altruistic, voluntary offering. There can be no coercion or secondary gain. But the implicit message behind the "Life for a Life" proposal is: "I'll save you, if you spare me."

Educational programs to explain the donor process and other initiatives to promote organ donation need our support. We also need to address the family's role in donor decisions. In parts of Europe, all citizens are considered potential organ donors at the time of death unless otherwise stated. But in America, consent must be obtained from a potential donor's family at the time of death even with an appropriate donor card. More than 75 percent of potential organ donors do not donate — most commonly because their families decline. If this could be reversed, we would not need to coerce a few death row inmates. Other efforts to encourage donation also should be pursued, such as providing short-term disability benefits for living donors during recuperation from surgery.

If the essence of this bill is to promote organ donation, then I call upon its supporters to educate the legislature about such practical measures. We all should lead by example by volunteering to donate organs and taking this message to constituents. Society must make this a priority.

## Hilltop faculty members receive tenure

The following Hilltop Campus faculty members have received tenure via promotion or appointment during the current school year. The effective date for each is July 1, 1998, unless otherwise noted.

### Promotion with tenure

**Stuart A. Banner, J.D.**, to professor of law

**Michael J. Byron** to associate professor of art

**Elizabeth C. Childs, Ph.D.**, to associate professor of art history and archaeology in Arts and Sciences

**Rebecca L. Copeland, Ph.D.**, to associate professor of Japanese languages and literatures in Arts and Sciences

**Robert K. Henke, Ph.D.**, to associate professor of drama in Arts and Sciences (also associate professor of comparative literature in Arts and Sciences)

**Steven J. Meyer, Ph.D.**, to associate professor of English in Arts and Sciences

**Curtis J. Milhaupt, J.D.**, to professor of law

**John H. Nachbar, Ph.D.**, to associate professor of economics in Arts and Sciences

**Stephan K. Schindler, Ph.D.**, to associate professor of Germanic languages and literatures in Arts and Sciences

**Robert D. Tucker, Ph.D.**, to associate professor of earth and planetary sciences in Arts and Sciences

**Leila S. Wexler, J.D., LL.M.**, to professor of law

### Granting of tenure

**Glenn D. Stone, Ph.D.**, as associate professor of anthropology in Arts and Sciences

### Appointment with tenure

**Jane H. Aiken, J.D.**, as professor of law

**Manju V. Hegde, Ph.D.**, as associate professor of electrical engineering (effective Sept. 26, 1997)

**Hill J. Kieval, Ph.D.**, as professor of history in Arts and Sciences



# Opportunities & personnel news

## Hilltop Campus

Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130, at West Campus. Job openings may be accessed via the World Wide Web at [cf6000.wustl.edu/hr/home](http://cf6000.wustl.edu/hr/home). If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at 935-9836. Staff members may call 935-5906.

**Business Manager/Assistant to the Dean 980231.** *University College.* Requirements: bachelor's degree, master's preferred; knowledge of accounting and data management; administrative experience and supervisory ability; knowledge of University procedures. Responsibilities include directing the financial operations of University College and Summer School and office management.

**Database and Systems Engineer 980232.** *Earth and Planetary Sciences.* Requirements: master's in engineering, computer science or a physical science; at least three years experience with Unix and PC-based systems; proficiency in C and Fortran; familiarity with commercial database and graphics packages; proficiency with failure diagnostics, computer systems management, installation and maintenance of computer and network hardware and software; experience with digital image processing desirable.

**Manager of Personal Computing Support 980234.** *Business School.* Requirements: bachelor's degree in business, computer science, engineering or related field; two years experience with Windows NT, Apple Macintosh, MS DOS, Windows 95, Windows 3.1 and Novell platform; experience with supporting a large number of application programs for general purpose computing including spreadsheets, word processors, databases, graphics, presentations and statistics; knowledge of Microsoft Backoffice, especially MS Exchange server; knowledge of computer programming and data communications; ability to learn new computing tools quickly; demonstrated customer service orientation and skills.

**Administrative Accounting Assistant 980235.** *Center for Technology Management.* Requirements: high school education. Responsibilities include serving as principal contact person for issues or problems arising from income distributions; invoicing third parties for reimbursement of expenses associated with patent activities; maintaining financial records for all income and expense recovery activity; assisting with collection of overdue payments from licensees and third parties; preparing year-end report regarding departmental expense allocation activity; distributing appropriate information regarding patent and/or license expense to PIs and department administrators; establishing and maintaining files for license agreements, sales, service and material transfer agreements.

**Business Development Manager 980236.** *Center for Technology Management.* Requirements: bachelor's degree, higher degree in scientific discipline (biomedical, engineering or computing) and five years business experience working with product development or business unit responsibility in a high-technology company preferred; communications and negotiating skills; organizational ability; willingness to work as part of a team; working experience with licensing intellectual property (patents, copyrights, etc.) preferred.

**Department Secretary 980237.** *Alumni and Development Program.* Requirements: some college, associate's degree preferred; specialized secretarial and business training; minimum three years general office experience, including word processing; strong verbal and written skills; pleasant, professional manner with co-workers, volunteers and outside vendors; strong organizational skills and the ability to apply these skills toward accomplishing multiple priorities with minimum supervision; overtime availability.

**Phone Operator 980238.** *Undergraduate Admissions.* Requirements: high school

diploma; discretion and good judgment in dealing with public; superior attendance record; ability to work well under pressure; sense of humor. Responsibilities include handling five incoming telephone lines for Undergraduate Admissions; data entry support; assisting in preparing visit confirmation letters and itineraries.

**Word Processing Operator 980239.** *Social Work.* Requirements: high school diploma, some college preferred; experience with PCs, Windows or Windows 95 and Microsoft Office; knowledge of grammar and spelling; ability to proofread own work; ability to work with students, faculty, administrators and staff; pleasant telephone manner. Responsibilities include providing word processing and secretarial support to faculty; answering general office line; sorting mail; directing faxes; backing up supervisor in directing work study students.

**Senior Records Auditor 980240.** *Office of the Registrar.* Requirements: some college, associate's degree preferred; experience with computers; proficiency in data entry; interest in working with automated systems; ability to handle multiple jobs with speed and accuracy; service orientation. Responsibilities include providing professional and courteous service to University and non-University callers.

**Word Processing Operator 980241 (part time).** *Social Work.* Requirements: some college preferred; experience with PCs, Windows or Windows 95 and Microsoft Office; transcription experience and above-average knowledge of grammar and spelling; ability to proofread own work; ability to work with faculty, administrators, staff and students under minimum supervision; pleasant telephone manner. Responsibilities include providing word processing and secretarial support for the school; word processing for the faculty research office; faculty correspondence; course outlines.

**Academic Business Manager 980242.** *Anthropology.* Requirements: bachelor's degree or equivalent experience, Ph.D. in anthropology preferred; office management and supervisory experience; ability to work with faculty, staff and students; good interpersonal skills; excellent verbal and written communication skills; ability to work with minimal supervision. Responsibilities include administering educational programs, coordinating assessments, administering grants and sponsored projects and general office supervision.

**Administrative Assistant 980244.** *Student Educational Service.* Requirements: high school diploma, some college preferred; specialized secretarial and business training with three or more years of secretarial/administrative experience; familiarity with variety of office software packages including word processing and spreadsheet applications; good communication skills.

**Research Assistant 980245.** *Psychology.* Requirements: bachelor's degree preferred; psychology research experience; computer experience in graphics, word processing and spreadsheets; experience with FMRI/ERP/OR Meg data acquisition and analysis; ability to work well independently; ability to interact well with research subjects.

**Coordinator for Academic Support 980246.** *Office of the Registrar.* Requirements: bachelor's degree or equivalent experience in higher education preferred; proficiency in word processing and PC or mainframe systems data entry; good written and verbal communication skills; ability to learn quickly and make adjustments to changing departmental needs; attention to detail; good service orientation; ability to function effectively in team environment.

**Project Manager/Assistant Manager 980247.** *Facilities Planning and Management.* Requirements: bachelor's degree in mechanical engineering; minimum 10 years engineering experience in design and construction of building systems; supervisory skills; good working knowledge of mechanical codes; ability to read and interpret plans and specifications; good working knowledge of the design and construction industry to assess quality of work being performed; ability to make judgments on acceptability, proper means and methods of design and construction of building sys-

tems; computer experience in word processing and spreadsheets preferred; good communication skills; ability to organize time and priorities; self-motivated, responsible and mature.

**Coordinator Women's Programs and Community Service 980248.** *Office of Student Activities.* Requirements: master's degree in higher education and student affairs, social work or related field; three years related work experience advising and working with college students; knowledge of issues of sexual harassment and sexual assault; knowledge and practical experience with women's leadership development; knowledge of student development theory and concepts; excellent communication, interpersonal and advising skills; ability to relate effectively with students; energy; initiative; creativity; organizational skills; tolerance for ambiguity; ability to work as a member of a team.

**Focus Specialist 980250.** *Student Financial Services.* Requirements: bachelor's degree; planning and organizational skills; ability to make timely and sound decisions; well developed service orientation; ability to use team-building skills to accomplish tasks; strong initiative; effective communication skills; ability to present ideas in clear and concise manner and listen actively; excellent written communication skills; ability to tailor writing styles according to varying forms of communication; analytical skills; talent for creative thinking; ability to work under pressure; adaptability; flexibility; resourcefulness; tenacity; resilience; high degree of professionalism; appreciation for University and department vision; ability to create and nurture relationships.

**Service Center Team Leader 98251.** *Student Financial Services.* Requirements: associate's degree; ability to make timely and sound decisions; strong initiative; ability to present ideas in a clear and concise manner and to listen effectively; excellent written communication skills; ability to tailor writing styles according to varying forms of communication; analytical skills; creative thinking; ability to work under pressure; adaptability; flexibility; resourcefulness; tenacity; resilience; high degree of professionalism; appreciation for University and department vision; ability to create and nurture relationships; ability to lead team members in service environment and in challenging processes.

**Licensing Case Coordinator 980252.** *Center for Technology Management.* Requirements: bachelor's degree, master's preferred; excellent computer skills (PC Windows platform); communications skills; organizational ability; willingness to work as part of a team; attention to detail.

**Operations/Communications Assistant 980253.** *Center for the Study of American Business.* Requirements: high school diploma, some college preferred; strong working knowledge of database management (proficiency in Access, Excel and Word software preferred); familiarity with PageMaker, Photoshop and computer scanning preferred; good analytical skills; good written and oral communication skills; ability to work effectively with faculty, administrators and others; excellent attention to detail.

**Licensing Case Coordinator 980254.** *Center for Technology Management.* Requirements: bachelor's degree, master's preferred; excellent computer skills (PC Windows platform); communications skills; organizational ability; willingness to work as part of a team; attention to detail.

**Academic Secretary 980255.** *Political Science.* Requirements: some college, degree preferred; ability to organize, set priorities and follow up on details; ability to work on several projects simultaneously; excellent interpersonal and computer skills; knowledge of University procedures preferred.

**Administrative Aide 980257.** *Engineering Student Services.* Requirements: high school diploma, some college preferred; working knowledge of PC (Windows, word processing and database programs preferred); typing skills (50 wpm); good communication skills; ability to work with public; service and detail oriented; ability to work in busy office. Responsibilities include inputting, setting up

and maintaining computer and paper files of prospective and current students, alumni and companies for undergraduate admissions, dual degree and career services; assisting career services with new job listings, master recruiting schedule distribution to students and alumni, corporate recruiter visits and compilation of materials for interviews; typing and filing correspondence and reports; assisting with major mailings.

**GYN Nurse Practitioner 980258.** *Student Health Services.* Requirements: bachelor's degree; three to five years experience. Responsibilities include examining and treating patients in the Gynecology Clinic.

**Earth and Planetary Sciences Library Assistant 980260.** *Olin Library.* Requirements: bachelor's degree (preferably with concentration in earth sciences, geology or geography) or equivalent experience required; library science courses and/or library work experience; good typing skills; experience with microcomputers or information technology preferred; proven ability to work effectively with faculty, students, staff and public; strong service orientation; experience working as part of a team; ability to work independently with minimum supervision, to analyze situations effectively, to use judgment appropriately and to organize work flow; strong verbal and written skills; flexibility and adaptability to various work schedules and changing environments.

**Communications Technician I 980261.** *Communications Services.* Requirements: high school education, some college preferred; training and/or experience in concepts of operation and maintenance of communications equipment; physical strength for strenuous work and heavy lifting; ability to detect and differentiate the telephone color code; willingness to work flexible hours and overtime; use of personal vehicle might be required (with mileage reimbursement). Position requires possessing and maintaining a valid driver's license throughout employment and carrying a pager 24 hours a day, seven days a week for emergencies.

**Accountant 980262.** *Billing and Collections.* Requirements: bachelor's degree in accounting or finance with minimum three years professional accounting experience; excellent interpersonal skills; good team skills; self-motivation; ability to meet deadlines; excellent written and verbal communication skills; knowledge of fund accounting and experience in Focus preferred.

## Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested should contact the medical school's Department of Human Resources at 362-7196 to request applications. External candidates may call 362-7195 for information regarding applicant procedures or may submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

**Manager, Technical Services 980853.** *Medical Library.* Requirements: bachelor's degree in computer science; five years Unix systems administration experience; self-motivated; broad knowledge of information technology and its application; excellent planning and communication skills. Responsibilities include leading computing services group in providing computing support of its NT and Unix servers, creating and managing budgets, developing new services, overseeing day-to-day activities of group, performance analysis and strategic planning.

**Systems Manager 980854.** *Medical Library.* Requirements: bachelor's degree in computer science or four years related experience in systems administration; two years experience maintaining multiple notes servers in a production NT or Unix environment; experience in Notes/Domino 4.5, SMTP, MTA and TCP/IP preferred. Responsibilities include Lotus Notes administration and serving as backup to NT Systems Manager.

**Statistical Data Analyst 980893.** Requirements: bachelor's degree in statistics, computer science or related field; one year experience; experience using SAS and other database packages to manage large databases and oversee personnel responsible for entering and cleaning data, preferably in research setting; knowledge of Microsoft Access and

Excel plus. Responsibilities include maintaining several large databases for cancer studies in fast-paced, busy PSA studies laboratory.

**Executive Secretary 980943.** Requirements: high school diploma or equivalent with at least three years office experience; good typing and grammatical skills; professional demeanor; excellent telephone skills. Responsibilities include typing correspondence, manuscripts and course handouts; answering telephone and placing calls; scheduling meetings; handling travel arrangements.

**Secretary III 981144.** Requirements: high school diploma or equivalency with three or more years experience in medical office setting; ability to type and use various software processing packages to set up spreadsheet and report formats; knowledge of medical terminology; good communication and organizational skills. Responsibilities include secretarial duties such as typing, dictation, manuscripts, scheduling meetings and making travel arrangements.

**Systems Support Technician II 981157.** Requirements: associate's degree in computer science with two to four years experience; thorough understanding and knowledge of computer components and their interface requirements. Responsibilities include providing full range of desktop support services to end users; installing and maintaining computer software, printers and peripherals; troubleshooting, diagnosing and resolving problems; instructing end users on use of equipment; maintaining inventory records of equipment and computer hardware.

**Medical Secretary 981158.** Requirements: high school equivalency with some business work experience; typing skills (60-70 wpm) with high degree of accuracy; confidentiality; effective communication and organization skills; working knowledge of medical terminology; knowledge of general office machines; high level of professionalism and superior work ethic. Responsibilities include working closely with another full-time secretary; assisting in the coordination of secretarial duties; typing correspondence, reports, manuscripts and patient information forms; dictation and transcription; arranging travel; receiving and routing phone calls; completing insurance and disability forms; scheduling physician and patient appointments; maintaining physician calendar; setting up and maintaining patient charts and records.

**Technician 981175.** Requirements: bachelor's degree in chemistry or biology or three years experience in a biology research lab or related field; experience in molecular biology and/or immunohistochemistry preferred; ability to work from written protocols and follow instructions; manual dexterity; ability to work with other laboratory staff, unit staff and principal investigators. Responsibilities include conducting experiments using fluorescence microscopy to examine cells and tissues; performing minor surgery on small rodents; preparing solutions; placing orders for supplies; maintaining complete and organized records and reports. Flexible hours possible; 40 hours per week preferred but fewer could be negotiated.

**User Support Manager 981200.** Requirements: bachelor's degree or equivalent in computer science with five years related experience; supervisory and helpdesk experience; working knowledge of varied hardware and software and related LAN equipment. Responsibilities include supervising and coordinating activities of team that provides support to computer users; analyzing, designing, implementing and maintaining optimum configuration of computer systems; performing routine and emergency maintenance on applications; hiring, training, supervising and evaluating performance of user support personnel; keeping current on developing technologies and recommending upgrades.

**Associate Systems Manager 981276.** Requirements: high school diploma or equivalent, additional training and some college preferred; three to five years experience in information systems management; working knowledge of mainstream languages, databases, systems, operations and related applications. Responsibilities include installation, configuration and administration of all departmental personal computing systems; assisting systems manager in maintaining system performance, system security, hardware/software utilities and capacity planning; providing assistance with system configuration proposals and service requirements; installing, configuring and troubleshooting PC and Macintosh software and peripherals.

## Retirement plan investment help offered

Where should retirement savings be invested? How much risk should be taken when investing? What types of investment funds are available through the University's retirement plan?

Seven investment education seminars will help answer these and other questions and assist faculty and staff in making informed decisions about investments in the University's retirement plan. The free seminars are sponsored by the Office of Human Resources.

At every session, consultants from the Teachers Insurance and Annuity Association-College

Retirement Equities Fund (TIAA-CREF) and from Vanguard will review the objectives and the risks and rewards of the University's investment fund options. Participants will have the opportunity to ask questions during and after the presentations, time permitting.

The seminars are scheduled as follows:

• Hilltop Campus — April 21, 8:30-10:30 a.m. in Room 110 January Hall, and April 22, 2-4 p.m. in Room 101 Lopata Hall.

• Medical Campus — April 21, 2-4 p.m.; April 22,

5:30-7:30 p.m.; and April 23, 8:30-10:30 a.m. All three sessions will be held in Cori Auditorium.

• West Campus — April 22, 8:30-10:30 a.m. and April 23, 2-4 p.m. Both sessions will be held in Room A/B of the Conference Center.

Pre-registration is not required. For more information about the seminars, call the human resources office on your campus. For more information about the University's retirement investment funds, call TIAA-CREF at 1-800-842-2733, ext. 5509, or Vanguard at 1-800-523-1188.

## Graham Chapel renovations — from page 1

Throughout the century, the chapel has welcomed thousands of people, from prominent leaders to betrothed couples. The building has been the site of concerts, plays, student activities and more than 800 lectures. Some of life's most important ceremonies also have taken

place inside its red granite and limestone walls, including memorial services, baptisms and about 60 weddings a year.

The chapel is part of the Hilltop Campus Historic District and is listed on the National Register of Historic Places.

— Martha Everett