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# Record

WASHINGTON  
UNIVERSITY  
IN ST. LOUIS

Vol. 22 No. 8 Oct. 16, 1997



## National Portfolio Day

Keith Geldoff, admissions counselor and a 1995 graduate of the the School of Art, critiques the portfolio of Natalie Ross of Paducah, Ky., during National Portfolio Day in Bixby Hall Saturday, Oct. 11. National Portfolio Day is a series of programs sponsored at colleges around the country, bringing together representatives from art schools and university art departments and giving high school students an introduction to the variety of art programs available.

## Mid-America Earthquake Center

### Seven universities join together in NSF-funded research effort

Washington University has joined forces with several other universities to form a new earthquake research center that will focus on earthquake engineering problems typical of the central and eastern United States.

On Oct. 7, the National Science Foundation (NSF) announced financial support of the new Mid-America Earthquake Center, to be based at the University of Illinois in Urbana-Champaign. Funding from the NSF currently is set at \$2 million annually for five years. The center will raise an equal amount in matching funds.

The Mid-America Earthquake Center will be the first coordinated effort of its kind to focus directly on earthquake engineering problems of the central and eastern United States. It joins two other regional centers announced simultaneously by NSF, housed at the University of California at Berkeley and the State University of New York at Buffalo.

Washington University is one of seven core institutions in the Mid-America Earthquake Center. The others are the Georgia Institute of Technology, Texas A&M University, University of Illinois at Urbana-Champaign, University of Memphis, St. Louis University and the Massachusetts Institute of Technology.

Phillip L. Gould, Ph.D., the Harold D. Jolly Professor of Civil Engineering and chair of the department, is one of four associate directors of the new center. Gould will oversee educational activities on behalf of the center. Three other associate directors from the other institutions will focus on outreach and collaboration, research and implementation.

Daniel Abrams, Ph.D., professor of civil engineering at the University of Illinois, is director of the center. He said the primary objectives of the center will be to reduce potential earthquake losses through mitigation. The center will concentrate on improved methods of seismic evaluation and retrofit for existing structures. Work on these fronts will result in less structural damage, increased safety to critical facilities such as hospitals and fire stations, and reduced costly interruptions to businesses and transportation networks.

Gould said the proximity of the New Madrid Fault to St. Louis and the potential severity of damage from that fault and others in the greater St. Louis region are factors that make the involvement of Washington University and St. Louis University key to the new center.

The New Madrid Fault produced the largest earthquakes ever to hit the conti-

nental United States in 1811 and 1812. Scientists generally agree that the fault has a good chance of producing a major earthquake sometime in the next 50 years.

Gould said that Washington University brings strong structural engineering expertise to the center, particularly in the application and testing of space-age composite materials and control devices to the retrofit of buildings and bridges. In geotechnical engineering, faculty are evaluating the influence of deep pile foundations on the response of structures, and in socio-economic policies, faculty have been active in probing the relationships between various agencies in disaster response.

Gould said that St. Louis University contributes a historical expertise in identifying seismic hazards and studying the effects of earthquakes in the central United States. With center partner the University of Memphis, it also has developed a seismic network that monitors the New Madrid seismic zone.

"The major benefit to the St. Louis region will be to provide researchers at both universities opportunities to collaborate with center partners to carry out combined projects," said Gould. Indus-

*Continued on page 8*

## Ellis steps down as law school dean

Dorsey D. Ellis Jr., J.D., dean of the School of Law, has announced that he will step down as dean after more than 10 years of service. Ellis will leave the dean's post June 30, 1998. Following a sabbatical, he plans to continue as a professor of law.

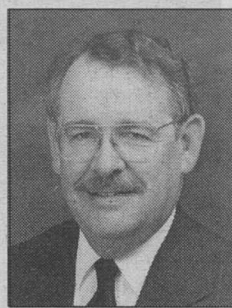
Under his leadership, the school constructed a new state-of-the-art facility, Anheuser-Busch Hall, and completed the most successful fund-raising campaign in its history. It also strengthened the faculty and administrative team and attracted a diverse and talented student body.

The search for a successor will begin immediately, according to Chancellor Mark S. Wrighton.

Ellis said he is ready to devote his time again 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. This 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."

Wrighton said: "It is with considerable regret that I have accepted Dan's decision to step down. We will miss his leadership. I can think of no one who

*Continued on page 7*



Dorsey D. Ellis Jr.

## Bill Gass receives prestigious award

William H. Gass, Ph.D., the David May Distinguished University Professor in the Humanities and director of the International Writers Center in Arts and Sciences, has won a \$100,000 Lannan

Foundation Lifetime Achievement Award for his fiction and essays.

Presented annually, the Lannan Literary Award honors "established writers whom the Foundation believes to have made a significant



William H. Gass

contribution to English-language literature and emerging writers of distinctive literary merit demonstrating potential for outstanding future work."

Said Gass: "The Lannan Foundation has been very generous in their support of the International Writers Center over the years, and I regard this award as the result, in part, of the work of the center, and therefore of the efforts of the staff, students and faculty who have participated in our programs."

Gass is the author of the novels "Omensetter's Luck" (1966), "Willie Masters' Lonesome Wife" (1968) and

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## In this issue ...

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*E. coli*, cause of most bladder infections, can dodge antibiotics by invading cells lining the bladder wall

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Kenneth M. Ludmerer, M.D., combines history and clinical practice in an uncommon career

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Distinguished Alumni and Brookings awards will be presented at Founders Day

## Millstone gift funds 60 annual scholarships

I.E. Millstone, a local philanthropist whose St. Louis-based construction company has built many area landmarks, has made a \$1.2 million commitment to Washington University to support some 60 annual scholarships in the architecture, arts and sciences, engineering and social



I.E. Millstone

work schools. Chancellor Mark S. Wrighton made the announcement.

"By establishing these scholarships at Washington University, I.E. Millstone is supporting an essential component for attracting deserving students of great promise," Wrighton said. "The University is enriched greatly by the presence of a diverse and talented group of students who might not otherwise be able to attend. It is appropriate that the Millstone gift will form one of the most enduring contributions one can give to a university, just as his projects over the years

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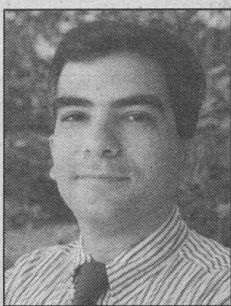
# Medical Update

## Bacterial trick may explain recurring bladder infections

**B**ladder infections have long baffled doctors — and agonized patients — with their resiliency. A strong dose of antibiotics can bring relief, but the painful infection often returns in as little as a few days.

In a report published in the Oct. 9 issue of *Nature*, School of Medicine researchers explained why these infections are so hard to beat. It turns out that *E. coli*, the most abundant bacterium in the human body and the cause of most bladder infections, can dodge antibiotics by invading the immune-system cells that line the wall of the bladder.

"Before this study, nobody knew that *E. coli* could live inside immune-system cells," said David M. Baorto, M.D.,



David M. Baorto

Ph.D., fellow in laboratory medicine and lead author of the study. "They apparently can take shelter in the very cells that usually destroy them."

About half of American women experience bladder

infections at least once during their lifetimes and as many as 10 percent suffer three to five infections per year. Antibiotics used to treat these infections may have little effect against bacteria that are hiding in other cells, said co-researcher Soman Abraham, Ph.D., assistant professor of pathology and of molecular microbiology. Now that physicians are on to *E. coli*'s secret, they may be able to erase more bladder infections by using antibiotics that more thoroughly penetrate cells, he explained.

*E. coli* usually lives harmlessly in the intestines, but female anatomy makes it

easy for the bacterium to get swept into the urinary tract. Once there, the bugs use sticky, hair-like structures called pili to cling to the walls of the urethra and bladder. Strong adhesives make good sense in an environment constantly flushed with urine.

To their great surprise, Baorto and colleagues found that the sticky appendages also can work like keys to open up macrophages, immune-system cells that are hearty consumers of bacteria. Using cultures of mouse macrophages, the researchers discovered that the pili latch on to a particular protein on the macrophage's surface called CD48. Once attached, the bug slides easily into the cell.

After letting *E. coli* invade the macrophages, the researchers bathed the cells in the antibiotic gentamicin. The bugs on the outside of the cells died quickly, but those inside the macrophages thrived throughout the four-day experiment. "In humans, these bacteria could theoretically escape from the cells and start a new infection," Baorto said.

*E. coli* is the world's most studied organism, so why didn't researchers know about this trick? Baorto said the invasion strategy almost never works in places outside of the bladder. Just about anywhere else in the body, an invading *E. coli* would get quickly covered in antibodies and other small proteins that bind to intruders. When coated in antibodies, *E. coli* sticks to a different protein on the surface of macrophages — not CD48 — with much less pleasant results for the bacteria. Invariably, macrophages consume and quickly kill antibody-covered bugs.

The bladder contains few antibodies, giving *E. coli* an excellent opportunity to avoid being eaten. Most antibodies produced in the bladder are quickly washed out with the urine, and they don't work well in the acidic environment anyway, Abraham said. In people with compromised immune systems, the bugs may be able to invade macrophages in many parts of the body, he said.

— Chris Woolston



### Respecting differences

First-year student Kari Braun listens to Will R. Ross, M.D., during a Diversity Retreat Oct. 4. Ross is an assistant professor of medicine and an associate dean and director of the Office of Diversity at the School of Medicine. The retreat focused on the role of cultural understanding in health care delivery.

## Scientists identify proteins that regulate cell division

**A** Washington University researcher has made a discovery about the interaction of molecules in the major pathway regulating cell division. When disrupted, this pathway can cause cells to divide prematurely, a finding that the scientists suggest may lead to novel approaches to chemotherapy. These findings appeared in a recent issue of *Science*.

"If you disrupt this regulatory pathway, cells can't stop dividing even though their DNA is damaged," said Helen Piwnica-Worms, Ph.D., lead author of the paper and associate professor of cell biology. "So deliberately disrupting this pathway may force cancer cells to divide before they are ready. Their daughter cells would then die," she said.

Piwnica-Worms is also an associate investigator with the Howard Hughes Medical Institute.

Her research developed from the study of a molecule that promotes cell division, called cell division molecule 25C, or Cdc25C. Previous work had revealed that Cdc25C activates another protein called Cdc2, the molecular switch that turns on cell division. In this first study, Piwnica-Worms looked further back in the regulatory pathway to see how Cdc25C is controlled.

Using genetically altered cells that expressed Cdc25C or a mutant form of the protein, Piwnica-Worms showed that the normal protein loses a phosphate group at a potentially important site right before chromosome duplication and segregation, the mitosis that occurs as a cell begins to divide. The mutant molecule could not receive a phosphate group at

this site, Piwnica-Worms found. Cells that made this abnormal protein also had fragmented chromosomes, suggesting they had entered mitosis before their genetic material could be safely duplicated. So the absence of the critical phosphate group on Cdc25C allowed cells to divide prematurely, it seemed.

Cdc25C appears to be a target of pathways that monitor whether the cell's genetic material has repaired any damage and therefore is ready for mitosis, further experiments showed. Irradiation of the cultured cells normally delays cell division until any DNA damage is repaired. But a large fraction of cells expressing

mutant Cdc25C bypassed the checkpoint and underwent mitosis after irradiation.

These findings suggest a one-two punch for cancer cells. Patients could receive a drug that disrupts the Cdc25C regulatory pathway to force irradiated cancer cells to divide prematurely, favoring the death of the daughter cells, Piwnica-Worms said.

She also showed that 14-3-3 proteins known to be involved in the DNA damage checkpoint of a certain yeast bound to Cdc25c at the critical phosphate. In addition, a yeast protein called Chk1 (check1) could add the key phosphate, Piwnica-Worms found.

## Study to probe mechanisms of anesthetics

**F**our groups of School of Medicine investigators are combining their efforts to study the cellular and molecular mechanisms by which anesthetics produce their effects. The research is funded by a five-year \$4.5 million program project grant from the National Institute of General Medical Sciences.

Originally awarded in 1993, this grant renews several projects designed to figure out how anesthetics put patients to sleep or relieve pain. Alex S. Evers, M.D., the Henry Eliot Mallinckrodt Professor and head of the Department of Anesthesiology, calls the grant an affirmation of the department's groundbreaking research.

"Washington University is one of a few centers in the world that has marshaled a group effort to elucidate the

molecular mechanisms of anesthesia," Evers said. "We are optimistic that we will resolve the molecular sites of action of at least one class of anesthetics during the course of this grant funding."

Although scientists have known about the anesthetic effects of various drugs for many years, that understanding has come through observation. Little is understood about how the drugs work at the cellular level.

The grant funds projects headed by Evers; Joseph Henry Steinbach, Ph.D., professor of anesthesiology and neurobiology and program director for the grant; Douglas F. Covey, Ph.D., professor of molecular biology and pharmacology; and Charles F. Zorumski, M.D., professor and head of the Department of Psychiatry and professor of neurobiology.

# Record

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**Washington**  
WASHINGTON UNIVERSITY IN ST. LOUIS



# Washington People

## Ludmerer finds key lessons in medicine's past

**M**edicine is becoming ill, and Washington University School of Medicine has a doctor working to heal it.

Kenneth M. Ludmerer, M.D., professor of history in Arts and Sciences and of medicine, believes health care is showing disturbing symptoms that it has lost sight of its core values. "The mission of medicine is to relieve suffering in the most economical and efficient way, not to make profits for yourself and take care of people with whatever money is left over," he said.

A self-described medical historian and medical educator, Ludmerer recognizes he is a rare breed. However, he believes that his historical work enhances his clinical work and vice versa.

"It seems to me that studying medicine and medical education blends as well with seeing patients and teaching clinical medicine as many other activities pursued by our faculty," he said.

Ludmerer's passion for medical education has not gone unnoticed. Most notably, the American College of Physicians honored him in March with the Nicholas E. Davies Memorial Scholar Award for "outstanding contributions to humanism in medicine." The award cites his nontraditional research for its historical insight into today's medical education problems.

"Ken Ludmerer is a Himalayan landmark not only in the history of medicine but also in how to conduct a first-rate historical research study," said Howard Markel, M.D., director of the Historical Center for the Health Sciences at the University of Michigan in Ann Arbor.

"Ask any colleague, and they will tell you that he is the field's leading figure."

Growing up in Long Beach, Calif., Ludmerer knew from an early age that he wanted to be a doctor. What he didn't realize until he attended Harvard University in 1964 was that he also had a passion for history. He graduated from Harvard with a bachelor's degree in the history of science, a popular major for pre-med students because of its exposure to liberal arts as well as science.

Ludmerer then chose the Johns Hopkins University to pursue his medical degree. By coincidence, the school also had the country's premier program in the history of medicine. Interested in further pursuing his undergraduate work, he took time off from his formal medical studies to become a graduate student in the history of medicine.

"I knew I was a hard-core internist," he said. "I loved internal medicine as a student, and I knew I wanted to go into that. But I also was lucky enough to get into this wonderful history program, and then I had a bug in me to do more historical research about medicine."

He completed his master's degree in 1971, wrote his first book on genetics and finished his medical degree in internal medicine in 1973. Ludmerer then came to Washington University School of Medicine. Between 1973 and 1979, he served in successive positions as house officer, clinical fellow and chief resident of internal medicine. In 1979, he joined the faculty and feared he might have to give up his historical studies to do research.

"Then it occurred to me that if a doctor could leave the patient's bedside to study molecular genetics, why couldn't I leave to study the profession, its origins and the historical roots of problems facing medicine?" he said.

### Combining passions, finding balance

Encouraged by David Kipnis, M.D., who was head of medicine at that time, Ludmerer decided to pursue careers in both medicine and scholarship. "There were, of course, a few who gave questioning looks when I first began this," he said. "Fortunately for me, Washington University saw value in my research, and the environment allowed me to take risks to do something different."

With this support, Ludmerer combined his two passions to become a leading physician and historian. He works hard to balance the loads of his research and his clinical work and insists that neither overshadows the other.

Renée C. Fox, M.D., sociologist of medicine at the University of Pennsylvania, has known Ludmerer for 17 years. She said: "Even though medical school facilities are growing larger and larger, fewer doctors are teaching. He's one of those rare doctors who continues to take care of patients while also researching. He is a superb physician and a superb teacher of physicians."

Ludmerer believes studying medical history has made him more conscious of the social context of medicine. "Research in any area — whether it's a clinical trial or a historical study — develops the process of critical reasoning and breeds humility," he said.

"Learning to Heal," Ludmerer's second book, gained him national attention for examining the history of medical education. He considers the book, which earned a nomination for a Pulitzer Prize in 1986, to be

dismantle the medical education system. If teaching hospitals are forced to produce doctors economically and efficiently, they run the risk of creating doctors who lack the skills necessary to treat patients responsibly.

The last two years of Ludmerer's writings have been devoted to contemporary developments in medical education and the American health care system. He hopes the book will serve as an outline for alternative health care strategies that will better serve the public interest. Although he had no idea how complex it would be to write about the current era, he thinks it is the final pages of the book that may influence future policy changes in American medicine. He believes that understanding how our current system evolved is essential in considering the future of medical education.

In a written review of the manuscript, Fox said:

"The message of the book is not that medical education and the health system are beyond redemption. Quite to the contrary, it is a challenge for their redemption."

Ludmerer believes the current system is evolving in such a way that health care organizations are trying to avoid the patients who need care most. "A good health care system is one that is accessible to our sickest patients — those who really need it," he said. "It should facilitate care, coordinate care, and it certainly doesn't put gatekeepers out in front to prevent care. That's insane."

Ludmerer's research into medical education has many calling him the country's expert.

Paul Beeson, M.D., former chair of the department of medicine at Emory, at Yale and at Oxford, said: "From a historic standpoint, Ludmerer is a precious asset to American medical education. No one else has achieved the depth and authority that he has."

### Legacy in research

Michigan's Howard Markel followed Ludmerer in combining the careers of historian and clinician.

During his third year of medical school, Markel became interested in pursuing both fields and sought out Ludmerer's advice because he considered him to be the model of this unique combination.

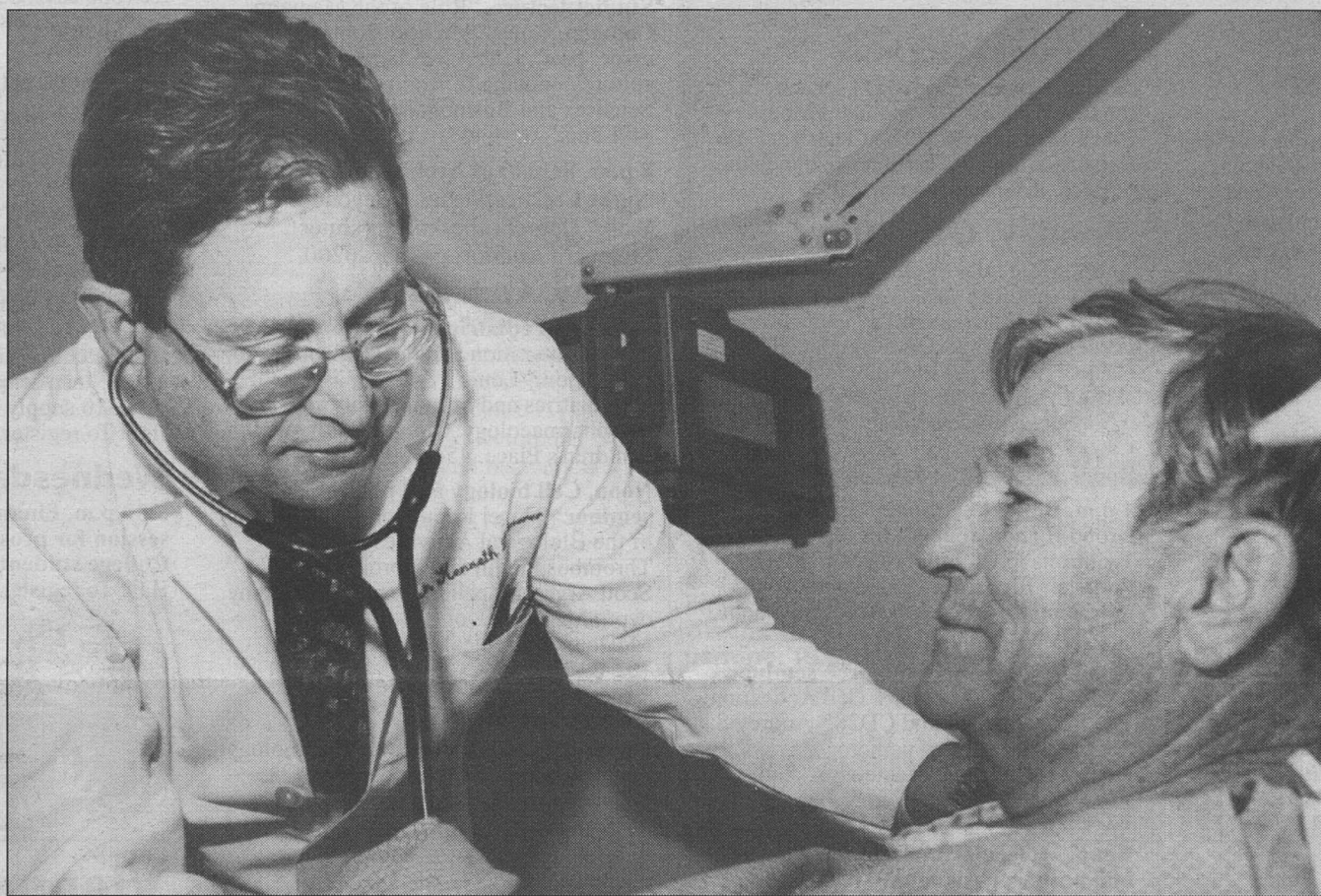
Ludmerer responded with a five-page letter providing insightful advice and encouraging Markel to proceed. Markel credits Ludmerer's generosity in sharing his personal experiences with helping him become a historian and a clinician. He is currently assistant professor of pediatrics and communicable diseases, as well as director of the Historical Center for the Health Sciences at the University of Michigan.

Ludmerer's wife, Loren, a former executive at Ralston Purina Co., is now a full-time mother to the couple's daughters, Jordan, 2, and Lindsey, 1. The couple enjoys symphony music, which Ludmerer attributes to the influence of his mother, a concert pianist. Ludmerer served on the board of the Missouri Historical Society from 1987 to 1993 and is on the medical advisory board for the St. Louis Science Center. His wife is a member of the Campbell House Museum board of trustees.

Mark Frisse, M.D., associate professor of medicine at the medical school and Ludmerer's longtime friend and colleague, describes Ludmerer as a very dignified and reserved person with a "not-in-your-face" style. "He has a great restraint about him," Frisse said. "But on the other hand, it wouldn't be at all unusual to find Ken rolling around on the floor with his children. He's one of the most influential medical historians of the era, and he's not afraid to change diapers."

Although Ludmerer is noncommittal about future projects, his exceedingly ambitious research has already left a legacy for generations to come. "His contributions," Beeson said, "are something that will be looked back upon in 50 or 100 years because they have permanent value. They are unchallengeable."

—Nicole Vines



Kenneth M. Ludmerer, M.D., professor of history and of medicine, examines John Seabough at Queeny Tower.

a positive story about a medical education system that served American society well.

Conversely, he found his upcoming book, "American Medical Education in the 20th Century," emotionally challenging because he believes that in the last 10 to 15 years the system he once was proud of has made a drastic change and is now suffering.

The book, a decade-long undertaking that should be published next fall, is a massive project due to the sheer volume of information Ludmerer had to study. "As schools have gotten larger, so has the paper trail," he

**"From a historic standpoint, Ludmerer is a precious asset to American medical education. No one else has achieved the depth and authority that he has."**

—Paul Beeson, M.D.

said. "For example, at the Association of American Medical Colleges, where I was examining past minutes of meetings, I found the information for 1932 to 1956 in box one, but 1957 to 1991 were in boxes two through 46."

Ludmerer intends for the book not only to serve the scholarly purpose of illuminating and interpreting the history of medical education, but also to make a social impact. "I want to make people conscious that medical education, medical schools and teaching hospitals are very much influenced by the practice environment, and current changes in the practice environment are very harmful to academic work and research and threaten the integrity of the American health system," he said.

Ludmerer fears the managed care revolution may



# Calendar

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

## Oct. 16-25



## Exhibitions

**"Die Winterreise (Winter Journey): A Graphic Cycle After Franz Schubert."** Etchings by contemporary Austrian artist Herwig Zens, based on Schubert's song cycle of the same name. Organized by the Austrian Cultural Institute, New York. Through Nov. 20. Music Classroom Building.

**Olin Library Special Collections.** "The Gehenna Poets: 1959-1995." Through Oct. 20. Special Collections, level five, Olin Library. 935-5495.

**Selections from the Washington University art collections.** "Leonard Baskin: Prints." Through Dec. 7. Gallery of Art, lower gallery. 935-5490.

**"Site As Context: Schools of Art and Architecture Faculty Projects."** Through Oct. 19. Gallery of Art, upper gallery. 935-5490.



## Films

### Wednesday, Oct. 22

**6:00 p.m. Japanese Film Series.** "Tenchi Muyo!" (The Night Before the Carnival), 1993, English subtitles. Room 219 S. Ridgley Hall. 935-5156.



## Lectures

### Thursday, Oct. 16

**Noon. Chemistry seminar.** "Ellagitannin Chemistry." Ken Feldman, Pennsylvania State U. Room 311 McMillen Laboratory. 935-6530.

**Noon. Genetics seminar.** "Control of Cell Division by Ubiquitin-dependent Proteolysis." Mike Tyers, the Samuel Lunenfeld Research Institute, U. of Toronto. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

**2:30 p.m. Mechanical engineering seminar.** "Rotor Blade Vortex Interaction Noise With Active Blade Control." Yung Yu, dir., National Rotorcraft Technology Center, Ames Research Center, Mountain View, Calif. Room 100 Cupples II Hall. 935-6047.

**4 p.m. Cancer Center seminar.** "Biochemical Studies of Apoptosis — Putting a Colorful Puzzle Together." Xiao-Dong Wang, U. of Texas Southwestern. Third Floor Aud., Children's Hospital. 747-0359.

**4 p.m. Earth and planetary sciences colloquium.** "Core Evolution in the Icy Galilean Satellites." William B. McKinnon, assoc. prof. of earth and planetary sciences. Room 361 McDonnell Hall. 935-5610.

**4 p.m. Joint Center for East Asian Studies/Chiang Ching-Kuo Foundation lecture.** "Knowing Taiwan, Narrating Taiwan: Contested Pasts and Short-sighted Presents." Douglas Fix, history dept., Reed College, Portland, Ore. Room 162 McDonnell Hall. 935-4448.

**4:30 p.m. Math colloquium.** "The Dynamics of Polygonal Billiards." Gregory Galperin, prof. of mathematics, Eastern Ill. U., Room 199 Cupples I Hall. 935-6760.

### Friday, Oct. 17

**9:15 a.m. Pediatric Grand Rounds.** "Current Trends in Gastrointestinal Decontamination of Poisoned Patients." Tony Scalzo, prof. of pediatrics, emergency and toxicology divisions, Saint Louis U. School of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology and physiology seminar.** "Gap Junctional Communication, Cataracts and Sleep." Norton B. Gilula, cell biology dept., Scripps Research Institute. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

**4 p.m. Assembly Series Lecture.** "The Changing Face of Science." Neal Lane, dir., National Science Foundation. May Aud., Simon Hall. 935-5285. (See story on page 5.)

### Saturday, Oct. 18

**10 a.m. Science Saturdays.** "The Search for Black Holes: The Strange Properties of Black Holes and Evidence That They Do Exist." Clifford M. Will, prof. and chair of physics. Room 201 Crow Hall. 935-6788.

### Monday, Oct. 20

**Noon. Molecular biology and pharmacology seminar.** "Transcriptional Regulation of the Osteocalcin Promoter: Convergence of Msx2- and FGF-regulated Osteoblast Gene Expression." Dwight Towler, asst. prof. of medicine and of molecular biology and pharmacology. Pharmacology Library: The Philip Needleman Library, Room 3907 South Bldg. 362-2725.

**4 p.m. Biology seminar.** "Splicing of Group II and Group III Introns and Twintrons in Chloroplasts of Euglena Protists." Richard B. Hallick, prof. of biochemistry, U. of Ariz.-Tucson. Room 322 Rebstock Hall. 935-6860.

**4 p.m. Immunology research seminar.** "A Topological Look at T Cell Activation: The Roles of CD2 and CD28." Andrey S. Shaw, assoc. prof. of pathology. Eric P. Newman Education Center. 362-2763.

### Tuesday, Oct. 21

**Noon. Molecular microbiology/microbial pathogenesis seminar.** "Functional Genetics of Pathogenic Bacteria." David Holden, prof., infectious diseases dept., Royal Postgraduate Medical School, Hammersmith Hospital, London. Cori Aud., 4565 McKinley. 362-3693.

**3 p.m. Physics theory seminar.** "The Weak Decay of Hypernuclei." Angels Ramos, U. of Barcelona. Room 241 Compton Hall. 935-6242.

**4 p.m. Chemistry seminar.** "Cool Stuff About Luminescent Silicon, White Phosphors and/or Molecular Nanowires." Michael Sailor, prof., U. of Calif. at San Diego. Room 311 McMillen Laboratory. 935-6530.

### Wednesday, Oct. 22

**8 a.m. Obstetrics and Gynecology Grand Rounds.** "Therapeutic Approaches to the Treatment of Recurrent Ovarian Cancer." Vicki V. Baker, the George W. Morley Professor of Obstetrics and Gynecology and chief, Division of Gynecologic Oncology, U. of Mich. Medical Center, Ann Arbor. Clopton Aud., 4950 Children's Place. 362-7139.

**10 a.m. Information technology planning kickoff event.** "Information Technology and the Future of the University." Speakers are James J. Duderstadt, U. of Mich.; Daniel Updegrove, Yale U.; and Alan Filreis, U. of Pa. Open to the University community. Moore Aud., North Bldg. 935-5400. (See story on page 8.)

**11 a.m. Assembly Series lecture.** "The Exuberant Rebirth and Premature Death of the American City." Ray Suarez, host, "Talk of the Nation," National Public Radio. Graham Chapel. 935-5285. (See story on page 5.)

**3:45 p.m. Physics colloquium.** "Using Hyperpolarized Inert Gases to Image the Lung." Brian Saam, postdoctoral researcher, physics dept. Room 204 Crow Hall. 935-6252.

**4 p.m. Biochemistry and molecular biophysics seminar.** "Coordinated Movement of Proteins and RNAs in and out of the Nucleus." Pamela A. Silver, prof., Dana Farber Cancer Institute, Boston. Cori Aud., 4950 Children's Place. 362-0261.

**7 p.m. Catholic Student Center event.** From the Holocaust to Human Rights: A Mini-course on the Work of Elie Wiesel and Noam Chomsky. "The Responsibility of the American Religious Intellectual in an Age of Atrocity." Mark Chmiel, adj. prof. of theology, St. Louis U. Catholic Student Center, 6352 Forsyth Blvd. 725-3358.

### Thursday, Oct. 23

**Noon. Genetics seminar.** "Paramutation: An Allelic Interaction That Causes a Heritable Change in Transcription." Vicki L. Chandler, prof. of plant sciences, U. of Ariz. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7072.

**4 p.m. Joint Center for East Asian Studies lecture.** "Role of the Media in Colonial Korea." Michael Robinson, assoc. prof., East Asian languages and cultures, Indiana U. Room 331 Social Sciences and Business Bldg., U. of Mo.-St. Louis. 935-4448.

**8 p.m. School of Architecture Monday Night Lecture Series.** "Beyond the Wall." Daniel Libeskind, architect. Steinberg Auditorium. 935-6200.

### Friday, Oct. 24

**9:15 a.m. Pediatric Grand Rounds.** "Fetal Maturation and the Control of Parturition." Louis J. Muglia, asst. prof. of pediatrics and of molecular biology and pharmacology. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology and physiology seminar.** "Novel Regulatory Mechanisms of the Biological Activities of Thrombospondin and Fibronectin." W. Scott Argraves, cell biology and anatomy dept., Medical U. of S.C. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

### Saturday, Oct. 25

**10 a.m. Science Saturdays.** "Cosmology: The Age, Size and Composition of the Universe." Matt Visser, research asst. prof. of physics. Room 201 Crow Hall. 935-6788.



## Music

### Tuesday, Oct. 21

**8 p.m. Student recital.** Graham Chapel. 935-4841.

### Friday, Oct. 24

**8 p.m. OVATIONS! Series concert.** The Bobs, a San Francisco-based a cappella quartet. (Also Oct. 25, same time.) Cost: \$23. Edison Theatre. 935-6543.

### Saturday, Oct. 25

**8 p.m. Graduate recital.** Music of George Frederic Handel, Wolfgang Amadeus Mozart, Ned Rorem and Darius Milhaud. Stacia Thiel, soprano; Henry Palkes, piano. Graham Chapel. 935-4841.



## Miscellany

**Registration open for diagnostic radiology seminar.** "Practical Issues in Leading-edge Radiology II" (Oct. 17-19). Radisson Hotel, Clayton. For times, costs and to register, call 362-2916.

**Registration open for the following Office of Continuing Medical Education seminar.** "New Techniques in Urinary Incontinence and Female Urology" (Oct. 18), Eric P. Newman Education Center; "Sleep Disorders Update" (Oct. 25), Eric P. Newman Education Center;

"Maturing Gracefully: An Update on Urology and Osteoporosis" (Nov. 1), Ritz-Carlton Hotel, 100 Carondelet Plaza; second annual "Fingers to Toes: Comprehensive Orthopaedic Review Course for Primary Care Physicians" (Nov. 7-8), Eric P. Newman Education Center; 23rd annual "Symposium on Obstetrics and Gynecology" (Nov. 13-14), Eric P. Newman Education Center. For times, costs and to register, call 362-6891.

### Saturday, Oct. 18

**9 a.m. Book arts workshop.** "Play With Cameraless Photography." Make images and illustrations using cameraless photography. Instructor: Barbara F. Zucker. (Also Nov. 1.) Cost: \$35, plus \$20 supply fee (one day); \$55, plus \$20 supply fee (both days). Lewis Center. To register, call 935-4643.

**9 a.m. Book arts workshop.** "Put a Good Book in Leather." Learn the basics of book cover construction and design. Instructor: Andrea Vadner. Cost: \$35, plus \$30 supply fee. Room 104 Bixby Hall. To register, call 935-4643.

**9:30 a.m. E-mail/Internet workshop.** To register, call 935-6777.

**1 p.m. Book arts workshop.** "Make Paper and Cast Paper." Make stationery and matching envelopes or cast paper in molds. Instructor: Betty Shew. Cost \$35, plus \$10 supply fee. Room 107 Bixby Hall. To register, call 935-4643.

### Wednesday, Oct. 22

**5:30 p.m. Financial aid information session for prospective University College students.** Room 110 January Hall. To register, call 935-6700.



## Vienna Fest 1997

**"Die Winterreise (Winter Journey): A Graphic Cycle After Franz Schubert."** (See Exhibitions.)

### Saturday, Oct. 18

**2:30-4 p.m. German dept. colloquium.** "A Vienna Fest Colloquium on the Occasion of Egon Schwarz's 75th Birthday." Features lectures by Paul Michael Lützel, the Rosa May Distinguished University Professor in the Humanities; Egon Schwarz, the Rosa May Distinguished University Professor Emeritus in the Humanities; and Steven P. Scher, prof. of German and comparative literature, Dartmouth College. Room 149 McMillan Hall. 935-5106. (See story on page 6.)

**8 p.m. OVATIONS! Series concert.** Fortepiano recital. Music of Franz Schubert and Johannes Brahms. Malcolm Bilson, fortepianist and prof. of music, Cornell U., with Seth Carlin, prof. of music. Cost: \$23. Edison Theatre. 935-4841 or 935-6543.

### Sunday, Oct. 19

**2:30 p.m. Art lecture.** "Egon Schiele: Masculine Crisis and Expressionist Art." Gerald N. Izenberg, prof. of history. Saint Louis Art Museum Aud., 1 Fine Arts Dr. 935-4841.

**4:15 p.m. Concert.** "Liederabend — Music of Schubert and Brahms." Myron Myers, bass; Maryse Carlin, fortepiano. Steinberg Aud. 935-4841. (See story on page 6.)

### Monday, Oct. 20

**8 p.m. Chamber music concert.** Johannes Brahms' "Horn Trio in E-Flat Major." Tod Bowermaster, horn; Dana Edson, violin; Seth Carlin, piano. Sheldon Concert Hall, 3648 Washington Blvd. 534-1700.

### Friday, Oct. 24

**8 p.m. Piano recital.** Music of Franz Liszt and Franz Schubert. Matthias Soucek, piano. Steinberg Aud. 935-4841. (See story on page 6.)



## Noted architect Daniel Libeskind explores 'Beyond the Wall' Oct. 23

Architect Daniel Libeskind, whose designs for the new Jewish Museum in Berlin have been described as "intense" and "disorienting," will give a lecture titled "Beyond the Wall" at 8 p.m. Thursday, Oct. 23, in Steinberg Hall Auditorium. His lecture is part of the School of Architecture's ongoing Monday Night Lecture Series.

The Jewish Museum is currently under construction. The structure follows a Star of David pattern and embodies dramatic refractions of light interplaying with bands of glass and concrete. The design also includes a windowless Holocaust tower and a "void," an empty space of raw concrete that runs the length of the museum. The disconcerting atmosphere of the "void" is augmented by the absence of insulation, heating and air-conditioning. Other attributes include a sculpture garden with 48 concrete columns, signifying the year Israel was founded, and a "Book of Names" listing the Jews who were deported from Berlin during World War II.

Libeskind has noted that in the design he sought to capture Jewish citizens' cultural contributions to Berlin; the "altering, axial event" of the Holocaust; and how ultimately "through a particular form of absence, life can have meaning and an optimistic, hopeful direction."

"The museum ... is a new emblem of hope," he concluded. "It underscores the necessity to create a different — and by different, I mean ethical — architecture for the 21st century, which is based on a fundamentally transformed political, cultural and spiritual experience of the 21st century."

Another emotionally charged project is Libeskind's solution to an urban design competition for the site of the first con-

centration camp in history, in Oranienburg, Germany. Through landscape architectural techniques, site orientation and maintaining some of the decaying historical buildings, Libeskind strives to underline the history of the site. At the same time, he also designed part of the site to look to the future through the use of new vegetation and the inclusion of a library, educational centers and social facilities.

Among his other work, Libeskind recently won competitions to design an extension to the Victoria and Albert Museum in London and to the Philharmonic Hall in Bremen, Germany. He also designed the Imperial War Museum of the North, Manchester, England; the Uozu Mountain Pavilion, Uozu, Japan; an extension to the National Gallery, Dublin, Ireland; the new Synagogue and Jewish Community Center, Duisberg, Germany; and the new Ministry of Foreign Affairs, Berlin.

A native of Poland, Libeskind studied music in Israel before receiving a bachelor of architecture degree from the Cooper Union for the Advancement of Science and Art, New York City. He earned a postgraduate degree in history and theory of architecture at the School of Comparative Studies at Essex University, England.

Libeskind has an architectural practice based in Berlin. He is a professor at the University of California-Los Angeles and a guest professor at both the Berlage Institute in Amsterdam and at ETH in Zurich. He has taught and lectured at universities worldwide and his work has been exhibited internationally.

For information, call (314) 935-6200.



### 'Nu-wave a cappella'

The Bobs, a "band without instruments," bring their music to Edison Theatre at 8 p.m. Oct. 24 and 25. The singers accompany one another with a variety of mimicked instrument sounds. Four University a cappella groups — the Greenleafs, Mosaic Whispers, Mach One and the Amateurs — also will perform. Tickets are \$23. For more information, call (314) 935-6543.

## Sports

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

### Football Bears play for UAA title this week

After falling 39-7 at Trinity University this past weekend — the Bears' second successive road defeat — Washington University returns to University Athletic Association (UAA) action this Saturday taking on Carnegie Mellon University in a game that could decide the 1997 conference championship. Both the Bears and Tartans, who have shared the last three UAA crowns, have 1-0 league records.

Current Record: 3-2 (1-0 UAA)

This Week: 2 p.m. (EDT) Saturday, Oct. 18, at Carnegie Mellon University, Pittsburgh, Pa.

### Cross country squads place third at meet

Washington University's men's and women's cross country teams both placed third Saturday in the All-Missouri/Border States Championships at Forest Park. The women were paced by junior Emily Richard, who won her fourth consecutive meet and earned medalist honors for the fifth time in six weeks. Senior Tyler Small led the men's team with a seventh-place showing.

This Week: 11 a.m. Saturday, Oct. 18, at University of Wisconsin-La Crosse Invitational, La Crosse, Wis.

### Volleyball extends win streak to 12

The fourth-ranked volleyball team extended its winning streak to 12 matches with four victories and the title of the WU Classic. Junior middle blocker Jennifer Martz hit .594 in the four matches as the Bears defeated Savannah (Ga.) College of Art and Design, Simpson College (Iowa), Southwestern University (Texas) and 12th-ranked Central College (Iowa). This

Thursday, the Bears take on NAIA-ranked No. 2 Columbia College at home before hosting their final tournament of the season Friday and Saturday in the Field House.

Current Record: 19-5 (8-0 UAA)

This Week: 7 p.m. Thursday, Oct. 16, vs. Columbia College, WU Field House; 5:30 and 7:30 p.m. Friday, Oct. 17, vs. University of Wisconsin-La Crosse and Illinois College, WU Field House; 10 a.m. and 3 p.m. Saturday, Oct. 18, vs. Thomas More College (Ky.) and DePauw University (Ind.), Field House.

### Men's soccer wins pair of region games

The men's soccer team halted its two-game losing skid with a pair of inter-region victories over the University of Wisconsin-Oshkosh, 3-2 in overtime, and Benedictine University (Ill.), 6-0.

Current Record: 7-3 (1-2 UAA)

This Week: 11 a.m. Saturday, Oct. 18, at University of Chicago, Chicago, Ill.; 7:30 p.m. Monday, Oct. 20, vs. Wheaton College, Francis Field.

### Women's soccer wins pair of road games

Washington University's 14th-ranked women's soccer team strengthened its bid for an NCAA tournament bid and put the brakes on a two-game losing skid with a pair of non-conference road victories. The Bears posted a 3-2 victory Saturday at Gustavus Adolphus College (Minn.) and a 2-1 victory Sunday over Macalester College (Minn.).

Current Record: 9-3 (1-2 UAA)

This Week: 7:30 p.m. Wednesday, Oct. 15, vs. Maryville University, Francis Field; 1:30 p.m. Saturday, Oct. 18, at University of Chicago.

## Sen. Bond to join NSF's Neal Lane at Assembly Series lecture Oct. 17

Neal Lane, director of the National Science Foundation (NSF), will deliver a lecture titled "The Changing Face of Science" at 4 p.m.

Friday, Oct. 17, as part of the Assembly Series. Sen. Christopher Bond, R-Mo., is slated to attend the lecture and speak briefly. The lecture will take place in Simon Hall's May Auditorium.

Lane became the director of the NSF, an independent agency of the federal government providing support for research and education in science, mathematics, engineering and technology, in 1993. A



Neal Lane

distinguished physicist, he has authored or co-authored more than 90 scientific papers and publications, including a textbook on quantum physics, and has made numerous presentations on science and science policy. From 1986 to 1993, Lane was provost and professor of physics at Rice University, where he had been tenured since 1966.

Lane received an NSF Post-doctoral Fellowship and an Alfred P. Sloan Fellowship early in his career and was a two-time recipient of Rice University's George R. Brown Prize for Superior Teaching. He is also a fellow of the American Physical Society, the American Academy of Arts and Sciences and the American Association for the Advancement of Science.

The lecture is free and open to the public. For information, call (314) 935-5285.

## NPR's Ray Suarez to speak on the American city Oct. 22

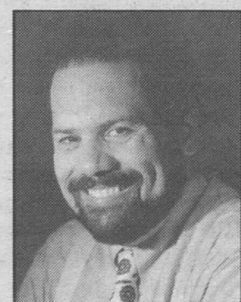
Ray Suarez, host of National Public Radio's daily "Talk of the Nation," will deliver a lecture titled "The Exuberant Rebirth and Premature Death of the American City" in Graham Chapel at 11 a.m. Wednesday, Oct. 22, as part of the Assembly Series. There will be an informal discussion with Suarez at 2 p.m. in the Women's Building Formal Lounge. Both events are free and open to the public.

Suarez has been host of the nationwide call-in news program since 1993. Widely admired in the national press for its innovative talk format, "Talk of the Nation" won the prestigious 1993-94 Alfred I. du Pont-Columbia University Silver Baton Award as part of NPR's coverage of South Africa's first all-race elections, for which Suarez hosted the program from Johannesburg. Suarez

was named one of the Los Angeles Times' "100 People to Watch in 1996" and one of Utne Reader's "Visionaries,"

also in 1996. His recently completed book on white flight and the American city is scheduled to appear in 1998.

In 20 years of news broadcasting experience, Suarez has served as Los Angeles



Ray Suarez

correspondent for CNN, producer for the ABC Radio Network, reporter for CBS Radio in Rome and for a variety of American and British news services.

For information, call (314) 935-5285.





### Music for the eyes

An exhibition of etchings by contemporary Austrian artist Herwig Zens, including "Frühlingstraum" (detail, above), opened this month as part of Vienna Fest 1997. "Die Winterreise (Winter Journey): A Graphic Cycle After Franz Schubert" is based on Schubert's song cycle of the same name. The exhibition is organized by the Austrian Cultural Institute, New York, and runs through Nov. 20 in the Music Classroom Building. (Reprinted with permission of the Austrian Cultural Institute.)

## Vienna Fest colloquium focuses on Austrian literature and music

Washington University will present "A Vienna Fest Colloquium on the Occasion of Egon Schwarz's 75th Birthday" at 2:30 p.m. Saturday, Oct. 18, in Room 149 McMillan Hall. The colloquium will explore aspects of Austrian literature and music.

Participants will include Paul Michael Lützel, Ph.D., the Rosa May Distinguished University Professor in the Humanities and professor of Germanic languages and literatures in Arts and Sciences; Egon Schwarz, Ph.D., the Rosa May Distinguished University Professor Emeritus in the Humanities and professor emeritus of Germanic languages and literatures; and Steven P. Scher, professor of German and comparative literature at Dartmouth College. Lützel will speak on "Double Exclusions: The Case

of Austrian Exile Literature," Schwarz on "From Insect to the Solar System: Adalbert Stifter and the Austrian Biedermeier" and Scher on "What is a Lied? Schubert and His Poets."

A reception for Schwarz, a world-renowned expert on German literature who taught at the University from 1961 to 1993, will follow the colloquium.

The colloquium is sponsored by the Department of Germanic Languages and Literatures as part of Vienna Fest 1997, a yearlong festival of music, art, history and culture observing the 200th anniversary of Franz Schubert's birth and the centenary of Johannes Brahms' death through concerts, lectures, courses, theater, exhibitions and dance.

Both the colloquium and the reception are free and open to the public. For more information, call (314) 935-5106.

## Two Vienna Fest concerts are planned

The Department of Music in Arts and Sciences is presenting two concerts in October as part of Vienna Fest 1997.

At 4:15 p.m. Sunday, Oct. 19, the music department and the Department of Germanic Languages and Literatures in Arts and Sciences will present "Liederabend — Music of Schubert and Brahms," performed by Maryse Carlin, instructor in harpsichord and piano in the department, and Myron Myers, instructor in voice, Northern Illinois University. The program will include a number of Franz Schubert's songs based on

Goethe's poetic texts, as well as Johannes Brahms' "Four Serious Songs."

At 8 p.m. Oct. 24 the music department and the Austrian Society of St. Louis will present a piano recital by Matthias Soucek, a 19-year-old pianist from Vienna. The program will include Franz Liszt's "Sonetto 123 del Petrarca" and operatic paraphrases, as well as Schubert's "Sonata in A minor, D. 784."

Both concerts are free and open to the public and will take place in Steinberg Hall Auditorium. For more information, call (314) 935-4841.

## Campus Watch

The following incidents were reported to the University Police Department from Oct. 6-12. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety awareness on campus.

### Oct. 6

8:58 a.m. — A staff member reported that an AM/FM cassette recorder was stolen from a desk at Olin Library.

9:56 a.m. — A staff member reported that a 19-inch television/VCR was stolen from McMillan Hall.

### Oct. 7

2:39 p.m. — A student reported the theft of a bicycle, which had been locked to a rack at Dauten Residence Hall.

### Oct. 11

1:31 a.m. — Three students attending a dance in Wohl Center reported the theft

of their wallets containing credit cards, checks and cash.

### Oct. 12

2:31 a.m. — A student reported vandalism to the rear window of a car parked on Shepley Drive.

2:32 a.m. — A student reported several other students with food items taken from the Mallinckrodt Food Court. Officers investigating the report discovered that the gate securing the Food Court had not been locked. Marriott Management was notified.

University Police also responded to three additional reports of bicycle theft, one attempted bicycle theft and one additional theft report.

## Alumni, Brookings awards honor eight at Founders Day

The Distinguished Alumni Award, given to six persons who have demonstrated professional achievement, public service or exceptional service to Washington University, and the Robert S. Brookings Award, presented to two recipients who have furthered the alliance between the University and its community, will be awarded at the Founders Day banquet Oct. 24 at the America's Center, St. Louis.

Former British Prime Minister Margaret Thatcher will give the keynote address at the event.

*This year's Distinguished Alumni are:*

### Jack Bodine

Bodine retired in 1990 as executive vice president and co-owner of Bodine Aluminum Inc., a firm he helped build into a leader in aluminum manufacturing.

Bodine earned a bachelor's degree in industrial engineering from the School of Engineering and Applied Science in 1949 and an M.B.A. from the John M. Olin School of Business in 1955. He is a long-time member of the engineering school's Advisory Council. He is a life member of Washington University's William Greenleaf Eliot Society and a past member of the Alumni Board of Governors.

Bodine has provided leadership for numerous professional groups, including the Non-Ferrous Founder's Society, the American Foundrymen's Society and the Cast Metals Institute.

### William Terry Fuldner

Fuldner grew his company, EFCO Corp., from a small enterprise into the leading manufacturer of custom-made commercial windows and one of the largest employers in southwest Missouri. Then-President Ronald Reagan chose Fuldner as the National Small Business Person of the Year in 1984 in recognition of his entrepreneurial spirit and leadership. Last year, Fuldner received the Missourian Award from Gov. Mel Carnahan for his contributions in commerce.

Fuldner graduated with a bachelor's degree in industrial engineering in 1949. He is a member of the Eliot Society and contributes toward scholarships in engineering and applied science and in architecture.

### Edward Hager, M.D.

Hager graduated from Amherst College before attending Washington University School of Medicine, where he received a medical degree in 1955. Following his residencies, he joined the faculty of Harvard Medical School where he directed the Kidney Transplant Clinic and was a member of the team that performed the first successful human kidney transplant.

To make life-saving artificial kidney care widely available, Hager and a colleague founded the first out-of-hospital artificial kidney center in 1964. In 1968, Hager co-founded National Medical Care Inc., now the world's largest provider of artificial kidney services, supplying dialysis for 50,000 patients worldwide.

Hager currently heads two firms — IGI Inc., a biotechnology company, and Noravax Inc., which develops human pharmaceuticals and vaccines.

### Lynne Cooper Harvey

Harvey, who earned both a bachelor's and a master's degree from the University, has been involved in the American radio scene for more than 35 years.

She began her broadcasting career at St. Louis radio station KXOK-AM reporting on women's news. It was during her on-air tenure that she met and married Paul Harvey and became his producer, editor and writing collaborator. Today, they run the Paul Harvey News, with listeners tuning in on more than 1,350 ABC Network radio stations in the United States and another 400 stations worldwide. In October 1997, Lynne Harvey was inducted into the Radio Hall of Fame as "the finest producer-director-manager-agent-compiler in the business."

Harvey is a member of the Eliot Society and has a keen interest in the development of the American Culture Studies Program here.

### E. Desmond Lee

A year before receiving a bachelor's degree in business in 1940, Lee co-founded the Lee-Rowan Co. with fellow student James P. Rowan. The company's first products were metal trouser creasers and a patented pants hanger. The business expanded to become one of the largest manufacturers of closet and bathroom accessories. In 1993, Lee-Rowan Co. became part of the Newell Co., a \$1.7 billion conglomerate.

Lee established the E. Desmond Lee Endowed Professorship for Community Collaboration at the University in 1996 and created a scholarship fund in connection with the new chair. At the business school, he helped initiate the K-12 Total Quality Schools Program. He is a long-time member of the Eliot Society.

Lee works diligently to improve education programs and the lives of inner-city children in St. Louis. He gives generous support to many St. Louis cultural institutions.

### Lawrence Thomas

As a business administration student at the University in 1977, Thomas began an internship at Edward Jones Investments that proved to be the beginning of a long career with the investment firm. After graduating in 1977, Thomas joined the firm's Corporate Bond Trading Department. Five years later, he became a principal in the firm. He now heads the firm's sales force in the northeastern United States.

Thomas is a member of the Alumni Association Executive Committee of the business school and is a past president. He is also an Eliot Fellow. He serves on the Executive Board of the National Black Alumni Council and led the St. Louis Chapter for three years. He is active in many professional organizations.

Thomas earned a master's in business administration from Northwestern University in 1994.

*Brookings Award recipients are:*

### Alvin Goldfarb

Goldfarb's long-standing relationship with Washington University is especially apparent in his contributions to the physical plant — the Alvin Goldfarb Auditorium in James S. McDonnell Hall; the Jeanette Goldfarb Plant Growth Facility; and the Alvin and Jeanette Goldfarb House, which is home to the St. Louis Hillel Center. The Alvin Goldfarb Hall at the George Warren Brown School of Social Work is scheduled for completion in spring 1998.

Together with his late wife, Jeanette Rudman Goldfarb, a 1936 graduate of the social work school, Goldfarb also has supported the business school's Scholars in Business Program and other scholarships.

Goldfarb is president of Worth's Inc., a St. Louis-based women's clothing store. He serves as director of the Jewish Federation of St. Louis and has been chair of the Israel Emergency Fund.

### Mitchell Yanow, M.D.

Yanow is founder and former chair of the board of Obstetrics and Gynecology Inc., a medical practice, and has served on the staff of four area hospitals. He is co-founder and former chair of Medicine Shoppe International Inc., a franchise of pharmacies with more than 1,000 stores in 48 states and several foreign countries, and is also co-founder and director of MICROTEK Document Imaging Systems Inc. In 1991, he was named St. Louis Master Entrepreneur of the Year.

After receiving a medical degree in 1941 from Washington University, Yanow completed an internship at Jewish Hospital, then entered the U.S. Navy. He returned to St. Louis for residencies at St. Louis City Hospital and Jewish Hospital.

The entranceway to the Bernard Becker Medical Library at the medical school was named in honor of Yanow and his wife, Elaine. He is a life member of the Eliot Society. He is establishing the first chair in the Department of Obstetrics and Gynecology in the medical school, to be known as the Mitchell and Elaine Yanow Professorship.



## Introducing new faculty members

*The following are among the new faculty members on the Hilltop Campus. Others will be introduced periodically in this space.*

**Randy L. Buckner, Ph.D.**, assistant professor of psychology in Arts and Sciences, of anatomy and neurobiology and of radiology in the School of Medicine, joins the faculty after earning several degrees from Washington University. He graduated magna cum laude in 1991 with a bachelor's degree in psychology, added a master's degree in psychology in 1993 and then received a doctorate in neuroscience in 1995. After working briefly as a postdoctoral fellow at the Washington University medical school and then at Massachusetts General Hospital, he was appointed to the faculty at the Harvard University School of Medicine, where he has been for the past year. His research interests include the use of neuroimaging to study memory and other brain functions. He coordinated the University's "Hands-on-Neuroscience" educational outreach program for local elementary and secondary schools from 1992-94.

**Melissa Jonson-Reid, Ph.D.**, assistant professor of social work, comes from the School of Social Welfare at the University of California at Berkeley, where she earned a doctoral degree in social welfare in 1997. She had worked since 1994 as a research associate in UC-Berkeley's Child Welfare Research Center. She holds two degrees from California State University at Sacramento — a bachelor's in psychology in 1988 and a master's in social work in 1990. Jonson-Reid has nearly a decade of experience working in California public schools as a social worker, counselor, consultant and program supervisor. Her research and teaching interests include school social work, inter-agency collaboration efforts, the crossover from child welfare to juvenile justice systems and the mitigation of the effects of family and community violence through child welfare and school-based programming.

## Ellis leaves 'enduring legacy' — from page 1

could have better served the School of Law as dean during this period of great growth and improved reputation among leading law schools. When others look back on the history of the School of Law, the Dan Ellis era will be regarded as the one that built the momentum to propel the school to the highest level."

Law school alumnus Donald Gallop added: "Dan has been an outstanding dean. He took the leadership role for Anheuser-Busch Hall through the conceptual stage, the campaign and the construction stage. ... During Dan's tenure, the quality of the faculty and student body also have improved dramatically."

When he became dean in August 1987, Ellis immediately began addressing the critical need for a new law school facility that would replace the cramped and inadequate Mudd Hall. Ellis' efforts — along with that 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 opened for classes in January, is a testament to Ellis' vision of combining the latest technological advances in legal education with the tradition of collegiate gothic architecture.

"Dean Ellis also faced a very vibrant and challenging student body that frequently voiced its opinions," said third-year law student Reuben O. Charles II, head of the school's Student Bar Association. "In my experience, his response to students' serious concerns was always swift and accommodating."

Under Ellis' leadership, the School of Law achieved its \$20 million "Building for a New Century" campaign goal in time for the building's Sept. 26 dedication and 21 months ahead of schedule. As part of the fund-raising effort, the school will

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

### Of note

**Kevin Bergquist**, assistant director of sports information, and **Mike Wolf**, assistant athletic director for media relations, along with the University's Office of Publications, garnered five publications awards at the College Sports Information Directors of America's annual conference last summer. Receiving "Best in the Nation, Division C" nods were the men's and women's basketball media guides. Also at the conference, Wolf was elected third vice president of the Collegiate Baseball Writers Association. ...

**Ronald G. Evens, M.D.**, the Elizabeth E. Mallinckrodt Professor of Radiology, head of the Department of Radiology and director of the Mallinckrodt Institute of Radiology, was selected by the American Roentgen Ray Society's (ARRS) Executive Council as one of three recipients of the 1997 ARRS Gold Medal Award for Distinguished Service to Radiology. ...

**David B. Gray, Ph.D.**, associate director of research for the Program in Occupational Therapy, has received an \$839,346 three-year grant from the National Center for Environmental Health for a project titled "Health Promotion for Persons with Disabilities and Prevention of Secondary Conditions." ...

**Jonathan M. Green, M.D.**, assistant professor of medicine and of pathology, has received a \$430,138 four-year grant from the National Heart, Lung and Blood Institute for a project titled "Mechanism of CD43 Regulation of Pulmonary Inflammation." ...

**Bonnie Lawrence**, a doctoral candidate in the Department of Psychology in Arts and Sciences, received a grant-in-aid from Sigma Xi, the research society for the National Academy of Sciences, for a project that will examine visual attention, eye movements and working memory. ...

**Anthony J. Muslin, M.D.**, assistant professor of medicine and of cell biology and physiology, has received an \$806,880 four-year grant from the National Institute

receive a \$750,000 challenge grant from the Kresge Foundation.

Law school alumnus William H. Webster, who chaired the school's building fund campaign, noted: "In my 50 years of association with the law school, I have worked with every dean. Many were outstanding, but none possessed more of the quality to bind together the faculty, students and alumni in the pursuit of greatness."

Kathleen F. Brickey, J.D., the James Carr Professor of Criminal Jurisprudence, added: "Dan clearly leaves the school much stronger than he found it. He leaves an enduring legacy of not only a world-class teaching and research facility, but also a faculty that has grown in size, strength and stature during his tenure. The school has become a dynamic institution."

Of the 31 tenured and tenure-track professors at the school, nearly half were appointed during Ellis' term as dean. For the first time in its history, the school also appointed two former U.S. Supreme Court clerks to the faculty.

Other major accomplishments include: strengthening the school's interdisciplinary teaching through the establishment of joint-degree programs; expanding the school's international ties through faculty scholarship and advanced-degree programs for lawyers from other countries; merging computer and library services into a single information resources department; increasing the number and scope of planning and drafting courses; stimulating the creation of a long-range planning report for the school; and hosting numerous legal conferences.

As a professor of law, Ellis taught in the areas of torts 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. — *Ann Nicholson*

# For The Record

of General Medical Sciences for a project titled "14-3-3 Protein Function in Cell Growth and Motility." ...

**James A. Purdy, Ph.D.**, professor of radiology, associate director of the Mallinckrodt Institute of Radiology's Radiation Oncology Center and chief of the radiation oncology physics section, has received the William D. Coolidge Award, presented by the American Association of Physicists in Medicine. The Coolidge Award is the association's highest honor, denoting distinguished contributions to the scientific practice of medical physics. ...

**Shirley A. Sahrman, Ph.D.**, associate professor of physical therapy and of neurology and instructor of cell biology and physiology, recently received two of the highest accolades bestowed by the American Physical Therapy Association (APTA). At the association's recent conference, Sahrman was given the 1997 Henry O. and Florence P. Kendall Practice Award, which recognizes excellence in clinical practice. She also was selected for the APTA's highest honor, the Mary McMillan Lectureship, which carries with it the opportunity to address the membership at the 1998 conference. ...

**Mary M. Zutter, M.D.**, associate professor of pathology, has received a \$1,064,560 four-year grant from the National Heart, Lung and Blood Institute for a project titled "Megakaryocytic Regulation of the Alpha-2 Integrin Gene." ...

A team from the **rheumatology division** in the School of Medicine raised \$1,100 for the Arthritis Foundation by participating in the event "A Joint Parade, Walk for Arthritis" last spring.

### On assignment

**Joanna B. Downer**, a fifth-year graduate student in the Department of Chemistry in Arts and Sciences, was awarded a Mass Media Fellowship by the American Association for the Advancement of Science last summer. Serving a 10-week stint as a science reporter for Time magazine at the Washington, D.C., bureau, she reported nine stories with bylines, including two on Mars, one on magnetic pain therapy, three on the environment and two profiles for an upcoming special issue on "Heroes of Medicine." Downer also has written nine biographies accepted for publication in Oxford University Press' "American National Biography Project." ...

**David W. Marchant**, artist in residence in performing arts in Arts and Sciences, restaged his dance quintet "One Second Before Time" for Dance Repertory San Francisco last August. Marchant also delivered a workshop titled "Focus, Perception and Motion: An Experimental Examination of the Effect of Visual Sensory Perception on Sensation and Expression of Bodily Motion" at the American Dance Festival, held last summer at Duke University in Durham, N.C.

## Gass' work wins accolades — from page 1

"The Tunnel" (1996) and a short story collection, "In the Heart of the Heart of the Country" (1968). He also is the author of five collections of essays, two of which — "Habitations of the Word" (1985) and "Finding a Form" (1996) — have won National Book Critics Circle awards for criticism. His "Cartesian Sonata: Four Novellas" will be published next year by Knopf, and he recently has completed a translation of Rainer Maria Rilke's "Duino Elegies," titled "Reading Rilke." Gass currently is working on "Body, Book and Building: Essays on Literature and Architecture," as well as a collection of his photographs, which will illustrate a book on the aesthetics of photography.

Gass joined the Washington University faculty in 1969 as a full professor and was named the David May Distinguished University Professor in the Humanities in 1979. In 1990, he founded the International Writers Center, which presents an annual reading series and other programs and events. He continues to serve as its director.

A native of Fargo, N.D., Gass received

Last spring in Chicago, he presented master classes at Hubbard Street Studios and at the Chicago Academy of the Arts. ...

**Shankar M.L. Sastry, Ph.D.**, professor of physical metallurgy and material science in the Department of Mechanical Engineering, participated as a Distinguished Faculty Fellow at the Naval Research Laboratory (NRL) in Washington, D.C. He spent 10 weeks last summer at the NRL collaborating with researchers in the area of nanocrystalline materials research. His research culminated in the identification of novel synthesis and consolidation routes to produce "clean" nanocrystalline materials with improved properties.

### Speaking of

**Violet E. Horvath**, project manager and study coordinator in the George Warren Brown School of Social Work, recently presented a paper she co-authored, titled "Pathological Gambling and Child Neglect: A Cause for Concern," at two conferences — the International Conference on Gambling and Risk-taking in Montreal, Canada, and the International Family Violence Research Conference in Durham, N.H.

### To press

**Elizabeth C. Childs, Ph.D.**, assistant professor of art history and archaeology in Arts and Sciences, has edited a book titled "Suspended License: Censorship and the Visual Arts," which was recently published by the University of Washington Press. Childs also wrote the book's introduction and one of the 12 essays, titled "The Body Impolitic: Censorship and the Career of Honore Daumier." That essay also is being anthologized in a forthcoming book titled "Making the News: Modernity and the Mass Press in 19th-century France." ...

**Stephen P. Leet**, associate professor of architecture, has received two grants for a book to be published by the School of Architecture and the Princeton Architectural Press. He is editing a book on Richard Neutra's Miller House, which is the first in a series he is editing, titled "Primary Material: Sources and Documents of 20th-century Architecture and Design." Leet received a \$5,000 grant from the Graham Foundation and a \$5,000 Futhermore Grant from the Kaplan Fund for the project.

### Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a typed 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 (314) 935-5293.

a bachelor's degree in philosophy in 1947 from Kenyon College in Gambier, Ohio, and a doctorate in philosophy in 1954 from Cornell University. Before coming to St. Louis, he taught philosophy at Purdue University for 14 years.

The Lannan Foundation, based in Santa Fe, N.M., and Santa Monica, Calif., was established in 1960 by the late entrepreneur and financier J. Patrick Lannan and is dedicated "to preserving the wholeness, clarity and strength of the English language." In addition to the literary awards, the foundation underwrites grants to nonprofit organizations (including the International Writers Center's Reading Series); produces the "Lannan Literary Videos" series, which features major contemporary writers reading and discussing their work; and sponsors a literary reading series, "Readings & Conversations" in Los Angeles.

Five other writers received \$75,000 awards. They are John Banville, Anne Michaels and Grace Paley for fiction, David Quammen for non-fiction and Ken Smith for poetry.



# 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 (314)935-9836. Staff members may call (314)935-5906.

**Program Coordinator 980098.** International Writer's Center. Requirements: bachelor's degree;

familiarity with Microsoft Word, PageMaker, Filemaker Pro and Excel for Macintosh. Responsibilities include coordinating all programs and services of the International Writer's Center with members of the campus and the St. Louis community.

**Office Assistant 980110.** Social Work. Requirements: secretarial school or two years of college; two years experience in office setting; strong computer background, including data entry, Microsoft Office and database skills; strong interpersonal and telephone communication skills; flexibility; organizational skills; and the ability to accomplish multiple tasks. Responsibilities include assisting the co-

ordinator for field education in the GWB School of Social Work in providing support for students, field instructors and Office of Field Education staff in practicum activities.

**Communications Coordinator 980114.** Public Affairs. Requirements: associate's degree or equivalent experience; specialized computer skills, including Macintosh word processing, fax modem transmission and database management; general knowledge of desktop publishing; ability to learn new applications; specialized secretarial and business training; one to two years professional experience; solid understanding of and commitment to professional public

relations standards; commitment to work within the University's established organizational structure, to independent higher education and to Washington University.

**University Communications Secretary 980115.** Public Affairs. Requirements: high school diploma, some college preferred; one to two years secretarial/receptionist experience or training; accurate typing (at least 60 wpm); general knowledge of executive office procedures; excellent telephone skills; willingness to assume responsibility and carry out duties with a minimum of supervision; ability to work well with others and deal effectively with the public; ability to use office computer system for many tasks formerly accomplished on a typewriter, or willingness to learn system thoroughly and quickly; understanding of and commitment to professional public relations standards; commitment to work within the University's established organizational structure.

statistical packages SAS; designing experiments, clinical trials and epidemiological studies; database design, implementation and data maintenance; statistical consulting; and designing and developing data entry systems for research data entry.

**Technologist 980203.** Requirements: bachelor's degree in biology, chemistry or related discipline; experience with protein purification; excellent biochemical technical ability and working knowledge of computers. Responsibilities include protein purification; enzyme assays; cloning; gene expression; and tissue culture.

**Financial Analyst 980285.** Requirements: bachelor's degree in business or related field and three to four years related business experience, or an MBA or other advanced degree in related field and related intern experience. Responsibilities include general program and finance planning analyses and initiatives at the School of Medicine; maintaining, enhancing and producing the school's Capital Planning Model; serving as lead financial person for annual capital planning retreat; secondary support for maintenance, enhancement and production of the school's Resource Allocation Model and the Faculty Analysis Report/Model; help with continuing development of the Managed Care Economics Model; assisting with departmental financial/re-

source planning process, inter-institutional planning and the production and development of other planning models and analyses as needed.

**Secretary (part time) 980445.** Requirements: high school diploma or equivalent with secretarial experience; strong organizational skills and Microsoft Word experience; typing skills (50 wpm); good telephone skills; available to work at least four days a week. Responsibilities include answering phones; typing correspondence, memos and manuscripts; filing and maintaining documents; replenishing supplies; and scheduling meetings and appointments.

**Medical Research Technician 980523.** Requirements: bachelor's degree in chemistry or biology, or three years experience in 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 PIs. Responsibilities include conducting experiments using fluorescence microscopy to examine cells and tissues; minor surgery on small rodents; preparing solutions; and placing orders for supplies. Flexible hours.

## Information technology planning process begins with Oct. 22 event

Washington University will inaugurate its Universitywide information technology planning process with a kick-off event Wednesday, Oct. 22. "Information Technology and the Future of the University" will bring three nationally known technology specialists to campus from 10 a.m. to 12:30 p.m. in Moore Auditorium in the School of Medicine's North Building. The program, which is free and open to the University community, will address the trends and challenges in higher education and the application of technology in addressing those challenges.

The gathering is intended to focus and energize the 60 members of the newly formed Information Technology Planning task forces. In the coming months, the groups will assess the University's existing technological resources, identify opportunities, set priorities and establish needs for the future. The goal is to pursue the meaningful and creative use of technology to enhance the University's mission of education and research, to lead to a more effective learning and living environment for students and to yield improvements in the quality of administrative services.

Eight task forces will be guided by a steering committee chaired by Shirley K. Baker, vice chancellor for information technology. Other steering committee members are Martin Dubetz, director of the Office of Network Coordinator; Bill Smith, director of Computing and Information Systems; Paul Buchanan, director for computing and communications, University Libraries; and the chair of each task force.

An overall plan for the University's education, research and administrative areas is expected to be presented to Chancellor Mark S. Wrighton in March 1998.

In his charge to the group, Wrighton said: "Advances in information science and technology now present both exciting opportunities and vexing challenges to universities. ... It is prudent to undertake a comprehensive planning process to chart the future course of University investments in information technology."

Speakers at the Oct. 22 event will be: James J. Duderstadt, Ph.D., president emeritus and professor of science and engineering at the University of Michigan, who will speak on "Implications of the Digital Age for Higher Education";

Daniel Updegrove, Ph.D., university director of Information Technology Services at Yale University, who will discuss "Technology for Managing and Linking the University"; and

Alan Filreis, Ph.D., professor of English at the University of Pennsylvania, who will address "Distributing the Core: The End of the Lecture as We Know It."

Baker expects the kick-off to stimulate ideas. "We hope to be encouraged to think outside the box, to gain a sense of the possible and to recognize the importance of taking practical steps," she said.

An information technology planning Web site has been established at [www.wustl.edu/techplan](http://www.wustl.edu/techplan). For more information about the Oct. 22 event and to register, call (314) 935-5400 or e-mail [vcit@wustl.edu](mailto:vcit@wustl.edu).

## Medical Campus

The following is a partial list of positions available at the school of medicine. Employees interested should contact the Human Resources Department of the Medical School at (314) 362-7196 to request applications. External candidates may call (314) 362-7195 for information regarding applicant procedures or may submit resumes to the Human Resources Office located at 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>.

**Statistical Data Analyst 971250.** Requirements: bachelor's degree, in statistics, computer science or related field, master's degree preferred; experience in biomedical and/or clinical studies preferred; SAS experience and proficiency with data analysis and/or data management; PC/UNIX knowledge; report writing, organizational and communication skills. Responsibilities include data management and/or data analysis for research investigators using

## Seminars to explain retirement accounts

The Office of Human Resources will hold four brown-bag seminars Oct. 21-23 to review and explain the TIAA-CREF and Vanguard quarterly statements and annual reports.

The 50-minute seminars will be held on all three campuses as follows:

• **West Campus:** Noon, Tuesday, Oct. 21, Room B, lower level, Human Resources Training Center, 7507 Forsyth Blvd.

• **Hilltop Campus:** Noon, Wednesday, Oct. 22, Room 101 Lopata Hall

• **Medical Campus:** 11 a.m. and noon, Thursday, Oct. 23, Schwarz Auditorium.

For more information and to make reservations, call the benefits office on your campus.

## Center is collaborative effort— from page 1

trial and governmental partners are expected to take part as well, he added.

Gould, chair of the department since 1978, was influential in changing the earthquake building code for new and existing buildings throughout St. Louis County in the 1970s. He said nearly 50,000 buildings and bridges in the area are at risk in the event of an earthquake of 6.0 or higher on the Richter Scale.

"People don't often think about it, but St. Louis is practically an island, with Highway 100 the only major highway that doesn't cross a bridge," he said. "Thus, in this area, the transportation network, including bridges, is of major concern if and when we have a major earthquake in the region."

In 1993, Gould was elected national director of the California-based Earthquake Engineering Research Institute (EERI), one of the first Midwestern engineers to hold the post. He was influential in starting the first student chapter of EERI at Washington University, and more than a dozen universities across the nation followed suit. He is also vice-chair of the advisory board of the Missouri Seismic Safety Commission, which reports to the state legislature.

Under Gould's guidance, the University developed both a master's degree in structural engineering with specialization in earthquake engineering and a 10-hour program leading to a certificate in earthquake engineering. The certificate program is the first of its kind in the nation. Both programs are directed by Kevin Z. Truman, Ph.D., professor of civil engineering, and have solidified the University's position as a leader in earthquake engineering.

"We're going to look to our collaborators to develop more educational tools, including multimedia and remote teleconferencing possibilities, to build upon our strong graduate foundation," Gould said. "We hope to team up with local libraries, science teacher associations and the St. Louis Science Center to disseminate information."

Gould said there are plans to hold a Mid-America Center annual conference that will bring students and faculty together from all the center partners. He said the St. Louis construction industry also should benefit because of the focus on developing and disseminating technology to rehabilitate existing structures for better resistance.

—Tony Fitzpatrick

## Millstone gift promises lasting impact— from page 1

have made lasting contributions to the St. Louis area and beyond."

William H. Danforth, chairman of the University's Board of Trustees, said, "This gift will have an impact in perpetuity on the lives of thousands of bright students." Millstone has served on the board since 1964. Danforth, who gave the introduction for Millstone when he received the St. Louis Award in 1995, described Millstone as "one of the most far-sighted men in St. Louis."

Millstone founded Millstone Construction Co. more than a half century ago. Although best known as the builder of such architectural monuments as Busch Memorial Stadium, Mercantile Tower and the Federal Building, his contributions in developing St. Louis' first public housing project, Laclede's Landing and various neighborhood revitalizations are no less significant. Many of the area's highways, parks and other infrastructure developments have been built by Millstone's company, along with Crestwood Plaza and Northwest Plaza, the first two suburban shopping centers in St. Louis.

The company's architectural influence extends beyond the metropolitan area and as far as Israel, where Millstone participated in planning housing for the influx of settlers after World War II.

Two of Millstone's grandsons are officers of the construction company, now called Millstone Bangert Inc. Mill-

stone remains active as president of K & M Investors and the Millstone Charitable Foundation.

Philanthropy is clearly an important part of Millstone's life. He has made many previous gifts to Washington University for support of the I.E. and Goldie Millstone Scholarships in the School of Engineering and Applied Science, the Goldie G. Millstone Scholarships in Arts and Sciences and the Danforth Scholars Program. A former Washington University championship swimmer, in 1986 he provided for the University's Millstone Pool Complex in the athletic facilities.

Millstone, widely recognized for community and corporate leadership, has been a lifelong supporter of many St. Louis cultural, educational and religious institutions, including the Jewish Community Centers Association, the United Way, the Missouri Botanical Garden and the Missouri Historical Society.

Millstone received a bachelor of science degree in architectural engineering from the University in 1927; his wife, Goldie, is a 1928 Arts and Sciences graduate. He received an honorary degree from the University in 1994.

"I.E. Millstone is one of the finest citizens of St. Louis, and Washington University is most fortunate to count him as one of our strongest supporters," Wrighton said.