10-16-1997

Washington University Record, October 16, 1997

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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 Washington in Seattle and the University of Memphis, St. Louis University and Texas A&M University, University of Illinois at Urbana-Champaign, University of Memphis, St. Louis University and the Massachusetts Institute of Technology.

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.

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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 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 continued 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-

Bill Gass receives prestigious award

William H. Gass, Ph.D., the David May Distinguished 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 contribution to English-language literature and emerging writers of distinctive literary talent demonstrating promise 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 in part, 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...
Bacterial trick may explain recurring bladder infections

Scientists identify proteins that regulate cell division

Respecting differences

Study to probe mechanisms of anesthetics

Bacterial trick may explain recurring bladder infections

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 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 (check 1) could add the key phosphate, Piwnica-Worms found.

F our groups of School of Medicine investigators are combining their efforts to study the cellular and molecular mechanisms by which anesthetics provoke 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 ground-breaking 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 Steinhoff, 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.

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

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

"E. coli is the world's most studied organism. Why don't we use our knowledge to figure out how 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 destroyed in macrophages and other small phagocytes 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. Intracellular 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, 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

WASHINGTON • UNIVERSITY- IN

Medical Update

Bacteriologic infections have long baffled doctors — and agonized patients — with their tenacity. A strong dose of antibiotics can bring relief, but the painful ailment has a remarkable knack for returning in as little as a few days. In a recent published study in the Oct. 9 issue of Science, Helen Piwnica-Worms, Ph.D., professor of medicine and an associate dean and director of the Office of Diversity at the School of Medicine, explained why these infections are so hard to culture. In a report published in the Oct. 9 issue of Nature, School of Medicine researchers explained why these infections are so hard to culture. In a report published in the Oct. 9 issue of Nature, School of Medicine researchers explained why these infections are so hard to culture.
Ludmerer finds key lessons in medicine's past

Renee C. Fox, M.D., sociologist of medicine at the University of Pennsylvania, has known Ludmerer for 17 years. She said: "Even though medical school facili-
ties 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 — demands the pro-
cess 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 1996, to be 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 15 to 10 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 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."

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

"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.
Exhibitions


Lectures

Thursday, Oct. 16


Friday, Oct. 17
9:15 a.m. Pediatric Grand Rounds. "Current Trends in Gastrointestinal De- velopmental Arrests." Martin M. Segal, assoc. prof. of pediatrics, pediatrics and toxicology, St. Louis U. School of Medicine, Clayton, Mo. 4590 Children's Place. 935-5528. (See page on 5.)

Saturday, Oct. 18

Monday, Oct. 20

Thursday, Oct. 23

Friday, Oct. 24

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

Friday, Oct. 24

Tuesday, Oct. 21

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. Motley Professor of Obstetrics and gynecology and chief; Division of Gynecologic Oncology, U. of Missouri Medical Center. 935-4760.

10 a.m. Information technology planning kickoff event. "Information Technology and the Future of the University." Speakers are James J. Dudertenstedt, U. of Mich.; Daniel Undergaug, U. of Arizona; and Alan Flitney, U. of Pa. To open to the University community. Moore- North Hall, Missouri. 935-5400. (See story on page 8.)


Music

Tuesday, Oct. 14
8 p.m. Student recital, Graham Chapel. 935-4841.

Friday, Oct. 17
8 p.m. OVATIONS! Series concert. The Marc, a San Francisco-based a cappella quartet. (Also Oct. 25, same time.) Cost: $23. Edison Auditorium. 935-6543.

Saturday, Oct. 25

Miscellany


Visit Washington University's on-line calendar at http://cf6000.wustl.edu/calendar/events/vl."

Wednesday, Oct. 22

Films

Thursday, Oct. 16

Wednesday, Oct. 22
4:00 p.m. Mechanical engineering seminar. "Roter Blade Vortex Interaction Noise With Active Blade Control." Yong Yu, dir., National Rotorcraft Technology Center, Ames Research Center, Mountain View, Calif. Room 100 Cups Hall. 935-6307.


Saturday, Oct. 25

Vienna Fest 1997

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

Saturday, Oct. 18
2:00-4 p.m. German dept. colloquium. "A Younger Generation: On the Occasion of Eugen Schwan's 75th Birthday." Featured speakers are Paul Michael Lützeler, the Rosa May Distin- guished University Professor in the Humanities; Eugen Schwan, the chairman of the established University Professor Emeritus in the Humanities; and Steven P. Shefer, prof. of German and comparative litera- ture, Dartmouth College. Room 149 McMillan Hall. 935-5516. (See story on page 8.)

Friday, Oct. 24
8 p.m. OVATIONS! Series concert. The Marc, a San Francisco-based a cappella quartet. (Also Oct. 25, same time.) Cost: $23. Edison Auditorium. 935-6543.

Sunday, Oct. 19

4:15 p.m. Concert. "Liederabend — Music of Schubert and Brahms." Myron Myers, harpist, and Lowell Britten Distin- guished University Professor Emeritus in the Humanities; and Steven P. Shefer, prof. of German and comparative litera- ture, Dartmouth College. Room 149 McMillan Hall. 935-5516. (See story on page 8.)

Monday, Oct. 20

Friday, Oct. 24
8 p.m. Final recital. Music of Franz Liszt and Franz Schubert. Matthias Soucek, pianist. Steinberg Auditorium. 935-4841. (See story on page 8.)

"Muttering Gracefully: An Update on Urology and Osteoporosis" (Nov. 1). Radio Theatre, 100 Campus Drive West Plaza; second annual "Fingers to Tomes: Contemporary Issues in Radiology" (Nov. 3). Sheldon Auditorium. 935-6200. (See story on page 8.)

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" or an empty chamber of glass 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 said that 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 optimistic, hopeful direction."

Another emotionally charged project is Libeskind's solution to an urban design competition for the site of the first concentration 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 Uzoo Mountain Pavilion, Uzoo, Japan; an extension to the National Gallery, Dublin, Ireland; the new Synagogue and Jewish Community Center, Dussberg, Germany; and the new Ministry of Foreign Affairs, Berlin.

A native of Poland, Libeskind studied music in Poland and architecture in the United States. He later became a professor at the Berlage Institute in Amsterdam and at ETH in Zurich. He has also lectured at universities worldwide and his work has been exhibited internationally.

For information, call (314) 935-6200.

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 "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 distinguished physicist, he has authored or co-authored more than 90 scientific papers and publications, including a text-book 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 Outstanding Teaching. He is also a fellow of 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 newspaper industry, he recently completed book on white flight and the American city is scheduled to appear in 1998.

In 26 years of news broadcast- ing experience, Suarez has served as Los Angeles 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.
Vienna Fest colloquium focuses on Austrian literature and music

Washington University will present "A Vienna Fest Colloquium on the Occasion of Eugen Schwartz's 75th Birthday" on Oct. 12, 3-5 p.m., in the Campus Club, South Pavilion. The colloquium will explore aspects of Austrian literature and music.

Participants will include Paul Michael Lilge, Ph.D., the Rosa May Distinquished University Professor in the Humanities and professor of Germanic languages and literatures in Arts and Sciences; Eugen Schwartz, Ph.D., the Rosa May Distinguished Professor Emeritus in the Humanities and professor emeritus of Germanic languages and literatures; and Steven P. Scher, professor of German and comparative literature in the Music Department and Organology Program. The program will include a chamber music performance by the New York University String Quartet.

Two Vienna Fest concerts are planned

The Department of Music in Arts and Sciences is presenting two concerts: one in October 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.)

The second concert is a Brahms' "Four Serious Songs." At 8 p.m. Oct. 24 the music department and 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 Johannes Brahms' birth and the centenary of Johannes Brahms' death. The colloquium and the concerts are free and open to the public. For more information, call (314) 935-5106.

Alumnae Brooksing awards honor eight at Founders Day

The Distinguished Alumnae Award, given to six women who have demonstrated professional achievement, public service or exceptional service to Washington University, and the Robert S. Brooksing Award, presented to two recipients, honor the alliance between the University and its community, with the presentations held on the Founders Day banquet Oct. 24 at the America's Center, St. Louis.

Former British Prime Minister Marga-

re Lee will give the keynote address at the event.

This year's Distinguished Alumnae are:

Jack Bodine
Bobine retired in 1990 as executive vice president and co-owner of Bobine Alumi-

ities, a firm that was founded by his father, a leader in aluminum manufacturing.

Bobine earned a bachelor's degree in industrial engineering from the School of Engineering and Applied Science in 1949 and as M.B.A. from Washington University School of Business in 1955. He is a long-
time member of the University's Advisory Council. He is a member of Washington University's William Greenleaf Eliot Fund and a past mem-

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Introducing new faculty members

The following are among the new faculty members at Duke University. Others will be introduced periodically in this space.

Randy L. Buckner, Ph.D., assistant professor of psychology in Arts and Sciences, and of anatomy and neurobiology in Medicine, joined the faculty after earning a doctoral degree from the University of California at Berkeley. He has been an assistant professor at the University of California at San Francisco since 1994. Buckner is a native of Fargo, N.D., and a graduate of the University of North Dakota, where he earned a bachelor's degree in psychology in 1983 and a master's degree in psychology in 1985.

Joseph B. Hall, Ph.D., associate professor of psychology in Arts and Sciences, joined the faculty after earning a doctoral degree from the University of California at Berkeley. He has been a postdoctoral fellow at the Washington University School of Medicine in St. Louis, Mo., since 1994.

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For The Record

For The Record contains news about a wide variety of faculty scholar 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 Communications, were recognized for their professional achievements at the College Sports Information Directors of America's annual convention last September. In the Division, C^2 nodules were the men's and women's basketball media relations. Wolf was elected third vice president of the College Sports Information Directors of America.

Ronald G. Evans, 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 Society's prestigious Roentgen Ray Award. 'Distinguished Service to Radiology,' David J. Landy, Ph.D., associate director of research for the Program in Ongoing Therapy, has received an $839,346 four-year grant from the National Heart, Lung and Blood Institute for a project titled "The Role of Angiogenesis in Promotion of Persons with Disabilities and Prevention of Secondary Conditions."

Joan B. Bower, Ph.D., assistant professor of medicine and of pathology, has received a four-year grant from the National Heart, Lung and Blood Institute for a project titled "Mechanisms of CTP Activity, Cytoplasmic Inflammation." John Q. Dempsey, a neurologist, a national candidate in the Department of Psychology in Arts and Sciences, received a grant-in-aid from the National Institute of Mental Health to support the Department's research on the relationship between stress and the development of psychiatric disorders.

Anthony J. Muslin, M.D., assistant professor of medicine and of cell biology and physiology, has received an $843,880 four-year grant from the National Institute of General Medical Sciences for a project titled "A-3-1-Protein Function in Cell Growth and Metabolism."

James A. Pardy, Ph.D., professor of radiology, associate professor of pathology, and director of the Mallinckrodt Institute of Radiology's Radiation Oncology Program, was named professor of radiology in the radiation oncology physics section, has received the William D. Coolidge Award, presented by the American Association of Physicians in Medicine. This 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 rehabilitation sciences, physiology and pharmacy, recently received two one-year and three-year grants, one on magnetic pain treatment, the other on pain perception and attention, eye movements and working memory.

Joanna B. Downer, a fifth-year graduate student in the Department of Chemistry in Arts and Sciences, has received the $650,000 McLellan Graduate Fellowship in 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 William D. Coolidge Award, which is named for the Washington University School of Medicine, serves as associate dean of the School of Social Work at the University of California at Berkeley, where she has been an adjunct professor since 1997. She has been a professor of psychology at the UC-Berkeley's Child Welfare Research Center. She holds two degrees from California State University, Sacramento — a bachelor's in psychology in 1988 and a master's in psychology in 1990. Jonson has nearly a decade of experience working in California public schools as a special education counselor, consultant and program supervisor. Her research and teaching interests include the promotion of early intervention, inter-agency collaboration efforts, the crossover training of professionals, the role of 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 and the Graduate School of Business with growth and improved reputation among leading law schools. When others look back on this period, it will be easier to study the influence of Dan Neutra's vision of combining the best of the private and the public schools to study the "highest level," Law school alumni Donald Galdoff added: "Dan has been an outstanding dean. He took the leadership role for Anheuser-Busch Hall, which is a 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 Dan stepped down in August 1987, Ellis immediately began addressing the critical need for a new law school facility — the critical need for the growth that Dan Ellis will be regarded as the one who made the law school larger than the campus. He went to the school to the highest level." 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Information technology planning process begins with Oct. 22 event

W ashington University will inaugu-
rate its University-wide information technology planning process with a kick-off event Wednesday, Oct. 22. “Informa-
tion Technology for the 21st Century” will address the trends and challenges for the future. The goal is to pur-
sue new opportunities, set priorities and establish a collaboratory.