

3-12-1998

Washington University Record, March 12, 1998

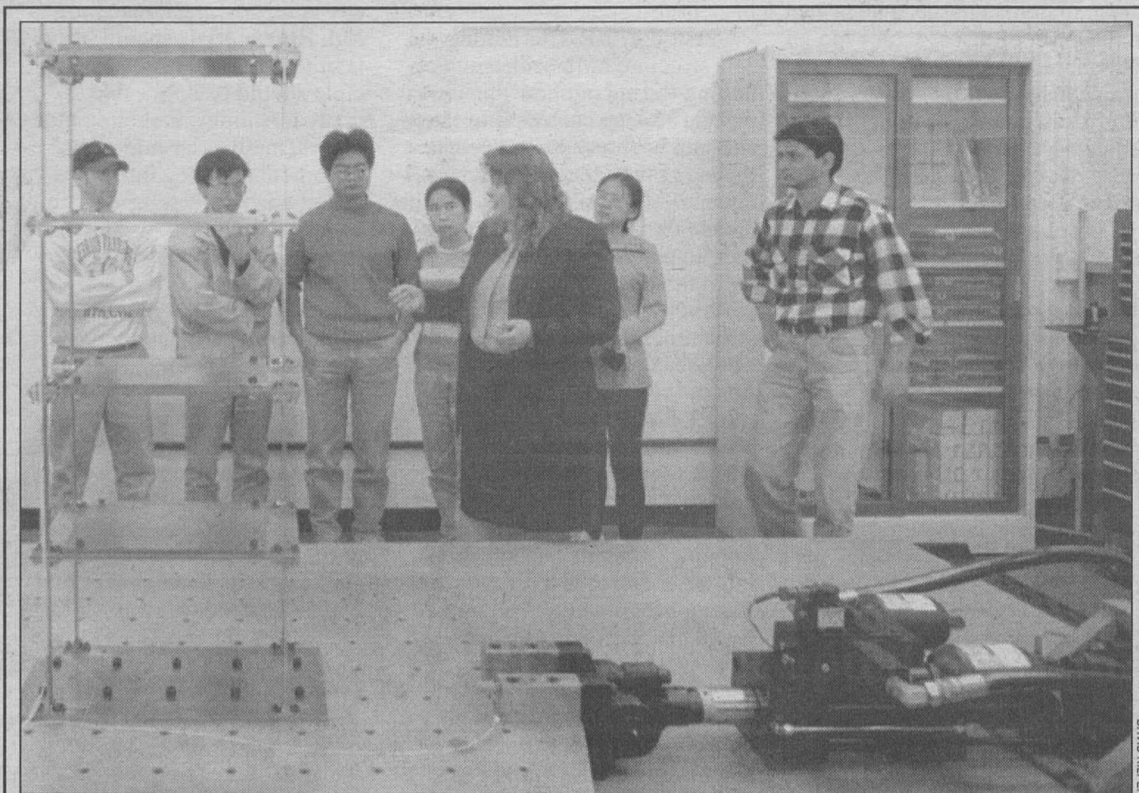
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MS SAMUELA
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Preparing for tremors

Shirley J. Dyke, Ph.D., assistant professor of civil engineering and director of the Structural Control and Earthquake Engineering Laboratory, prepares a demonstration of equipment that tests earthquake resistance systems for buildings and bridges. The Jolley Hall laboratory, part of the Mid-America Earthquake Center consortium of universities, was dedicated March 4th.

University receives \$6.5 million McDonnell pledge; new professorships established

Washington University has received a commitment of \$6.5 million from the JSM Charitable Trust, according to Chancellor Mark S. Wrighton. Of the total, \$6 million has been designated for the



Henry L. Roediger III

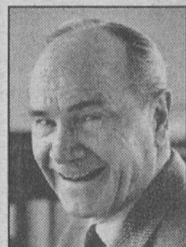
McDonnell Distinguished University Professorship is Henry L. Roediger III, professor of psychology and chair of the Depart-

ment of Psychology in Arts and Sciences. Roediger is being installed in the initial endowed chair in a ceremony March 10.

"The extent of the McDonnell family's generosity to Washington University has been extraordinary," Wrighton said. "Endowed professorships are the lifeblood of a great university, for they ensure the attraction and retention of the most outstanding scholars. We are truly grateful and indebted to the McDonnell family."

In presenting the gift to Wrighton, John F. McDonnell, trustee of the JSM Charitable Trust, noted that the gift will serve two broad purposes. "These professorships," he said, "will permit the University to advance its most important academic goals, on a Universitywide basis,

by providing Washington University the opportunity to promote



James S. McDonnell

present faculty members and to attract additional outstanding scholars. They will also memorialize some of the activities and interests important to our father, James S. McDonnell."

The late James S. McDonnell, aviation pioneer and founder of McDonnell Aircraft Corp, was deeply committed to research. "James McDonnell was especially supportive of Washington University during his lifetime in a

Continued on page 7

WU one of 29 in new Internet 'backbone'

Washington University is one of 29 universities that will be connected to the National Science Foundation's (NSF) very high performance Backbone Network Service (vBNS), a rapid Internet connection that allows scientists and engineers nationwide to collaborate and share powerful computing and data.

The University will receive \$350,000 from the NSF over the next two years to offset the cost of linking to the vBNS backbone.

The announcement was made Feb. 26 by President Bill Clinton at the 1998 Technology Confer-

ence in San Francisco. "By building an Internet that is faster and more advanced, we can keep the United States at the cutting edge of Internet technology and explore new applications in distance learning, telemedicine and scientific research," Clinton said.

Martin W. Dubetz, Ph.D., director of the Office of the Network Coordinator, is principal investigator for the grant, and Jerome R. Cox Jr., Sc.D., the Harold B. and Adelaide G. Welge Professor of Computer Science, is co-principal investigator.

"The vBNS lets researchers communicate with each other and

with the NSF Supercomputing Centers in scientific and engineering projects that require high speeds to send complex data," said Dubetz, who will secure installation of the backbone. "The regular Internet is just too busy and unpredictable. We have a solid connection to the regular Internet, or what's called the 'commodity' Internet, but when sending data from here to the San Diego Supercomputing Center on the regular Net we at times encounter bottlenecks that slow things down. It's the unpredictable nature of the

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New Olin program gives students global training

Twenty-seven students from the John M. Olin School of Business are returning this week from Chile and Argentina where they have spent 10 days working on projects for an innovative new course in global business management that they themselves helped design and implement.

The projects provided the students opportunities for research and for working in teams as business consultants on international projects for major U.S. companies.

The seven-week course, titled "Global Management Studies," was added to the business school curriculum this semester to give students a chance to immerse themselves in international business by studying and then visiting a chosen region or country over spring break to work on projects there.

A proposal from Lisa Jennings, a first-year Master of Business Administration student, and three other students to study the economic climate and business opportunities in Argentina and Chile was selected from a number submitted last fall.

Thanks to their proposal, the 27 students in the course's first class are learning business cultures in Argentina and Chile not only through readings, class discussions and listening to expert outside speakers but also by hands-on experience in independent study

projects they've proposed or in team consulting projects they've arranged with organizations that do business or are exploring opportunities in the region.

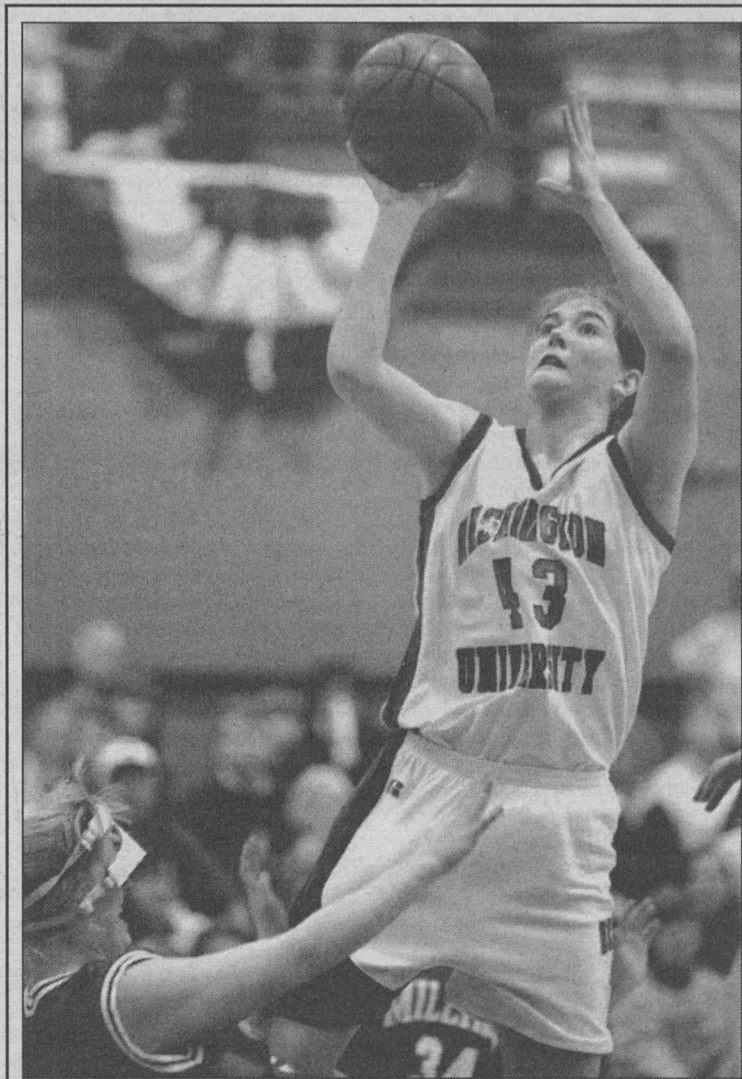
One team is working with Edward Jones on the feasibility of entering the financial services market in the two countries. Another team is working with Monsanto Co. to determine whether the company's success in selling Roundup and other herbicides to treat wheat, barley and cotton crops in Argentina could be translated into success in treating orange and other citrus fruit crops and vineyards in Chile.

Two other teams are working with the National Basketball Association (NBA). One is evaluating NBA licensing agreements with retailers such as Reebok and Nike to find ways to reduce piracy of NBA products in the two countries. The other is evaluating distribution channels to market NBA products and expand the NBA's business presence in Latin America.

"This is a win-win situation," said Stephen Master, manager of international operations for the NBA. "We get bright business students to help us address meaningful international initiatives, and they get valuable learning opportunities."

Other students are doing independent research on topics such as "U.S. Joint Ventures in Argentina and Chile," "Comparative Market-

Continued on page 6



JOE ANSELLES

Sweet Sixteen

Sophomore Alia Fischer netted 24 points and a career-high 15 rebounds to catapult the women's basketball team to a 66-54 NCAA Division III tournament second-round victory over previously unbeaten Millikin University Saturday, March 7, at the WU Field House. With the win, the sixth-ranked Bears advanced to a "Sweet Sixteen" matchup against host Bridgewater (Va.) College at 8 p.m. (EST) Friday, March 13.

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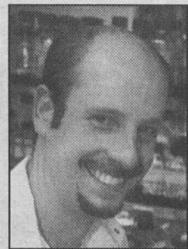
Scott Hultgren receives prestigious Eli Lilly award

Scott J. Hultgren, Ph.D., associate professor of molecular microbiology, will receive the Eli Lilly and Company Research Award from the American Society of Microbiology, whose president described Hultgren as "the most outstanding young microbiologist in the world." The award recognizes basic research of unusual merit in the fields of microbiology and immunology by an investigator younger than 40.

Stanley Falkow, Ph.D., president of the American Society of Microbiology and professor of microbiology and immunology at Stanford University School of Medicine, said the award's panel of experts singled out Hultgren because of the work he has done on organisms that cause disease. "He has set a paradigm," Falkow

said, "for approaching structure-function studies in microorganisms."

Hultgren will receive the award plus a \$5,000 cash prize during the society's annual meeting in May in



Scott J. Hultgren

Atlanta. He also will deliver the 1998 Eli Lilly Award lecture. The award is sponsored by Eli Lilly and Co., a global research-based pharmaceutical company headquartered in Indianapolis.

"I have had the great fortune to work with extremely talented and dedicated graduate students, postdoctoral fellows and a research technician at Washington

University," Hultgren said. "This award also recognizes their outstanding achievements."

Hultgren, who came to the School of Medicine in 1989, studies ways in which bacteria attach to human tissue, a key event in the onset of disease. As a model system, he works with *E. coli* strains that infect the urinary tract. "Our strategy is to decipher the molecular basis of how bacteria cause disease and to use this information to design vaccines and novel antibacterial therapeutics," Hultgren said.

Like many other bacteria, *E. coli* anchors to host tissue with sticky hairs. The hairs, or pili, are sticky because their feathery tips contain a protein called an adhesin, which fits into receptors in the urinary tract like keys into locks.

Combining genetic manipulations with cell biology, protein chemistry, high-resolution electron microscopy and X-ray crystallography, Hultgren and colleagues are following three lines of research.

First, they are determining the 3-D structure of the adhesin, hoping to find out how the protein's shape enables it to interact with host receptors. Second, they are investigating the consequences of this interaction and the cross-talk that switches on genes in both pathogen and host.

In the third program, Hultgren's team is studying the structure, function and assembly of *E. coli* P and type 1 pili, whose tips contain adhesins called PapG (on P pili) and FimH (on type 1 pili). During nine years of painstaking research, the group discovered that a protein called a chaperone plays a critical role in molding pilus subunits and adhesins into their correct 3-D shapes and transporting them to the membrane that surrounds the bacterial cell. Another protein, called an usher, extrudes adhesin-tipped hairs onto the cell surface.

By removing the usher gene and turning up the FimH gene, Hultgren produced *E. coli* that made large amounts of correctly folded adhesive protein. In the absence of the usher, this protein

remains inside the bacterium, where it can be isolated. FimH purified by Hultgren's team recently underwent successful vaccine trials in mice at MedImmune Inc., a biotechnology company in Gaithersburg, Md. Human trials should begin later this year. "This basic principle should be applicable to many infections, including meningitis, middle-ear infections, pneumonia, kidney infections and gonorrhea," Hultgren said.

The researchers also are testing inhibitors of the chaperone protein. Without this essential link in the assembly line, *E. coli* cannot make pili and therefore can no longer colonize the urinary tract or cause disease.

Hultgren has received three other recent honors. In 1997, he was awarded an honorary doctorate from Umeå University in Sweden. Next summer, he will go to the Medical Nobel Institute for six months as the recipient of a Nobel Fellowship, awarded by the Nobel Committee. The institute is located in the Karolinska Institute in Stockholm, Sweden. And on April 16, the Academy of Science of St. Louis will give Hultgren the 1998 Innovation Award. The award is presented to a scientist younger than 40 who exhibits great potential and accomplishment. — Linda Sage



They have other talents, too

First-year students Belinda Blood and Robert Blankton perform with their band, Deepu's Pickle, at Coffee House '98. This event is organized annually by the first- and second-year social chairs to give faculty and medical students the opportunity to perform onstage. Held March 5 at Blueberry Hill Restaurant and Pub in University City, this year's Coffee House featured banjo, marimba and Spanish guitar performances in addition to bands.

Cellular responses to radiation treatment focus of study

A team of eight School of Medicine researchers has received a five-year \$4.6 million program project grant from the National Cancer Institute. Joseph L. Roti Roti, Ph.D., professor of radiology, of biochemistry and molecular biophysics and of cell biology and physiology, will serve as principal investigator for the grant.

Roti Roti and other investigators from the Section of Cancer Biology at the medical school's Mallinckrodt Institute of Radiology will study if the responses cells make when they are stressed can be used to determine whether radiation therapy is working for cancer patients. Doctors use radiation treatment, or irradiation, to direct damaging energy at tumor cells.

"We're asking questions about the different responses cells have to ionizing radiation," Roti Roti said. "Although radiation can kill cancer cells, it is not always successful with large populations of tumor cells, and we want to know why."

Doctors know that tumor cells sometimes thwart cancer therapy by activating built-in cell stress responses. These responses help cells bounce back from environmental assaults, such as above-

normal temperatures. The investigators will study how certain stress responses hurt or help cancer therapy success. In doing so, they will analyze the effects of ionizing radiation, excess heat and oxidative conditions on cells.

In one of four projects, researchers led by Andrei Laszlo, Ph.D., associate professor of radiology, and Douglas R. Spitz, Ph.D., assistant professor of radiology, will determine if cultured tumor cells that have adapted to above-normal temperatures are more resistant to irradiation in the presence of heat. Excess heat, called hyperthermia, can cause proteins to clump together as they do in a cooked egg. But cells have developed strategies to protect proteins from heat. The researchers will study the genes and proteins that combat hyperthermia and see how their activities change when cells are exposed to heat and irradiation.

In a second project, Spitz and Michael A. Mackey, Ph.D., assistant professor of radiology, will examine how oxidative stress conditions contribute to the heat-induced sensitivity of cultured tumor cells to irradiation. Hyperthermia is known to alter oxidative metabolism inside cells, leading to

an increase in reactive oxygen intermediates that damage genetic material necessary for cell survival. These molecules may significantly contribute to the radiation sensitivity of heated cells.

The researchers will measure the buildup of reactive oxygen intermediates inside tumor cells exposed to hyperthermia and study enzymes that reduce oxidative injury. They also will determine whether heat-induced oxidative stress worsens DNA damage in irradiated cancer cells by creating additional types of oxidative molecules.

The final two studies address specific cell responses after irradiation. One, led by Roti Roti and research assistant William D. Wright, focuses on the nuclear matrix, a protein meshwork that organizes more than 3 feet of genetic material inside a nucleus only a few thousandths of a millimeter in diameter. Irradiation damages the genetic material by breaking bonds along the DNA ladder, disrupting gene expression. The damage also unwinds DNA. A break in the DNA can become lethal if enzymes that work to recoil DNA take charge and prevent access by other enzymes that repair damage. For this reason, researchers will find

out whether differences in matrix protein function or gene activity make cultured cell lines respond differently to irradiation.

Additional work will determine how genes recover from cuts in both strands of the DNA ladder, the major event leading to cell death after irradiation. The researchers also will search for specific types of DNA damage and structural modifications to the nuclear matrix. "By doing these studies, we hope to be able to predict which cancer cells might be more responsive or more resistant to radiation therapy," Roti Roti said.

In the fourth project, Clayton R. Hunt, Ph.D., assistant professor of radiology, will work with John-Stephen Taylor, Ph.D., professor of chemistry, to study the effects of radiation on sites controlling gene expression. Taylor and his colleagues will chemically modify the building blocks of DNA to mimic changes wrought by irradiation. The modified building blocks will be inserted into stretches of DNA that control gene activity. Hunt and colleagues then will examine the effects of the modified DNA on gene expression and cell function.

— Barbra Rodriguez

Skin infection study needs volunteers

People with skin infections, such as an abscess or a wound that has become inflamed, might be eligible for an experimental treatment at the School of Medicine.

"We need to test new antibiotics to fight these infections because some bacteria stop responding well to existing medications," said Ann Martin, M.D., assistant professor of dermatology and principal investigator for the study.

Participants should be 18 or older and have an active infection. Signs of infection include redness, swelling, warmth and drainage at the injury site. Volunteers will be randomly assigned to be treated for 10 days with an experimental oral

antibiotic or an oral antibiotic already on the market.

Study participants will make five visits during one month to the Outpatient Dermatology Center at 4570 Children's Place for the initial 10-day treatment and follow-up exams. They will receive up to \$125 for participation after completing the study. The oral antibiotics and all laboratory tests associated with the study are free.

For more information, call 362-8171 or 362-9841.

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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Shea plays many roles, on campus and beyond

"I'd be happy to help you out," said Dan Shea, Ph.D., professor and chair of the Department of English in Arts and Sciences, when initially contacted about this profile. "I'm just not sure what we'll talk about. I'm not doing much right now except administration."

Deceptively modest words from a scholar, teacher and professional actor whose 36 years at Washington University — more than a quarter of which have been spent heading his department — encompass dozens of publications, numerous academic and administrative posts and a score of theatrical roles.

"Dan is one of the most versatile people on campus," said Henry I. Schvey, Ph.D., professor and chair of the Department of Performing Arts in Arts and Sciences, who has directed Shea in productions of "Equus" and "Buried Child." "He's an extraordinary colleague in every sense. He has a kind of natural gentility that makes him ideal to work with, whether on stage, in a committee meeting or in private conversation."

"If Dan has a fault it's his selflessness," Schvey continued. "He's so generous and so willing to give of his time that sometimes I feel he neglects himself and his own substantial literary gifts."

It's an oversight that is now being corrected: Recently, Shea completed a draft of "Patience, My Dear," a drama based on the life of St. Louis writer Pearl Curran, thus adding playwright to his list of titles.

Born in Minneapolis, Shea grew up in New Jersey and Massachusetts but returned to Minneapolis to attend the College of St. Thomas, graduating summa cum laude in 1958. He went on to earn a master's degree and a doctorate from Stanford University and, in 1962, joined the faculty here. The father of five grown children — Timothy, Matthew, Catherine, Daniel and Emily — Shea and his wife, Kathleen, currently live in the Skinker-DeBaliviere neighborhood.

A specialist in early American literature, Shea is the author of "Spiritual Autobiography in Early America," a study of writings by Quakers and Puritans in 17th- and 18th-century New England. Shea also has published numerous essays on New England writers, including Thomas Morton, Jonathan Edwards and, most recently, the Pennsylvania Quaker preacher Elizabeth Ashbridge, whose autobiography he edited.

Studying undergraduate teaching

Shea was first named chair of English in 1978, holding the post until 1984 and resuming it in 1995. In 1993, he headed the Edison Theatre Advisory Committee and, over the years, has served in a number of other administrative capacities: In 1995 he spent a semester as acting chair of the Performing Arts Department, in 1994-95 he co-chaired the University Roundtable on Sexual Harassment and, in 1987-88, he chaired the Dean Search Committee for the College of Arts and Sciences.

Shea particularly enjoyed his work heading the University's Committee on Undergraduate Teaching, which, in 1982, took a comprehensive look at undergraduate education. Shea authored the committee's final report, which assessed the University in terms of physical facilities, course evaluations, teacher evaluations and the tenure system.

"It's probably the thing I'm most proud of as an administrator," Shea said of the report, which became known on campus as the Shea Report. "Eventually, almost every recommendation we made received attention."

Shea also is clearly proud of the department that he has shepherded for so long. "We've always had distinguished individuals," he said, "but I think that we are now, across the board, the strongest we've ever been. It's more than just the weight of everybody's CVs; the department provides a supportive, stimulating environment in which people can be creative — one visiting scholar called us 'warmly idiosyncratic.' I think that any one person's work has to be seen in the context of the entire department."

A good example of the kind of cross-fertilization this atmosphere yields is provided by Shea's own acting career.

Since 1987, he has appeared in nearly 20 major productions, both with the University's Performing Arts Department and with local professional companies, including The New Theatre (TNT), Off The Cuff Productions, the St. Louis Shakespeare Company, Shattermask Theatre and the Theatre Factory. His credits include starring roles in "And a Nightingale Sang," "King Lear," "Foxfire" and "The True Messiah."

Shea is particularly fond of his work in TNT's 1992 version of "Prelude to a Kiss," the role that earned him professional standing as an Equity actor. "I played an old man who comes to a wedding and, upon kissing the

play seems a summation of themes, both academic and personal, that have remained constant throughout Shea's career.

"Curran was a St. Louisan, a Missourian, a citizen of the Show Me State," explained Shea, who, coincidentally, lives less than a block from his subject's former address. "Patience Worth was a 17th-century spirit who said she was born in the south of England, emigrated to New England, died in an Indian attack and more than a century later communicated her literary ambition to Curran via the Ouija board. Their life and work touch on so many historical patterns that interest me: early American literature,

spiritualism, the history of women's literature and, of course, acting."

Worth first appeared to Curran in 1913 and their output, published under Worth's name, remained steady until Curran's death in 1937. Despite the fact that Curran possessed only a high school education and had exhibited no prior literary ambition, Patience Worth developed a significant following that included such prominent literary and journalistic figures as Casper Yost, editorial page editor for the now defunct St. Louis Globe-Democrat, and William Reedy, editor of the St. Louis Mirror, another daily paper.

Shea, however, is not out to resuscitate Curran/Worth's literary reputation and illustrates the point with a comparison to the great poet James Merrill, who was Visiting Hurst Professor in the English department in 1971 and 1985. Merrill, in his epic trilogy "The Changing Light at Sandover," also made use of a Ouija board.

"The Patience Worth poetry is 19th-century poetry, no matter its date," Shea said. "Curran is a medium, not a collaborator — a stenographer rather than author. The difference between Curran and Merrill is that Merrill knows that he and not the other-worldly voice is the talented poet. On the few occasions when Pearl substitutes a word of her own, Patience quickly reminds her who is in charge."

Shea added that Curran was "in many respects a daughter of the late Victorian age," and that it would be natural for her to see Worth, "despite her immateriality and the ambiguity of her origins, as having greater authority, greater cultural eligibility for authorship."

Women writers and creative autonomy

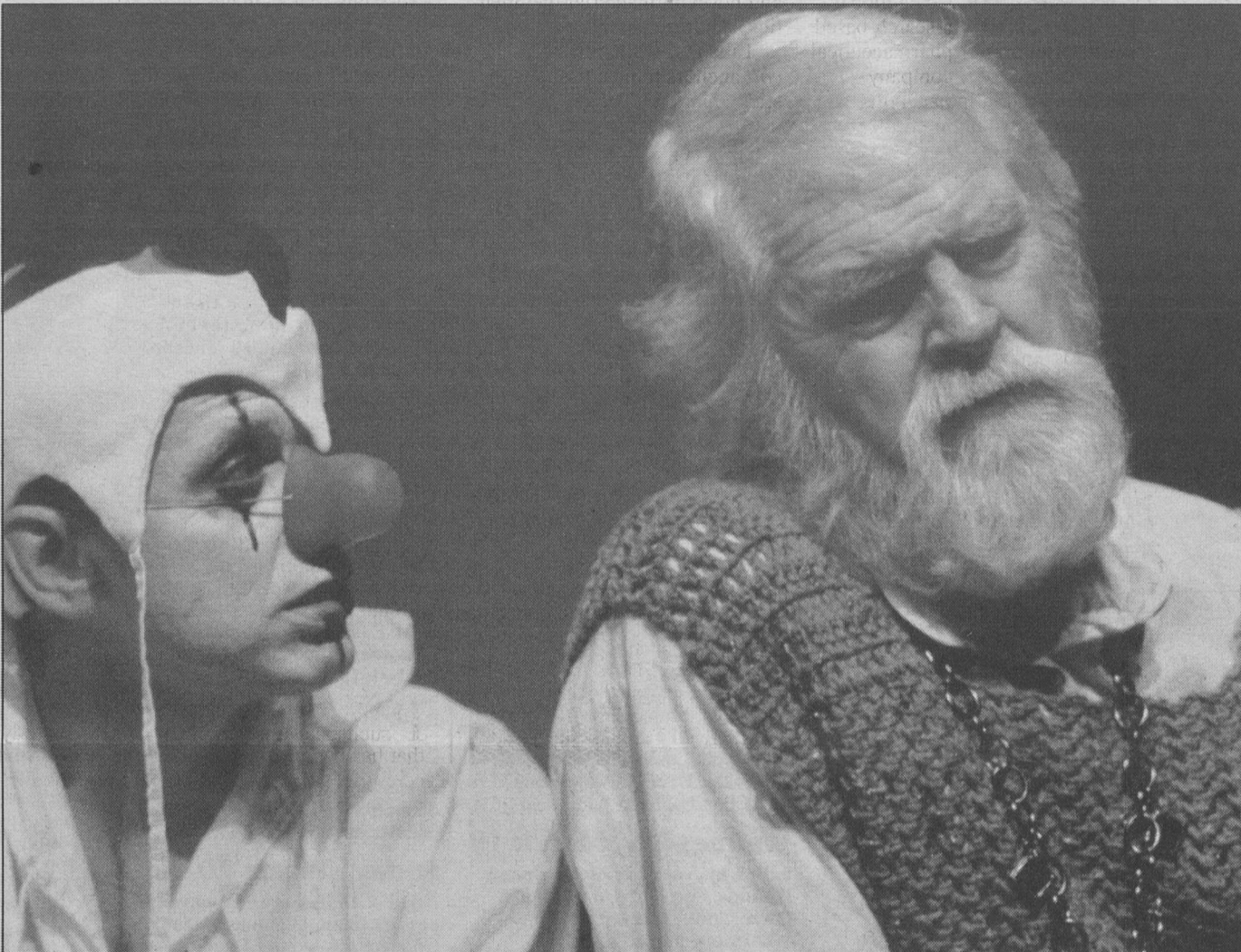
Shea also pointed out that Curran's ceding of credit "is only a short step removed from, say, Louisa May Alcott publishing her gothic thrillers under a pseudonym. The Ouija board was just an enabler, the key to 'a room of her own' in Virginia Woolf's famous phrase. In both cases, it goes back to the question of where, for a woman who writes in a patriarchal society, is the place of creative autonomy?"

Shea admitted that it's a question even Curran/Worth probably couldn't answer, noting that it can be difficult to gauge how self-aware the author was. "Curran was very protective of Worth and Worth's mission and always remained vague about the particulars of her life, growing wary and elusive when questioned on the subject. Yet at one point, seemingly in mid-séance, she wrote a friend a letter that began 'Dear Dotsie, I am writing this letter with one hand and a poem with the other hand ... sometimes I think I'm nuts.'

"If she can write about the voice in her head in that fashion, she must have some distance from it," Shea continued. "But then, who ever said that we really know what is in us? Maybe we're simply not in a good position to take inventory."

Shea paused for a moment. "The voice — perhaps that's the link between my historical, scholarly and literary interests: the written voice, the buried voice," he said. "Sometimes, doing administrative work, it can be difficult to step back and remember what's important to you. I suppose that's the dichotomy of my life. As an administrator, in the chair's office, I don't believe in magic; I believe in process or progress or something like that. But outside, in what they call the real world, there I believe in magic."

— Liam Otten



Dan Shea, Ph.D., (right) appears in the title role of the St. Louis Shakespeare Company's 1994 production of "King Lear."

bride, switches souls with her," Shea said. "The groom then has to figure out if he loved his bride's body, now housing the old man's soul, or her soul, now occupying my body. The play raised all sorts of questions — of gender roles, of spirituality — that have long occupied me."

Shea points out that his work on stage has direct bearing on his work in the classroom. "That sense of

"Dan is ... an extraordinary colleague in every sense. He has a kind of natural gentility that makes him ideal to work with, whether on stage, in a committee meeting or in private conversation."

— Henry I. Schvey

ideas meeting the test of enactment has always been a part of my teaching, as has a sense of audience; not just playing to an audience, but recognizing and responding to them," he said. "Many actors say that they can sense whether or not a crowd is with them, whether they're amused or angry or whatever, and I think an awareness of that cycle is integral to both acting and teaching. The final proof of any literary theory is in performance."

In his new drama, Shea seems ready to test a number of his own scholarly theories. "Patience, My Dear" is based on the life of Pearl Curran, a St. Louis housewife who wrote two novels and scores of poems with the aid of a Ouija board and a spirit named Patience Worth. The

Calendar

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

March 12-21



Exhibitions

"Art of the '80s: Modern to Postmodern." Through April 5. Gallery of Art, upper gallery. 935-4523.

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

Selections from the Washington University art collections. Through April 5. Gallery of Art, lower galleries. 935-4523.

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



Films

Thursday, March 12

7:45 p.m. French and Francophone Film Series. "Toto le Héros" (1991). Room 162 McDonnell Hall. 935-5175.

Friday, March 13

7 and 9:30 p.m. Filmboard Feature Series. "The Pillow Book." (Also March 14, same times, and March 15, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Monty Python's Meaning of Life." (Also March 14, same time, and March 15, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Tuesday, March 17

7 p.m. Filmboard Foreign and Classic Series. "Man of Marble." (Also March 18, same time.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Wednesday, March 18

6 p.m. Japanese Film Series. "MINBO of the Gentle Art of Japanese Extortion." Room 219 Ridgley Hall. 935-5156.

Thursday, March 19

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

Friday, March 20

6 and 9 p.m. Filmboard Feature Series. "Face/Off." (Also March 21, same times, and March 22, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Muppets Take Manhattan." (Also March 21, same time, and March 22, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.



Lectures

Thursday, March 12

9 a.m. Art lecture and slide presentation. "Eve Andree Laramee,

Drawings and Research." Eve Andree Laramee, artist. Gallery of Art. 935-8456.

1 p.m. Biology seminar. Faculty Search Candidate Seminar Series. "Theoretical and Experimental Approaches to Patchy Plant Epidemics." Benjamin Bolker, ecology and evolutionary biology dept., Princeton U., and candidate for ecologist/evolution of developmental mechanisms faculty position. Room 212 McDonnell Hall. 935-6706.

1:10 p.m. Social Work Spring Lecture Series. "Alcoholism Treatment — What Works and What Doesn't?" Brown Hall Lounge. 935-7453. (See story on page 6.)

4 p.m. Earth and planetary sciences colloquium. "ARC and Continental Collision Hydrology." Brooks Hanson, senior editor, Science. Room 112 Wilson Hall. 935-5610.

4 p.m. Joint Center for East Asian Studies lecture. "The Taiwanese Struggle for Identity." Jack F. Williams, dir., Asian Studies Center, Michigan State U. Room 331 Social Sciences and Business Bldg., UMSL. 935-4448.

4 p.m. Writing Program lecture. "Words, Style and 'Intrinsic Value.'" Geoffrey Hill, author and prof., Boston U. Hurst Lounge, Duncker Hall. 935-7130.

4:15 p.m. Philosophy colloquium. "Kant on Duties Regarding Nonrational Nature." Allen Wood, prof. of philosophy, Yale U. Room 110 January Hall. 935-6670.

4:30 p.m. Mathematics Roeber colloquium. Speaker is Mike Wolf, prof. of mathematics, Rice U. Room 199 Cupples I Hall. 935-8627.

7 p.m. Art history and archaeology/Gallery of Art/School of Architecture/School of Art lecture. "The Influence of Jackson Pollock on Contemporary Art." Kirk Varndoe, chief curator of painting and sculpture, Museum of Modern Art, N.Y. Location has been changed to Graham Chapel. 935-4523.

Friday, March 13

9:15 a.m. Pediatric Grand Rounds. "The Long QT Syndrome: Can a Banana a Day Keep the Doctor Away?" Frank Zimmerman, instructor of pediatrics, St. Louis Children's Hosp. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Regulating Spatial Patterning: Integrating the Functions of STAT, MAP Kinase Cascades, Protein Turnover and Homeodomain-containing Transcription Factors." Richard A. Firtel, Center for Molecular Genetics, UC-San Diego. Room 426 McDonnell Medical Sciences Bldg. 362-1668.

4 p.m. Earth and planetary sciences special colloquium. Speaker is Gary Pavlis, Indiana U. Room 361 McDonnell Hall. 935-5610.

4 p.m. Philosophy colloquium. "Cruelty, Respect and Unsentimental Love." Michele Moody-Adams, assoc. prof. of philosophy, Indiana U.-Bloomington. Stix International House Living Room. 935-5119.

Sunday, March 15

2 p.m. School of Art/Women's Society lecture and slide presentation. Beaded work/quilting performance. Joyce and Elizabeth Scott. Steinberg Aud. 935-6571.

Monday, March 16

Noon. Molecular biology and pharmacology seminar. "How do Cytotoxic Lymphocytes Kill Their Targets?" Timothy J. Ley, prof. of medicine and of genetics. Pharmacology Library: Philip Needleman Library, Room 3907 South Bldg. 362-2725.

4 p.m. Biology seminar. "Control of Nuclear Entry and Exit in Yeast and Human Cells." Susan R. Wentz, asst. prof. of cell biology and physiology. Room 322 Rebstock Hall. 935-7569.

4 p.m. Developmental Biology Program seminar. "Genetic Analysis of Olfactory Discrimination and Social Behavior in *C. elegans*." Cori Bargmann, asst. investigator, Howard Hughes Medical Inst., and assoc. prof., UC-San Francisco. Cori Aud., 4565 McKinley Ave. 362-2725.

4 p.m. Immunology Research Seminar Series. "Human Natural Killer Cell Receptor Repertoires." Peter Parham, prof. of structural biology, microbiology and immunology, Stanford U. Eric P. Newman Education Center. 362-2763.

Tuesday, March 17

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "The Discovery of Antibiotic Systems in Animals." Michael Zasloff, pres., Magainin Research Inst., Plymouth Meeting, Pa. Cori Aud., 4565 McKinley Ave. 362-3692.

12:10 p.m. Physical therapy research seminar. "How Intentions Drive Behavior." Susan S. Deusinger, asst. prof. of physical therapy. Classroom C, 4444 Forest Park Blvd. 286-1400.

2:30 p.m. Biology seminar. Faculty Search Candidate Seminar Series. Speaker is Laura Gough, Ecosystems Center, Marine Biological Laboratory-Woods Hole, and candidate for ecologist/evolution of developmental mechanisms faculty position. Room 322 Rebstock Hall. 935-6706.

4 p.m. Chemistry seminar. "Bis(amido)substituted Cyclodisilazane and Cyclodiphosphazane Complexes: Syntheses, Molecular Structures and Applications in Polyolefin Catalysis." Lothar Stahl, prof. of chemistry, U. of N.D. Room 311 McMillen Lab. 935-6530.

Wednesday, March 18

6:30 a.m. Anesthesiology Grand Rounds. Speaker is William D. Owens, prof. of anesthesiology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Simple Hysterectomy?" Gregory Joslin, chief resident in obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 362-7139.

11 a.m. Assembly Series lecture. Omicron Delta Kappa Honors Lecture. "Myths About Myths, Stories About Stories: 'Sandman' and After." Graham Chapel. 935-5285. (See story on page 5.)

1 p.m. Biology seminar. Faculty Search Candidate Seminar Series. Speaker is Laura Gough, Ecosystems Center, Marine Biological Laboratory-Woods Hole, and candidate for ecologist/evolution of developmental mechanisms faculty position. Room 212 McDonnell Hall. 935-6706.

4 p.m. Biochemistry and molecular biophysics seminar. "Integrins, Growth Factors and Cell Migration." Douglas A. Lauffenburger, prof. of chemical engineering, MIT. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. WU/UMSL biology seminar. "Pretense and Defense in an East African Ant-Acacia Symbiosis." Maureen Stanton, prof. of evolution and ecology/DBS, UC-Davis. Room 322 Rebstock Hall. 935-6706.

6:15 p.m. European studies/Germanic languages and literatures/Jewish and Near Eastern studies lecture. "Teaching the Holocaust." Barbara Bauer, prof. of German, Universität Marburg, Germany. Stix International House. 935-4360.

Thursday, March 19

11:15 a.m. Mental Health Services Seminar Series. "Statistical Analysis With Service Use Data as the Dependent Variable." David E. Pollio, asst. prof. of social work, and Edward L. Spitznagel, prof. of mathematics. Room 222 Goldfarb Hall. 935-5741.

11:30 a.m. Women's studies / Center for Islamic Studies/Jewish and Near Eastern studies/International Development/Asian and Near Eastern languages and literatures/Social thought and analysis lecture. "Organizing Women: The Case of the Middle East and North Africa." Valentine Moghadam, author, editor and dir. of women's studies and assoc. prof. of sociology, Ill. State U. Room 100 Busch Hall. 935-5102.

4 p.m. Center for the Study of American Business/economics macro seminar. Speaker is Charles Calomiris, Columbia U. Room 300 Eliot Hall. 935-5658.

4 p.m. Chemistry seminar. "Synthèse Asymétrique Inspiré par au Naturel et l'Homme." William Wulff, prof. of chemistry, U. of Chicago. Room 311 McMillen Lab. 935-6530.

4:15 p.m. Philosophy colloquium. "What Kind of a Mind Does it Take to Study the Mind?" Endel Tulving, the Clark Way Harrison Distinguished Visiting Professor of Psychology. Room 110 January Hall. 935-5119.

4:30 p.m. Mathematics colloquium. "Probabilistic Thoughts About Wavelets." Richard Gundy, prof. of mathematics, Rutgers U. Room 199 Cupples I Hall. 935-6711.

7:30 p.m. Women's studies / Center for Islamic Studies/Jewish and Near Eastern studies/International Development/Asian and Near Eastern languages and literatures/Social thought and analysis lecture. "Feminist Networks North and South: Links Between Women in Developed and Developing Countries." Valentine Moghadam, author, editor and dir. of women's studies and assoc. prof. of sociology, Ill. State U. Room 362 McDonnell Hall. 935-5102.

Friday, March 20

Noon. Cell biology and physiology seminar. "Shaping Visual Connections During Development With Coordinated Retinal Activity." Rachel O.L. Wong, asst. prof. of anatomy and neurobiology. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

3 p.m. Film lecture and screening. "Like White on Rice: Ethnic Fetishization in the Cauc/Asian Encounter." Ronald Bolisay, independent filmmaker, Florida International U., Miami. Sponsored by Student Union; Gay, Lesbian, Bi Association; University College; and comparative literature. Room 215 Rebstock Hall. 935-5170.



Music

Sunday, March 15

2:30 p.m. WU Wind Ensemble concert. "Fiesta de Musica Mexicana." With Los Compadres Mariachi Band. Dan Presgrave, dir. The Saint Louis Art Museum Aud., 1 Fine Arts Dr., Forest Park. 935-5581.



Performances

Friday, March 13

8 p.m. OVATIONS! Series performance. "Sick but True." Paul Zaloom, star of television's "Beakman's World." Edison

Theatre. 935-6543. (See story on page 5.)

8 p.m. Performing arts dept. performance. "Meet Me in the Zero: An Evening of Choreography." Dance Studio, Room 207 Mallinckrodt Center. 935-5858. (See story on page 5.)

8 p.m. Washington University Opera performance. "The Threepenny Opera." Jolly Stewart, dir.; John Stewart, musical dir. (Also March 14, same time, and March 15, 3 p.m.) Cost: \$5 and \$10. Bixby Gallery. 935-5581.

Saturday, March 14

2 and 4 p.m. OVATIONS! Series performance. "Beakman's World." Paul Zaloom, star of television's "Beakman's World." Edison Theatre. 935-6543. (See story on page 5.)

Friday, March 20

8 p.m. Edison Theatre/performing arts dept. staged reading. "Class Mothers '68." Award-winning actress Priscilla Lopez reads a new one-woman play. (Also March 21, same time.) Cost: \$25; proceeds benefit the Wellness Community of Greater St. Louis. A.E. Hotchner Studio Theatre. 935-6543.



Miscellany

Registration open for the AIDS Clinical Trials Unit and MATEC-EM conference. "Practical Approach to Managing HIV Disease: An Update From the Fifth Conference on Retroviruses and Opportunistic Infections" (March 28). The Ritz-Carlton Hotel, 100 Carondelet Plaza. For times, costs and to register, call 362-2418.

Registration open for the following Office of Continuing Medical Education seminars: Sixth annual "Refresher Course and Update in General Surgery" (March 12-14), The Ritz-Carlton Hotel, 100 Carondelet Plaza; "Clinical Pulmonary Update: A View of Emphysema in the 20th Century" (March 20), Eric P. Newman Education Center; and "Topics in Thoracic Surgery: A Seminar for Allied Health Professionals" (March 30-31), Eric P. Newman Education Center. For times, costs and to register, call 362-6891.

Thursday, March 12

8 p.m. Writing Program poetry reading. Author Geoffrey Hill, professor at Boston U., will read from his works. Hurst Lounge, Duncker Hall. 935-7130.

Saturday, March 14

10 a.m. Saturday workshop. "How to Work with a Graphic Designer." Instructor: Frank Roth. Cost: \$10. 935-4643.

Tuesday, March 17

11 a.m. Writing Center workshop. "Writing a Research Paper I: Conducting Research." Presented in collaboration with Olin Library. The Writing Center, fifth floor, Olin Library. 935-4981.

8 p.m. International Writers Center Reading Series. Irish poet Paul Muldoon. West Campus Conference Center. 935-5576. (See story on page 5.)

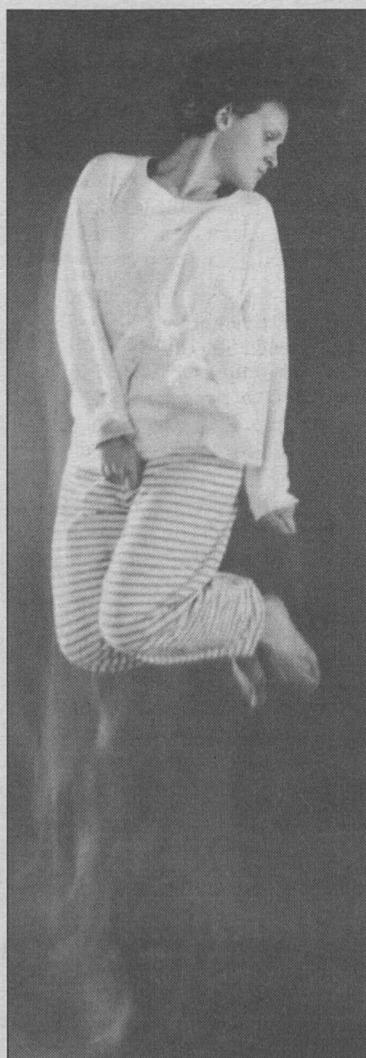
Wednesday, March 18

5:15 p.m. Career workshop. "Career Planning: A Self-Assessment Workshop." (Continues Wednesdays through April 1.) Brian Bredeson, asst. dir., Career Center. Cost: \$70. 935-6788.

Saturday, March 21

9 a.m. Saturday workshop. "Patching Precious Pop-ups." Instructor: Bob Smith. Cost: \$35. 935-4643.

'Meet Me in the Zero' showcases senior dance student's work



Patricia Skarbinski performs in "Meet Me in the Zero."

The Department of Performing Arts (PAD) in Arts and Sciences will present "Meet Me in the Zero: An Evening of Choreography" at 8 p.m. Friday and Saturday, March 13 and 14, in the Dance Studio, Room 207 Mallinckrodt Center. The event is free and open to the public.

The program will feature 14 dancers in four works choreographed by senior Patricia Skarbinski. Skarbinski, a native of Warsaw, Poland, immigrated to the United States with her family in 1983 as a political refugee. Currently majoring in history and minoring in modern dance, she spent last year studying Polish literature, history and theater at Oxford University in England.

"Meet Me in the Zero" will open with Skarbinski's 1996 duet "Our Laundry in My Backyard," which depicts the fantasies and recollections of a married woman. "Adam," a solo work set to Nina Simone's "Ne Me Quitte Pas," will explore the condition of being lost, and "High/Low" will feature a quartet of dancers who, bound together by an elastic cord, use a variety of mechanical and whimsical movements to present a study in extremes. The program will conclude with the premiere of a new work, "Piece-able Kingdom."

The event is co-sponsored by PAD and the Office of Student Activities. For information, call 935-5858.



Paul Zaloom brings the zany science of his popular children's television show "Beakman's World" to Edison Theatre Saturday, March 14. Zaloom also will appear at Edison Friday, March 13, in a three-part monologue geared to adults. Both programs are part of Edison's OVATIONS! Series.

Paul Zaloom of TV's 'Beakman's World' appearing in two Edison shows March 13-14

Half madman, half genius, the Obie Award-winning performance artist and puppeteer Paul Zaloom, perhaps best known for playing Beakman on the CBS television children's science program "Beakman's World," will perform a pair of shows at Edison Theatre Friday and Saturday, March 13 and 14.

Zaloom will present "Sick but True," a three-part monologue geared to adults, at 8 p.m. Friday, March 13. There will be a dinner for interested patrons at Blueberry Hill Restaurant and Pub in University City before the performance; for details, call Aly Abrams at 935-4478. The following day, Zaloom's alter ego Beakman will dare to make science hip for children with live performances of "Beakman's World" at 2 and 4 p.m. Both shows are part of Edison Theatre's OVATIONS! Series.

"Sick but True" includes a trio of Zaloom's manic satires. In "My Civilization: The Prequel," he relates the history of the universe using a variety of off-beat props, including old toys, cutout pictures and colored fluids. In "Phood," he plays a gregarious food technologist who reveals the authentic, amusing and sometimes hair-raising secrets of industrial cooking. In "YIKES!" Zaloom skewers everything from the Pentagon to the prison system to farming to education.

"Beakman's World" is a stage version of Zaloom's popular program for children, now in its fourth season, which airs locally at 7 a.m. Sundays on Channel 4. Applying cutting-edge humor to such scientific subjects as the physics of fruit bats, the mechanics of flatulence and the laws of thermodynamics, Beakman's approach to science transforms the sometimes-dreaded subject into an exciting, inventive form of child's play. The 60-minute interactive performance is recommended for ages 6 and older and will be followed by a special "meet-and-

greet" session with the artist.

Zaloom, a former member of Vermont's Bread and Puppet Theatre, has been creating solo performances for the past 20 years. He has performed at festivals across the United States, Canada and Europe. His solo piece "The House of Horror" received a Village Voice Obie Award in 1989, and "My Civilization" was given both a New York Dance and Performance Award and an American Theater Wing Design Award in 1991.

Zaloom was awarded a Guggenheim Fellowship in 1991, and he is also a recipient of a National Endowment for the Arts Grant for Solo Performance Art.

Tickets for "Sick but True" are \$23 for the general public. Call for discounts. Tickets for "Beakman's World" are \$23 for adults and \$12 for children. Children's tickets also are offered at a two-for-one discount. Tickets for both shows are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. For more information, call 935-6543.

Poet to give St. Patrick's Day reading

Irish poet Paul Muldoon will read from his works at 8 p.m. on St. Patrick's Day, Tuesday, March 17 for the International Writers Center in Arts and Sciences. The reading, to be held at the West Campus Conference Center, is the third in the center's 1997-98 Reading Series.

Muldoon has written 20 volumes of poetry, several plays, books for children and a forthcoming opera titled "Vera of Las Vegas."

Among Muldoon's many honors and awards are the American Academy of Arts and Letters Award in Literature in 1996 and the T.S. Eliot Prize for Poetry in 1994.

Born in Northern Ireland in 1951, Muldoon received a bachelor's degree from Queen's University in Ireland. He has taught at Columbia University, the University of Massachusetts and the University of California at Berkeley. He is currently a professor and director of the Writing Program at Princeton University.

The 1997-98 Reading Series will conclude April 7 with Jamaican fiction writer Patricia Powell. Admission to each reading is \$5 and free for students and seniors citizens. For more information, call 935-5576.

Sports

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

Women cagers advance in NCAA

Paced by sophomore center Alia Fischer's game-high 24 points and 15 rebounds, the women's basketball team defeated Millikin University 66-54 Saturday in the second round of the NCAA Division III Tournament and go on to the sectional round. Fischer, one of three Bears honored by the University Athletic Association (UAA), was named the women's Player of the Year. Senior Amy Schweizer was named to the all-UAA first team, while senior Erica Stagen again received honorable mention.

Current Record: 24-2 (13-1 UAA)

Men basketball players honored

A pair of seniors, Matt Greear and Chris Heidbrink, have earned second-team honors on this year's all-UAA team. Heidbrink led the UAA in field goal shooting with a 55.4 percentage. Another senior, forward Brad Borgman, who finished as the Bears' leading scorer this season (11.1 points per game), earned second-team GTE

academic all-district honors for his 3.91 cumulative GPA.

Final Record: 14-11 (10-4 UAA)

Baseball Bears 5-2

Despite cold weather, the baseball team was able to play seven of its 12 scheduled home games during spring break. The Bears won five of those seven contests, including a 6-0 decision vs. Elmhurst College March 7. Strong pitching has helped as the Bears' hurlers have combined for a team earned run average of 2.76. Junior catcher Joe Littrell leads the Bears in hitting with a .400 average. The team competes in the 10th annual UAA Tournament this week in Cocoa, Fla.

Women's tennis splits

The women's tennis team posted a 2-2 record on a spring break trip to California that featured matches with three nationally ranked teams. The Bears defeated 24th-ranked Chapman University 8-1 and the University of Redlands 6-3 but lost to 11th-ranked Pomona-Pitzer Colleges (7-2) and No. 6 Claremont-Mudd-Scripps Colleges (7-2).

Current Record: 2-3

Men's tennis wins

After succumbing to national power Emory University 5-2 in Atlanta March 1, the men's tennis squad won all three of its spring break matches in Hilton Head, S.C. The trip was highlighted with a 5-2 victory over Xavier University of Ohio. After the Bears returned from South Carolina, they dropped a 4-3 decision to Midwest Region power DePauw University.

Current Record: 4-2

Runners win

Led by Women's Most Outstanding Performer Claudine Rigaud, the women's track and field team captured its first UAA indoor championship March 7 at the University of Chicago. The men's team placed second to the University of Rochester and has never finished lower than third in 11 indoor meets. Six University athletes won a total of seven individual conference championships. Rigaud won championships in the 55 (UAA record and NCAA Division III provisional qualifying 7.31 seconds) and 200 (:26.18) meters.

Fantasy writer Neil Gaiman to speak on myth at Assembly Series March 18

Neil Gaiman, fantasy writer and creator of the "Sandman" comic book series, will deliver the Omicron Delta Kappa Honors Lecture, titled "Myths About Myths, Stories About Stories: 'Sandman' and After" at 11 a.m. Wednesday, March 18, as part of the Assembly Series. The lecture, which is free and open to the public, will take place in Graham Chapel.

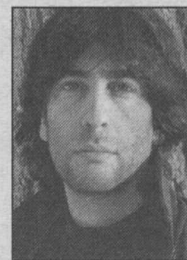
For "Sandman," Gaiman has won awards for the best continuing series, the Harvey Award for best writer and the World Fantasy Award for best short story. The complete "Sandman" story, hailed by Norman Mailer as a literary achievement, is contained in 10 volumes of graphic novels, beginning with "Preludes and Nocturnes" and ending with "The Wake." "Sandman" the comic sold more than a million copies a year, and the collections have sold more than three quarters of a million copies in paperback and hardback.

Gaiman made headlines when he announced that, at issue No. 75, the story of the "Sandman" was over and the series, which at the time was DC's best-selling comic, was cancelled. "Sandman"

has been optioned for a movie by Warner Brothers.

Gaiman's other books include "Signal to Noise," a graphic novella about a dying film director; "Angels and Visitation," a collection of his short fiction, prose and journalism; and "Death: The High Cost of Living," a three-part series also optioned as a movie by Warner Brothers. His current project, "Stardust," is a serialized fairy tale for adults. Gaiman's six-part TV series for the British Broadcasting Corp., "Neverwhere," set in a surreal London underworld, was broadcast in 1996, and his novel of the same name has recently been released. He is currently working on a script for a "Neverwhere" film and also is working on a film of the Beowulf saga. His first book for children, "The Day I Swapped My Dad for Two Goldfish," was chosen by Newsweek as one of the best children's books of 1997.

For more information about the lecture, call 935-5285.



Neil Gaiman



Excelling by design

Jurists for the School of Architecture's 1998 Steedman International Design Competition judge one of 152 entries in the competition, held every two years. All architects, they are (from left) Xavier Vendrell, Barcelona; jury chairman Pascal Quintard-Hofstein, Paris; Paul Amatuzzo, New York; Peggy Deamer, New York; and Bill Boswell, Dallas. Florida architect Chris Taylor won the competition and a \$20,000 fellowship for travel and architectural study abroad. Architecture school alumnus Shannon Russell (M.Arch. '97) of St. Louis was named second alternate. More information about the Steedman Competition is available on its Web site at www.arch.wustl.edu/steedman.

Olin hosts Graduate Business Conference

Top graduate business students from some 35 leading business schools throughout the world will attend the 16th annual Graduate Business Conference March 19-22, focusing on community service and hosted for the first time by the University's John M. Olin School of Business.

The conference theme, developed by business school students, will be "Business in the Community" and will explore what businesses are doing to support and strengthen local communities, employer-employee relations, the natural environment and global corporate citizenship. Organized by a steering committee of nine students, the conference includes presentations and small-group sessions and a half day spent in community service projects for agencies such as Grace Hill Children's Center, St. Louis Food Bank and St. Patrick Center.

Keynote speakers will be

Robert Shapiro, chief executive officer of Monsanto Co., and Susan Knobler, founder and director of LensCrafters' Give the Gift of Sight program. Albert E. Suter, senior vice chairman and chief administrative officer of Emerson Electric Co., will speak at the awards dinner. In workshops and round-table discussions, speakers from Doctors Without Borders, Federal Express Corp., General Mills Inc., Monsanto Co., Northwest Airlines, Procter & Gamble Co., The Rainforest Co., ShoreBank and Studio 904 will present innovative programs organized by their companies.

Events will be held in Simon Hall and at the Hyatt Regency at Union Station, Anheuser-Busch brewery, 9th Street Abbey, Missouri Athletic Club and Laclede's Landing.

The event is overseen by the Graduate Business Foundation, an

all-volunteer, nonprofit organization of former student leaders who coordinate programs involving student governments from 40 leading business schools — 32 in the United States, two in Canada and six in Europe.

"We are so pleased to be hosting this event," said Stuart I. Greenbaum, Ph.D., dean of the business school. "It will bring MBA student leaders from around the world to St. Louis to discuss the responsibilities of businesses to their communities, and it will provide us an opportunity to highlight the innovative community service initiatives developed at Olin."

The school won the role of host for the conference thanks to a team of business students who, in 1996, made a bid presentation including a video highlighting business students' commitment to the conference and the proposed theme.

— Nancy Belt

Students get global experience — from page 1

ing Campaigns for U.S. Goods in Argentina vs. the United States" and "The Chilean Pursuit of NAFTA Participation."

The students and the faculty adviser they recruited for the course, William P. Coon, Ph.D., senior lecturer in international business, left for South America March 3. During their 10 days in Buenos Aires, Argentina, and Santiago, Chile, they have worked firsthand with local business contacts made during the research and consulting projects. "This course helps students see how business decisions are made in the real world," said Coon, "and it gives them contacts that can open doors for careers in international business."

Through visits with government officials and business leaders as well as social and cultural activities, students have gained a better understanding of local economies and cultures. Business school alumni in Argentina and the United States arranged meetings and/or tours at the Buenos Aires plant of General Electric Plastics, South America; Siemens Argentina; and Exxon Argentina headquarters and oil refinery.

"We want to learn how U.S. firms and individuals can take advantage of the vast opportunities for foreign investment in the global marketplace," said Jennings, who is from Cincinnati, "because that's where future growth lies."

Coon said there is great interest in international business. "When it comes to business activity," he said, "students and companies are finding that the overseas markets are gold mines."

They're also learning there are many factors in international business success, including cultural sensitivity and knowing each country's business etiquette. "It's amazing to learn how doing business in Chile is different than doing business in Argentina," said Kip Ladd, first-year MBA student from Chazy, N.Y. "It's important to know which hand to use to pour wine, to raise your hand to ask for the check at a restaurant and to know when to haggle."

All students in the course — including two seniors in the bachelor of science in business administration degree program, two evening MBA students and 23 full-time MBA students — paid their own way to take the research trip. After the trip, students will make written and oral presentations contributing to their grade as part of the grading system they proposed for the course.

"Students deserve great credit for their initiative in developing this course, which is part of Olin's expanding international focus," said Stuart I. Greenbaum, Ph.D., dean of the business school. "It's a delight to see our students taking leadership toward such wonderfully constructive ends." He added that

this course, along with new business school courses in investment management and entrepreneurship, are part of the school's trend toward student-initiated courses and experiential learning.

Already there is student interest in having several offerings of "Global Management Studies" next semester that could focus on opportunities in Kenya and South Africa, China, Vietnam, Central Europe, Russia, and Brazil. "Our students want to be players in the global marketplace," said Greenbaum, "and we're determined to help them succeed."

— Nancy Belt

New system streamlines library, adds powerful high-tech features

Responding to the needs of faculty, staff and students, University Libraries have implemented a new automated system that expands services and increases convenience. Using interactive computer services, the system allows users to request books and renew materials online and provides access to the Internet through the library catalog.

For the past year, the library staff has been working to implement the system for Olin Library and other Hilltop Campus libraries, excluding the Law Library. The new system replaces LUIS, which was installed in 1983. LUIS, based on old technology, was expensive to maintain in terms of equipment and staff and did not allow users to take advantage of World Wide Web functions.

"The new library system provides significant new services, lays the groundwork for providing more services and reduces on-going costs," said Shirley K. Baker, vice chancellor for information technology and dean of University Libraries.

Baker lauded the University Libraries' staff for their technological and organizational sophistication in what she called a flawless system replacement. "The changeover was made in record time with no disruption in service and without expensive outside assistance," she said. "This is particularly impressive because the system underpins every staff and community interaction with the libraries."

The most noticeable change is the availability of a graphical user interface. Information is more clearly displayed, and it is easy to link electronically to related

resources. For example, when searching for a specific presidential biography, a link will appear to let users see the availability of other presidential biographies. Hot links in catalog records access the Internet resources they describe; a specific journal's full-text articles, for instance, can be accessed from that journal's catalog record.

Many new self-service features provide added convenience. Patrons can view, from their home or office computer, a list of their borrowed materials and renew them online. Requests to have items pulled from the stacks and sent to the library nearest the user can be made from any workstation. This feature also can be used to request the recall of a checked-out item.

All faculty, students and staff who provide an e-mail address to the libraries will receive e-mail notification of materials that are overdue, recalled and on hold.

The new library system also makes it possible to display Chinese, Japanese and Korean vernacular characters in catalog records. This feature is currently available only in the East Asian Library because it requires special software.

This fall, the University's library catalog system will be linked with catalog systems at the University of Missouri and Saint Louis University. Washington University faculty, staff and students will be able to use one system to request items from these other universities and have them delivered to a library on campus.

The catalog can be accessed online through the library's World Window system at <http://library.wustl.edu>.

Alcoholism expert Peter Nathan lecturing at School of Social Work

"Alcoholism Treatment — What Works and What Doesn't" is the topic of a lecture by leading alcoholism researcher Peter Nathan at 1:10 p.m. Thursday, March 12, in Brown Lounge at the George Warren Brown School of Social Work.

Born and raised in St. Louis, Nathan is the University Distinguished Professor of Psychology at the University of Iowa and one of the nation's leading experts on the treatment of alcoholism. He has written or edited 20 books and nearly 200 journal articles and book chapters and has spoken and consulted widely. He has served on many journal editorial boards, including 21 years as associate editor of the *Journal of Clinical Psychology*.

Nathan received a bachelor's degree in social relations with honors from Harvard College in 1957. He earned a doctorate in clinical psychology from Washington University in 1962 and spent the next seven years on the faculty of Harvard Medical School. He worked as a clinical

psychologist at Boston City Hospital and began research on basic psychosocial variables associated with alcoholism.

He taught at Rutgers University from 1969 to 1990 and was director of clinical psychology training in the Department of Psychology. In 1987, he began a partial leave of absence from Rutgers to serve as senior health program officer for the MacArthur Foundation in Chicago.

Nathan moved to the University of Iowa in 1990 to become vice president of academic affairs and dean of faculties. He served as the university's provost and as acting president before returning recently to a full-time position on the psychology faculty.

The lecture is free and open to the public. For information, call 935-7453.



Peter Nathan

Campus Watch

The following incidents were reported to University Police from March 2-8. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at <http://rescomp.wustl.edu/~wupd>.

March 2

2:42 p.m. — A staff member reported that someone using a BB or pellet gun had shot holes in 12 windows in Koenig Residence Hall sometime over the weekend.

March 3

4:55 p.m. — A staff member reported the theft of a power saw

and cordless drill, together valued at \$400, from a parked vehicle south of Prince Hall.

March 4

11:50 a.m. — An electric contractor reported the theft of a cordless screwdriver and a battery charger, worth a total of \$250, from a work area in Simon Hall.

March 6

8:48 p.m. — A student reported the theft of an electric sander, a cordless drill and a movie camera, together valued at \$285, from a locked storage cabinet in Bixby Hall.

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

For The Record

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

Of note

Roger Chamberlain, D.Sc., associate professor of computer science, has received a one-year \$200,000 grant from the National Science Foundation to study optical data paths for multi-computer interconnections. Chamberlain and his colleagues plan to develop an optical data path, including optical switching, for use in interconnecting processors in a massively parallel processing system, which supplies high-speed computation. ...

Laura Chapman, a graduate student in the Department of Psychology in Arts and Sciences, recently received an award of \$1,000 and a certificate from the Alzheimer's Disease Research Center (ADRC). The ADRC Directors' Education Award is given to students who show considerable promise in research within the aging and Alzheimer's domains. The award is to be used for research purposes, conference travel and other expenses related to further study. ...

John Drobak, J.D., professor of law, has received a two-year \$275,000 grant from the National Science Foundation to study innovation in the computer industry related to magnetic rigid disk drives. **Ronald S. Indeck, Ph.D.**, professor of electrical engineering and director of the University's Magnetics and Information Science Center, is Drobak's co-investigator on the project, which will involve the use of institutional economics and cognitive science to study technical innovation in computer hard drives. ...

E. Mark Haacke, Ph.D., professor of radiology and of biomedical engineering, has

received a two-year \$495,946 grant from the National Heart, Lung and Blood Institute for a project titled "MRI of Coronary Artery Disease." ...

Jeff W. Lichtman, M.D., Ph.D., professor of anatomy and neurobiology and of biomedical engineering, has received a three-year \$163,862 grant from the Muscular Dystrophy Association for a project titled "Neuromuscular Junction Maintenance by Muscle Fibers." ...

Joshua R. Sanes, Ph.D., professor of anatomy and neurobiology, has received a three-year \$194,519 grant from the Muscular Dystrophy Association for a project titled "Determinants of Neuromuscular Specificity in Mammals." ...

On assignment

Eric Mumford, Ph.D., assistant professor of architecture, was chair of and a respondent for the Progressive Planners session at the biennial conference of the Society for American City and Regional Planning History held recently in Seattle. ...

Margaret W. Skinner, Ph.D., professor of otolaryngology and director of that department's Adult Cochlear Implant Program, recently was chair of the 1997 Conference on Implantable Auditory Prostheses, a biennial research conference on cochlear implants, held in Pacific Grove, Calif. She also presented an invited paper titled "Threshold and Maximum Acceptable Loudness Level Variability: Implications for Selection of Minimum and Maximum Stimulation Levels for Implant Use." ...

To press

The 1997 edition of "Corporate and White-Collar Crime: Selected Cases and Statutes" by **Kathleen F. Brickey, J.D.**, the James Carr Professor of Criminal Jurispru-

dence, was published by Aspen Law and Business, which recently acquired the law book division of Little, Brown and Co.

Speaking of

Kathleen Clark, J.D., associate professor of law, made a presentation on "Fiduciary Theory and its Implications for Campaign Finance Reform" to a group of political scientists, pollsters and political activists who met at the

University receives \$6.5 million pledge — from page 1

number of ways," Wrighton explained. McDonnell served as a trustee and chairman of the Board of Trustees for many years. His interest and support of the University are widely evident — in the first professorship he established in the space sciences in 1964, in the establishment of the McDonnell Center for the Space Sciences in 1975 and in many other valuable contributions, especially in the area of genetics and studies of the human mind and brain.

"This lifelong interest in the study of the mind-brain connection makes it particularly appropriate that Roddy Roediger receive the first James S. McDonnell Distinguished Professorship," explained Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences. "The pioneering work being done by Roediger is the kind of research that advances science and provides valuable, practical applications for today's society and beyond."

The McDonnell professorships will be established in areas that are in keeping with James S. McDonnell's chief interests: physics, space and earth sciences and complex systems; engineering and applied sciences; international affairs and economics; and human cognition and genetics. Roediger is an expert in human

American Enterprise Institute in Washington. The presentation was at the invitation of the Pew Charitable Trusts. As part of the American Bar Association's Central and Eastern European Law Initiative program, Clark also provided comments on Uzbekistan's proposed code of lawyer conduct. ...

Gruia-Catalin Roman, Ph.D., professor and chair of the Department of Computer Sci-

ence, and two collaborators presented a paper titled "Expressing Code Mobility in Mobile UNITY" at the sixth European Software Engineering Conference in Zurich, Switzerland. Roman also presented the paper "Mobile UNITY Coordination Constructs Applied to Packet Forwarding for Mobile Hosts" at the second International Conference on Coordination Models and Languages in Berlin.

learning and memory. He joined the University in 1996 after eight years as the Lynette S. Autrey Professor of Psychology at Rice University. Roediger also taught at Purdue University and the University of Toronto, after receiving a Ph.D. from Yale University in 1973.

A prolific author whose work is frequently cited, Roediger has published three textbooks, co-edited a volume of essays and written numerous book chapters and journal articles. In addition, Roediger has served as editor for *Psychonomic Bulletin & Review* and the *Journal of Experimental Psychology: Learning, Memory and Cognition* and is a consulting editor for several others in his field of expertise. He has been president of the Midwestern Psychological Association and received a Guggenheim Fellowship in 1994. According to a 1996 study by the Institute of Scientific Information, Roediger's papers had the greatest impact (measured by their average number of citations) in the field of psychology for the five-year period from 1990 to 1994.

William H. Danforth, chairman of the University's Board of Trustees, said: "Once again I am struck by the McDonnell family's abundant generosity and their deep concern and respect for the St. Louis community and Washington University."

Both sons have followed their father in their careers and in their service to higher education. John F. McDonnell served as chairman of the board of McDonnell Douglas from 1988 until its merger with The Boeing Co. in the fall of 1997. Currently he serves on

Boeing's board of directors. He has been chairman of the Federal Reserve Bank of St. Louis since 1996 and also serves on the board of Ralston Purina Co. As director of the James S. McDonnell Foundation and chairman of the McDonnell Douglas Foundation, he has helped guide the family's and the corporation's support for many educational, cultural and civic endeavors. At the University, John McDonnell has served as a trustee and a vice chair of the Board of Trustees and continues to contribute his leadership and support as a member of various trustee committees. He and his wife, Anne, are life members of the University's William Greenleaf Eliot Society, sustaining charter members of the society's annual Danforth Circle level and life Danforth Circle members.

James S. McDonnell III retired as corporate vice president from McDonnell Douglas in 1991 but continued to serve as a director through the recent merger with The Boeing Co. A longtime advocate for St. Louis institutions, he has served as a director of the Arts and Education Council of Greater St. Louis, the Missouri Botanical Garden, the Municipal Theatre Association, the VP Fair Foundation, the United Way of Greater St. Louis and the Missouri Historical Society. For almost 20 years, he has served in a number of leadership positions for the enhancement of the University, especially for the School of Medicine. He and his wife, Elizabeth, are life Eliot patrons of the Eliot Society and charter members of the society's Danforth Circle.

— Barbara Rea

News Analysis

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

Calls to indict Saddam Hussein purely political, international war crimes tribunal expert says

The U.S. Senate Committee on Foreign Relations is considering a resolution by Sen. Arlen Specter, R-Pa., calling for indictment and prosecution of Saddam Hussein for war crimes and crimes against humanity. Some see war crimes prosecution as an inviting alternative to military action, but **Leila Sadat Wexler, J.D., LL.M., D.E.A.**, associate professor of law and a leading tribunal legal expert, said it would be ineffective and inappropriate to use this option, "at least as the media has reported it," to address the current Iraqi crisis.



Leila Sadat Wexler

"The gaping hole in Sen. Specter's proposal, of course, is that there isn't any international court now in existence that could assume jurisdiction over Saddam Hussein's case," Wexler said.

The United Nations Security Council has established tribunals to try individuals accused of violations of international law in the former Yugoslavia and Rwanda, but Wexler argued that these tribunals were more appropriate because they addressed immediate crimes and were widely supported by the international community. The potential defendants also were put on notice they might be tried, she said.

The current call for the indictment of Hussein seems to be a belated attempt to dredge up old abuses for an overtly political purpose, Wexler said. "There is no doubt that Saddam Hussein may be guilty of serious violations of international law, but there is no court to try him," she added.

"No system exists to interpret and enforce international criminal law, and national criminal justice systems often lack either the authority or the political power to step in," she said. "Indeed, where the government itself is engaging in criminal behavior, national criminal justice systems are often part of the problem."

"Creating a tribunal for one individual, or even just a few individuals, well after the fact smacks of political maneuvering," said Wexler, who recently wrote an article on the creation of a permanent international criminal court in *Cornell International Law Journal*. However, there is "always a certain element of politics in these decisions," she said, noting that no tribunal has been established to prosecute clear humanitarian violations in Cambodia and East Timor.

"We hope that the permanent international criminal court will function as an impartial, independent and credible institution — puppet neither to the Security Council, the superpowers nor the politics of states," she said.

Wexler added that a treaty conference this summer will examine issues raised by creating an international court system, such as whether the court would hear cases that date prior to the court's creation. Above all, Wexler said, any plans for such a court should do a few things well rather than many things poorly.

"It is better to create a strong institution with a narrow compulsory jurisdiction ... than to try to be all things to all states and end up with a structure that cannot function at all," she said.

(Note: Specter's resolution is online at: [http://thomas.loc.gov/cgi-bin/query/D?c105:1:./temp/~c105Dd31:~](http://thomas.loc.gov/cgi-bin/query/D?c105:1:./temp/~c105Dd31:))

Obituaries

Paul Ullman Jr., affiliate professor of finance in engineering and policy

Paul Ullman Jr., affiliate professor of finance in the School of Engineering and Applied Science, died of complications from heart disease Wednesday, Feb. 25, 1998, at Missouri Baptist Medical Center in Town and Country. He was 81 and lived in Ladue, Mo.

Ullman taught at Washington University for 17 years, beginning in 1982 as an affiliate assistant professor of finance in engineering. In 1988, he was named affiliate professor of finance. Ullman taught courses on technological entrepreneurship and on technological business development.

"Paul Ullman personified everything we try to achieve in professional graduate education," said William P. Darby, Ph.D., vice dean of the engineering school. "Everyone who had the honor of knowing Paul and learning from him — and I count myself in both groups — will deeply miss him, his wit, his stories and his brilliance."

Ullman was born and raised in St. Louis. He graduated from the

University of Missouri-Columbia in 1938 and served in the U.S. Army in World War II.

A financial executive for many years in St. Louis, Ullman had been a managing partner with Cortland Associates Inc., a money management firm, since 1989. Earlier, he was a partner at A.G. Edwards and Sons Inc.

A memorial service was held March 1, at Temple Emmanuel in Creve Coeur.

Among the survivors are his wife of 49 years, Emily Ullman; three daughters, Anne Tolan of Webster Groves, Margaret Ullman of St. Louis and Elizabeth Ullman of Denver; a son, Paul A. Ullman of New York; a sister, Marian Cronheim of Ladue; and four grandchildren.

Memorial contributions may be made to the Scholarship Foundation, 8221 Clayton Rd., St. Louis, MO, 63117; to Springboard to Learning Inc., 634 North Grand Blvd., St. Louis, MO, 63103; or to a charity of the donor's choice.

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. If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at 935-9836. Staff members may call 935-5906.

Licensing Case Coordinator 980219. Center for Technology Management. Requirements: bachelor's degree, master's preferred; attention to detail; excellent computer skills (PC Windows Platform); communication skills; organizational ability; willingness to work as part of a team. Responsibilities include managing new disclosures and inventions; tracking patents, licenses and related agreements; interacting with faculty, law firms and corporations.

Media Technical Support Specialist 980224. A&S Computing Center. Requirements: associate's degree; technical school or equivalent experience/training; demonstrated skills with computer hardware installation including network cable, cards and disks and general PC troubleshooting; familiarity with A/V hardware installation and setup, including VCR and video distribution systems and audio systems; experience with LAN support including Ethernet, Novell, Appletalk; Novell or Microsoft certification a plus; strong interpersonal skills and desire to learn new technologies. Responsibilities include support of computer hardware, software applications and network access in departments and central computing center, as well as support of A/V equipment in the multimedia language labs.

Director of New Student Orientation and Parents Weekend 980226. Student Affairs. Requirements: bachelor's degree, master's in higher education, student affairs or related field preferred; minimum three years work experience; direct experience with orientation in a university setting; knowledge of university environment and challenges facing first-year college students; conceptual knowledge of orientation and possibilities for year-long transition program; outstanding written and oral

Airport volunteers needed to greet visitors to Multicultural Celebration

The Office of Undergraduate Admissions is seeking faculty and staff volunteers to greet visiting high school seniors at Lambert-St. Louis International Airport on April 16. The day marks the beginning of the University's annual Multicultural Celebration Weekend for students admitted to next fall's freshman class.

The weekend is sponsored by several student groups, including the Association of Black Students, the Asian Students Association, ASHOKA (the Indian student association), the Chinese

communication skills; excellent problem-solving skills; experience in development and coordination of complex large-scale programs; flexibility and ability to work with diverse constituencies including students, parents, faculty and staff; creativity, energy and commitment to excellence. Position reports to the assistant vice chancellor for students and associate dean for the freshman transition.

Assistant Accountant 980227. Biology. Requirements: high school diploma; four years bookkeeping, purchasing, receiving and accounts payable experience; knowledge of multiple FIS functions, A-21 and WU regulatory guidelines; strong bookkeeping, clerical and verbal skills; intermediate understanding of budgeting, accounting and purchasing; ability to handle multiple functions simultaneously, work accurately under deadline pressures and effectively support and interact with a large and diverse group; sound, independent judgment; initiative; ability to work under minimal supervision; capable of lifting/moving 40 pounds. Responsibilities include processing all departmental transactions for purchasing, assets and insurance; handling receiving functions; running stockroom when stockroom manager is absent.

Coordinator of Access Control Systems 980230. Police Department. Requirements: high school diploma, bachelor's degree preferred; demonstrated communication and interpersonal skills to facilitate service to schools and departments of the university and coordinate installation and implementation of access systems; ability to perform under high stress; physical fitness and stamina to climb ladders and stairs, crawl through tunnels and generally move effectively through construction sites and renovation projects; 24-hour-a-day, seven-day-a-week availability to respond immediately and fully to the needs of the university; must successfully pass comprehensive background investigation and aptitude test.

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

Manager of Personal Computing Support 980234. Business School. Requirements:

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

Medical Campus

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

Technician (part time) 980602. Requirements: bachelor's degree; lab experience; knowledge of immunostaining of cells; physical stamina for standing and bending over close work. Responsibilities include general

lab duties in neuroimmunology lab; cell culture; immunostaining cells; reverse-transcriptase PCR; general lab maintenance; ordering supplies.

User Support Technician 980654. Requirements: associate's degree or two years technical training or experience in related discipline; training or experience in PC hardware and software technologies including Windows 3.1, Windows 95, Office 95 and Lotus Notes; familiarity with TCP/IP and Windows NT, LAN technologies, modem and remote connectivity protocols; superior communication and personal interaction skills to interact with all levels of staff and faculty members. Entry level telephone support position. Responsibilities include assisting callers with computer problems and questions.

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

Systems Manager 980854. Medical Library. Requirements: bachelor's degree in computer science or four years related experience in systems administration; two years

experience maintaining multiple notes servers in a production NT or UNIX environment; experience in Notes/Domino 4.5, SMTP MTA and TCP/IP preferred. Responsibilities include Lotus Notes administration and serving as backup to NT Systems Manager.

Statistical Data Analyst 980893. Requirements: bachelor's degree in statistics, computer science or related field; one year experience; experience using SAS and other database packages to manage large databases and oversee personnel responsible for entering and cleaning data, preferably in research setting; knowledge of Microsoft Access and Excel a plus. Responsibilities include maintaining several large databases for cancer studies in fast-paced, busy PSA studies laboratory.

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

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

Trustees get update on Human Genome Project

The Washington University Board of Trustees met Friday, March 6, at the School of Medicine's Eric P. Newman Education Center. The trustees heard a report on the status of the Human Genome Project, a worldwide effort in which the University's scientists are taking a leading role. Chancellor Mark S. Wrighton reported a number of other University accomplishments as well.

The presentation on the Human Genome Project was given by Robert H. Waterston, M.D., Ph.D., the James S. McDonnell Professor of Genetics, head of the Department of Genetics and professor of anatomy and neurobiology. The work of his team to map the human genome has received one of the largest grants ever made in the history of the National Institutes of Health. His team, in cooperation with other laboratories around the nation and the world, hopes to complete the sequencing map of the entire human genome by the year 2005.

In his report to the trustees, Waterston noted that all data obtained in the mapping of genetic sequences is published immediately and is shared with other researchers without encumbrance. These data are proving useful in

searches for human disease genes, in physical mapping studies and in the interpretation of the human genomic sequence.

Wrighton's report to the trustees reviewed the extraordinary growth in undergraduate applications for admission, which have topped the 16,000 mark for the 1,200 openings in the freshman class for fall 1998. This represents an increase of 17 percent over last year, more than 110 percent over the past four years and nearly 400 percent over the past dozen years. He said that the number of applications for this fall now exceeds those at most Ivy League universities and other leading U.S. universities.

Wrighton noted that the campus is gearing up for April Welcome, where nearly 1,000 admitted high school seniors will come to visit campus during their spring breaks to learn more about the University, its students and its faculty.

In his remarks, Wrighton also recognized the accomplishments of Trustee Steve Fossett and his Solo Spirit attempt to make an around-the-world hot-air balloon flight. The University served as mission control for the attempt, which received international attention in print and electronic news media.

Wrighton reviewed a meeting of the International Advisory Council in December in Hong Kong; a highly successful gathering of more than 400 prospective students, their parents and their high school guidance counselors in Los Angeles; and the installation of five leading faculty as named professors, thanks to the support of friends of the University. Wrighton also gave a report on the most recent U.S. News and World Report rankings of graduate and professional programs, in which the School of Medicine rose to third in the nation.

The audit committee reported the selection of the bid by Coopers & Lybrand L.L.P. to audit the accounts and financial records of the University for fiscal years 1997-98, 1998-99 and 1999-2000. A condition of their selection is participation in the audit by a minority firm.

During the trustee meeting, reports were provided by several other standing committees, including buildings and grounds, development, educational policy, finance, honorary degree, investments, research-graduate affairs and student affairs. The meeting was called to order and chaired by William H. Danforth, chairman. The next trustees meeting is scheduled for May 1.

Linking to the Internet — from page 1

commodity Internet that limits its usefulness."

The vBNS is a crucial player in the president's Next Generation Internet initiative. The NSF will make as many as 150 additional connections to the Next Generation Internet, if Congress continues support for NSF's role in the program.

Begun in 1995 in collaboration with MCI Telecommunications Corp., the vBNS represents an investment of \$50 million over five years. Applications for connection are evaluated by a peer-review process and are approved on the basis of scientific and technical merit.

The sophisticated telecommunications network currently runs at 622 million bits per second and is expected to operate at 2.4 gigabits (or 2,400 megabits) per second by the year 2000. In comparison, the average home modem transmits 28,800 bits per second. The vBNS is expected always to be several steps ahead of commercially available networking.

The network's capacity allows scientists and engineers to collect and share large amounts of data, to

collaborate more effectively across large distances and to run complex equipment from remote sites. The ability to share data and equipment helps researchers studying everything from atoms to galaxies and enables them to run remote simulations ranging from environmental studies to the beating heart.

Cox was influential in winning University membership in NSF's National Partnership for Advanced Computational Infrastructure (NPACI) in 1997. NPACI's goal is to build a national computational infrastructure that provides computing tools to scientists and engineers nationwide. The University serves as a prominent data-storing and distributing site for NPACI.

The University's connection to the vBNS will enhance collaborations with other vBNS-connected research institutions in applications ranging from neuroscience, electronic radiology, planetary databases and physics to genome sequence analysis and studio-quality video collaboration. Dozens of Hilltop and Medical Campus faculty will benefit.

— Tony Fitzpatrick

Life insurance, care plans on agenda at March seminars

Are you and your family adequately protected in the event of a serious illness, accident or death? An upcoming Office of Human Resources seminar will help employees answer that question.

The seminar will review the often-overlooked benefits of group life insurance, long-term

disability and long-term care plans at the University. The free sessions will be presented by Tom Lauman, director of benefits.

Four seminars are scheduled on all three campuses as follows:

• Hilltop Campus — Tuesday, March 17, noon-1 p.m., Room 100 South Brookings Hall;

• Medical Campus — Wednesday, March 18, 11 a.m.-noon and noon-1 p.m., Schwarz Auditorium;

• West Campus — Thursday, March 19, noon-1 p.m. Room A/B Conference Center;

Registration is not required. For more information, call the benefits office on your campus.

U.S. News' Web site adds programs to earlier rankings

Four more areas of study at Washington University are among the top 25 in the nation, according to additional rankings published on the U.S. News & World Report World Wide Web site but not included in the weekly news magazine's 1998 rankings of graduate and professional programs published last month.

These additional rankings include two areas in the John M. Olin School of Business, one in Arts and Sciences and one in the

School of Engineering and Applied Science.

In the business school, the Executive MBA Program tied for 14th with Purdue University, and general management tied for 16th with the University of Southern California.

In Arts and Sciences, the American politics area of study in the Department of Political Science ranked 16th.

In the engineering school, biomedical engineering tied for 22nd place with the California

Institute of Technology and with Cornell, Marquette, Tulane and Vanderbilt universities.

In general, the magazine's rankings are based on varying criteria that can include reputation; research activity; student selectivity; faculty resources; placement; and surveys of deans, faculty and administrators.

To access these and other U.S. News rankings online, visit www.usnews.com/usnews/edu/beyond/bcrank.htm.