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Record

Nov. 18, 1999

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Washington University in St. Louis



Women's concerns

Faculty report urges more tenured positions, help with child care

By Susan Killenberg McGinn

Increasing the number of women faculty in tenure-track positions on the Hilltop Campus and exploring the possibility of on-site child-care facilities are two of the recommendations made in a recently released report by Washington University's Association of Women Faculty (AWF).

With Chancellor Mark S. Wrighton's guidance and the support of the seven Hilltop deans, the AWF's Committee on Tenure and Promotion surveyed tenured and tenure-track faculty on the Hilltop Campus in 1998-99 to obtain their perceptions of the work environment in their respective schools and in the University. The group's Report on the Status of Women on the Hilltop Campus summarizes the results of the survey and offers recommendations.

"The findings and recommendations need to be taken seriously," Wrighton wrote in a letter mailed to all faculty with the report. "I have asked each Hilltop dean to work with the faculty in his or her school to determine school-specific action plans. I have asked them to report on their implementation plans at the beginning of the new calendar year."

"We need to take rapid action on the issue of child care," Wrighton added. He has named a small group headed by Richard A. Roloff, executive vice chancellor, to review options. Roloff's group will make recommendations to the chancellor next semester, with possible implementation as early as the 2000-01 academic year.

During the 1998-99 academic year, the Hilltop Campus employed 547 tenured or tenure-track faculty, of which 115 (21 percent) were women.

In addition to the 547 surveys sent to faculty, the committee wrote to the University's department chairs and school deans with apparently successful records of recruitment, tenure and/or promotion to explore their policies and practices with regard to expanding the number of women on their faculties. The committee also collected data from the Office of Personnel on tenure-line appointments in each of the schools by rank and gender.

The 56 survey questions were designed to tap faculty members' perceptions of five aspects of University life: faculty recruitment, faculty development, mentoring, work environment and organizational policies.

See AWF, page 2



Dominique Whittier (left) and Charrell Williams, both seniors at Beaumont High School and scholars in the Apprentice Teacher Project, tour campus as part of their Oct. 29 workshop.

Apprenticing youths as teachers

By David Moessner

Jerome just wasn't getting it. Uninspired by the words in his textbooks, the fifth-grader had fallen behind in his studies. He was frustrated and discouraged, disagreeable to the point that no one wanted to work with him.

Enter Treisa Gladney. A 17-year-old volunteering as an after-school tutor, Gladney took a look at Jerome's history lesson and quickly set aside the book. And then she brought the 17th century back to life. "We reenacted the entire chapter," she recalled. "I just jumped up and said, 'Stand right here — you're the pilgrim...'"

"I just want to bring my knowledge to kids in a different way — a way in which they understand it," Gladney said with infectious enthusiasm. "You need a whole bunch of different ways of teaching one thing, because not everyone can pick up on the conventional way."

Gladney was one of more than

1100 potential "teachers of tomorrow" on campus Oct. 29 as part of an Apprentice Teacher Project workshop. The project, funded by the Danforth Foundation in partnership with the Metropolitan St. Louis Alliance of Black School Educators (MSLABSE) and six area school districts, is an effort to interest local African-American high school students in education careers.

Currently there are 150 MSLABSE Scholars, as they are known — about 25 each from Berkeley, Parkway South, Beaumont, Sumner, Vashon, University City, Normandy and Eskridge high schools.

The project is comprised of three primary components: an extensive after-school tutoring program that totals 2,000 hours a year, a steady stream of college preparatory and teacher development opportunities and a mentoring program that pairs each scholar with an adult who has a background in education.

"I don't let the kids hear me saying this, but we know they're

not all going to be teachers," said project administrator Flossie Henderson, whom Gladney described as "like the mother of everybody in the program."

"Oh my goodness, though," Henderson said with a sigh, "the numbers are so scary. In terms of teacher availability in the next 20 years of any ethnic background, it's scary. Bottom line, we have a shortage now of available, qualified teachers to work with young people. And where race and ethnicity play in, the numbers are even more scarce. And, as we now know in terms of how learning happens, if you look like me, that sometimes helps."

Gladney, who observed that "they really want us to be educators — not just teachers," is among the full converts. The Parkway West senior, who is considering Washington University among her collegiate options, said that the opportunity to tutor two days a week at Hanna Woods Elementary School has refueled her dream to teach.

See Teachers, page 6

Compton, Cori Award nominations sought to honor faculty achievement

Chancellor Mark S. Wrighton and Arnold W. Strauss, M.D., the Alumni Professor of Pediatrics at the School of Medicine and chair of the Faculty Senate Council, invite the faculty to nominate recipients of next year's Faculty Achievement Awards.

The Faculty Senate Council and Wrighton established the annual awards, now known as the Arthur Holly Compton and the Carl and Gerty Cori Faculty Achievement Awards, in spring

1998. The Compton Award is given to a distinguished member of the faculty from one of the seven Hilltop schools and the Cori Award to a faculty member from the medical school.

The awardees will be announced at the Chancellor's Gala April 15, 2000. The recipients will be asked to give an address to the University community next fall, summarizing their outstanding scholarly

See Awards, page 7

Pathfinder program links disparate fields in sustainability studies

By Tony Fitzpatrick

California's Mojave Desert and Hawaii's Big Island are stops along the pathway of an exciting new Washington University program called Pathfinder.

Scheduled to begin in fall 2000, Pathfinder is a program in the Division of Natural Sciences and Mathematics — also available to engineering students — designed to help shape the academic careers of 15 of the University's top incoming freshmen.

These students will choose majors in the division or in the School of Engineering and

Applied Science; they will work as well in the Pathfinder Program, conducting rigorous environmental field work and examining research topics from environmental sustainability perspectives.

Pathfinder students will be directed and mentored by Raymond E. Arvidson, Ph.D., the James S. McDonnell Distinguished University Professor and chair of the Department of Earth and Planetary Sciences in Arts & Sciences. Students also will be paired with a graduate fellow.

Arvidson helped develop Focus and Hewlett programs earlier in the decade, both combining challenging field work with

environmental issues. Both can be considered Pathfinder's progenitors.

"Pathfinder is unique," said Arvidson. "It's a program that puts one group of students together for four years with one adviser, and the concentration is on environmental sustainability, although each of the 15 students could have a different major. The emphasis is on addressing problems from multiple perspectives."

"While environment is a big component of the program," he added, "Pathfinder is completely different from the Environmental Studies Program. It's a pathway that's consistent with any major in

the division or within the school of engineering."

Students in the Class of 2004 each will receive a promotional brochure about Pathfinder upon acceptance to the University. For the first group of Pathfinder students, who start next year, the curriculum provides that:

- Freshmen will take an introductory course in environmental sustainability in coordination with an English composition course, an environmental ethics course and a case study of the Mojave Desert, accomplished during spring break.
- Sophomores complete a case study of Hawaii and study issues

associated with volcanism, earthquakes, landslides and tsunamis, as well as eco-tourism and sustainability in Hawaii. The University and students split the travel costs.

• The junior year includes a coordinated study of some critical issues in environmental sustainability.

• The senior year culminates with a "capstone experience" involving a seminar and an associated honors thesis focusing on the student's study topic. It will address issues and solutions discovered in the student's areas of interest.

See Pathfinder, page 6



Asia Forum Panelist Theodore Cook (left), professor of history at William Patterson College of New Jersey, makes a point at the 1999 International Student Conference, organized by Asia Forum, a University undergraduate organization. The two-day academic conference, held Nov. 12-13 in the Women's Building, brought international scholars and students together for a dynamic study of the Nanking Massacre of the late 1930s. Looking on, from left, are B.T. Wakabayashi (obscured) of York University, Timothy Brook of the University of Toronto, Washington University student moderators Matthew Burr and Lauren Mandell, and Yang Daqing of George Washington University.

Debate team is coming on strong

BY JOHN HEYS

"This house resolves that it should bake a cake." You and your debate partner have 15 minutes to develop a logical and rhetorically convincing argument against this resolution. The speaker, or critic, is waiting, as is your competition. The clock is ticking.

This isn't a nightmare from your high school debate club; it is business as usual for Washington University's debate and forensics team and its new coach and director, Jennifer Rigdon.

And business is good. In its first competition this year at Middle Tennessee State University in Murfreesboro, Tenn., the team's novice debaters won the tournament. The varsity team went undefeated in preliminary rounds, though it lost in the quarterfinals of the elimination round. Several

members of the team took home individual speaking awards.

Team members argued topics ranging from the light-hearted baking example above to more serious issues, like the use of renewable energy resources.

"They did very well," Rigdon said as she sat next to a bookcase crowded with trophies. More trophies and awards remain in her car—there simply isn't room for them all in her office.

Rigdon, who was a college debater during her undergraduate years at Southeast Missouri State University in Cape Girardeau, Mo., might also be a master of modesty.

Under her guidance, the team has competed in three tournaments, hosted the British national debate team, and, in conjunction with the University of Missouri—St. Louis and Webster University, hosted the Gateway Invitational in late October, in which 40 teams from 21 schools

around the country participated.

Rigdon, a native of St. Charles, Mo., received a master's degree in 1993 from Southern Illinois University at Carbondale and will receive a Ph.D. there in 2000.

She began coaching debate as an assistant at Carbondale. In 1995, she became Southeast Missouri State University's full-time debate coach and took over the school's debate program.

This August, Rigdon came to Washington University to fill a newly created position. Four University sophomores had formed the debate team in spring of 1997. Until this August, the group had been student-run.

"It seemed like a good fit," Rigdon said of her new role. "The team had reached the point where they were ready for a coach."

Mike Cerulo, a junior in the College of Arts & Sciences and president of the debate team, agreed. "The hiring of Jennifer Rigdon has been tremendous for the team," he said. "She is definitely an asset to the organization."

The results and the trophies seem to speak for themselves. But Rigdon isn't necessarily content with the team's success so far—and neither are its members. "They expect to win the national tournament this year," she said, "and I have nothing to say but, 'Great, let's do it!'"

While Rigdon proudly displays the team's awards, she stresses that students gain much more from debate and forensics than just accolades. The skills they hone for competitions are the same skills they use in the classroom.

"They learn to love information gathering, and that makes class so much easier," said Rigdon, who is a teacher herself—she teaches basic public speaking courses at Southern Illinois University at Edwardsville.

Debate also prepares students for life after college. "Obviously, debate enhances speaking and argumentation skills, which will be important in almost any field," said Cerulo, a debater since high school.

"If these are the students who go on to be our politicians or other leaders," Rigdon added, "they have a really good foundation."

Before they become our mayors and senators, however, the team members have a few more tournaments to compete in.

The team competed in a tournament at the Air Force Academy in Colorado last weekend and will go to George Washington University in Washington, D.C., in early December, pursuing their quest for national recognition.

Rigdon will be there to help them along the way. "I love coaching," she said. "This was always my dream job, and to actually be here is amazing to me. I still walk around the campus and think, 'Wow, I work here!'"

New policy gives inventors flexibility in allocating funds

Theodore J. Cicero, Ph.D., vice chancellor for research, announced changes Nov. 5 to the University's intellectual property policy.

"The new policy allows inventors to be more flexible in allocating revenue to themselves and their laboratories," Cicero said. "It also specifies, for the first time, how revenue should be distributed if a faculty member retires, moves or dies."

When the University licenses a technology, 45 percent of the net annual revenue goes to the person or persons whose research led to that invention. Previously, inventors had to accept all of this revenue as personal income or assign all of it to their laboratories.

Now they can choose both options if they wish, using any ratio to divide the funds. The decision must be made when the license is signed and will be irrevocable for five years (or for the duration of a shorter license agreement).

The new policy specifies that revenue designated as personal income will go to inventors or

their estates if inventors leave the University for any reason.

Revenue designated as laboratory income usually will be transferred to the inventor's new laboratory if he or she moves to another academic institution. But if the inventor retires, resigns, dies or accepts a nonacademic position, the laboratory portion of the revenue will, after consultation with the creator(s), revert either to the department or to a newly created Research Development Fund.

Ninety percent of the revenue that goes into this fund will be earmarked for research in the school that generated the licensed technology, provided applications meet criteria of scientific excellence. The other 10 percent will be available for any worthy University research activity. An advisory committee, chaired by Cicero, will manage the fund.

For more information, call Cicero's office at 362-7010. To inquire about licensing a particular technology, call the Center of Technology Management at 747-0920.

AWF

Report addresses women's concerns

— from page 1

The survey results were published in the AWF report, written by Mary Ann Dzuback, Ph.D., associate professor of education, and Lee Epstein, Ph.D., the Edward Mallinckrodt Distinguished University Professor of Political Science, both in Arts & Sciences.

According to the report, the University is making progress toward increasing the number of women in tenured positions at both the associate and full professor levels, from 11.2 percent of full professors in 1995-96 to 13.3 percent in 1998-99, and from 19.1 percent of associate professors in 1995-96 to 22.9 percent in 1998-99. Of the University's assistant professors last year, 39.8 percent were women.

However, the number of women faculty in tenure-track positions on the Hilltop Campus is below the 26.4 percent average of all reporting private Category 1 research universities.

While commending the University for its policy of providing new faculty such incentives and support as research accounts and computer equipment, the AWF recommends taking even more steps. Among the recommendations are that schools and departments should appoint committees to review the composition of their faculties relative to the population of Ph.D.s in the particular field and develop strategies for identifying qualified women and minorities at all ranks.

Also, AWF recommends that the various schools and the central administration should make special efforts to diversify the University's leadership by increasing diversity among deans and department chairs. In addition, the administration should encourage schools and departments to establish more inclusive search committees when recruiting faculty at all ranks.

In faculty development, the AWF found that a majority of male and female assistant professors do not believe that the criteria for promotion at the University are well defined or consistently applied, though concerns about promotion vary by school. Less than 50 percent of the respondents found that criteria for promotion are consistently applied to faculty in comparable positions, indicating a perception of unfairness.

Recommendations include:

- Appointing school-wide committees to explore and, if necessary, clarify tenure and promotion policies;

- Disseminating promotion criteria to all faculty annually; and

- Ensuring both that assistant professors are reviewed on an annual basis and that the reviews are documented in writing, with opportunities for the junior faculty to respond.

In regard to mentoring, women faculty at the assistant professor rank feel less mentored than do their male colleagues across the University. According to the AWF report, "mentoring is perhaps the most important form of guidance the University has to offer in shaping each generation of scholars and teachers. . . . The departments and schools most successful at mentoring and promoting women engage in a variety of activities that are designed to help junior faculty develop productive scholarly records, national and international reputations, interactions with colleagues in the field, and connections with sources of grant support and publication."

Most of the respondents found the University a good place to work; but there is room for improvement, because women faculty members find the work environment less hospitable than men with respect to role models, gender and ethnic bias, and sexual harassment in the workplace.

In addition, most of the women found that the lack of adequate on-site child-care facilities is hampering their professional progress.

"The report has started a healthy process of self-study already," said AWF President Fatemeh Keshavarz, Ph.D., associate professor of Persian and director of the Center for the Study of Islamic Societies and Civilizations in Arts & Sciences. "At the AWF, we are trying to provide members with as many opportunities as possible to discuss the report and participate in planning steps to be taken to better the status of women on the Hilltop campus."

"At the same time, we are excited about the positive and prompt attention by the administration to the report, including the chancellor's appointment of a committee on child-care issues. AWF will have two members on it. It is," she added, "an exciting time."

Life sciences symposium set

Renowned academic, research and business leaders of St. Louis' blossoming life sciences industry will discuss its challenges and potential benefits in a symposium from 4 to 6 p.m. Nov. 29 at the John M. Olin School of Business, in Simon Hall's May Auditorium.

The life sciences industry began many years ago with the development of insect-resistant cotton. Today it includes:

- Agrobiotechnology, comprising crops genetically altered to resist pests and herbicides and foods developed to provide health benefits such as combating cancer;

- Biotechnology, which focuses on identifying the genetic causes of human disease through programs such as the Human Genome Project; and

- Biomedical engineering, which applies principles of engineering to problems in biology and medicine.

Panelists will discuss implications of life sciences research for business, medicine and capital

markets.

Panelists will be Roger N. Beachy, Ph.D., president of the Donald Danforth Plant Science Center, internationally known for his work on virus-resistant plants; Kinney Johnson, partner in Sequel Venture Partners, which provides venture capital for start-up companies; Hendrik Verfaillie, president and chief operating officer, Monsanto Co.; Chancellor Mark S. Wrighton, a professor of chemistry who holds 14 patents related to his research; and Frank C-P Yin, M.D., Ph.D., chair of the Department of Biomedical Engineering and director of the University's Institute for Biological and Medical Engineering.

Moderators will be Spencer B. Burke, managing director, investment banking, A.G. Edwards & Sons, Inc., and Stuart I. Greenbaum, Ph.D., dean and professor of finance at the business school.

Sponsors are A.G. Edwards & Sons, Inc.; Nidus Center for Scientific Enterprise, and the University.

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(314) 935-6603	(314) 286-0111
Campus Box 1070	Campus Box 8508
betsy_rogers@wustl.edu	duke@medicine.wustl.edu
aismail.wustl.edu	

Editor Betsy Rogers
Associate Vice Chancellor Judith Jasper Leicht
Executive Editor Susan Killenberg McGinn
Medical News Editor Diane Duke Williams
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David Moessner • Christine Farmer
Production Carl Jacobs

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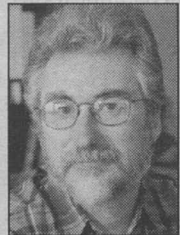
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Medical School Update

Beyond the ordinary Students highlight outstanding teachers at ceremony

A teacher affects eternity; he can never tell where his influence stops—Henry B. Adams

School of Medicine students recognized extraordinary faculty members for their dedication to teaching at a ceremony Nov. 10 in the Eric P. Newman Education Center. In addition to a number of faculty who received Distinguished Service Teaching Awards, five honorees were recognized for their outstanding contribution to medical student education. Those



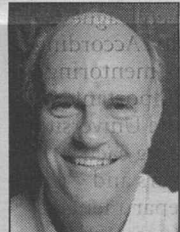
Conroy



Phillips-Conroy



Crouch



Hickman



Molleston

honorees and their awards were: Glenn C. Conroy, Ph.D., professor of anatomy and neurobiology, Class of 2002 Coursemaster of the Year; Jane E. Phillips-Conroy, Ph.D., professor of anatomy and neurobiology, Class of 2002 Professor of the Year; Jean P. Molleston, M.D., assistant professor of pediatrics, Class of 2001 and Class of 2002 Lecturer of the Year; Erika C. Crouch, M.D., Ph.D., professor of pathology, Class of 2001 Coursemaster of the Year; and Scot G. Hickman, M.D., associate professor of medicine, Class of 2001 Professor of the Year.

Conroy, who joined Washington University in 1983, also is a professor of anthropology. In addition to this year's Coursemaster of the Year Award, he has received

eight Distinguished Service Teaching Awards since 1990. His first-year anatomy course was heralded for its exceptional lectures and dissection lab.

After graduating from the University of California-Berkeley, Conroy completed a master's degree and a Ph.D. in biological anthropology at Yale University. He then served as an assistant professor at New York University Medical School and as associate professor and assistant dean of Brown University's Division of Biology and Medicine before joining the faculty here.

Phillips-Conroy also joined the faculty in 1983. In addition to her position in the anatomy and neurobiology department, Phillips-Conroy is an associate professor of anthropology at the University and a research scientist at Addis Ababa University in Ethiopia. At the School of Medicine, she has won seven Distinguished Service Teaching Awards. This is the second consecutive year she has been voted Professor of the Year for her work as lecturer and small-group instructor in the first-year anatomy course. She was recognized for her attention to detail in the dissection lab and for presenting her anthropological research at a special student-sponsored lecture.

Before coming to the University, Phillips-Conroy taught at the medical schools of Harvard University, New York University and Brown University. She received a bachelor's degree from Brandeis University and completed a master's degree and Ph.D. at New York University.

Crouch, who has been named Coursemaster of the Year two years in a row, came to the University in 1983. She has won numerous Distinguished Service Teaching Awards since 1992. Coursemaster of the pathology course, Crouch is praised for a consistently organized and well-taught course. She also has provided students with on-line resources for learning.

After completing medical and research training at the University of Washington in Seattle, Crouch trained as a fellow in pulmonary pathology at the University of British Columbia.

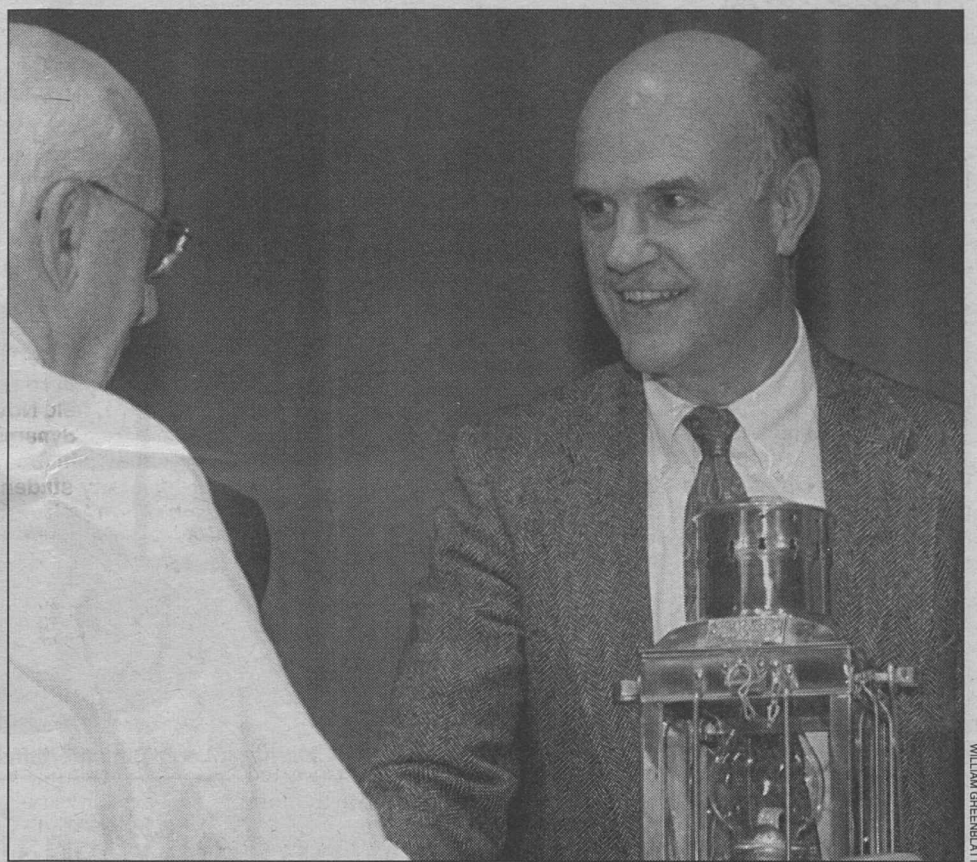
Hickman, currently chief of hematology and oncology at the Veterans Administration Hospital, became a member of the faculty in 1977. In addition to receiving two

Distinguished Service Teaching Awards and five Professor of the Year awards, he received a University-wide Distinguished Faculty Award in 1998. Coursemaster of the hematology/oncology course, Hickman is known for his communication skills and the interest he takes in students.

After completing an undergraduate degree at Duke University, he received a medical degree and completed a residency at Washington University. He then trained for two years at the National Institutes of Health before returning to Barnes Hospital for a fellowship in hematology/oncology.

Molleston, who recently accepted a teaching position at Indiana University Medical School, joined the School of Medicine faculty in 1991. She has won numerous teaching awards during her tenure at the medical school and is being honored for her vivid lectures and enthusiastic teaching in both first- and second-year courses.

Before joining the faculty, Molleston received bachelor's and medical degrees from Washington University and trained in pediatrics and gastroenterology at St. Louis Children's Hospital. At the medical school, she served as medical director of the Pediatric Liver and Small Intestine Transplant Program. Molleston also started the Pediatrics Liver Support Group for families of



William A. Peck, M.D. (left), executive vice chancellor for medical affairs and dean of the School of Medicine, congratulates Scot G. Hickman, M.D., on his Class of 2001 Professor of the Year Award. This year's teaching awards ceremony was held Nov. 10 in the Eric P. Newman Education Center.

children with chronic liver disease.

The first- and second-year classes each also recognized 10 professors with Distinguished Service Teaching Awards. The recipients from the Class of 2002 were: Dana R. Abendschein, Ph.D.; John P. Atkinson, M.D.; Mokhtar Gado, M.D.; David A. Lieb, Ph.D.; David N. Menton, Ph.D.; Robert W. Mercer, Ph.D.; Stanley Mislser, M.D., Ph.D.; Jay E. Piccirillo, M.D.; David C. Van Essen, Ph.D.; and Robert S. Wilkinson, Ph.D.

The recipients from the Class of 2001 were: William E. Clutter, M.D.; Rosa M. Davila, M.D.; Leslie E. Kahl, M.D.; Yoon Kang, M.D.; Patrick R. Murray, Ph.D.; Arie Perry, M.D.; Jeffrey E. Saffitz, M.D., Ph.D.; Clay F. Semenkovich, M.D.; Paul E. Swanson, M.D.; and David W. Windus, M.D.

For the first time at the medical

school, the third-year class honored 10 clinical professors with Clinical Teacher of the Year Awards and 10 residents with Resident of the Year Awards. Recipients of the Class of 2000's Clinical Teacher of the Year Awards were: Michael L. Brunt, M.D.; William E. Clutter, M.D.; F. Sessions Cole, M.D.; Thomas M. De Fer, M.D.; Gerard M. Doherty, M.D.; Jonathan D. Gitlin, M.D.; Susan E. Mackinnon, M.D.; Jean P. Molleston, M.D.; Thomas E. Read, M.D.; and Yoel Sadovskiy, M.D.

Recipients of the Resident of the Year awards from the Class of 2000 were: Eric Choi, M.D.; Hasan Guven, M.D.; Yasmeen Kareem, M.D.; Todd Levine, M.D.; Jody Lin, M.D.; Steven Liu, M.D.; Nicole Makram, M.D.; Mark Mazzioti, M.D.; Huyen Pham, M.D.; and Catherine Todd, M.D.

Cynthia Kenyon to deliver third annual Kipnis lecture

The third annual David M. Kipnis Lecture will be held at 4 p.m. Dec. 2 in Cori Auditorium, 4565 McKinley Ave. Cynthia J. Kenyon, Ph.D., professor of biochemistry and biophysics at the University of California at San Francisco (UCSF), will be the speaker.

Kenyon will discuss "Genes and Cells That Regulate the Aging of *C. elegans*."

She has made major contributions to several areas of developmental biology. Her pioneering work on the nematode *Caenorhabditis elegans* has helped elucidate the roles of homeobox genes, which control tissue identity along the anterior/posterior axis. This has led to important insights into the mechanisms that direct migrating cells as they navigate through the animal. In a series of recent studies, Kenyon has used *C. elegans* to identify a number of crucial genes that regulate the aging process.

Kenyon has received numerous

awards, including selection as a member of the American Academy of Arts and Sciences. She currently is the Herbert Boyer Distinguished Professor at UCSF.

The annual Kipnis lecture was established by the Department of Molecular Biology and Pharmacology to honor David M. Kipnis, M.D., Distinguished University Professor of Medicine and chair of the Department of Internal Medicine from 1972 to 1992.

Kipnis lecturers are to be researchers whose work on basic questions related to the control of cell growth, differentiation and communication has important implications for understanding the origins of human disease.

Kipnis is known internationally for his pioneering research on diabetes. He has received numerous awards, including election to the National Academy of Sciences, the George M. Kober Medal from the Association of American Physicians and the Ernest Oppenheimer Award from the Endocrine Society.

Growth factor reverses nerve damage in diabetic animals

By BARBRA RODRIGUEZ

A recent study reveals that long-term nerve damage in rats with diabetes can be reversed by treatment with an insulin-like protein. Because the damage mimics some of what's seen in people with diabetes, the results suggest that the protein could one day be used to prevent certain nerve complications of the disease.

"You may be able to prevent some diabetic nerve complications, even in people who don't control their diabetes well," said Robert E. Schmidt, M.D., Ph.D., professor of pathology. He is lead author of an article about the study in this month's *American Journal of Pathology*.

As many as 60 percent of people with diabetes have some damage to the peripheral nervous system, which receives and sends messages to the hands, feet and other outlying sites in the body. Diabetic neuropathy also can occur in the sympathetic part of the autonomic nervous system, a specialized portion of the nervous system that controls involuntary reflexes. Such damage can produce complications such as irregularities in the control of blood pressure and bouts of diarrhea or

constipation.

Nerve cells and their branch-like extensions called axons are vulnerable to abnormally high levels of glucose in the bloodstream that occur during diabetes. In the sympathetic nervous system, the outermost tips of axons swell into door-knob-like structures as a result. These nerve endings allow nerve cells to communicate with each other, and the swelling impedes this process.

Schmidt studied the effect of an insulin-like growth factor called IGF-I on diabetic rats. His group examined the animals' sympathetic nervous tissue and determined that the neuropathy mimicked that seen in humans. "The parallels in the pathologic findings in diabetic humans and rats were so strong that we thought that similar processes were at work in rats' nerve cells as in humans with diabetes," Schmidt said.

After the rats had been diabetic for six months — enough time for nerve damage to occur — the researchers gave some of them daily injections of IGF-I for two months. Compared with untreated counterparts, these rats had 80 percent fewer swollen nerve endings in the sympathetic nervous system. And the swelling tended to be less

pronounced than in the untreated rats.

Schmidt is quick to note that swelling of nerve endings still occurs to a limited extent in rats treated with IGF-I. But he also has found that healthy rats develop the swellings in small numbers as they age. "A simplistic view is that diabetes might accelerate the aging of sympathetic nerve cells," he said.

He and his colleagues will evaluate the cellular changes occurring in diabetic rats to determine how the swelling occurs. They also will try to determine how IGF-I injections ameliorate the damage.

The growth factor doesn't stop diabetes in its tracks because treated animals are unable to control their blood-glucose levels. IGF-I treatment might instead compensate for the loss of a factor that keeps nerve cells healthy, or it might be a nourishing agent itself. "We have a sense of the potential relevance of the growth factor," Schmidt said. "Now we have to figure out how it works."

Researchers elsewhere are evaluating IGF-I in clinical trials on people with neurodegenerative diseases such as amyotrophic lateral sclerosis, or Lou Gehrig's disease.

University Events

Toy piano virtuoso offers family-friendly 'Ode to Schroeder'

By LIAM OTTEN

Margaret Leng Tan, the greatest virtuoso of toy piano since Schroeder of "Peanuts" fame, will bring her unique, "seriously fun" sound to Edison Theatre for a special one-night-only family performance Dec. 3. The concert, titled "Ode to Schroeder: The Art of the Toy Piano," begins at 8 p.m.

Tan first discovered toy piano — which dates back to 19th-century Germany, where it was intended for poor children who could not afford full-sized pianos — in 1993, making her debut with the instrument at the Lincoln Center in New York's "Serious Fun" festival. Since then, her repertoire of charming, if unexpected, instruments has grown to include a teapot, a soy sauce dish, a toy accordion and a trio of exceptionally well-tuned

tunafish cans.

Tan, a native of Singapore now based in New York, is a classically trained pianist and the first woman to graduate with a doctorate in music from the Juilliard School. Called "the diva of the avant-garde" by The New Yorker magazine, she is known for a highly individual style that fuses music, choreography, theater and performance art.

Tan's current repertoire ranges from Beethoven's "Moonlight Sonata" to the Beatles' "Eleanor Rigby" to Twining's "Satie Blues," a piece written especially for toy piano. She also is considered one

of the foremost exponents of composer John Cage's work, which she has performed throughout North America, Europe and Asia and for the Public



Margaret Leng Tan entertains on toy piano.

Broadcasting System. In 1994 she recorded "Daughters of the Lonesome Isle," regarded by many critics as the definitive recording of Cage's music.

Tan's latest album, "The Art of the Toy Piano," appeared on many 1997 top 10 lists and became one of the best-selling classical crossover albums of 1998.

Tan is a recipient of the National Endowment for the Arts' Solo Recitalist Award. She has performed as a soloist with the New York Philharmonic, the Brooklyn Philharmonic, the American Composers Orchestra and the Stuttgarter

Kammerorchester, among other orchestras.

Her work has been featured in numerous major media outlets, including Newsweek, USA Today, CNN, CBS Evening

'Ode to Schroeder: The Art of the Toy Piano'

Who Margaret Leng Tan

Where Edison Theatre

When 8 p.m. Dec. 3

Tickets \$25, \$12 for children

News and National Public Radio's "All Things Considered."

Tickets are \$25, \$12 for children, and are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. Call for additional discounts. For more information, call 935-6543. The show is best for children 10 and older.

The performance is sponsored by Edison Theatre's OVATIONS! Series with support from the Missouri Arts Council and the Regional Arts Commission.

'Smoke Signals' • Community Change • Wavelets • Ethiopian Baboons

"University Events" lists a portion of the activities taking place at Washington University Nov. 18-Dec. 4. For a full listing of medical rounds and conferences, see the School of Medicine's Web site at medschool.wustl.edu/events/. For an expanded Hilltop Campus calendar, go to www.wustl.edu/thisweek/thisweek.html.

Exhibitions

"Coins from St. Louis Collections." Through Dec. 12. Gallery of Art. 935-4523.

"Egyptian Mummies: Pet Menekh and Henut-Wedjebu." Through Dec. 12. Gallery of Art. 935-4523.

"Joint Faculty Exhibition: School of Art, School of Architecture, Dept. of Art History and Archaeology." Through Dec. 8. Gallery of Art. 935-4523.

"The Ghost of Art: Photographs by William H. Gass." Through Dec. 5. Gallery of Art. 935-4523.

"Wolfgang and Ludwig — As Heard by Their Friends." Featuring first and early printed editions of music by Mozart and Beethoven. Through Jan. 7. Fifth floor, Olin Library. 935-5495.

Film

Thursday, Nov. 18

7 p.m. Filmboard Feature Series. "Smoke Signals." (Also Nov. 19, 20 and 21, same time, and 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

7:30 p.m. Modern Art on Film.

Tom Gunning, prof. of art history, U. of Chicago, will introduce four short films: "Le Melomane," "Ballet Mécanique," "Ghosts Before Breakfast" and "Meshes of the Afternoon." Gallery of Art. 935-4523.

Friday, Nov. 19

Midnight. Filmboard Midnight Series. "The Rocky Horror Picture Show." (Also Nov. 20, same time.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Wednesday, Dec. 1

6 p.m. Japanese Film Series. "Rhapsody in August" (English subtitles). Room 219 S. Ridgley Hall. 935-5156.

7 and 9 p.m. Filmboard Foreign & Classic Series. "The Andromeda Strain." (Also Dec. 2, same times.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Friday, Dec. 3

7:30 p.m. Modern Art on Film. Donald Crafton, chair of film, television and theatre dept., Notre Dame University, will introduce three short films: "Manhatta," "Retour à la Raison" and "L'Age d'Or." Gallery of Art. 935-4523.

Lectures

Thursday, Nov. 18

8 a.m. Bioorganic chemistry seminar. "Signal Transduction Performed by Artificial

Cell-Surface Receptors." Jun-Ichi Kikuchi, Nara Inst. of Science and Technology. Room 3907 South Bldg. 362-3363.

Noon. Genetics dept.'s Shreffler Memorial Lecture. "Revisionist Immunogenetics: Fishing for Genes of Immunological Interest." John J. Monaco, Howard Hughes Medical Institute, dept. of molecular genetics, U. of Cincinnati. Cori Aud., 4565 McKinley Ave. 362-7072.

1:10 p.m. Social Work Lecture Series.

"Power, Politics and Community Change." Ernesto Cortes, dir., Texas Industrial Areas Foundation. Brown Hall Lounge. 935-4909.

2:30 p.m. Ophthalmology & Visual Sciences Visiting Professor Series.

"Clinical Optics—Problems in Refraction" and "Understanding Corneal Topography." Michael W. Belin, U. of Ottawa. Room 712 McMillan Hospital Bldg. 362-3740.

3 p.m. Center for Mental Health Services Research Seminar Series.

"Are Efforts to Improve System Integration Effective? Evidence from the ACCESS Program for Homeless Persons With a Serious Mental Illness." Joseph P. Morrissey, prof. and deputy dir., Cecil G. Sheps Center for Health Services Research, U. of N.C.—Chapel Hill. Brown Hall Lounge. 935-5687.

4 p.m. Cardiovascular research seminar.

"Regulation of Glucose Utilization in the Ischemic Heart." Raymond Russell, Yale U. School of Medicine. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. Chemistry seminar.

"Lithium-intercalated Carbons for Battery Applications: An

NMR Study of Structure and Electronic Properties." Sophia Hayes, research assoc., U. of Calif.—Berkeley. Room 311 McMillan Lab. 935-7316.

4 p.m. Earth and planetary sciences colloquium.

"Structures and Geochemistry of Seismogenic Faults at 2 to 5 Kilometers Depth." David L. Kirschner, asst. prof. of earth and atmospheric sciences, St. Louis U. Room 361 McDonnell Hall. 935-5610.

4 p.m. English dept. lecture.

"Walt Whitman's Answer to the Osage Crisis." Robert Warrior, Stanford U. Hurst Lounge, Room 201 Duncker Hall. 935-5190.

4:15 p.m. Philosophy colloquium.

"Who Will Participate in the Overlapping Consensus?" Willem Bakker II, philosophy graduate student. Room 216 Psychology Bldg. 935-6670.

4:30 p.m. Mathematics colloquium.

"Weak Type Interpolation and Sobolev Embedding Theorems." Michael Cwikel, prof. of mathematics, The Technion, Israel, and Princeton U. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series.

"Glaucoma: Designer Genes?" Douglas H. Johnson, prof. of ophthalmology, Mayo Medical School, Minn. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

Friday, Nov. 19

9:15 a.m. Pediatric Grand Rounds.

"Two Rights Do Make a Wrong: Clinical and Biological Aspects of Asymmetry." Brian P. Hackett, asst. prof. of pediatrics, fellowship dir., div. of newborn medicine. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. — noon. Center for Mental Health Services Research Seminar Series.

"Generating Costing Data From Service Records." Donald Anderson and Matthew Farrelly, economists, Research Triangle Inst. Room 39 Goldfarb Hall. 935-5687.

Noon. Cardiovascular research seminar.

"Vascular Endothelial Responses to Estrogen and Neuregulin." Kerry Strong Russell, Yale U. School of Medicine. Room 801 Clinical Sciences Research Bldg. (North Tower). 362-8901.

Noon. Cell biology and physiology lecture.

"Assembling CNS Synaptic Junctions." Craig C. Garner, assoc. prof. of cell biology, U. of Ala.—Birmingham. Room 426 McDonnell Medical Sciences Bldg. 747-4233.

Noon. Friday Forum Luncheon Lecture Series.

"Coins from St. Louis Collections" and "Egyptian Mummies." Sarantis Symeonoglou, prof. of art history and archaeology. Cost: \$15, includes lunch. Gallery of Art. To register, call 935-5490.

3:30 p.m. Institute of Medicine — Missouri regional symposium lecture.

"The Future of Biotechnology: The World and the Midwest." Philip Needleman, chief scientist, Monsanto Co., and co-president, Searle; Roger Beachy, prof. of biology and pres., Donald Danforth Plant Science Center; and Robert Waterston, the James S. McDonnell Prof. of Genetics and dir., Genome

Sequencing Center. Eric P. Newman Education Center (reception 5:30 p.m.). 935-9850.

3:30 p.m. Mathematics show-me seminar.

"An Abstract Harmonic Analysis Picture of Wavelets and Multiresolution Analyses." Larry Baggett, prof. of mathematics, U. of Colo. Room 199 Cupples I Hall (refreshments 4:30 p.m., Room 200). 5 p.m. — "A Unified Approach to Real, Complex and Other Interpolation Methods." Michael Cwikel, prof. of mathematics, The Technion, Israel, and Princeton U. Room 199 (dinner 6 p.m., Women's Bldg. Lounge). 935-6726.

4 p.m. Anatomy and neurobiology seminar.

"More Different Than We Thought: Long-term, Multidisciplinary Studies of the Ethiopian Baboon Hybrid Zone." Jane Phillips-Conroy, assoc. prof. of anatomy and neurobiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4:30 p.m. Hematology dept.'s Annual Carl Vernon Moore Memorial Lecture.

"Molecular and Cellular Mechanisms of Cardiac Arrhythmias." Mark T. Keating, prof. of medicine and human genetics, U. of Utah — Salt Lake City, and investigator, Howard Hughes Medical Institute. Moore Aud., 660 S. Euclid Ave. 362-8801.

7:30 p.m. Earth and planetary sciences lecture.

"Pluto and Triton: Present and Former Members of the Kuiper Belt." William B. McKinnon, prof. of earth and planetary sciences and fellow, McDonnell Center for the Space Sciences. Co-sponsored by NASA Missouri Space Grant Consortium. Room 162, McDonnell Hall. 935-4614.

Saturday, Nov. 20

9 a.m. Neuroscience Seminar Series.

"A Precise and Well Defined Role for the Cerebellum in the Control of Eye Movements." Steve Highstein, prof. of otolaryngology and of anatomy and neurobiology. Cori Aud., 4565 McKinley Ave. 362-7043.

Monday, Nov. 22

10 a.m. Center for Mental Health Services Research Seminar Series.

"NIH Requirements for Child Subjects." Enola Proctor, the Frank J. Bruno Prof. of Social Work, and Christine Nolan, grant development coordinator. Room 38 Goldfarb Hall. 935-5687.

Noon — 1 p.m. Molecular biology and pharmacology seminar.

"Diabetic Yeasts: Glucose Sensing and Signaling in a Simple Eukaryotic Cell." Mark Johnston, prof. of genetics. Room 3907 South Bldg. 362-2725.

4 p.m. Biology seminar.

"Crystal Structure, Activation and Possible Function of Phytase and Related Aspartic Proteinases in Plants." Jukka Kervinen, Inst. for Cancer Research/Fox Chase Cancer Center, Pa. Room 322 Rebstock Hall. 935-7186.

4 p.m. Mathematics colloquium.

"On the Notion of Absolutely Bounded Mean Oscillation and Applications." Pascal Auscher, prof. of mathematics, Université de Picardie — Jules Verne,

Two renowned artists lecturing in December

wo internationally renowned installation artists will discuss their work in a pair of lectures at the Gallery of Art in December.

Fred Wilson, a 1999 MacArthur Fellow, will speak for the School of Art Lecture Series at 7:30 p.m. Dec. 1. Eleanor Antin, a performance artist and filmmaker, will speak for the University's Visual Arts and Design Center at 7:30 p.m. Dec. 2. A full-scale exhibition of Antin's work is scheduled to open at the Gallery of Art in September 2000.

Wilson's work explores the nature of museums by rearranging displays in order to highlight hidden or neglected possibilities and to address social, political and cultural themes. In "Mining the Museum," his famous 1993 exhibition at The Maryland Historical Society in Baltimore, Wilson juxtaposed artifacts and artworks to underscore the marginalized history of African

Americans. "Metalwork 1793-1880," for instance, consisted of a group of silver goblets and decanters surrounded by a pair of rusted iron slave shackles. For a display of bourgeois family portraits, Wilson reset the museum's spotlights so that the viewer's gaze became focused on the servants and slaves standing to the side of the familial groups.

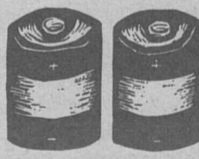
Antin is a highly influential southern California artist whose use of autobiography, innovative narrative forms and fictive personae played a formative role in the development of performance and feminist art. She began making performance and video work in the early 1970s as part of the conceptual art movement. Her groundbreaking installation "100 Boots" (1971-73), in which she documented 50 pairs of boots in various world locales through a series of picture postcards, was exhibited in a one-woman show at

the Museum of Modern Art, New York, in 1973. Early video pieces such as "Portrait of the King" (1972) and "The Adventures of a Nurse" (1976) prefigure the gender and identity inquiries of later artists.

Wilson has designed major installations for such institutions as the Seattle Art Museum; the Indianapolis Museum of Art; the Museum of Contemporary Art, Chicago; and the archive of the American Jewish Joint Distribution Committee.

Antin's work has been seen at major festivals and institutions around the world, including the Sao Paulo Biennale; the Venice Biennale; The Whitney Museum of American Art, New York; The Jewish Museum, New York; the Museum of Contemporary Art, Chicago; and the Museum of Contemporary Art, Los Angeles.

Both lectures are free and open to the public. For more information, call 935-4523.



France, Room 199 Cupples I Hall (tea 3:30 p.m., Room 200). 935-6726.

Tuesday, Nov. 23

Noon - 1 p.m. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Studying Host-Pathogen Interaction During Leishmania Infection Using a Proteomic Approach." Michael Dejardins, assoc. prof. of pathology and cellular biology, Université de Montréal. Cori Aud., 4565 McKinley Ave. 747-2630.

Monday, Nov. 29

10 a.m. Center for Mental Health Services Research Seminar Series. "Overview of NIH Report: Bridging Science and Service." Enola Proctor, the Frank J. Bruno Prof. of Social Work. Room 38 Goldfarb Hall. 935-5687.

Noon - 1 p.m. Molecular biology and pharmacology seminar. "Intercellular Signalling and Synaptogenesis at the Neuromuscular Junction." Josh Sanes, prof. of anatomy and neurobiology. Room 3907, South Bldg. 362-2725.

4 p.m. Biology seminar. "Phospholipase Mediated Hormone Signaling in Barley and Bean." Simon Gilroy, biology dept., Penn. State U. Room 322 Rebstock Hall. 935-6860.

4 p.m. Immunology Research Seminar Series. "Molecular Mechanisms of Inflammatory Osteolysis." Steven Teitelbaum, the Wilma and Roswell Messing Prof. of Pathology. Eric P. Newman Education Center. 362-2763.

4 p.m. Physics seminar. "The Design and Development of Biomaterials for Use in Humans." Delbert E. Day, prof. of ceramic engineering and of graduate center for materials research, U. of Mo. - Rolla. Room 241 Compton Hall (coffee 3:45 p.m.). 935-6276.

Tuesday, Nov. 30

Noon - 1 p.m. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Adherence and Invasiveness of *Candida albicans*." Paula Sundstrom, assoc. prof. of medical microbiology and immunology, Ohio State U. Cori Aud., 4565 McKinley Ave. 362-2742.

12:10 - 12:55 p.m. Physical therapy research seminar. "Cerebellar Damage Impairs Timing of Combined Reach and Grasp Movements." Kathy Zachowski, doctoral candidate in movement sciences program. Classroom C, 4444 Forest Park Bldg, 286-1400.

4 p.m. Chemistry seminar. "Molecular Motors and the Forces They Exert." Anatoly Kolomeisky, research assoc., U. of Maryland. Room 311 McMillen Lab. 935-7316.



Wednesday, Dec. 1

7:30 p.m. School of Art slide lecture. Fred Wilson, installation artist. Steinberg Hall Aud. 935-5884. See story on page 4.

Thursday, Dec. 2

1:10 p.m. Social Work Lecture Series. "The Mentor Connection: Developing the 'New' Leader." Connie Vance, dean and prof. of nursing, College of New Rochelle, N.Y. Brown Hall Lounge. 935-4909.

4 p.m. Chemistry Seminar. "Uncovering the Secrets of a Perfect Interface: Infrared Spectroscopy of SiO₂ on Silicon." Kate Queeney, research assoc., Bell Laboratories, Lucent Technologies. Room 311 McMillen Lab. 935-7316.

PAD closes millennium with Beckett's 'Endgame'

By LIAM OTTEN

Bare interior, gray light. A door, a wall, a picture, a chair. Three characters trapped in immobility, a fourth trapped in movement. Sound familiar?

Next month the Performing Arts Department (PAD) in Arts & Sciences will close out the millennium with Samuel Beckett's classic work of modernist austerity, "Endgame."

Performances begin at 8 p.m. Dec. 2, 3 and 4, with matinee performances at 3 p.m. Dec. 4 and 5. Performances take place in the A.E. Hotchner Studio Theatre, Room 208 Mallinckrodt Center.

Beckett's second full-length play, "Endgame" debuted in 1957 and was considered by its author to be his finest dramatic work. The story, such as it is, follows the personal dynamics among four characters — Hamm, the blind tyrant; his parents, the elderly Nagg and Nell, who live in a pair of trashcans, and Hamm's much put-upon servant, Clov. Like the author's "Waiting for Godot," "Endgame" is set in an anonymous, rather bleak and vaguely mythic nowhere that seems to represent the limbo between life

and death.

"You can't really reduce 'Endgame' to a plot synopsis," said director Andrea Urice, PAD artist in residence. "It's more like a climate — bleak and dark but laced with Beckett's sensibility, his rhythms and wonderful humor."

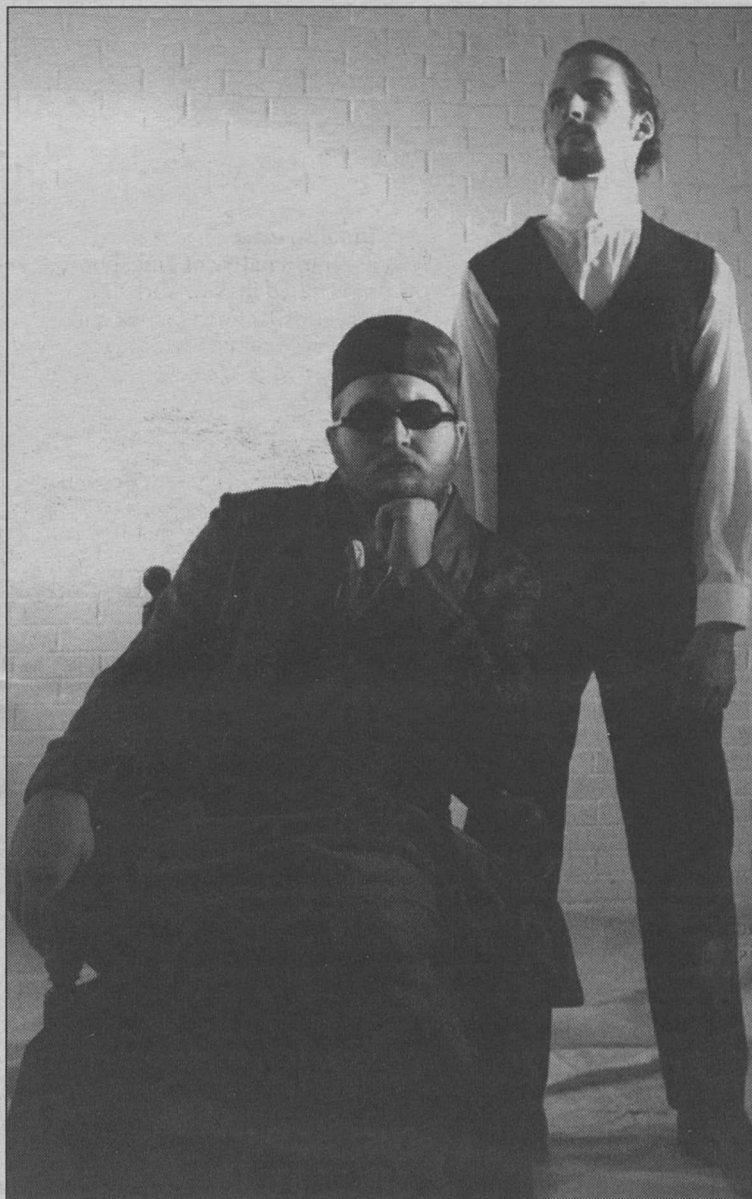
Urice, who previously has directed several of Beckett's short works, said that she chose "Endgame" partly in recognition of the coming millennium.

"I think there's something interesting about performing 'Endgame' in December of 1999," she explained. "Beckett was one of the most important, influential playwrights of the 20th century, and I think it's appropriate to explore him again now, before we go into the next millennium."

Tickets are \$10 for the general public, \$8 for senior citizens and Washington University faculty, staff and students. Tickets are available at the Edison Theatre Box Office, 935-6543, and through all MetroTix outlets, 534-1111. For more information, call 935-6543.

'Endgame'

Where A.E. Hotchner Studio Theatre
When 8 p.m. Dec. 2, 3, 4; 3 p.m. Dec. 4, 5
Tickets \$10, \$8 for WU faculty, staff and students



Senior Justin Sund as Hamm and junior John Spernoga as Clov star in the Performing Arts Department's December production of Samuel Beckett's modern classic "Endgame" in the A. E. Hotchner Studio Theatre.

Music

4 p.m. Molecular biology and pharmacology's Annual David M. Kipnis Lecture. "Genes and Cells That Regulate the Aging of *C. Elegans*." Cynthia J. Kenyon, prof. of biochemistry and biophysics, U. of Calif. at San Francisco. Cori Aud., 4565 McKinley Ave. 362-0269. See story on page 3.

4:30 p.m. Mathematics colloquium. John Sullivan, prof. of mathematics, U. of Illinois - Urbana-Champaign. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

7:30 p.m. Visual Arts and Design Center slide lecture. Eleanor Antin, performance artist and filmmaker. Steinberg Hall Aud. 935-4523. See story on page 4.

Friday, Dec. 3

4 p.m. Music lecture. "That Money-Making 'Moon River' Sound: Orchestration and Thematic Organization in the Film Music of Henry Mancini." Jeff Smith, asst. prof. of performing arts. Room 102 Music Classrooms Bldg. 935-4841.

6 and 8:30 p.m. Travel Lecture Series. "The Real World of Hawaii and Tahiti." Rick Howard. Cost: \$4.50. Graham Chapel. 935-5212.

Wednesday, Dec. 1
7:30 p.m. Jazz combos concert. Brown Hall Lounge. 935-4841.

Thursday, Nov. 18
8:30 p.m. Holmes Jazz Series! Mike Karpowicz Trio. Holmes Lounge, Ridgley Hall. 935-4841.

Sunday, Nov. 21
3 p.m. Wind ensemble concert. Music of Holst and Schumann. Dan Presgrave, dir. Graham Chapel. 935-4841.

7:30 p.m. Symphony orchestra concert. Music of Francis Poulenc, including "Concerto for Two Pianos." Dan Presgrave, dir., and Maryse and Seth Carlin, piano. Graham Chapel. 935-4841.

Monday, Nov. 22
8:30 p.m. Student recital. Music of Albeniz, Berg, Brahms, Dyen, Rachmaninoff, Schumann and Schwantner. Graham Chapel. 935-4841.

Saturday, Dec. 4
8 p.m. Chamber choir concert. Music of Dvořák, Barber and Block. John Stewart, dir. Graham Chapel. 935-4841.

Performances

Friday, Nov. 19
8 p.m. OVATIONS! Series performance. "Winged Feats." Toronto Dance Theatre, Christopher House, dir. (Also Nov. 20, same time, and Nov. 21, 2 p.m.) Cost: \$25; call for discounts. Edison Theatre. 935-6543.

Thursday, Dec. 2
8 p.m. Performing arts dept. play. "Endgame." (Also Dec. 3 and 4, same time, and Dec. 4 and 5, 3 p.m.)

Cost \$10, \$8 WU students, faculty and staff. A. E. Hotchner Studio Theatre. 935-5858.

Friday, Dec. 3
8 p.m. OVATIONS! Series performance. "Ode to Schroeder: The Art of the Toy Piano." Margaret Leng Tan, piano. Cost \$25; \$12 for children. Edison Theatre. 935-6543.

Sports

Saturday, Nov. 20
10 a.m. WU Thanksgiving Invitational. Swimming and diving. Millstone Pool. 935-5220.

Sunday, Nov. 21
5:30 p.m. WU Thanksgiving Invitational. Swimming and diving. Millstone Pool. 935-5220.

Sports Section

WU first

Football Bears earn NCAA playoff bid

For the first time in school history, the football team is in the playoffs. The Bears, who finished the season 8-2, learned Sunday they have been chosen for the 28-team NCAA Division III Football Championship. The team travels to Abilene, Texas, Saturday, Nov. 20, for a first-round game versus the Hardin-Simmons University Cowboys. The Bears won their first-ever outright University Athletic Association (UAA) championship this year, but, with only five teams, the UAA does not receive an automatic bid to the playoffs. The Cowboys average 37.5 points and 477.8 yards per game, but face one of the best defenses in the country.

Heading into the final week of the season, Washington U.'s defense ranked No. 2 in total defense (192.1 yards per game) and No. 3 vs. the rush (49.8 ypg). The Bears, who posted the second-best record in school history, set three UAA defensive records in 1999.

Soccer Bears fall in regional semis

The men's soccer team tied Salisbury State University 2-2 Saturday, Nov. 13, at the NCAA Division III South Regional at Norfolk, Va., but the Sea Gulls advanced to the regional championship with a 2-1 advantage over the Bears in the penalty kick tiebreaker. Evan Keith and Ian Klaus scored for Washington U., which held a 2-1 lead until SSU scored with 3:49 left in the game. The Bears ended their season with a 14-4-2 record. Earlier, in first-round action Nov. 10, senior striker Greg Rheinheimer headed

home a corner kick at 72:41 for the lone goal of the game as the Bears defeated visiting Webster University 1-0 at Francis Field.

Volleyball team loses at Central College

The volleyball team saw its 1999 season come to an end with a 15-6, 15-12, 15-6 loss to defending NCAA champion Central College in the NCAA Tournament Central Regional Championship Saturday, Nov. 13, in Pella, Iowa. The Bears defeated Westminster College, 15-5, 15-5, 8-15, 15-8 in the first round before knocking off the University of Wisconsin-River Falls, 15-6, 15-11, 15-11, in the regional semifinals.

Julien earns NCAA championship spot

Senior Tim Julien earned his third trip to the NCAA Cross Country Championships after finishing

third at the NCAA Division III Midwest Regional Cross Country Championships in Oshkosh, Wis. He will chase All-America honors for the second straight season at the NCAA championships Saturday, Nov. 20 in Oshkosh. The men finished ninth as a team in the 28-team field. Julien posted a time of 25 minutes, 9 seconds on the 8K course, finishing just 16 seconds out of first. The women finished in 14th place in the 31-team field.

Tankers victorious over Xavier Nov. 12

The men's swimming and diving team improved to 5-1 on the year, and the women picked up their second dual meet win of the season as both teams defeated Xavier University Friday, Nov. 12, at Millstone Pool. The men, who won 159-46, were led by junior Alex Helfers,

who recorded wins in the 50 freestyle (22.09 seconds) and the 100 free (49.00) and anchored the 200 free relay to a victory, and sophomore Matt Greives, who won the 200 individual medley (2 minutes, 1.56 seconds), the 200 breast (2:18.32) and the 200 medley relay. Freshman Victor Acevedo picked up wins in the 500 (5:00.84) and 1000 free (10:24.87); sophomore Paul Gregor won the 200 free (1:49.64); freshman Joel Ristuccia captured the 200 butterfly (2:06.18) and sophomore David Ullman won the 200 backstroke (2:03.67). Sophomore Lindsay Wilkinson paced the women to their 113-89 victory with wins in the 50 free (24.78), 100 free (54.63) and 200 medley relay, while Laura Binger won the 1000 free (11:14.31), Elisa Annelin won the 200 individual medley (2:16.71) and Laurel Jacobson won the 200 back (2:17.95).



Hewlett Program students conduct hydrology and soil tests atop Mauna Kea in Hawaii in August as part of their research for senior honors theses. Research in Hawaii will be a key part of the Pathfinder Program also.

Pathfinder

Students work together throughout four years

— from page 1

The freshman and senior years put heavy emphases on Pathfinder activities; the sophomore and junior years will focus primarily on the student's major.

The motivation behind the Pathfinder curriculum is to enhance undergraduate education by making it more interdisciplinary, inquiry- and research-based. It seeks as well to make University technology and personnel more accessible, Arvidson said.

"There is a concern today that undergraduates get a rather narrow education that doesn't always link them to real-world problems or expose them to 'hands-on' technology," Arvidson said. "Pathfinder provides students hands-on access to state-of-the-art remote sensing, geographic information systems and computer modeling, previous research studies for topics, and field work. It builds on a strong freshman

foundation through four years, and the clustered coursework approach includes science, ethics, literature and policy courses. It also will foster strong relationships between graduate fellows and undergraduate students, and this will enhance teacher training of graduate students."

The prototype for the capstone experience is being played out this semester with a group of eight Hewlett Program students working on their senior honors theses, which feature data from an August trip to Hawaii with Arvidson and Julie Morris, Ph.D., research associate professor of earth and planetary sciences. The group collected water, ice, rock and ash samples in a wide-ranging effort to determine the environmental sustainability of the Mauna Kea Science Reserve and the Mauna Kea Ice Age Natural Area Reserve.

Mauna Kea is a 13,000-foot mountain with a Mars-like topography at its peaks. Arvidson, who is deputy principal investigator for the National Aeronautics and Space Administration's Mars Rover Sample Return Mission in

2003, has used this site as a test base for Mars mission rover and sampling experiments.

Some of the students focused on developing and testing a hydrogeologic model for the mountain's drainage areas. They used cutting-edge NASA imaging technology to produce a Geographic Information System (GIS) data base, combining NASA Landsat satellite images and other data sets with topographic information. The GIS data is what the students are using in their theses to model and analyze the Mauna Kea environment.

Other students are analyzing the effects of agricultural development on the lower slopes of the mountain and the feasibility of "smart growth" guidelines for development.

"The theses will provide a suite of information about Mauna Kea and should be worthy of journal publication," Arvidson said. "We're excited that Pathfinder will advance the activities that were fostered through the Focus and Hewlett programs. We think we have an outstanding model for innovative undergraduate education. And we're anxious to see our pool of applicants for the first Pathfinder class."

Health, child-care flex plan deadline Nov. 30

By CHRISTINE FARMER

Faculty and staff wanting to save money on their out-of-pocket health- and/or child-care expenses can enroll through Nov. 30 in the University's Flex Spending Plans.

The plans allow employees to avoid paying federal, state and social security taxes on money specifically set aside from their paychecks in the spending accounts. The annual limit is \$3,000 for the health-care spending plan and \$5,000 for the dependent child-care spending plan. Employees can enroll in either plan or both.

Those currently enrolled in the plans must re-enroll for the year 2000 by Nov. 30 as well.

Some health expenses are not covered by medical or dental insurance, but can be reimbursed from the pre-tax health-care spending account. Qualifying expenses include: office visit charges, co-payments, hearing aids, crutches, speech therapy, false teeth, non-covered prescriptions, orthopedic shoes, eyeglasses and contact lenses.

Child-care expenses that are necessary for employees to work or to pursue an education qualify for the child-care spending plan. The services can be provided by a licensed day-care center, pre-school or baby sitter.

"Our employees who are

enrolled in these plans enjoy a nice tax savings," said Tom Lauman, director of benefits. "For those in the 28 percent federal tax bracket, this may mean total savings of up to 40 percent."

There are important limitations and forfeiture rules to consider when enrolling in the plans. Once enrolled, employees are not allowed to change or terminate their contributions during that year unless there is a family status change.

"We encourage those interested to contact us at the benefits office with any questions," he said. "We also encourage employees to be very conservative and budget only for known or planned expenses for the next year to avoid the forfeiture of their remaining balance at the end of the year."

Those currently participating in the plans should expend their remaining balances for 1999 and submit receipts to avoid forfeiture, he added.

Enrollment forms are available at the human resources offices at the Medical and Hilltop campuses, and at the benefits office at West Campus. They also can be accessed at the human resources Web site: <http://aisweb.wustl.edu/hr/hrsystem.nsf>.

Forms must be returned to the benefits office, Campus Box 1190. Late applications will not be accepted. For more information, call 935-5907.

Teachers

Program apprentices young educators

— from page 1

"I've wanted to be a teacher since day one," she said. "But I thought there was something else I should be doing. But since I got into MSLABSE, it was like, okay, this is good, this is good."

That sentiment is shared by James Wertsch, Ph.D., professor and chair of the Department of Education in Arts & Sciences. Wertsch greeted the MSLABSE Scholars at the group's recent University Day and came away bedazzled.

"This is an extremely impressive group of students, who take their charge very seriously," Wertsch said. "They have fun, but they are committed to education and to social change."

A number of University education department faculty participated in the on-campus program, which began with a presentation in Simon Hall by Marilyn M. Cohn, Ph.D., director of teacher education. The scholars then broke into discussion groups, led by Assistant Professor Garrett A. Duncan, Ph.D., Adjunct Assistant Professor Donna Gardner, Ph.D., and Clinical Associate Phyllis Balcerzac, Ph.D. In addition, a contingent from the University's Association of Black Students (ABS) served as greeters and tour guides.

"As faculty, we like to think we're primarily responsible for students' education," Wertsch said. "But most students will tell you that being with other students is a powerful experience. It just blew the kids away to see this dynamic group of ABS students."

"It is important for our university to attract these young people as undergraduates and hopefully as graduate students some day," Wertsch said. "I think, for our own development, our university needs to continue its efforts to

become more diverse. A wider diversity of perspectives on the world will make our university a better place."

One of the ABS leaders, junior Erica De Cuir, agreed that it's important for prospective freshmen to see someone who looks somewhat similar. "It's a culture shock when they come to a campus such as this. When they see someone accepting and celebrating their culture, someone they can connect with, then it hits home a lot more."

"College is not so much just a place where you learn facts," De Cuir said. "College is where you learn about life. College is, basically, the classroom of the world. It's so important to have diversity because you can counter so many stereotypes."

Flossie Henderson said that the importance of the University's involvement in the Apprentice Teacher Project goes far beyond the nuts-and-bolts of a five-hour workshop.

"Many of the parents said they had driven by here all their lives and never, ever dreamed that they'd be inside," she said. "It's caused me to wonder. There are so many invisible walls that keep people away from their own dreams."

"Washington University lives — doesn't just 'have' — a social commitment," Henderson concluded. "They do, in our minds, really appreciate a diverse student body. They also embrace the same concern that we have about the shortage of teachers, African-American teachers in particular. So we share those things in common. Plus we genuinely like the kids!"

Wertsch said he hopes the project, which is in the third and final year of its original grant allotment, can be extended.

"They've managed to harness high school kids' time and energy and intelligence in a way that's developing for them — but also one that gives something further back to the community," he said. "Just being around that kind of energy and intelligence and youth was a real charge."

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Reading Specialist (part time) 980130

Medical Science Writer 980189

Director of Corporate Relations 990013

Senior Project Leader 990029

Assistant Dean and Academic Coordinator 990210

Manager 990233

Gift Accountant 990244

Technical Secretary 990245

Director/Executive Faculty Liaison 990280

Computer Support Specialist 990283

Administrative Secretary 990315

Administrative Secretary 990320

Senior Project Leader 990340

Administrative Assistant 990362

Engineering Librarian 990364

Investment Analyst 990369

Research Technician 000003

Counselor 000014

Admissions Counselor 000027

Systems Programmer I 000034

Support Services Assistant 000040

Senior Researcher 000046

Regional Director of Development 000057

Purchasing Coordinator for Furniture and Design 000060

Administrative Coordinator (part time) 000066

Public Service Coordinator 000077

Counselor 000080

Adviser to International Students (part time) 000086

Department Secretary 000088

Non-degree Program Administrator 000090

Administrative Secretary (part time) 000091

Assistant Dean and Academic Coordinator 000093

LAN Engineer 000094

Administrative Secretary 000096

Library Assistant 000099

Library Assistant 000100

Insurance Assistant (part time) 000101

Secretary/Technical Typist 000102

Assistant Director of EMBA Admissions 000103

Audio-visual Coordinator/Event Support (part time) 000105

Rare Books Curator 000107

Secretary 000109

Executive Assistant 000111

Media Center Director 000113

Secretary 000115

Head of Access 000116

Advertising Manager 000117

Assistant University Webmaster 000118

Student Records Coordinator 000119

Library Services Assistant, Art and Architecture 000120

Circulation Assistant 000121

Assistant Records Manager 000122

Legal Secretary (part time) 000123

Sr. Counselor, Student Financial Services 000124

Administrative Assistant (part time) 000125

Associate Director of

Development 000128

Payroll Services Representative 000129

Payroll Services Representative 000130

EMBA Student Services and Programs Coordinator (part time) 000131

Research Accounting Analyst 000133

Accounts Payable Representative Trainee 000134

Medical Campus

This is a partial list of positions at the School of Medicine.

Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Data Assistant 000643

Patient Services Representative 000736

Secretary III (West County) 000755

Secretary I 000801

Executive Secretary 000803

Coordinator, Protocol 000815

Campus Watch

The following incidents were reported to University Police from Nov. 8-14. 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 rescomp.wustl.edu/~wupd.

Nov. 9

3:52 p.m. — A student reported the theft of his 18-speed mountain bike from a rack on the north side of Anheuser-Busch Hall.

Nov. 14

Midnight — An unknown person discharged a fire extinguisher into two dorm rooms in Lee Residence Hall. The Emergency Support Team and maintenance personnel responded.

University Police also responded to six additional reports of vandalism, two additional reports of bike theft, three reports of theft, three reports of disturbances, two auto accidents, a threatening letter and an unsecured vending machine.

Notables

Baldez is Harbison Faculty Fellow

Lisa Baldez, Ph.D., assistant professor of political science in Arts & Sciences, has been named the Earle H. and Suzanne S. Harbison Faculty Fellow. The fellowship provides research and teaching support for three years to a talented junior faculty member in Arts & Sciences.

"I am delighted to name Lisa Baldez the second Harbison Fellow, in recognition of her accomplishments at this early stage of her career," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. "She already has made a substantial contribution to Arts & Sciences in the short time she has been a member of the faculty. Her students praise her knowledge and skill in the classroom, and her work has growing recognition in the field of political science. I look forward to great things from her in the years to come."

Baldez joined the faculty in 1997 after serving as a research associate in the political science department at the University of Rochester. She is a fellow at the University's Center in Political Economy and spent the summer of 1999 as a visiting scholar at the Weatherhead Center for International Affairs at Harvard University.

Her research examines the impact of political institutions on political mobilization and policy making, especially with regard to gender issues in Latin America.

In 1999, she and John Carey, Ph.D., assistant professor of political science, published "Presidential Agenda Control and Spending Policy: Lessons From General Pinochet's Constitution" in the *American Journal of Political Science*. Baldez has published several chapters in edited volumes and is currently working on a book, titled "Why Women Protest: Mobilizing for Change in Chile," which examines the conditions under which women organize on the basis of their identity as women.

Baldez participates in numerous professional organizations, including current roles as an executive board member of the Women and Politics division of the American Political Science Association and as chair of the

Gender and Politics section for the Midwest Political Science Association.

She teaches courses on gender and politics, Latin America and comparative politics in general. Her courses include "Gender and American Politics," "Gender Politics in Global Perspective" and "Revolution and Protest in Latin America." Earlier this year,



Baldez: Teaches gender and politics

she taught a course on democracy at the Catholic University in Chile as part of the Washington University in Chile Program. Her students have praised her knowledge and skill in the classroom, and she serves as a freshman adviser. She also serves on the faculty advisory board for the International Leadership Program, a new program for first-year students.

Baldez received a bachelor's degree (cum laude) in politics and Latin American studies from Princeton University in 1986. She earned a doctorate in political science from the University of California, San Diego, in 1997.

The faculty fellowship was established in 1995 by Earle H. Harbison, who graduated from Washington University in 1948 with a bachelor's degree in political science, and his wife, Suzanne Siegel Harbison, who earned a degree from the John M. Olin School of Business in 1949.

Earle Harbison is chairman of Harbison Corp. and past president and chief operating officer of Monsanto Co. He serves on the University's Board of Trustees and as chair of the Arts & Sciences National Council.

The Harbison Fellowship rotates every three years to an outstanding junior faculty member in Arts & Sciences; the first holder of the fellowship was Ingrid Monson, Ph.D., associate professor of music in Arts & Sciences.

Mary Ellen Benson named assistant vice chancellor

Mary Ellen Benson has been named assistant vice chancellor in addition to her current role as executive director of University publications in the Office of Public Affairs, according to M. Fredric Volkmann, vice chancellor for public affairs.

Benson oversees a 16-member staff of editors, graphic designers and production managers in publications and the Office of Undergraduate Admissions that produces more than 500 University print and electronic publications and periodicals annually.



Benson: Oversees 500 publications

With a focus on external audiences, the marketing-oriented program specializes in undergraduate student recruitment as well as alumni and development publications. The publications staff has received numerous awards over the years from national professional associations.

She also serves as executive editor of Washington University Magazine and Alumni News, and is chairing the Identity and Logotype Revision Advisory Committee, appointed by Chancellor Mark S. Wrighton.

"Mary Ellen brings both leadership and creative problem-solving to her role, and she and her staff are invaluable in helping the University put its name and message before the public," Volkmann said.

Benson joined the University in 1983 as a publications editor and was promoted to associate director of publications in 1985. Two years later, she was named director of publications and in 1990 was elevated to senior director. In 1996, she was named executive director of University publications. Prior to her arrival on the Hilltop Campus, Benson was the publications manager at the University of Puget Sound in Tacoma, Wash.

A 1967 magna cum laude graduate of Vassar College in Poughkeepsie, N.Y., Benson earned a bachelor's degree in English.



Pressing issues St. Louis Post-Dispatch columnist Greg Freeman, who served as Student Life's editor-in-chief in 1976-77, confers with junior Sarah Kaufman, Student Life's current associate editor, during a Nov. 5 tour of the student newsroom. Freeman is one of 13 directors for the newly founded Washington University Student Media Inc. (WUSMI), a not-for-profit organization recently formed to act in the capacity of Student Life's publisher. Working behind Freeman and Kaufman are news editor Brian Hamman (left) and on-line editor Chris Hill, both sophomores.

Awards

Nominations sought to honor faculty

— from page 1

work. Each will receive a \$5,000 honorarium.

Last year Gerald L. Early, Ph.D., the Merle Kling Professor of Modern Letters and professor of English and African and Afro-American Studies in Arts & Sciences, was named the first recipient of the Compton Award, and Marcus Raichle, M.D., professor of radiology at the medical school, the inaugural recipient of the Cori Award. Early and Raichle gave their addresses and received their awards Sept. 7.

An advisory committee, co-chaired by Strauss and Gerhild S. Williams, Ph.D., the Barbara Schaps Thomas and David M. Thomas Professor in the Humanities, professor of Germanic languages and literatures in Arts & Sciences and associate vice chancellor for academic affairs, has been

appointed to consider nominations and to make recommendations to the chancellor. The committee includes three members each from the medical school and from Arts & Sciences and one from each of the other six schools.

Criteria for selection are:

- Outstanding achievement in research and scholarship;
 - Recognized prominence within the community of scholars;
 - Service and dedication to the betterment of the University; and
 - Respected accomplishments in teaching.
- Any full-time, active faculty member at Washington University is eligible. Nominations may be submitted by any full-time, active faculty member and should consist of a letter detailing the reasons for the nomination and a curriculum vitae of the nominee. Three supporting letters from individuals acquainted with the nominee's contributions as a faculty member also should be submitted.

Nominations are due Feb. 1. Nominations will be valid for

three years, but can be updated by the nominator if desired.

Nominations, supporting letters, and the considerations of the Advisory Committee are confidential. Nominations should not be divulged to the nominee.

Nominations and supporting letters should be sent to: Gerhild S. Williams, Associate Vice Chancellor for Academic Affairs, Campus Box 1128.

Advisory committee members are: Professors Paul J. Donnelly, School of Architecture; Jeffrey C. Pike, School of Art; Daniel B. Shea, Ph.D., Elzbieta Sklodowska, Ph.D., and Richard J. Smith, Ph.D., Arts & Sciences; Jeroen M. Swinkels, Ph.D., John M. Olin School of Business; Frank C-P Yin, Ph.D., M.D., School of Engineering and Applied Science; Jane Harris Aiken, J.D., LL.M., School of Law; Richard H. Gelberman, M.D., Gustav Schonfeld, M.D., and Philip D. Stahl, Ph.D., School of Medicine; Shanta Pandey, Ph.D., George Warren Brown School of Social Work.

Architecture faculty earn design awards

Five School of Architecture faculty members recently received 1999 "Building on Your Vision" Design Awards from the American Institute of Architects-St. Louis and the Construction Products Council.

The annual awards recognize outstanding achievement in design and construction, while increasing awareness of excellence in these fields in the greater St. Louis region. The "Building on Your Vision" theme promotes the goals of "architects and craftsmen bringing their clients' dreams to reality — making the workplace more effective, homes more meaningful and civic spaces more connective."

Gia Daskalakis, assistant professor and director of the school's undergraduate program, received an Unbuilt Honor Award for the Hispanic Information & Telecommunications Network Inc. facility at the Brooklyn Navy Yard, N.Y. The proposal was recognized

for "turning an old warehouse into a showplace for the aspirations of the Hispanic community without the typical stylistic pandering."

Adam Glaser, affiliate assistant professor, received an Unbuilt Honor Award for the Osaka Cosmosquare Signage & Street Furniture International Design Competition in Osaka, Japan. The jurors noted that in the competition entry, "each piece has a sophisticated response to the scale of the user. It is a beautiful and innovative intersection of industrial design and urban design."

John Hoal, associate professor and director of the school's Master of Architecture and Urban Design Program, received a Citation for Civic Benefit for his design work on Grand Basin in St. Louis' Forest Park. The jurors said that "this reactivation of the public access and focus at the Grand Basin will be a tremendous asset for citizens."

Phillip Holden, visiting associate professor, received an Architecture Honor Award for the Mary, Mother of the Church Parish Activity Center in St. Louis. The project was noted for its "subtle, but sophisticated dynamic" and an innovative use of natural daylight.

Adrian Luchini, associate professor and director of architectural design for Sverdrup Corp., received an Honorable Mention Drawing Award for Southeast Missouri State University's Performing Arts Center in Cape Girardeau, Mo. Luchini's designs contrast his new addition — 100,000 square feet of "dancing" contemporary form — with renovations for an existing 1850s seminary.

Robert Hansman, assistant professor, chaired the Drawings Jury. The addition to the University's Graham Chapel also received a Masonry Honor Award for work done by Leonard Masonry Inc.

Washington People



Michael J. Holtzman, M.D. (right), and colleague Michael Walter, M.D., compare data from studies of isolated airway epithelial cells, genetically modified mice and human subjects, under the watchful eye of his gorilla "mascot."

A breath of fresh air for asthma research

Michael Holtzman, M.D., has made critical discoveries in asthma's causes and treatment

BY LINDA SAGE

Mike Holtzman studied biology because all of his friends were pre-meds. He went to medical school because the alternative was Vietnam. And he became an asthma researcher because he was assigned to that topic.

But medical research turned out to be his forte. In 1983, he established a link between asthma and inflammation. In recent years, he has uncovered a possible mechanism. Research, he said, is tailor-made for him. "I enjoy coming up with a way of approaching a problem that is quite different, contrary even, to what has already been done," he said.

Michael J. Holtzman, M.D., is the Selma and Herman Seldin Professor of Medicine and a professor of cell biology and physiology. He also directs the Division of Pulmonary and Critical Care Medicine, whose clinical arm is near the Jewish Hospital nursery where he spent the first few days of his life.

Specialty by default

Medicine didn't loom large during the rest of Holtzman's childhood in St. Louis. Working on the school newspaper was his major passion at Horton Watkins High School in Ladue. But most of his friends at Northwestern University wanted to be physicians, so he majored in biology in 1971. He then moved from Evanston to Chicago's North Shore for medical school. Because he ruled out surgery — too much standing around in confined spaces — and pediatrics, psychiatry and obstetrics, he specialized in internal medicine by default.

The urge for a career in science surfaced after an internship and first year of residency at Duke University, when Holtzman abandoned ship for a research fellowship at the University of California at San Francisco (UCSF). Between trips to the beach, he studied airway function in healthy people, people with asthma and people with allergies. He then completed his clinical fellowship and stayed at UCSF for seven more years.

In 1983, three years after he had set up his own lab, Holtzman published a paper that changed

ideas about the causes of asthma. Studying the effects of air pollution in an animal model, he discovered that exposure to levels of ozone similar to those in Los Angeles produced both inflammation and an asthma-like condition. Drugs that inhibited inflammation prevented the animals from developing symptoms. "Incredible as it may seem, the words 'asthma' and 'inflammation' had not been linked at that time," Holtzman said. The work also suggested that cells that line the airway — epithelial cells — are active participants in this

"Mike Holtzman is a very talented administrator who is smart, hardworking, well-organized and a visionary — an impressive combination."

JOHN P. ATKINSON

inflammatory response, an idea that Holtzman is still exploring.

"Dr. Holtzman has set the direction of asthma research for the past two decades, first by his demonstration of the importance of airway inflammation in asthma," said James R. Sheller, M.D., associate professor of medicine at Vanderbilt University in Nashville, Tenn. "This concept led to crucial changes in the therapy of asthma and in the way research in airway disease is conducted."

By the time Holtzman moved to Washington University in 1987, he was studying the effects of lipids, such as prostaglandins, on cultured epithelial cells. But he later switched his focus to cell adhesion molecules, which were thought to be important for activating immune cells. By 1990, he and his former fellow, Dwight Look, M.D., now an assistant professor of medicine, had evidence that a protein called ICAM-1 (intercellular adhesion molecule-1) plays a major role. Looking at the regulation of its gene, the Holtzman lab uncovered an entire genetic network that becomes active when airway cells defend the body against viral infection. "This use of modern molecular techniques has provided seminal understandings of airway inflammation," Sheller said.

Earlier this year, Holtzman and former graduate student Deepak Sampath, Ph.D., reported that this

genetic program might contribute to asthma by operating even in the absence of infection, unnecessarily summoning immune cells to the airway. The group now is trying to create mouse models whose airway epithelial cells — but not other cells — lack key genes in the defense pathway. If such mice are resistant to asthma, Holtzman's idea should gain support. The researchers also are looking for possible asthma therapies, such as a modified respiratory virus, that could switch off the pathway without increasing the risk of infection.

Holtzman has conducted much of this research while directing the pulmonary and critical care medicine division, a position he assumed in 1992. "Mike Holtzman is a very talented administrator who is smart, hardworking, well-organized and a visionary — an impressive combination," said John P. Atkinson, M.D., who chaired the Department of Medicine from 1992 to 1996 and now is the Samuel B. Grant Professor of Medicine. "He has developed this program from being a very good pulmonary

division to being one of the top three or four in the country."

Later this year, the division will open a one-stop outpatient Lung Center for pulmonary medicine, allergy care and thoracic surgery. "All of the staff — physicians, nurses, therapists, technicians and business staff — will be in the same place, which also will house patient charts, testing equipment and rehab facilities," Holtzman said. "This center will be patient-friendly and physician-friendly."

Since 1998, Holtzman also has been editor-in-chief of the prestigious American Journal of Respiratory Cell and Molecular Biology, published by the American Thoracic Society. He is responsible for identifying the right reviewer for each article and for seeing that papers are judged only on scientific merit. He also has created a new commentary section. "One of the opportunities was to bridge the gap between clinicians and basic scientists by explaining what scientific discoveries mean at the bedside," he said.

New perspective

At one time, academic activities completely filled Holtzman's life. But in 1988, he noticed an attractive manager in the fine jewelry department of Dillard's in the St. Louis Galleria. The next day, he invited her out, and the two have been inseparable ever since. They were married in 1993 and now have a 5-year-old son and a daughter who will be 2 at Thanksgiving. "A medical career tends to be self-absorbing," Holtzman said. "But when you have children, you realize that something else is more important. It gave me a new perspective on the way I viewed other people, helping me to be a father at work as well as at home."

I. Jerome Fance, M.D., a clinical professor of medicine and the pulmonary division's spiritual icon for more than 50 years, has been an important role model and key to Holtzman's success. "He imparts the attitudes I try to adopt: dedication to the institution and a general level of fairness," Holtzman said.

Michael J. Holtzman, M.D.

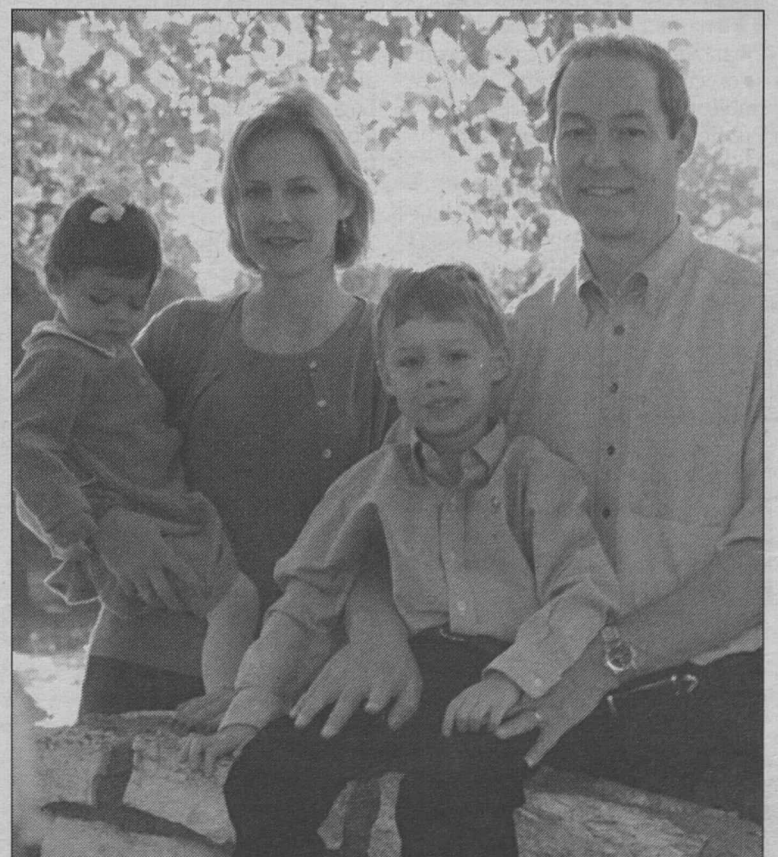
Born in St. Louis

Education Northwestern University, B.A.; Northwestern University School of Medicine, M.D.

University positions Director of pulmonary and critical care medicine, the Selma and Herman Seldin Professor of Medicine, professor of cell biology and physiology

Family Wife, Jane Holtzman; son, Andrew, 5; daughter, Abigail, 2

Hobbies Family fun



The Holtzmanns — Jane and Michael, Abigail, 2, and Andrew, 5.