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Record

April 14, 2006

Volume 30 No. 29

Washington University in St. Louis

Sansalone named dean of School of Engineering & Applied Science

By TONY FITZPATRICK

Mary J. Sansalone, Ph.D., professor of structural engineering at Cornell University, will become dean of the Washington University School of Engineering & Applied Science on July 1, according to Chancellor Mark S. Wrighton.

Sansalone will succeed Christopher I. Byrnes, Ph.D., dean of the School of Engineering & Applied Science since 1991 and the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics.

"We are extremely pleased to have Mary Sansalone join us at Washington University and lead our School of Engineering & Applied Science," Wrighton said. "She has an exceptional background in all levels of higher education, from research, to teaching and advising undergraduate and graduate students, to performing many different challenging administrative duties."

"Mary has a keen interest in exploring the interface of engineering and other disciplines," Wrighton continued. "As such, she has been a very effective collaborator with others in academia, government and industry. We welcome her heartily and look forward to the beginning of her tenure."

Sansalone is only the ninth dean the School of Engineering & Applied Science has had since 1870. She will oversee approximately 1,100 undergraduate students, 750 graduate students and 89 tenured or tenure-track faculty, 60 research faculty, more than 150 adjunct faculty, as well as more than 300 undergraduates in the joint engineering program with the University of Missouri-St. Louis.

A faculty member at Cornell since 1987, she earned a Ph.D. in structural engineering from Cornell the previous year. She earned a bachelor's in civil engineering from the University of Cincinnati in 1982, where she studied both civil engineering and

See Sansalone, Page 6



Chancellor Mark S. Wrighton and EnCouncil President Maggie L. Gierse present Mary J. Sansalone, Ph.D., with a WUSTL T-shirt and hardhat at a welcoming reception April 10 in Lopata Hall. Sansalone, professor of structural engineering at Cornell University, will become dean of the School of Engineering & Applied Science July 1.

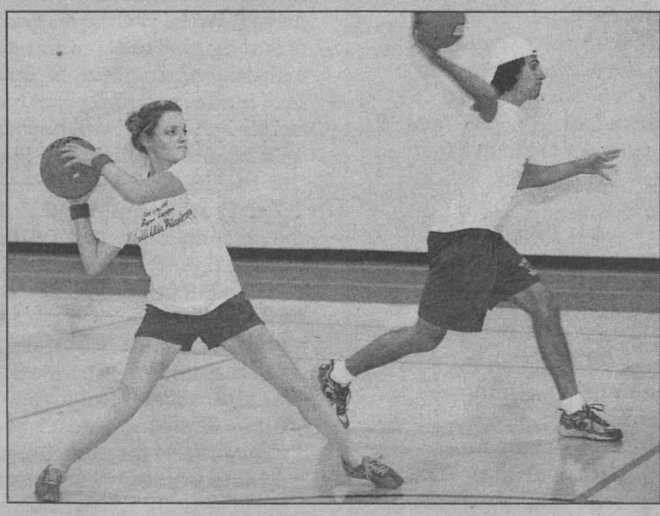


Building Katrina awareness

Sophomore Erica Jones (above), who is from New Orleans, and Heidi Murken (right) of Lutheran Campus Ministries look at photographs during the "Faces of Katrina" event April 5 in the Women's Building. The event showcased the memories of the 200 WUSTL students who traveled to hurricane-affected areas during spring break to help with cleanup.

BELOW & BELOW RIGHT: School of Law students Darren Grady (below), Audrey Aden and Mike Zografakis participate in a dodgeball tournament April 8 in the Athletic Complex. The event, organized by first-year law students and sponsored by several campus groups, raised hundreds of dollars for Habitat for Humanity's Katrina relief efforts.

(All photos by Kevin Lowder)



Calorie restriction's effects on aging studied long-term

By JIM DRYDEN

Can eating a low-calorie yet nutritionally balanced diet extend human life as it does in rodents? Preliminary research suggests it might, so researchers at the School of Medicine are launching a long-term study to find out.

More than a decade ago several researchers, including John O. Holloszy, M.D., professor of medicine, demonstrated that stringent and consistent caloric restriction increased the maximum lifespan in mice and rats by about 30 percent and protected them against atherosclerosis and cancer.

Human study has been difficult because caloric restriction requires a very strict diet regimen, both to keep the total number of calories low and to ensure that people consume the proper balance of nutrients. However, there is a group called the Calorie Restriction Society that is devoted to limiting caloric intake in hopes of improving health and extending lives. Society members, who call themselves CRONies (Calorie Restriction with Optimal Nutrition), have developed ways to eat low calorie/high nutrition diets.

Luigi Fontana, M.D., Ph.D., as-

sistant professor of medicine and an investigator at the Istituto Superiore di Sanita in Rome, has done extensive research with CRONies, most recently reporting in the Jan. 17 issue of the *Journal of the American College of Cardiology* that the hearts of people on calorie restriction appeared more elastic than those of age- and gender-matched control subjects. Their hearts were able to relax between beats in a way similar to the hearts of younger people.

And, a team from the Pennington Biomedical Research Center is reporting in the April 5 issue of the *Journal of the American Medical Association (JAMA)* on a six-month study of men and women between 25 and 50 who lowered daily caloric intake by about 25 percent.

That study, called the Comprehensive Assessment of the Long-term Effects of Reducing Intake of Energy (CALERIE), found that

See Calories, Page 7



Fontana

Let your imagination ride at Thurtene Carnival April 22-23

By NEIL SCHOENHERR

More than 120,000 people from the St. Louis area are expected to attend the annual Thurtene Carnival from 11 a.m.-8 p.m. on the North Brookings parking lot April 22-23.

This year's theme is "Let Your Imagination Ride."

Already the oldest and largest student-run carnival in the nation, this year it aims to be better for the environment as well.

For the first time, the event will include recycling bins — to encourage patrons to recycle

drink bottles — and disposal and recycling of construction waste, including unused paint.

"Green Thurtene is a new project co-sponsored by Green Action and Engineers Without Borders to encourage an environmentally friendly carnival," said junior Kelly Grady, public relations chair of Thurtene. "Recycling will be available for the carnival, students will be able to turn in empty paint cans, and we will redistribute wood to the community."

Net proceeds from the event See Thurtene, Page 6

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Hegel installed as first Dieckmann professor

By BARBARA REA

Robert E. Hegel, Ph.D., professor of Chinese in Asian and Near Eastern Languages & Literatures in Arts & Sciences, became the first holder of the Liselotte Dieckmann Professorship in Comparative Literature during a Feb. 2 ceremony in Holmes Lounge.

The professorship is a gift of the late William H. Matheson, Ph.D., a professor of comparative literature and a member of the Committee on Comparative Literature in Arts & Sciences, who retired from teaching in 1996 after 25 years at the University.

Matheson made the bequest to honor his mentor and the person responsible for his joining the faculty. The gift was augmented with funds from the University's Sesquicentennial Endowed Professorship Challenge.

"The professorship honors three great citizens and scholars of Washington University: Liselotte Dieckmann, Bill Matheson and Bob Hegel," Chancellor Mark S. Wrighton said. "By naming his gift after his mentor, Bill pays homage to those who came before him and creates a permanent reminder of the link that connects present and future scholars and teachers with the past."

"We are greatly indebted to his life's work and to this selfless gift that will benefit generations to come."

Hegel has been at the University for more than 30 years. A leading scholar in traditional

Chinese fiction, his teaching and research focus on early modern China from 1300-1900, specifically the fiction of the middle Ming and Qing period, as well as theater.

In addition to two books, *Reading Illustrated Fiction in Late Imperial China* and *The Novel in Seventeenth Century China*, he has authored many essays, several translations of literary works and theoretical articles, and a scholarly handbook. He has also co-edited a volume called *Expressions of Self in Chinese Literature*, and will have another, *Writing and Law in Late Imperial China*, published early next year.

During his tenure, Hegel has taught a broad array of courses, and has chaired both the Department of Asian and Near Eastern Languages & Literatures and the Committee on Comparative Literature.

He received the University's Founders Day Award in 1989, and in 2001 he was awarded the Outstanding Faculty Mentor Award. On three occasions, he has received special recognition for excellence in mentoring from the Graduate Student Senate.

A member of the Association of Asian Studies and the Society for Ming Studies, Hegel contributes actively to professional associations and referees journal articles and monograph manuscripts.

Liselotte "Lilo" Dieckmann arrived in St. Louis by a rather circuitous route. She was a native of Frankfurt, Germany, and grew up in a culture that provided broad

exposure to the classical and liberal arts. After studying languages and literatures at German universities, she earned a doctorate from the University of Heidelberg in 1927.

She began her teaching career at the University of Istanbul, Turkey, in 1938, but soon moved with her family to St. Louis, where she taught at John Burroughs High School.

She joined WUSTL's French department in 1945, and two years later the German department, which she chaired from 1963-67. She was promoted to full professor in 1959 and taught until her retirement in 1971.

Even then, she remained active in comparative literature and continued her scholarly work.

During her many years at the University, Dieckmann carved out a distinguished career as a scholar of German and French literature, and she served as a model for female faculty, becoming the first woman here to chair a department. She died in 1994.

Her considerable intellectual acumen and energy left a deep mark on her junior colleague.

"Bill Matheson's legacy is an abiding love for the humanities, and it endures through this professorship," said Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences.

"Washington University is a much better place because of Bill and Liselotte, and Bob richly deserves this honor."



Chancellor Mark S. Wrighton (right) congratulates Robert E. Hegel, Ph.D., at his installation ceremony as the first Liselotte Dieckmann Professor in Comparative Literature in Arts & Sciences Feb. 2 in Holmes Lounge. The professorship is a gift of the late William H. Matheson, Ph.D., a professor of comparative literature and a member of the Committee on Comparative Literature in Arts & Sciences, who retired from teaching in 1996 after 25 years at the University.

Construction Update

Construction Update is published periodically and provides information about the progress of major building and renovation projects. Information is provided to the *Record* by facilities management.

Hilltop Campus

Phase IVB Housing

The superstructure work is complete. Mechanical, electric and plumbing (MEP) rough-ins are progressing. Tarlton Corp. is on schedule for the project. Occupancy remains scheduled for August.

Sam Fox School of Design & Visual Arts

In the Mildred Lane Kemper Art Museum, the curtain wall and glazing at the south continue. The loading dock studs and densglass, and interior walls continue. The metal-panel installation continues at the penthouse. Painting continues at the ground floor.

The second floor ceiling rough-in at the gallery and hallway continues. The installation of the security and communication cable continues. The skylight installation was substantially complete March 24; the skylight plaster framing began March 27. The painting and acoustical ceilings at the second-floor offices are substantially complete.

For Earl E. and Myrtle E. Walker Hall, south canopy steel installation continues, as does north elevation stonework. The curtain wall framing at the clearstory is complete, interior plaster framing continues and curtain wall at the west entrance has started. Metal panel and standing seam roof continues.

The MEP equipment hookups continue on the ground floor, and startup operations are complete. Ceiling framing rough-in continues. First-floor drywall continues as curtain wall allows.

MEP rough-in and light layout is substantially complete. The second-floor overhead rough-in is complete and the plenum wall framing continues. Occupancy is expected in July.

Social Sciences/School of Law Building

The architecture firm of Kallmann, McKinnell & Wood is progressing with the design, with an anticipated completion of the design May 1.

University Center

The architectural firm Tsoi/Kobus & Associates has received University comments to the schematic design and is incorporating them into the design.

Medical Campus

Taylor Parking Garages

The 600 parking spaces being added to the garage at Clayton and Taylor avenues are expected to be available by the end of May for staff, faculty and visitor parking. In addition, the Metro garage at Taylor and Children's Place is expected to be complete by the end of May. That garage will include 700 parking spaces for employees and the public.

Metro plans to move its bus routes off of Euclid Avenue to the first-level transit plaza in the garage May 29. There will also be a ground-level access from the garage to the MetroLink platform.

Northwest Tower

Construction of the Northwest Tower on top of the St. Louis Children's Hospital garage, will add eight floors and 195,000 square feet of space expected to be ready by mid-September.

Barnes-Jewish College of Nursing

Demolition of the Dazor Manufacturing Corp. building at Duncan and Taylor avenues is complete. That space will be the home of a \$40 million Barnes-Jewish College of Nursing, replacing the current facility on Kingshighway Boulevard. Groundbreaking is scheduled for this summer, with completion expected in late 2007.

MetroLink expansion

Both platform entrances and elevators at the Forest Park Parkway-De Baliviere Avenue station are completely open to the public. Fence construction and light installation continues on the Des Peres Avenue pedestrian bridge. Pavement repair on the Parkway between De Baliviere to Des Peres and grading of the Parkway east of Skinker are both ongoing.

Concrete work continues to progress on the northeast emergency egress and southwest access tunnel at the Skinker station. Electrical, plumbing and station finishes activities are also ongoing at the Skinker station.

Curb and sidewalk construction on the Parkway west of Skinker continues, and improvements to University Drive have started.

Asphalt-paving crews have already super-paved the Parkway from Hanley Road to Forsyth Boulevard and from Big Bend Boulevard east.

University plans for 'cashless' laundry & vending machines

By ANDY CLENDENNEN

It's still not quite as easy as taking the laundry home and dumping it for Mom to do while you grab a snack out of the fridge, but the University is taking steps to make washing clothes — and getting refreshments — a little easier.

In response to the interest of students, parents and members of the University community, a cashless system will be implemented for laundry and vending. Those with a Hilltop Campus ID card will be able to use it to purchase snacks and beverages from selected machines on the Hilltop this fall.

Additionally, residents of Residential Life- and Greek Life-managed housing will be able to pay for laundry services by "swiping" their card.

Machines equipped with card readers will continue to accept cash.

"All members of the Hilltop Campus already have their piece of the technology in their pocket," said Paul R. Schimmele, assistant to the director of operations. "The Hilltop ID card is ready to use, after employees first activate an account."

"Faculty and staff will activate their card through HRMS Self-Service. (Students will go through WebSTAC.) The details regarding how the account is maintained have yet to be finalized, but we anticipate that for faculty and staff, it will be managed exactly like the FAST Plan (the Faculty/Staff Meal Plan)."

"In short, employees will be able to completely manage their account online."

For students, this will be managed just like their meal plan, but it's important that people understand that this is a separate account from their meal plan, Schimmele said.

The process for outfitting the machines with the cashless system is pretty straightforward. Most, if not all, are easily adapted

to the card-reader, according to Schimmele. The current cash/coin mechanisms are replaced with cash/coin/card reader mechanisms.

The portion of the install that will require the most effort is on the part of the University, which will need to run network lines into the machines. This "hard-wiring" allows all transactions to be conducted in real time.

First up for the outfitting will be the laundry machines.

"The variables in selecting laundry rooms is a matter of determining which machines can be easily accessed while students are still on campus, what buildings will be housing people during which summer months, etc.," Schimmele said. "The vending machines will follow the laundry machines and will be selected by the University with its partners. We expect to wire all laundry rooms and selected vending machines."

"We hope to see laundry rooms coming online throughout the summer, and we hope to have all or most of them completed by the time students arrive for fall semester. The vending machines will 'roll out' throughout the fall."

The process has been in the works for just more than a year.

In February 2005, a Student Union resolution was presented to University administration requesting the University offer more features on the University ID card.

In response to this request, a committee was formed to assess the needs of the University campus community.

The committee, representing various administrative offices and Student Union, conducted a survey of undergraduate students. Laundry and vending were identified as functions that could be evaluated.

In March 2006, a recommendation was forwarded to University administration to add these features.

School of Medicine Update

Researchers find potential targets for new pain therapies

BY JIM DRYDEN

Studying mice, pain researchers at the School of Medicine have identified two key components in the pain cascade that may provide targets for more effective analgesic drugs with potentially fewer side effects.

A team led by Robert W. Gereau IV, Ph.D., associate professor of anesthesiology, reported in the April 6 issue of the journal *Neuron* the identification of a potassium channel that plays a crucial role in what scientists call pain plasticity, the ability of molecules in the spinal cord to amplify or diminish the response to a painful stimulus.

"The potassium channel we are studying is called 'Kv4.2,'" said Gereau, who also is chief of the

basic research division of the Washington University Pain Center. "Through a series of experiments, we've been able to determine that Kv4.2 decreases transmission through the pain pathway. It helps regulate the ability of pain-transmitting neurons to transmit their signals to the brain."

We sense pain through primary sensory neurons with nerve endings in the skin, the joints, internal organs or muscles. Those nerve cells interpret signals indicating tissue injury or potential injury and transmit these signals to a part of the spinal cord called the dorsal horn. Pain-transmission neurons in the dorsal horn receive those messages and transmit their own pain signals to the brain.

The signals from neurons in the dorsal horn can be either damped down or enhanced, depending upon many factors, according to Gereau. That's the plasticity that makes some things hurt more than others, even though the painful stimulus itself might not change.

The researchers tested the role of Kv4.2 in damping down the pain response by studying mice that had no Kv4.2 gene, called "knockout" mice. The mice were bred so that some pups in a litter were knockout mice while others were normal, wild-type mice with the gene.

Knockout mice withdrew their paws from a heat source or mechanical stimulus more quickly than their wild-type siblings.

The scientists also looked at dorsal-horn neurons in culture from both wild-type and knockout mice and found that the neurons from the knockout mice fired more readily than neurons from wild-type mice.

"That's because the inhibitory Kv4.2 channel was gone in the knockout mice," Gereau said. "It's hard to say that these mice somehow sense pain more intensely, but their thresholds for with-

"The experiments demonstrate that Kv4.2 and ERK are potential targets for drugs to control or eliminate pain."

ROBERT W. GEREAU IV

drawal from heat and touch are much lower than their brothers and sisters that are genetically normal."

Potassium channels in dorsal-horn neurons are regulated by a molecule called "extracellular signal-related kinase" (ERK). Research has demonstrated that if ERK activity is inhibited, much of the spinal cord's sensitivity to pain can be diminished. But scientists haven't really known what ERK was doing.

In this study, the research team studied dorsal-horn neurons from mice to clarify the relationship between ERK and Kv4.2.

"When an injury occurs, there is a massive barrage of activity in pain-sensing neurons, and as those neurons fire, that causes

neurochemical changes in dorsal-horn neurons," Gereau said.

"Those neurochemical changes activate the ERK pathway. One of the things ERK does is modify Kv4.2 so it can't inhibit the firing of dorsal-horn neurons as efficiently as it normally does. Because Kv4.2 can't do that, more pain signals get sent to the brain."

Gereau said the experiments demonstrate that Kv4.2 is a primary target for ERK, and he said both molecules are potential targets for drugs to control or eliminate pain.

Many prescribed anti-inflammatory drugs and opioids are known to decrease ERK activity in the spinal cord.

Although they inhibit ERK activity in the spinal cord, Gereau said many drugs have unwanted side effects and potential addiction liabilities.

There have also been problems associated with anti-inflammatory cox-2 inhibitors, such as Vioxx, which was found to increase the risk of serious cardiovascular events, including heart attacks and strokes. Gereau is searching for approaches to pain relief that rely on different mechanisms like ERK and Kv4.2.

Emphysema patients benefit from one-sided lung reduction

BY GWEN ERICSON

In many cases of advanced emphysema — a chronic, progressive lung condition that interferes with breathing — reducing the size of the lungs by surgically removing lobes from both sides has been shown to improve both survival and quality of life. But some emphysema patients can't tolerate this bilateral operation.

Now a study conducted by researchers at the School of Medicine and the University of Pennsylvania Health System has shown that unilateral, or one-sided, lung-volume reduction surgery has significant benefits for some emphysema patients, offering help to those who are not candidates for the bilateral surgery.

The researchers described their work at the recent 42nd annual meeting of the Society of Thoracic Surgeons.

"A certain subset of emphysema patients are poor candidates for bilateral surgery," said Bryan Meyers, M.D., associate professor of surgery. "Patients who have scarring on one side of their chest from past surgery, patients with coexisting heart conditions and the small segment of patients whose emphysema affects only one side of their lungs — these are all candidates for a unilateral lung-volume reduction procedure."

The presentation discussed outcomes for 49 emphysema patients who underwent unilateral lung volume reduction surgery at the School of Medicine and Barnes-Jewish Hospital.

After the procedure, the patients on average had more than 30 percent increased lung function as measured by how much air they could blow out with a vigorous breath in one second. Although the improvement in function gradually decreased, as expected with this incurable and progressive disease, the benefits lasted at least three years for the average patient.

Tests also showed that the unilateral surgery patients had lower amounts of air left in the lung after exhalation, indicating they could exhale more thoroughly. This improvement also gradually decreased but lasted at least five years for the average patient.

In addition, requirements for supplemental oxygen declined substantially after the operation.

"We saw not only a functional benefit but also a survival benefit from the unilateral surgery," Meyers said. "After three years, 83 per-

cent of the patients who had the unilateral procedure were still alive, and after five years, 55 percent had survived. That's a significant increase in survival rate compared to emphysema patients who don't have surgery."

Survival for patients who had the unilateral procedure was the same as for a similar group of patients who had the bilateral procedure, and a national trial of lung-volume reduction surgery clearly demonstrated that the bilateral procedure increases survival.

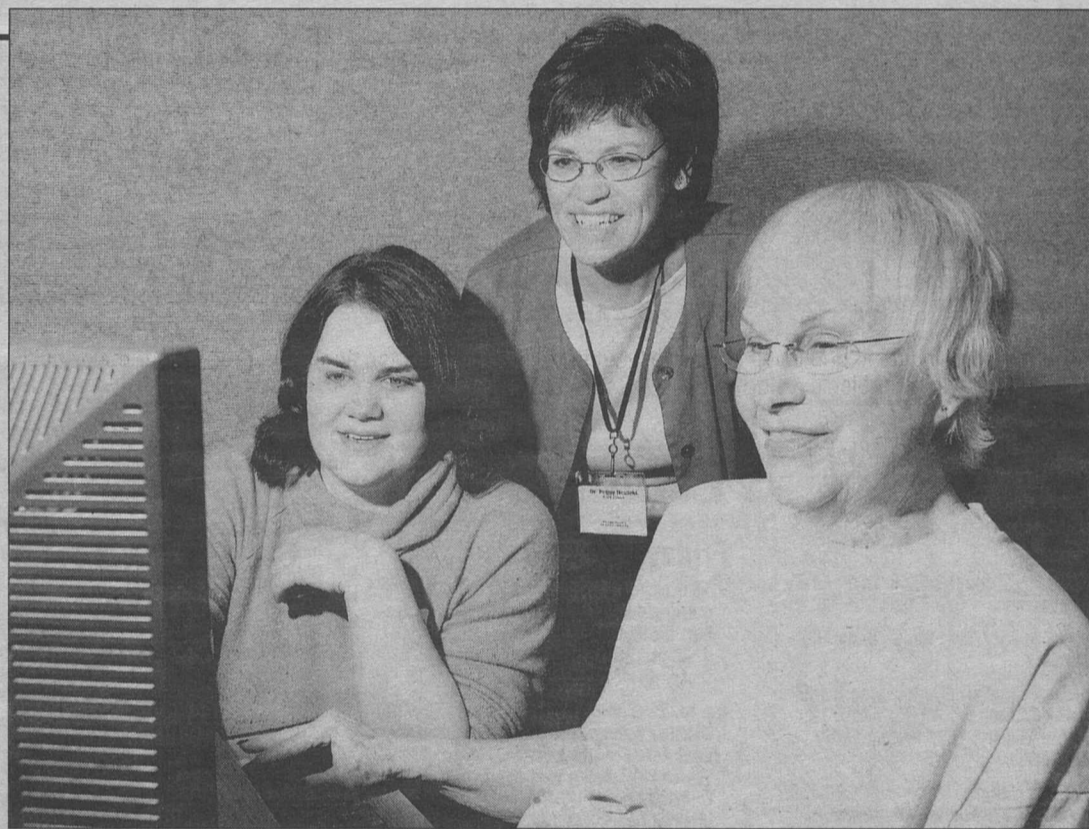
The current bilateral lung volume reduction procedure was pioneered at the School of Medicine in 1993 to treat end-stage emphysema. Removal of 20 percent to 30 percent of the lung on each side allows the remaining, less-diseased portion of the lung to function better, giving patients an improved quality of life.

"The lungs of emphysema patients are maximally expanded because the lung's air sacs have lost their elasticity and can't push air out," Meyers said. "With the expansion of the lungs and chest, the patients don't have much ability to move air back and forth."

"But we found if we remove part of the lungs, we make it possible for the ribs and diaphragm to return to a more normal position, and it becomes easier for the patients to breathe."



Meyers



Surfing for health Peggy Neufeld, Ph.D. (center), assistant professor of occupational therapy and of neurology, and Kristen Lindeman, a master's student in occupational therapy, demonstrate computer skills to Libby Sorkin Routman in the Gathering Place at the Jewish Community Center in Creve Coeur, Mo. The occupational therapy students are teaching older adults how to use computers to find health information and to promote community participation in the St. Louis Naturally Occurring Retirement Community.

Cell-growth protein mTOR may help prevent diabetes

BY MICHAEL C. PURDY

Diabetes researchers at the School of Medicine hoping to enlist the help of a protein targeted by cancer therapies have gained an important new insight into how the protein, known as mTOR, works in the pancreas.

Ironically, diabetes researchers are hoping to promote the capability of mTOR that oncologists want to shut down: its ability to cause cells to reproduce by dividing into copies of themselves. That capacity can be deadly in tumors, but Michael McDaniel, Ph.D., professor of pathology and immunology, wants to use mTOR's ability to make cells divide to maintain enough insulin-making beta cells in the pancreas to prevent diabetes.

"We're working to increase beta cell mass and survival by appropriately activating mTOR," McDaniel said. "This could be useful both for persons at risk of type 1 and type 2 diabetes and to

sustain transplants in patients who already have diabetes."

McDaniel and his colleagues published their results in a recent issue of *The Journal of Biological Chemistry*. They uncovered new details of how mTOR activation affects beta cell reproduction and found evidence that mTOR's effects can both aid and adversely affect beta cells.

In earlier studies of rat islets, the structures in the pancreas that contain beta cells and secrete insulin, McDaniel's group showed that glucose and other nutrients activate mTOR in the beta cells. The scientists linked high glucose levels to increases in a beta cell's production of DNA — a critical first step in the preparation for cell division.

The group's experiments also suggested that glucose and nutrients activate mTOR by inhibiting potassium channels on the surface of islet cells and increasing

calcium levels in the cell. Similar processes are involved in insulin secretion.

To further study the pathway activated by mTOR, scientists exposed the islet cells to glyburide, a compound known to inhibit potassium channels. It had similar effects, causing increased DNA synthesis through activation of mTOR.

Cells have to make a copy of their DNA to reproduce, but the fact that a cell is making DNA doesn't guarantee that it will proliferate, moving all the way through the cell cycle and dividing into copies of itself.

When researchers studied how far beta cells went in the cell cycle when exposed to various levels of glucose, glyburide and an mTOR inhibitor, they found that chronic exposure to high levels of glucose or glyburide increased the number of cells in the DNA-making phase

of the cell cycle. However, it also reduced the number of cells in the phase where cell division takes place.

In other words, the cells were getting stuck in the DNA-making phase.

"We need to figure out what's required to move cells to the cell-division phase," McDaniel said. "We may be missing some sort of cellular checkpoint here — another protein that's a regulator of the cell cycle that is needed to move forward."

Alternatively, McDaniel speculates that pulsed exposures to high glucose and nutrient levels that mimic daily feeding patterns could activate the mTOR pathway in a manner that causes beta cells to more consistently move beyond DNA synthesis and into proliferation.

"It's possible that further study of how mTOR responds to chronic, high-glucose levels will give us important new clues about what's going wrong in beta cells," he said.



McDaniel

University Events

Alonzo King's LINES Ballet at Edison April 21-23

Classical dance meets African soul — and dancers as ferociously sleek and fearsomely virtuosic as cheetahs take ballet technique to new extremes — when Dance St. Louis and Edison Theatre's OVA-TIONS! Series present the St. Louis debut of Alonzo King's LINES Ballet April 21-23.

The rich Baroque structures of George Frideric Handel and the vibrant drumming and song of North African folk traditions find common ground in two recent works by the San Francisco choreographer, who is known as a superb and profoundly original craftsman who creates dances with a global attitude and honed-steel kinetic edge.

Performances will begin at 8 p.m. April 21-22 and at 2 p.m. April 23.

The program will highlight King's *The Moroccan Project* (2005), which draws on the extraordinarily diverse dance forms of North African music to express the intricate rhythms of emotion and community. The vibrant drumming of the ceremonies of the Gnawa people, who originated in West Africa and came to Morocco as slaves in the 16th century, serves as backdrop for the haunting strains of oud (lute), violin and women's devotional singing, creating a landscape of shifting rhythms and echoing voices.

The work also includes Berber (Amazigh) songs from the Middle Atlas Mountains; Chaabit, a form of popular song that is the Moroccan equivalent of American country music; classical Arabic music rooted in the ninth century; and catchy, highly danceable Algerian Ra'i music, which combines North African rhythms with a solid bass line and synthesizer.

The program also will feature *Handel* (2005), an exploration of the drama and elegance of Baroque music inspired by the 18th-century German composer. King's evocative choreography is deeply resonant with the nobility of Handel's work.

In 1741, the composer said of his latest composition, "Whether I was in my body or out of my body as I wrote it, I know not. God knows."

In his own *Handel*, King seeks to give audiences that same sense of ethereal beauty given shape and form — of being present in the moment when creativity is embodied and experienced.

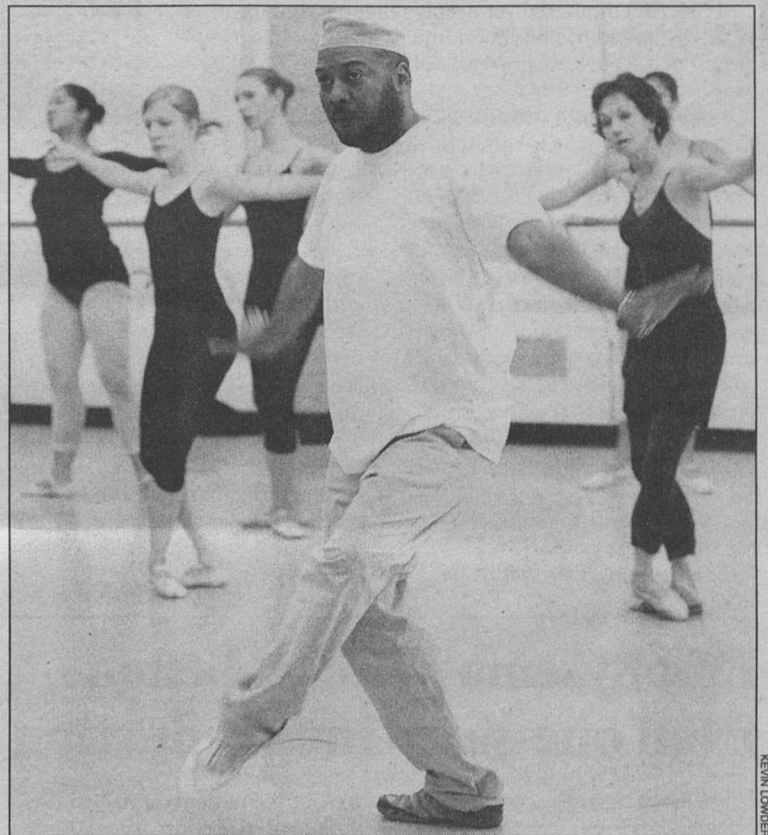
King's dancers are among the most extraordinary on stage today. They produce "dancing of sleekness, fervid sensuality and commitment so deep you suspect these performers would jeté off the nearest cliff if King requested it," said Allan Ulrich of *Voice of Dance*.

"A dancer in Lines Ballet, Alonzo King's San Francisco company, has to have lines and then some," echoed Deborah Jowitz in *The Village Voice*. "When his nine company members dance, I think of diamonds — twisting in the light or rapidly scratching complex codes on glass."

King's work has increasingly been coming into the international spotlight. He has made dances for companies including Frankfurt Ballet, Joffrey Ballet, Alvin Ailey American Dance Theater and Hong Kong Ballet.

An entirely new voice in contemporary ballet, he is especially known for his unusual collaborations with world musicians, including Bernice Johnson Reagon, the founder of Sweet Honey in the Rock; tabla master Zakir Hussain, one of India's national treasures; and Nzamba Lela, a group of 16 BaAka musicians from the forests of the Central African Republic.

Tickets are \$28 for the general public — \$24 for students and seniors — and are available at the Edison Theatre Box Office, the Dance St. Louis Box Office, 3547 Olive Blvd., and all MetroTix outlets. Tickets are also available by calling Edison Theatre at 935-6543, Dance St. Louis at 534-6622 or MetroTix at 534-1111, and online at dancestlouis.org.



Acclaimed dancer/choreographer Alonzo King leads a master class for the Performing Arts Department in Arts & Sciences' Dance Program. King was in residence last fall to set two works for *Reach/Rebound*, the 2005 Washington University Dance Theatre concert. Later this month, King will return to the University for performances by his own company, Alonzo King's LINES Ballet.

How to Build a Lung • In the House of Mirrors • Odyssey to America

"University Events" lists a portion of the activities taking place April 14-27 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

April Welcome. Through April 30. Olin Library, Lvl. 1, Whispers Café Cube. 935-6626.

Road Show. Through May 5. Olin Library, Lvl. 1, Whispers Café Cube. 935-6626.

Sam Fox School Core Show. Bixby Hall. 935-9347.

Sam Fox School Digital Imaging & Photography Exhibition. Through April 19. Des Lee Gallery, 1627 Washington Ave. 935-9347.

Spires: Washington University's Intercollegiate Arts & Literary Magazine. Through April 30. Olin Library Lobby. 935-6626.

Visual Poetry. Olin Library, Grand Staircase Lobby and Ginkgo Reading Rm. 935-5495.

Friday, April 14

6-8 p.m. Sam Fox School First-Year M.F.A. Exhibition Opening Reception. Des Lee Gallery, 1627 Washington Ave. 935-9347.

Film

Friday, April 21

7 p.m. Sam Fox School Presentation. *Unsettled Ground.* Steinberg Hall Aud. 935-9347.

Lectures

Friday, April 14

9:15 a.m. Pediatric Grand Rounds. "Extracorporeal Life Support in Pediatrics." Robert Bartlett, prof. emeritus of surgery, U. of Mich. Clopton Aud., 4950 Children's Place. 454-6006.

4 p.m. East Asian Studies Lecture. *Annual Stanley Spector Memorial Lecture on East Asian History & Civilization.* "Why Weren't Women a Problem in 19th Century Chinese Thought?" Susan Mann, prof. and chair of history, U. of Calif.-Davis. (Reception follows.) McDonnell Hall, Rm. 162. 935-4448.

Monday, April 17

8:30 a.m.-4:30 p.m. Center for the Application of Information Technology Two-day Workshop. "Take Action: Contribute to Your Firm as a High-Impact IT Professional." (Continues 8:30 a.m.-4 p.m. April

18.) Cost: \$1,195, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. To register: 935-4444.

11 a.m. Midwest Center of Excellence for BioDefense and Emerging Infectious Diseases Research Guest Lecture. "Pandemic Influenza Vaccines." Robert Belshe, prof. and dir. of infectious diseases and immunology, Saint Louis U. Eric P. Newman Education Center. 286-0432.

Noon. Molecular Biology & Pharmacology Seminar. "How to Build a Lung: The Importance of Mesoderm." David Ornitz, Alumni Endowed Professor and head of molecular biology & pharmacology, South Bldg., Rm. 3907, Philip Needleman Library. 747-3339.

Noon. Work, Families, and Public Policy Brown Bag Seminar Series. "Did Reform of Prudent Trust Investment Laws Change Trust Portfolio Allocation?" Robert Sitkoff, asst. prof. of law, Northwestern U. Eliot Hall, Rm. 300. 935-4918.

4 p.m. Immunology Research Seminar Series. "The Role of SLP-76 in Hematopoietic Cell Development and Function." Gary Koretzky, dept. of pathology & lab medicine, U. of Penn. Moore Aud., 660 S. Euclid Ave. 362-2763.

7 p.m. Center for the Humanities Faculty Fellows' Lecture. "Narrative Transgression in Contemporary German-Jewish Holocaust Literature." Erin McGlothlin, asst. prof. of Germanic languages & literatures. McMillan Hall, Rm. 115. 935-5576.

Benefits informational meetings

To help better understand the details of the University's "Benefits Plan for the Future," 11 informational meetings have been scheduled by the Office of Human Resources. Reservations are not required. The schedule is:

Hilltop Campus

- April 19, 9 a.m., Simon Hall, Rm. 103
- April 20, 9 a.m., Lopata Hall, Rm. 101
- April 26, 9 a.m., Psychology Bldg., Rm. 216 A/B

Medical Campus

- April 18, 10 a.m., Scarpellino Aud., 510 S. Kingshighway Blvd., first floor

- April 19, 11 a.m., McDonnell Science Bldg., Cori Aud.

- April 21, 10 a.m., Wohl Hospital Aud., lower level

- April 25, 10 a.m., Yalem Bldg., Steinberg Amphitheater

- April 25, 2 p.m., Farrell Learning and Teaching Center, Conner Aud.

- April 27, 10 a.m., Children's Hospital Aud., third floor

West Campus

- April 20 & 26, 1 p.m., Library Conference Center, Rm. A/B

7 p.m. Sam Fox School Architecture Lecture Series. Robert McCarter, prof. of architecture, U. of Fla. Steinberg Hall Aud. 935-9347.

Tuesday, April 18

Noon. Law School Jewish Lunch & Learn. "Examining Secular Issues and Jewish Law." Rabbi Hershey Novack, Chabad on Campus. Anheuser-Busch Hall, Rm. 307. 721-2884.

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Transcriptional Silencing and Adherence in the Yeast Pathogen *Candida Glabrata*." Brendan Cormack, assoc. prof. of molecular biology & genetics, Johns Hopkins U. Cori Aud., 4565 McKinley Ave. 747-5597.

Noon. Program in Physical Therapy Research Seminar. 4444 Forest Park Blvd., Lower Lvl., Rm. B112. 286-1404.

2:30 p.m. Chemistry Seminar. "Synthesis of Natural Glycoconjugates and Development of Carbohydrate-based Cancer Vaccines." Zhongwu Guo, prof. of chemistry, Wayne State U. McMillan Lab., Rm. 311. 935-6530.

Wednesday, April 19

8:30-11 a.m. Shepard Memorial Dental/Otolaryngology Lecture. "Dental Potpourri." Phillip J. Sheridan, asst. prof. of dentistry, Mayo Clinic, Minn. Eric P. Newman Education Center. 935-5419.

11 a.m. Assembly Series. Libraries' Neureuther Lecture. "Stand Up for Children Now." Marian Wright Edelman, civil rights leader and children's advocate. Co-presented as the George Warren Brown School of Social Work's Benjamin E. Youngdahl Lecture and Women's Society Adele Starbird Lecture. Graham Chapel. 935-4620.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "The Mechanism of Pausing by RNA Polymerase and Its Role in Transcriptional Regulation." Robert Landick, prof. of bacteriology, U. of Wis. Cori Aud., 4565 McKinley Ave. 362-4152.

Thursday, April 20

Noon. Center for New Institutional Social Sciences Lecture. Mary Beth Combs, prof. of economics, Fordham U. Eliot Hall, Rm. 300. 935-5068.

3 p.m. Siteman Cancer Center Basic Science Seminar Series. Michelle Le Beau, prof. of medicine, U. of Chicago Cancer Research Center. Eric P. Newman Education Center. 454-7029.

4 p.m. History Colloquium. "Jesus in America: Personal Savior as Cultural Hero." Richard W. Fox, prof. of history, U. of Southern Calif. Duncker Hall, Rm. 201, Hurst Lounge. 935-5450.

Friday, April 21

8:30 a.m.-4 p.m. Center for the Application of Information Technology One-day Workshop. "The Business-IT Partnership: Delivering Business Results." Cost: \$900, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. To register: 935-4444.

Noon. Cell Biology & Physiology Seminar. "The Non-lysosomal Actions of Lysosomal Enzymes — Involvement in Cardiovascular Development and Disease." Aleksander Hinek, prof. and sr. scientist, dept. of laboratory medicine & pathology, U. of Toronto. McDonnell Medical Sciences Bldg., Rm. 426. 362-2254.

Saturday, April 22

10 a.m.-6 p.m. Colonialism and Empire Undergraduate Conference. "Torture, Terror, and the State: Some Lessons From Colonial Kenya." David Anderson, Oxford U. Student papers to be presented. McMillan Hall, Rm. 219. 935-5690.

Monday, April 24

Noon. Molecular Biology & Pharmacology Seminar. "Gonadotropin Structure Function: Bench Science to Therapeutics." Irving Boime, prof. of molecular biology & pharmacology and of obstetrics & gynecology, South Bldg., Rm. 3907, Philip Needleman Library. 747-3339.

Edelman to end Assembly Series season

BY BARBARA REA

Marian Wright Edelman, the country's premier advocate for children, will give the spring Assembly Series' final talk, at 11 a.m. April 19 in Graham Chapel.

A celebrated lawyer, author, educator, activist and reformer, Edelman has devoted her life to improving the lives of poor, neglected and marginalized children.

Since 1973, when she founded and became president of the Children's Defense Fund (CDF), Edelman has worked tirelessly to fulfill the mission of the CDF: ensure every child a healthy start, a head start, a fair start, a safe start and a moral start in life and successful passage to adulthood with the help of caring families and communities.

Throughout her life and in her eight books, Edelman has tried to teach the need for helping the vulnerable in our society and how to find strength and inspiration through life's struggles. These values became important to her early in life.

While at Spelman College in the late 1950s, she became involved in the Civil Rights Movement and worked to register African-American voters in Mississippi. After earning a law degree from Yale University in 1963, she worked for the Legal Defense Fund of the National Association for the Advancement of Colored People.

When she moved to Washington, D.C., Edelman became involved with the Poor People's Campaign, an initiative of Martin Luther King Jr.'s, beginning her focus on children's issues. She also created a public-interest organization called the Washington Research Project.

Back in Mississippi, she experienced firsthand the struggle against institutionalized illiteracy, poverty, lack of health care and lack of hope. It also was in this state where she became the first African-American to join the bar.

Her awards and honors number in the hundreds; among the most prestigious are the 2000 Presidential Medal of Freedom, the Robert F. Kennedy Lifetime Achievement Award, a MacArthur "genius" grant, the Heinz Award and more than 65 honorary degrees, including one bestowed by Washington University in 1992.

She is a member of the Council on Foreign Relations, the American Philosophical Society, the American Academy of Arts & Sciences and the Institute of Medicine of the National Academy of Sciences.

The event is free and open to the public and is co-sponsored by The Women's Society of Washington University, University Libraries and the George Warren Brown School of Social Work.

For more information, go online to assemblyseries.wustl.edu or call 935-4620.

PAD to present *Violet: A Musical Pilgrimage*

BY LIAM OTTEN

It's 1964. An embittered yet deeply religious young woman, disfigured by childhood injury, boards a bus in search of a TV evangelist who claims to possess healing powers.

So begins *Violet: A Musical Pilgrimage*, one of the most acclaimed off-Broadway shows of the past decade and surprise winner of the 1996-97 New York Drama Critics Circle Award for best musical. (It beat *Titanic* and other mainstream Broadway shows).

This month, the Performing Arts Department in Arts & Sciences will present six performances of *Violet* in the A.E. Hotchner Studio Theatre in Mallinckrodt Student Center. Shows will begin at 8 p.m. April 21-22 and at 2 p.m. April 23 and will continue the following weekend at 8 p.m. April 27-28 and at 2 p.m. April 30.

Based on Doris Betts' short story *The Ugliest Pilgrim*, *Violet* was adapted to the stage by Brian Crawley, who wrote the book and lyrics.

The music by Jeanine Tesori is original, yet true to its '60s setting, drawing on blues and bluegrass as well as rock, country and gospel.

The story opens in a kind of flashback. The young, 13-year-old Violet (played by sophomore Elizabeth Birkenmeier) is singing while her father (senior Justin Huebener) chops wood. Suddenly the axe blade flies loose, striking the girl across the face.

Twelve years later, Violet (now played by junior Carolina Reiter) boards a Greyhound bus bound for Tulsa, Okla., home to a televangelist she believes will be able to heal her scars.

Yet along the way Violet becomes unlikely traveling companion to a pair of soldiers — the cocky, womanizing (and white) Monty (senior Benjamin Ogilvie) and the African-American sergeant Flick (senior Chauncy Thomas).

"Violet is immediately drawn to Monty, who is gorgeous," said director Annamaria Pileggi, senior lecturer in the PAD, who directs the cast of 13. "But she connects on a much deeper, more substantive level with Flick. Monty talks about his motorcycle; Flick touches Violet's scar and asks, 'Does that ever hurt you?'"

"In a way, Monty and Flick symbolize Violet's own inner turmoil," Pileggi added. "Monty represents her longing for the conventional, while Flick reflects her outsider status. By the end of the play, I think that Violet is able to bring these two parts of herself together and find a measure of self-acceptance."

Pileggi noted that depicting a road trip on stage presents a variety of technical challenges — ably met by set designer Megan Eder, a senior in Architecture, who devised the intricate yet flexible multilevel tableau.



Junior Carolina Reiter (left) and sophomore Elizabeth Birkenmeier in the Performing Arts Department's production of *Violet: A Musical Pilgrimage* in the A.E. Hotchner Studio Theatre.

"This is a complicated show," Pileggi explains. "It takes place in a bus, at a bus stop, in a chapel, in a restaurant, at a rest stop, on a mountain. But Megan has done an amazing job."

"A counter-top becomes a bed, suitcases become bus seats. It's an ever-evolving world that is transformed throughout the play."

Indeed, the changing stage becomes something of a metaphor for Violet's own journey.

"Violet thinks that she wants to change the way she looks, but what she really wants is to change the way she is perceived," Pileggi said. "The staging brings the audience along on that journey of perception, challenging them to see things in new ways."

Rounding out the technical crew is Lisa Campbell, lecturer in music in Arts & Sciences, who serves as musical director. Christine Knoblauch-O'Neal, senior lecturer in the PAD's Dance Program and director of the Ballet Program, is choreographer and staging consultant. Costumes are by junior Kathryn Casale.

Tickets are \$15 — \$9 for students, senior citizens and WUSTL faculty and staff — and are available through the Edison Theatre Box Office, 935-6543, and all MetroTix outlets.

For more information, call 935-6543.

Washington University Concert Choir to present Gabriel Fauré's *Requiem*

The Washington University Concert Choir will present an evening of French choral music at 8 p.m. April 20 in Graham Chapel.

The program will open with *Tu Es Petrus* and *Ubi Caritas* by Maurice Duruflé (1902-1986). Both works are based on medieval plainchant from the Roman Catholic liturgy.

Featured on the program is the *Requiem* of Gabriel Fauré (1845-1924), one of the most beloved works of all choral literature. The piece is dedicated to the memory of Elizabeth "Ibby" Gray Danforth, wife of Chancellor Emeritus William H. Danforth and the University's first lady for nearly a quarter century, who passed away last spring; and Sona Haydon, a longtime lecturer in piano for the Department of Music in Arts & Sciences, who died last fall.

John Stewart, director of vocal activities for the music department, notes that the *Requiem's* appeal "resides in lush, rich harmonies woven with melodies of great warmth and beauty. The entire piece is shaded with exquisite subtlety typical of late-19th-century French music."

Fauré composed his *Requiem* in 1887, shortly after the death of his parents. At the time, he served as choirmaster at the Madeleine, one of Paris's best-known and most fashionable churches. The work's first performance took place there Jan. 16, 1888.

Unlike the more bombastic requiems of Hector Berlioz and Giuseppe Verdi, which shake the rafters in their depiction of Judgment Day, Fauré's aim was to create a work of consolation and peace, which is poignantly achieved through the quietness of the "Pie Jesu" and "In Paradisum," two of the *Requiem's* five movements.

Stewart has chosen to present the work in its original, more-intimate version, rather than the large-scale (and better-known) reworking for full orchestra, which Fauré prepared for a performance at the Trocadéro Palace during the 1900 Paris World Exhibition.

The small orchestra for this version of the *Requiem* consists of strings, two French horns, harp and organ. Soloists will be soprano Amy Schwarz, a senior in Arts & Sciences, and Nathan Ruggles, who teaches voice in the music department.

Also featured will be University organist William Partridge Jr.

The performance is free and open to the public. For more information, call 935-4841 or e-mail staylor@wustl.edu.

4 p.m. Center for the Humanities Faculty Fellows' Lecture. "In the House of Mirrors: Painting and Experience in the Dutch Republic." Mariët Westermann, dir., Inst. of Fine Arts, N.Y.U. Anheuser-Busch Hall, Rm. 305. 935-5576.

4 p.m. Immunology Research Seminar Series. "Toll Pathway of Host Defense." Ruslan Medzhitov, prof. of immunobiology, Yale U. Moore Aud., 660 S. Euclid Ave. 362-2763.

4 p.m. Romance Languages & Literatures Lecture. Annual Isidore Silver Memorial Lecture. "Ronsard's Subversive Mentor." Cathy Yandell, W.I. and Hulda F. Daniell Professor of French Literature, Language, and Culture, Carleton College. Duncker Hall, Rm. 201, Hurst Lounge. 935-5175.

Tuesday, April 25

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Molecular Pathogenomics of Group A *Streptococcus*, the Flesh-eater." James Musser, Fondren Foundation Distinguished Endowed Chair, executive v.p. and co-dir., center for molecular and translational human infectious diseases research, Methodist Hospital Research Inst., Houston. Cori Aud., 4565 McKinley Ave. 362-3692.

4 p.m. Chemistry Seminar. "Low-valent Palladium Complexes and Their Interactions With Silanes." Mark Fink, prof. of chemistry, Tulane U. McMillen Lab., Rm. 311. 935-6530.

Thursday, April 27

3 p.m. Physics Theory Seminar. "Local Currents for Quantum Mechanics With a Fundamental Length Scale." Gerald A. Goldin, university dir., science and mathematics partnerships, Rutgers U. (2:30 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

4 p.m. Anesthesiology Lecture. Annual C.R. Stephen Lecture. "HMGB1 and the Inflammatory Reflex." Kevin J. Tracey, dir. and CEO, Feinstein Inst. for Medical Research, New York. Eric P. Newman Education Center. 454-8701.

4 p.m. Chemistry Seminar. "Ent-Steroids: A Perspective and Recent Developments." Douglas Covey, prof. of molecular biology & pharmacology, McMillen Lab., Rm. 311. 935-6276.

4 p.m. History Colloquium. "The Strange Career of Annie Lee Moss: Rethinking Race, Gender, & McCarthyism." Andrea Friedman, assoc. prof. of history, Duncker

Hall, Rm. 201, Hurst Lounge. 935-5450.

7 p.m. Whitney R. Harris Inst. for Global Legal Studies Talk. "Odyssey to America: Reflections of a Holocaust Survivor." John Stoessinger, author and political analyst. Missouri History Museum, Lee Aud. 935-7988.

Music

Thursday, April 20

8 p.m. Concert. Washington University Concert Choir. John Stewart, dir. Graham Chapel. 935-4841.

8 p.m. Jazz at Holmes. Mike Karpowicz, saxophone. Riddley Hall, Holmes Lounge. 935-4841.

Thursday, April 27

8 p.m. Jazz at Holmes. Willy Akins, saxophone. Riddley Hall, Holmes Lounge. 935-4841.

On stage

Saturday, April 15

2 and 8 p.m. School of Medicine Arts Commission Presentation. *Guys and Dolls*. Cost: \$10, \$8 for students. Moore Aud., 660 S. Euclid Ave. For tickets: saccod@msnotes.wustl.edu.

Friday, April 21

8 p.m. OVATIONS! Series. Alonzo King's LINES Ballet. Co-presented by Dance St. Louis. (Also 8 p.m. April 22 & 2 p.m. April 23.) Cost: \$28, \$24 for seniors, WUSTL faculty & staff, \$18 for students & children. Edison Theatre. 935-6543.

Sports

Friday, April 14

4 p.m. Softball vs. Central College. WUSTL Field. 935-4705.

Saturday, April 15

All day. Track and Field WUSTL Quad. Francis Field. 935-4705.

1 p.m. Baseball vs. DePaul U. Kelly Field. 935-4705.

Monday, April 17

4:30 p.m. Men's Tennis vs. U. of Mo.-St. Louis. Tao Tennis Center. 935-4705.

Tuesday, April 18

4 p.m. Softball vs. Greenville College. WUSTL Field. 935-4705.

4:30 p.m. Men's Tennis vs. Southern Ill. U.-Edwardsville. Tao Tennis Center. 935-4705.

Wednesday, April 19

4:30 p.m. Men's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

4:30 p.m. Women's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

Tuesday, April 25

2 p.m. Baseball vs. Westminster College. Kelly Field. 935-4705.

Wednesday, April 26

3:30 p.m. Softball vs. Ill. College. WUSTL Field. 935-4705.

And more...

Saturday, April 22

9 a.m. Program in Physical Therapy Run for Research. 5K run and one-mile walk. (8:15 a.m. registration & check-in.) Tower Grove Park. To register: pt.wustl.edu.

Monday, April 24

8 p.m. Writing Program Reading Series. M.F.A. readings. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Tuesday, April 25

9 a.m. Center for the Humanities Faculty Fellows' Workshop. "Silence and Noise in Dutch Paintings of Manners." Mariët Westermann, dir., Inst. of Fine Arts, N.Y.U. Simon Hall, Rm. 108. 935-5576.

Wednesday, April 26

8 p.m. Writing Program Reading Series. M.F.A. readings. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

McDonnell Center lecture to feature dark-energy astronomer

BY TONY FITZPATRICK

The McDonnell Center for the Space Sciences will present a lecture by the president of the American Astronomical Society at 7:30 p.m. April 19 in the Jerzewiak Family Auditorium in the Arts & Sciences Laboratory Science Building.

The lecture, "The Accelerating Universe: Einstein's Blunder Undone," will be given by Robert P. Kirshner, Ph.D., the Clowes Professor of Science and the Harvard College Professor of Astronomy at Harvard University.

Kirshner, author of *The Extravagant Universe: Exploding Stars, Dark Energy, and the Accelerating Cosmos*, will tell how Albert Einstein in 1917 introduced a "cosmological constant" into his original equations for general relativity, with the intent to make a static universe. However, after the dis-

covery in 1929 that the universe is expanding, this term appeared to be a big mistake — often referred to as "Einstein's blunder."

Modern measurements using exploding stars halfway across the universe show that cosmic expansion is accelerating due to the effects of a mysterious dark energy throughout the universe. While the nature of this energy is not well understood, it has properties similar to those of the cosmological constant.

The newly discovered dark energy comprises two-thirds of the universe's energy density. Observation programs on the ground and from NASA's Hubble Space Technology are under way to learn more about the nature of dark energy, one of the biggest mysteries in physical science.

The event is free and open to the public. For more information, call Lou Lucas at 935-5332.

Career advice for women in public service

Four women who hold influential public-service leadership positions in the St. Louis area will offer career advice as part of a panel discussion on "Women in Public Service" at 4 p.m. April 19 in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

The panelists will be:

- Catherine Hanaway, U.S. attorney for the Eastern District of Missouri;
- Jennifer Joyce, circuit attorney for the city of St. Louis;
- Emmy McClelland, director of governmental affairs at St. Louis Children's Hospital; and
- Darlene Green, city of St.

Louis comptroller and WUSTL alumna.

They will discuss challenges and career barriers for women in public service and participate in a question-and-answer session.

The event will conclude with a reception in the courtroom.

Free and open to the public, the event is sponsored by the Richard A. Gephardt Institute for Public Service, the Women and Gender Studies Program in Arts & Sciences and the Women's Law Caucus, a student organization in the School of Law.

For more information, contact Kristin Lappin at 935-8628 or klappin@wustl.edu.

McGlothlin to speak about Holocaust literature April 17

Erin McGlothlin, Ph.D., 2006 Faculty Fellow and assistant professor of Germanic languages & literatures in Arts & Sciences, will speak on "Narrative Transgression in Contemporary German-Jewish Holocaust Literature" at 7 p.m. April 17 in McMillan Hall Café, Room 115.

McGlothlin is the fifth of six speakers appearing this spring as part of the Center for the Humanities in Arts & Sciences' 2006 Faculty Fellows Lecture & Workshop Series.

Her talk will investigate ways in which contemporary German-Jewish writing on the Holocaust overtly attempts to puncture the

sacred taboo on Holocaust representation by deploying satire, irony, farce, the grotesque, the burlesque and the pornographic.

McGlothlin earned a doctorate from the University of Virginia in 2001. Her research and teaching interests include postwar and contemporary German literature, Jewish Studies, narrative theory and autobiography. Her forthcoming book is titled *Second Generation Holocaust Literature and the Crisis of Signification: Legacies of Survival and Perpetration*.

The talk is free and open to the public. For seat reservations or more information, call 935-5576.

Sansalone

Served as vice president at New York University
— from Page 1

literature.

In 1999, she earned a master's in public administration from the John F. Kennedy School of Government at Harvard University.

Sansalone's primary research interests focus on transient wave propagation in bounded solids, signal processing and pattern recognition, the development of sensing techniques for detecting cracks and flaws in materials, and evaluation of materials and structures.

Through a combination of theory, computer simulation and laboratory and field experiments, she invented a method and an instrument, called "Impact-Echo," for nondestructive evaluation of concrete and masonry structures. She laid the theoretical and experimental foundation for this work while a Cornell graduate student.

In subsequent years, she and her graduate students developed a wide range of applications and invented a field instrument, publishing nearly 90 articles and research reports. Cornell patented the instrument.

In 1995, she worked closely with Cornell's Office of Technology Transfer and with industry to transfer knowledge about use of the Impact-Echo method and instrument to engineers working on evaluation and repair of structures.

She is the lead author of a book published in 1997 on Impact-Echo and its applications. That book has been sold in 17 countries and has been translated into Japanese and Chinese.

In addition to its use on many private and public works structures, Impact-Echo has been used in the evaluation of historic structures, including the Great Pyramid of Cheops in Egypt.

Sansalone was elected a fellow

of the American Association for the Advancement of Science in 2002, and a fellow of the American Concrete Institute in 1999. She was a recipient of the Alan Yorkdale Award from the American Society of Testing and Materials in 1997.

She was elected to membership in Sigma Xi, the scientific research society, in 1993. She was awarded the Wason Medal for Materials Research by the American Concrete Institute in 1991.

She was named a Presidential Young Investigator by the National Science Foundation in 1989, and the National Bureau of Standards awarded her a Special Act Award for outstanding contributions to characterizing stress-wave propagation in bounded solids containing flaws in 1986.

Sansalone has also been recognized for her teaching and advising of students. She was named U.S. National Professor of the Year by the Council for the Advancement and Support of Education and the Carnegie Foundation in 1992, and in 1993, Cornell named her a Weiss Presidential Fellow for effective, inspiring and distinguished teaching of undergraduate students.

From 1993-97, except for a sabbatical year in 1995, Sansalone served as associate director of the School of Civil & Environmental Engineering at Cornell. From 1999-2000 she served as vice provost for academic programs at Cornell, where she worked with the deans of Cornell's colleges and on the planning of university initiatives.

During the 2002-03 academic year, she took a one-year leave from Cornell to be vice president of planning at New York University, where she focused on academic, financial and administrative issues brought on by the unionization of adjunct faculty.

Sansalone and her husband, Bill Streett, Ph.D., will move to St. Louis in June. Streett is a graduate of West Point and an emeritus member of the chemical engineering faculty at Cornell University.

Sports

Junior Arden Farhi of the WUSTL baseball team shakes hands with Linda Davila Sheftel, the mother of the late Justin Sheftel, during a ceremony before an April 1 doubleheader against Knox College at Kelly Field. WUSTL head coach Ric Lessmann (left) and Director of Athletics John Schael look on. Justin Sheftel had been accepted to WUSTL and planned to major in business and play baseball for the Bears, but he died in spring 2005 when a car struck him only 30 hours after graduating from Parkland High School in Allentown, Pa. The Department of Athletics dedicated the newly constructed press box to his memory. During the ceremony —

also attended by Justin's father, Elliott, and James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences — a plaque honoring Justin's name was placed on the press box.



Baseball team sweeps four games, now 26-5; Lessmann wins 300th

The baseball team went 4-0 last week to improve to 26-5. In each of the four games, WUSTL limited its opponent to two runs. Junior Eddy Hoering started his big week with a solo home run in the second inning of an 8-2 win April 4 against Maryville University. In Game 2, the Bears prevailed, 7-2. Senior Ryan Corning hit a solo home run in the fifth. The Red and Green added a 5-2 win at Eureka College April 5. The win was No. 300 on the Hilltop Campus for head coach Ric Lessmann. Corning recorded the game-winning RBI double in the seventh inning. On April 6, WUSTL capped off the week with a 12-2 win at Westminster College. Hoering homered twice as senior Brent Buffa kept his perfect record on the mound intact. He is 7-0 this season and 17-2 for his career, the seventh-most wins in WUSTL history.

Softball team goes 4-0 at Illinois Wesleyan tourney

The No. 19 softball team was 4-0 at the Illinois Wesleyan University Tournament in Bloomington, Ill. On April 8, the Bears posted a 5-2 win in eight innings over the University of Chicago, and then notched an 8-0 victory over No. 24 Hope College. Junior Laurel Sagartz, who was 2 for 4 with an RBI, pitched eight innings, allowing six hits while striking out six. Sophomore Kaylyn Eash pitched a two-hit shutout and hit a home run against Hope. On April 9, Sagartz pitched 12 2/3 scoreless innings and picked up two wins on the mound as the Bears posted victories over No. 25 Illinois Wesleyan (1-0) and Chicago (5-4). Sagartz struck out a school-record 17 batters against Illinois Wesleyan as she earned her 10th complete game of the season and 36th of her career. Against Chicago, Sagartz (12-1) pitched 5 2/3 scoreless innings in relief to pick up the win. She allowed two hits and struck out seven as she picked up her 50th career win (50-7).

Women's tennis splits four matches at Midwest Invitational

The No. 13 women's tennis team (10-7) went 2-2 at the Midwest Invitational April 7-8 in Madison, Wis. The Bears opened the weekend with a 5-4 win against No. 30 Albion College. After falling, 8-1, to No. 18 Wheaton College, WUSTL bounced back for a 5-2 win the next day against Kalamazoo College before losing in the fifth-place match, 6-2, to Denison University.

Men's tennis extends winning streak to six; now stands at 11-1

The No. 8 men's tennis team extended its winning streak to six matches with a 7-0 win at Wheaton College April 8 and a 6-1 win at No. 19 Chicago April 9. With the wins, the Bears improved to 11-1 and notched their fifth straight season with 10 or more wins under head coach Roger Follmer. Doubles play continued to be a strong point for the Bears as they took the doubles point for the 12th straight match.

Women's track and field takes 2nd at Select Meet; men 5th

The women's track and field team took second place at the WUSTL Select Meet at Bushyhead Track, while the WUSTL men took fifth. The women tallied 146 points, just behind first-place Augustana College (153 points). The men posted 66 points, while UW-Whitewater took home the men's title with 208 points. Sophomore Morgen Leonard-Fleckman cleared a personal-best height of 3.71 meters to win the pole vault and provisionally qualify for the NCAA Outdoor Championships. Junior Delaina Martin also provisionally qualified for the NAAs in the hammer throw, registering a mark of 46.61 meters for first place. Juniors Kevin Gale and Cameron Williams highlighted WUSTL's men; Gale won the 1,500, while Williams took first in the high jump.

For complete sports schedules and results, go online to bearsports.wustl.edu.

Thurtene

Awards to be presented at carnival's conclusion
— from Page 1

will benefit St. Louis Scores, an after-school program where children in the city of St. Louis learn soccer and practice their literary skills through poetry.

"Though so much is changing for the carnival with many new improvements and a switch back to the North Brookings location, the most significant aspect of Thurtene remains constant," Grady said.

"It is a chance for students, faculty and the St. Louis community to embrace a near century-old tradition and celebrate the spirit of Washington University."

More than 50 student organizations will take over the North Brookings parking lot for the event, presented by members of Thurtene Junior Honorary, 13 juniors who bear responsibility for the continuation of the tradition.

Featured will be six facades showing a variety of student-produced plays, and myriad rides

Carnival to cause parking-lot closures

Thurtene Carnival has caused, and will cause, some closures in the North Brookings parking lot (Lot 4).

Fifty parking spaces — east of Whitaker Hall and closest to Forest Park Parkway — will remain closed until April 16.

And, 350 parking spaces closest to Brookings Drive will be closed April 15-24.

For more information, go online to transportation.wustl.edu.

— Neil Schoenherr

tickets must be purchased for rides and some plays.

The week preceding the carnival, dubbed "Lot Week," receives recognition from the state of Missouri through an official declaration from the governor as "Thurtene Carnival Week." The week features students working around the clock to raise facades and practice plays.

As always, the Thurtene Honorary will present awards at the conclusion of the carnival for best production, the Buckley award for best construction of a facade, best food and best game booth.

Also to be awarded are the prestigious Chancellor's Charity Cup for the highest donation to charity, and the most-coveted Burmeister Cup, for best overall participation in the carnival.

The members of Thurtene Junior Honorary 2006 are Matthew Bliss, Jessica Furie, Angela Goldstein, Grady, Alexandra Kennedy, Joshua Lawrence, Felipe Macia, Lindsay Miller, Jeffrey Taylor, Vikram Sasi, Kandyce St. Clair, Katie West and Kwabena Yeboah.

For more information, go online to thurtene.org.

Record

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Notables

School of Engineering & Applied Science to recognize alumni

By TONY FITZPATRICK

Four School of Engineering & Applied Science alumni will receive Alumni Achievement Awards, a fifth the Young Alumni Award and a husband and wife the Dean's Award at the school's annual alumni awards program April 19 at the Ritz-Carlton, St. Louis.

Andrew M. Bursky, Arnold W. Donald, Harold H. Schreimann, Gary E. Wendlandt, Danielle Forget and Preston M. & Nancy Green will be honored.

Bursky (bachelor's and master's in chemical engineering, 1978) will be recognized for his entrepreneurial spirit and professional achievements, as well as his extensive community service.

In 1981, Bursky and a partner formed Interlaken Capital Inc., which focused on the chemical, industrial distribution, food processing and financial services sectors. It was recognized by Forbes magazine in 1990 as one of the country's largest privately owned businesses.

In 2002, he formed Atlas Holdings LLC.

Today, he is a member of the University's Board of Trustees and its New York Regional Cabinet.

Donald (bachelor's in mechanical engineering, 1977) will be recognized for his dynamic leadership with Monsanto Co. and Merisant Co., as well as his extensive community involvement and charitable activities. He joined Monsanto in 1977 and worked there for more than 20 years.

In 2000, he founded Merisant. In 2006, he became president and chief executive officer of the Juvenile Diabetes Foundation International.

He is a member of the University's Board of Trustees, is on the executive committee of the William Greenleaf Eliot Society and is a member of the School of Engineering's national council.

Schreimann (bachelor's in industrial engineering, 1949) will be honored for his career accomplishments and long dedication to the University.

He began his career as an industrial engineer for a diversified paper-converting operation. In 1960, he joined Container Corp. of America, where he eventually took over all phases of operation for plants throughout the United States.

Schreimann later formed MSI

Ltd. and continues as its president. He is a member of the Alumni Advisory Council and chair of the Eliot Society for Engineering & Applied Science. He was voted Volunteer of the Year in 2004.

Wendlandt (bachelor's in applied mathematics and computer science, 1972) will be recognized for his achievements in the insurance industry and his community service, especially his work with the Boy Scouts of America. Wendlandt spent more than two decades with MassMutual, joining New York Life Insurance in 1999.

He is chairman and CEO of New York Life Investment Management LLC, where he oversees all aspects of the business. He is an executive vice president of parent organization New York Life Insurance Co. and a member of its executive management committee.

An Eagle Scout, he is active with the Boy Scouts of America.

Forget (bachelor's in civil engineering, 1994) will be honored for her innovation in the field of waste management, her extensive leadership in the Society of Women Engineers and her activity with University alumni.

Forget has held a wide variety of positions, and she now is director of engineering and environmental compliance for WCA Waste Corp. Her innovative approaches have allowed her to implement solutions that improved efficiency, enhanced operations and reduced costs.

She has held numerous leadership positions in the Society of Women Engineers and serves as chair of the Houston Alumni Club.

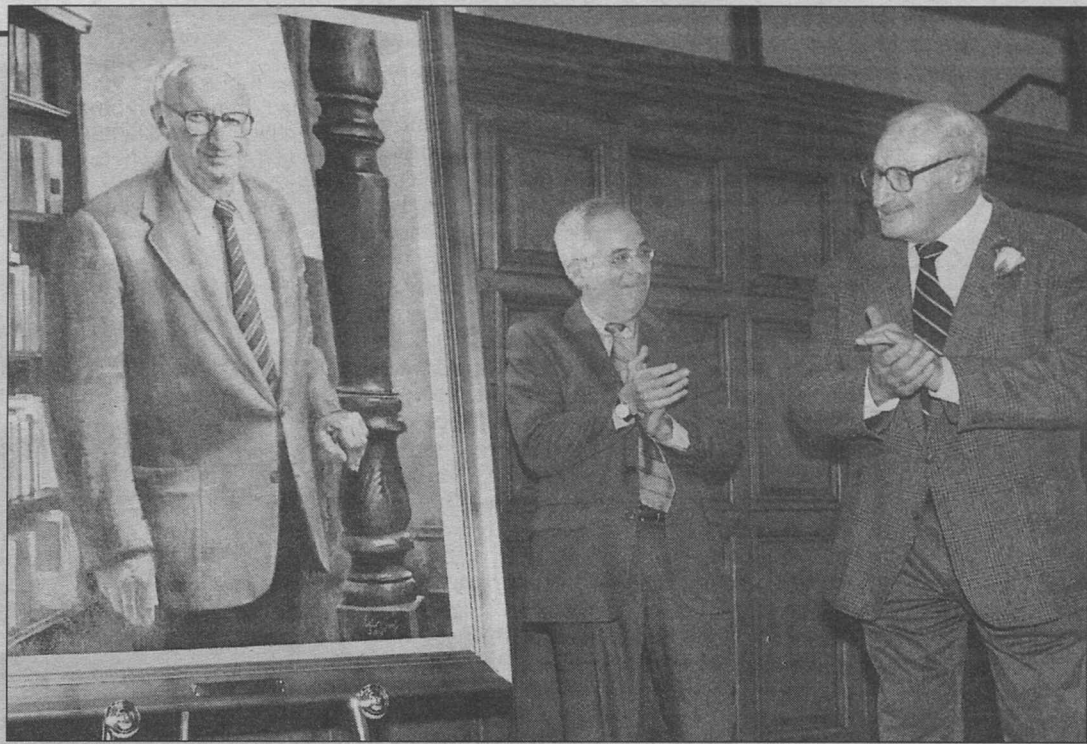
Preston (bachelor's in electrical engineering, 1936) and **Nancy Green** will be honored with the Dean's Award for their extraordinary generosity that will benefit engineering students and faculty for generations, in addition to Preston's professional achievements in the steel industry.

He joined Southwest Steel Supply Co. in 1941 and had a 45-year career there, rising to president and chairman. He was noted for his leadership, innovation and vision in the steel industry. A native St. Louisan, he died at 88 in 2003.

Nancy, also a St. Louisan, serves on the advisory board for the Preston M. Green Charitable Foundation.

The event will start at 5:45 p.m. with cocktails, dinner at 6:45 and awards at 7:45.

For more information on the event, call 935-8730.



World-renowned mathematician Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences, applauds the unveiling of a portrait of Guido Weiss, Ph.D. (right), the Elinor Anheuser Professor of mathematics in Arts & Sciences, at a ceremony March 31 in Cupples II Hall. The portrait hangs in Cupples II outside the mathematics conference room. Weiss, a faculty member since 1961, is a world-renowned mathematician and teacher whose influence and impact has affected generations of students and mathematicians. One of the world's outstanding analysts, Weiss has served as mathematics department chair, on many committees and in the Faculty Council and Faculty Senate Council. The portrait is by local artist Gilbert (Chic) Early.

For the Record

Of note

Carolyn Lesorogol, Ph.D., assistant professor in the George Warren Brown School of Social Work, has received a two-year, \$100,000

grant from the National Science Foundation for research titled "Property Rights, Inheritance, and Female Education in Kenya." ...

Susan Deusinger, Ph.D., director of the Program in Physical Therapy, was selected a Catherine Worthingham Fellow by the

American Physical Therapy Association (APTA). This is the highest honor given by APTA "to recognize those persons whose work has resulted in lasting and significant advances in the science, education and practice of the profession of physical therapy."

Calories

— from Page 1

those on a calorie restriction diet ended the study with lower fasting insulin levels and lower core body temperatures. They also had less oxidative damage to their DNA, thought to be a marker of aging at the biochemical and cellular level.

"This study has laid the groundwork for future research into the long-term effects of calorie restriction in humans to see whether it really can extend lifespan," Holloszy said. "It's becoming clear from studies with the CRONies — and from this brief, prospective study — that calorie restriction does change some of the markers we associate with aging."

Holloszy and Fontana, who also has a related editorial in the April 5 JAMA, are getting ready to launch a second phase of the CALERIE study, to look at the effects of calorie restriction over the course of two years. Later this year, that study will begin recruiting volunteers between the ages of 25 and 45.

"We know people on calorie restriction will lose weight," Fontana said. "But this study isn't a weight-loss study. We're hoping to learn more about whether calorie restriction can alter the aging process."

Fontana said, for example, that low-grade, chronic inflammation seems to mediate aging. Overweight and obese people tend to have higher levels of inflammation than lean people, so it makes sense that losing weight might increase average lifespan by lowering the risks of some age-related diseases, such as diabetes and atherosclerosis. But in animal studies, not only did more of the animals live longer, the maximum length of a rat's or mouse's life also increased. The CALERIE study hopes to get some clues about whether calorie restriction might do the same for humans.



Traditional dance Tessa Diamond of Green Bay, Wis., performs during the junior-dancer competition at the 16th annual powwow April 8 in the Field House. The powwow, which attracted more than 1,500 people from 10 states, was the final event of American Indian Awareness Week. The powwow and awareness week was sponsored by the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work, the American Indian Student Association, various University departments as well as businesses and organizations from the St. Louis area.

"We want to learn whether calorie restriction can reverse some of these markers of aging in healthy young people," Holloszy said. "It's going to be many years before we know whether calorie restriction really lengthens life, but if we can demonstrate that it changes these mark-

ers of aging, such as DNA damage and inflammation, we'll have a pretty good idea that it's somehow influencing the aging process at the cellular level."

Those interested in volunteering for Phase II of the CALERIE study may call 747-3181 or 747-3180.

Campus Watch

The following incidents were reported to University Police April 5-11. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

Crime alert

University Police issued the following alert April 5: There have been several vehicle thefts from public street parking — specifically along Washington, Enright and Interdrive avenues — over the past week. In particular, Jeep Cherokees have been targeted. Several of the stolen vehicles were recovered in neighboring communities, and in one incident four arrests were made. These thefts appear to fit a pattern of similar incidents in nearby communities.

Precautions

• If you hear a vehicle alarm, contact Police immediately.

• Do not leave expensive property such as CDs, purses, radar detectors, cellular telephones and portable stereos in plain view in your vehicle.

• Secure your vehicle with "the club." University Police and the Quadrangle Housing Office offer "the club" at a reduced rate of \$10. For more information, call the crime prevention office at 935-5084 or the Quadrangle Housing Office at 935-9511.

Additionally, University Police responded to four reports of property damage, three auto accidents, two reports each of larceny, disturbance and assault, and one report of harassment.

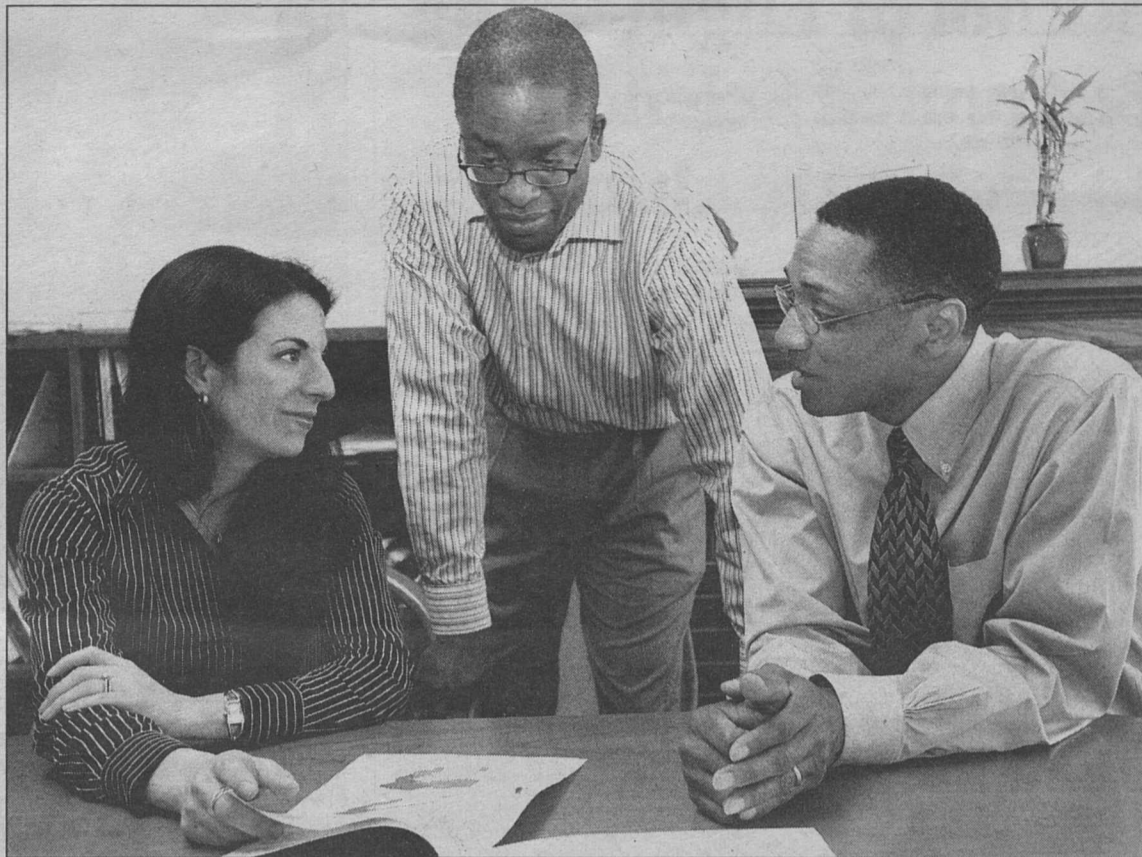
Washington People

For years, the St. Louis region has attempted to promote itself as a new biotechnology hub. But if that is the case, how aligned are the local human resource development strategies with the economic goals of the area? If St. Louis does become a great biotechnology hub, where will the scientifically literate workforce come from?

These are the questions that William F. Tate, Ph.D., the Edward Mallinckrodt Distinguished University Professor in Arts & Sciences, attempts to answer.

A mathematics educator and social scientist by training, Tate has made great strides in furthering the advancement of mathematics and science education research since he arrived on campus in 2002 as chair of the Department of Education in Arts & Sciences.

Tate, who also is professor of American Culture Studies in Arts & Sciences, is interested in examining the relationship between a city's economic goals — in particular those goals that require significant technological advancement — and the civic actions that limit or accelerate human resource capacity to achieve the stat-



(From left) Jennie Iverson, Ph.D., and Jamel Donnor, Ph.D., postdoctoral fellows, chat with William F. Tate, Ph.D., the Edward Mallinckrodt Distinguished University Professor in Arts & Sciences and chair of the Department of Education in Arts & Sciences, in his office.

Advancing science & math education

William F. Tate explores the relationship between a city's economic goals and its civic actions

By NEIL SCHOENHERR

ed goals.

Understanding the state of affairs in mathematics and science education is a vital aspect of this work.

"If St. Louis claims it wants to be the next biotechnology corridor, then I want to understand what mechanisms are put in place to provide local people with the technological skills necessary to make that a reality," Tate says.

The center he directs, the St. Louis Center for Inquiry in Science Teaching and Learning (CISTL), conducted a study of Missouri Assessment Program (MAP) science test scores from 30 local school districts. The data showed that scores in science proficiency were sorely lacking by the time students reached 10th grade.

A similar study has just been conducted on the mathematics skills of the region's youth, and the report card is not much better.

Knowing the science attainment of students is important for understanding how students are being prepared for science-related coursework in college and for science, engineering and technology jobs both before and after college, Tate claims.

"High school graduates proficient in science are critical if our region is going to accomplish the goal of being a biotechnology hub," he says. "Additionally, community members with strong science backgrounds also might be more inclined to support science initiatives. It is hard to support what you don't understand."

A second goal of Tate's was to expand math and science education within the department. In part, this is being accomplished through the collaborative efforts associated with CISTL. The three-year-old center was made possible with a grant from the National Science Foundation. It focuses on supporting inquiry-based teaching and learning in K-12 science through professional development and research.

While housed at WUSTL,

the advancement of urban communities, knowledge production, and society."

Tate was recently elected president-elect of the American Educational Research Association (AERA), a professional society with approximately 25,000 members in the United States and abroad. His term as president starts at the end of the annual meeting next April, after serving as president-elect for a year.

His contributions, both to the University and to society, have not gone unnoticed.

"Bill Tate is terrific," says Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences. "He is leading the Department of Education in new and exciting ways. His work on science education is highly respected throughout the country. He is leading the CISTL very dynamically. He is the real deal — a great faculty member."

Tate thoroughly enjoys being a part of the WUSTL community.

"I really value my personal relationships with colleagues across campus," he said. "I like the fact that you can work across programs very easily. It's easy to get involved in a wide swath of programs that meet your intellectual needs but may also facilitate meeting the needs of students. It's a very nice community of learners and researchers."

"I also really enjoy working with the students. I think they are fantastic. They are up to whatever challenges you provide them and they look to go further."

When he's not focused on the political and economic dimensions of science and mathematics education, Tate enjoys playing basketball in the noon hoops game at the Athletic Complex and is taking fencing lessons with his 9-year-old son, Quentin.

"Bill Tate is terrific. He is leading the Department of Education in new and exciting ways. His work on science education is highly respected throughout the country. ... He is the real deal — a great faculty member."

EDWARD S. MACIAS

Born in Chicago, Tate earned a bachelor's degree in economics from Northern Illinois University in 1982. He earned a master's degree in mathematical sciences from the University of Texas, Dallas, in 1987, and a doctorate in mathematics education from the University of Maryland in 1991.

He then was hired as a professor of mathematics education at the University of Wisconsin, a position he held for 10 years. In 1999, while still employed by Wisconsin, he served as scholar-in-residence and assistant superintendent-mathematics and science in the Dallas Independent School District.

In 2001, Tate was named the William L. and Betty F. Adams Chair and professor of mathematics education and mathematics at Texas Christian University, before coming to WUSTL.

He is very excited about the progress the Department of Education has made since his arrival.

"One of the goals I had coming in was to be consistently ranked among the top 50 graduate programs in the nation," he says. "We have achieved that now for two years running."

In fact, the department is one of only two education departments — not schools — to be ranked in the top 50 by *U.S. News and World Report* this year. Cornell University has the other.

In three of the past four years, the department has been ranked in the top 50. The honor is unique in that all other competitors are generally large colleges of education separate from Arts & Sciences.

CISTL collaborates with the Saint Louis Science Center, Missouri Botanical Gardens, Saint Louis Zoo and other local school districts and universities.

Tate attributes the success of the department to its outstanding faculty and the ability to attract great students.

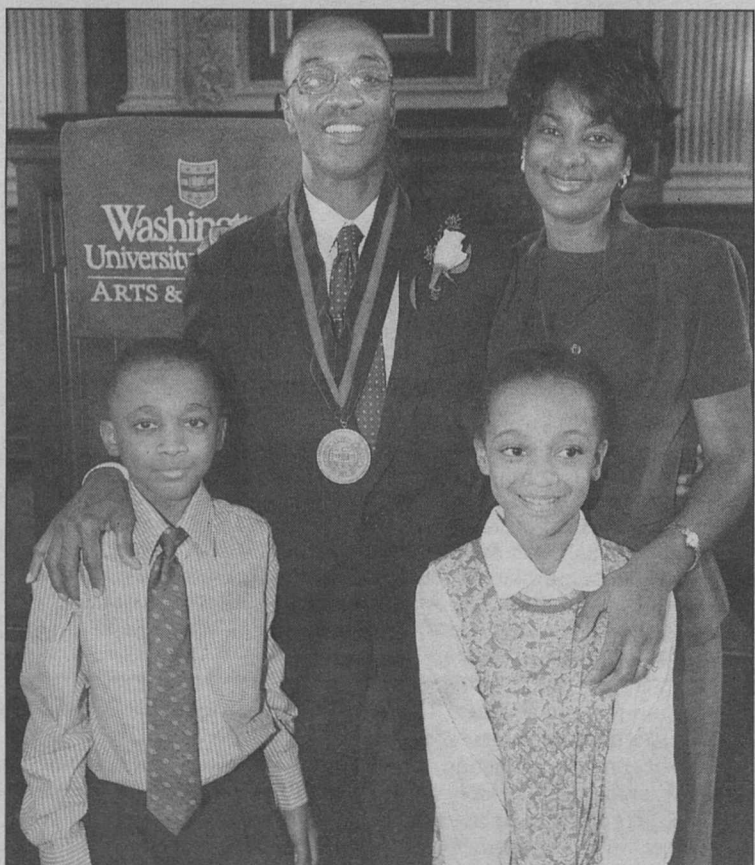
"Our undergraduate and graduate students have exemplary backgrounds," Tate says. "The average GRE scores and other academic quality factors associated with our graduate students are very strong. We also are able to provide unique faculty expertise in areas like urban studies, learning and creativity, history of education, policy studies, race and schooling, and science and mathematics education."

"Our teacher/student ratio has been consistently ranked as the best among the top 50 graduate programs. Students want individual attention and to feel like they are part of a smaller learning community."

In addition, Tate added, the reputation of the University as a whole continues to rise helping to get additional inquiries from more and more potential students.

Tate hopes to continue building the department and to sustain its current trajectory of success.

"Accomplishments by faculty and students in the department are really going great right now," he says. "If we can continue to attract strong faculty with disciplinary backgrounds we can make a huge difference in preparing our undergraduate and graduate students to go out and contribute to



Tate poses with his wife, Kim, and children, Quentin and Cameron, at his installation as the Edward Mallinckrodt Distinguished University Professor in Arts & Sciences Sept. 6.