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Record



Washington University in St. Louis

June 11, 2009

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Living Learning Center opens at Tyson

On track to be first Living Building in North America

By JESSICA DAUES AND TONY FITZPATRICK

What could be one of North America's greenest buildings — a flagship building on the cutting edge of sustainable design and energy efficiency — officially opened May 29 at Washington University's new Living Learning Center at the Tyson Research Center.

Tyson, located 20 miles southwest of the Danforth Campus, is 2,000 acres of woods, prairie, ponds and savannas where dozens of WUSTL faculty and students predominantly do environmental research.

The Living Learning Center is a 2,900-square-foot facility built to meet the Living Building Challenge — designed to be the most stringent green building rating system in the world — of the Cascadia Region Green Building Council (CRGBC). No building has yet met its standard, but the Living Learning Center is in the running to be the first in North America.

The center is designed to be a zero net energy and zero wastewater building — both among the 16 requirements to earn Living Building recognition from the CRGBC. The CRGBC is a chapter of both the U.S. Green Building Council (USGBC) and the Canada Green Building Council (CaGBC).

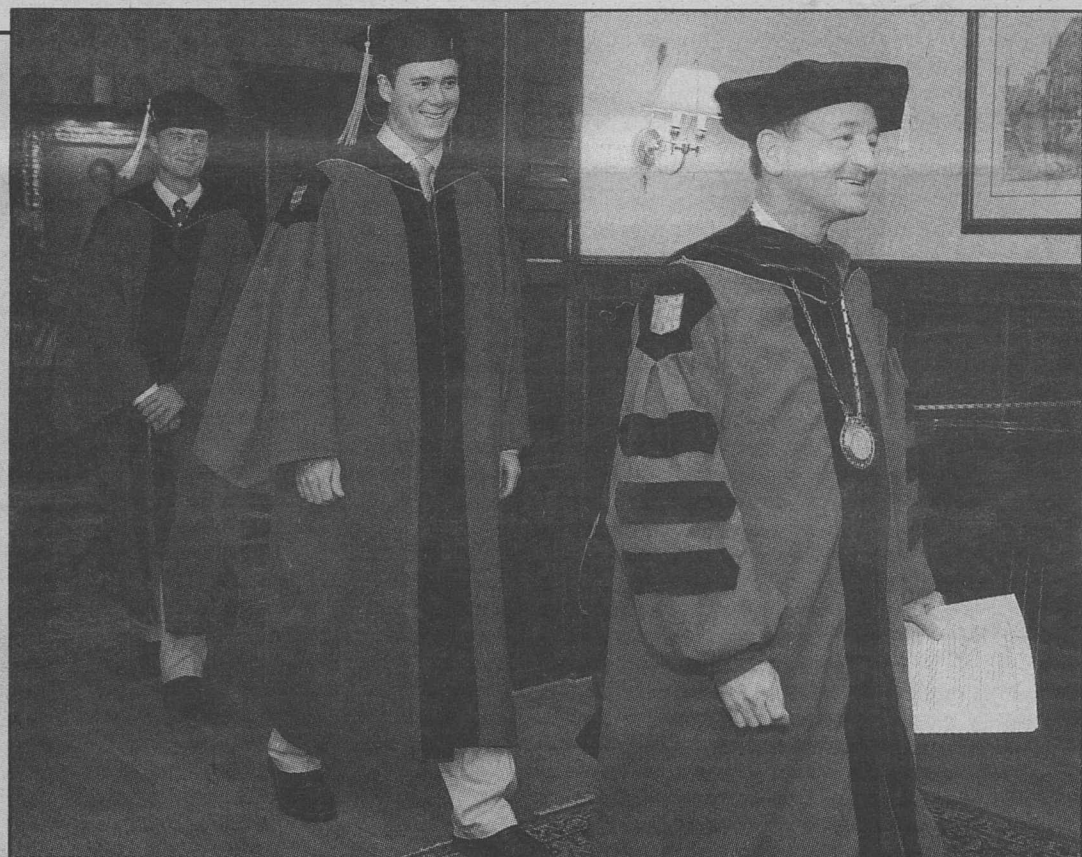
The Living Learning Center will capture rainwater and purify it for drinking and will be powered so efficiently by solar energy that the building often will pump energy back into the electric grid to be purchased by the local energy company.

Other requirements included diverting a high percentage of construction waste (80 percent or more, depending on the material) from landfills and obtaining materials from within a certain mile radius of the construction site to reduce carbon emissions from travel and shipping. Occupational spaces also must contain operable

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Jonathan M. Chase, Ph.D. (left), director of the Tyson Research Center and associate professor of biology in Arts & Sciences; Kathryn G. Miller, Ph.D., professor and interim chair of biology; and Ralph S. Quatrano, Ph.D., the Spencer T. Olin Professor and interim dean of Arts & Sciences, gather outside the Living Learning Center at the opening May 29.



Special Commencement Chancellor Mark S. Wrighton leads Scott Kennedy (center) and Gregg Kennedy into a room at Whittemore House for a special Commencement ceremony for the baseball team May 28. The team missed the May 15 Commencement ceremony because it was making its seventh NCAA Division III tournament appearance. University officials deemed it important to recognize the players for their four-year academic accomplishments. The Kennedy brothers were honored in person, but also recognized during the ceremony were Brian Williams, Andy Webb and Zander Lehmann.

New procedure alleviates symptoms of severe asthma

By GWEN ERICSON

A new drug-free treatment for asthma has been shown to be effective in an international study of patients with severe, uncontrolled asthma.

The results showed statistically significant improvements in quality of life and reductions in asthma attacks and emergency room visits for patients who underwent the treatment.

Conducted at 30 sites worldwide, including the School of Medicine, the trial tested a procedure designed to reduce the ability of the lung's airways to contract and interfere with breathing. The findings were presented in May at the American Thoracic Society International Conference in San Diego.

An acute asthma attack is characterized by contraction of muscle tissue in the airway walls in response to irritation, infection or inflammation. Although drugs can lessen the constriction of the breathing passages in many patients, some patients can't control their asthma symptoms even with high doses of medications. The

new treatment uses a device to heat the walls of the lung's air passages to reduce the amount of muscle tissue and potentially inhibit narrowing of the airways.

"One of the reasons I find this treatment exciting is that many patients with severe asthma are already taking the best drug therapy we have and are still experiencing debilitating symptoms," said the study's lead U.S. investigator, Mario Castro, M.D., professor of medicine and of pediatrics. "This device provides a meaningful new treatment for such patients."

The device is the Alair Bronchial Thermoplasty System, developed by Asthmatx Inc., which funded the study. None of the trial's investigators has a financial interest in the company.

The study, the Asthma Intervention Research 2 (AIR2) Trial, a randomized, double-blind, sham-controlled trial, follows the earlier AIR Trial, completed in 2005. AIR compared bronchial thermoplasty with standard medical care for moderate to severe asthma. That trial showed use of the device reduced asthma exacerbations.

See Asthma, Page 2

Kopp: inequity in education 'a solvable problem'

By JESSICA DAUES

Inexperience and time give recent college graduates an advantage in solving the problems of inequity in education in the United States, said Wendy Kopp to the Class of 2009 during the 148th Commencement ceremony May 15.

"This is a solvable problem," said Kopp, the founder and chief executive officer of Teach For America — a national corps of outstanding college graduates who commit to teach for at least two years in some of the country's highest-need schools.

Since 1990, more than 20,000 individuals have

participated in Teach For America, impacting the lives of approximately 3 million students. Teach For America has provided more teachers for low-income communities than any other organization.

Kopp addressed the crowd of more than 15,000 during the ceremony in Brookings Quadrangle, saying so many Teach For America alumni remain in education because "we've seen the magnitude of the problem and the consequences of it, yes, but mostly because we've learned that it doesn't need to exist."

Recent graduates may be tempted to assume that they will

"address the world's problems later — after you have families or make millions or gain skills and experience," she told the approximately 2,600 students gathered before her.

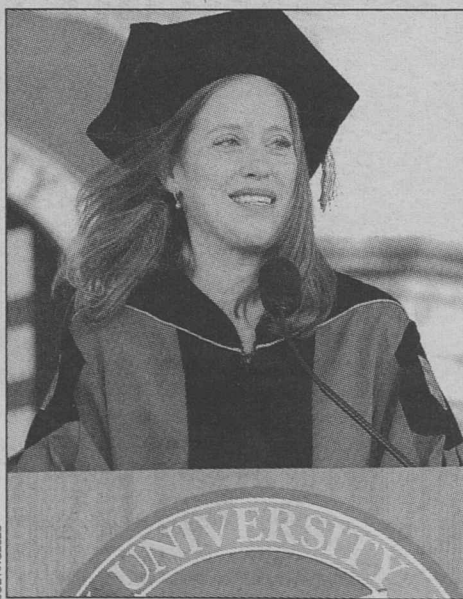
However, "there is something about the fresh perspective, the naivete, the limitless energy that comes along with youth and inexperience that enables recent graduates to solve problems that many more experienced people have given up on," Kopp said.

In addition, Kopp said, solving the world's problems, while possible, takes time — a resource many graduates possess.

Kopp said that it is easy for those who are fortunate enough to have received excellent educations and the opportunities that result to isolate themselves from the inequities that persist in our world. However, "we cannot let this happen because of their magnitude and the consequence for individuals and communities and society and all of us, and especially because of the evidence that these are solvable problems," Kopp said.

"Because if we can solve them, we must," she said. "If educational inequity, or poverty, is solvable, it is the moral responsibility of those of

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Wendy Kopp addresses the Class of 2009.



Bridging cultures as business consultants Olin MBA students (from left) Joanne Miller, Katie Medlin and Melissa Mammel pause on a bridge over the Danube River in Budapest, Hungary. The women, along with five other Olin students, spent eight days this spring in the Hungarian capital as members of the first Danube Venture Consulting group meeting with start-up companies looking to expand their businesses to international markets. The group, which included Olin undergraduates along with Professional MBA and MBA students, will spend the summer working on consulting reports for the Hungarian entrepreneurs. "If their project reports are as good as the impression the students made on their clients, I'm sure we'll be invited back," said group organizer Clifford Hokekamp, senior lecturer in entrepreneurship. A Hungarian venture capital fund hosted the program.

Changes to UnitedHealthcare plans effective July 1

To contain the costs of WUSTL's UnitedHealthcare HMO and POS plans, two program changes will take effect July 1.

These changes are an enforcement of 1) the use of participating network providers for lab testing; and 2) the maximum quantity of a medication for one prescription or co-payment and for a specified time period.

Employees participating in UnitedHealthcare's HMO and POS plans are encouraged to familiarize themselves with the new requirements to avoid paying more out-of-pocket costs for lab testing and prescription drugs.

Employees also are encouraged to share this information with their and their family's doctors so that the doctors can determine the best course of action for employees and family members and employees can avoid additional out-of-pocket costs.

Network provider for lab testing

Effective July 1, if a physician prescribes lab testing for blood, urine, tissue (Pap smear) or other samples for employees or family members outside of a WUSTL School of Medicine lab, a BJC lab or

physician-based office lab, the physician must send the order to Lab Corp, the preferred in-network provider.

If lab-testing orders are processed by Quest Diagnostics or Lab One, these services will not be paid by the WUSTL UnitedHealthcare HMO plan and will be paid as an out-of-network expense by the WUSTL UnitedHealthcare POS plan.

To find the nearest participating lab, visit myuhc.com. If not registered, click on "Find Physician or Facility," and search for "Hospital or Other Facility." Search for a "Laboratory," and under "Select Plan," choose "Choice (HMO)/ Choice Plus (HMO)." Enter a city, state and ZIP code.

If already registered, log in and click on "Physicians & Facilities." Click on "Find a Laboratory," and search for a "Laboratory." Enter a city, state and ZIP code.

Quantity limits

Effective July 1, some medications will be limited to a certain quantity and for a certain period of time for each co-pay under the UnitedHealthcare HMO and POS plans.

Here are some examples of how the program works: An employee receives a prescription for Cozaar

25mg, which is limited to a quantity of 31 pills for a 31-day supply; and another employee receives a prescription for Ambien, which is limited to a quantity of 60 pills within a 90-day period.

If the physician wrote the prescription for Cozaar 25mg for a quantity of 42 or for Ambien for a period of 60 days, the employee can: 1) accept the allowed quantity of 31 pills or allowed period of 90 days; 2) pay out-of-pocket for the additional quantity; 3) discuss alternatives with their physician; or 4) request a coverage review for those prescription drugs that do have override criteria.

The quantity and period limits for both of these programs are based on Food and Drug Administration guidelines, manufacturer guidelines and medical literature.

To determine if a specific medication has a quantity limit, visit myuhc.com. Click on "Prescription Drug Information," and then "Prescription Drug List." Medications with supply limits are marked with an "SL." Employees also may call the customer service number on the back of their UnitedHealthcare ID cards: 800-382-3210.

Contact the benefits department with any questions.

touch the airway walls and deliver heat. The thermoplasty treatments took place in three sessions, three weeks apart, and each session targeted a different area of the lungs.

During this treatment period, some patients in both groups experienced upper respiratory tract infections and a worsening of asthma symptoms such as wheezing, chest discomfort and cough. The treated group had somewhat more of these side effects during the treatment period but fewer during the post-treatment period compared with the sham group.

"Patients considering the procedure will want to balance the possible risk of adverse events with the potential benefit," Castro said. "There's no one answer for every patient. Each person feels differently about the impact of their asthma and what they might be willing to do to alleviate it. That's going to have to be a personal decision in consultation with their physicians."

Before the thermoplasty procedure will be available to patients outside of the trial, the U.S. Food and Drug Administration (FDA) must approve the device for use in the treatment of asthma. Asthmatix has submitted it for FDA review, and a ruling is expected by fall.

College Savings Initiative aims to advance college success for all families

The New America Foundation and Center for Social Development (CSD) at Washington University announced May 21 a new College Savings Initiative to examine and improve 529 college savings plans so more people have the opportunity to attend and complete college.

"This initiative couldn't be more timely," said Ray Boshara, vice president of domestic policy programs at New America. "Vice President Biden recently said the Obama administration was committed to improving 529s to help achieve college affordability and completion, and President Obama has called for Americans to 'move from an era of borrow and spend to one where we save and invest.'"

State-sponsored 529 college savings plans were established to encourage families to save money for post-secondary education. Money contributed to these plans grows free from federal and state taxes, and contributions are tax-deductible in most states.

Unfortunately, 529s have yet to reach their full potential for low- and moderate-income families who have the most difficulty saving for their children's education. In other words, those who face the most barriers to sending their children to college receive the fewest 529 benefits.

"Saving money is not easy, but research shows many people can save when they have incentives and a way to do so," said Margaret Clancy, policy director at CSD. "More low-income families may save with well-designed 529s and incentives. We will study 529 innovations to see which ones are effective. This will inform 529 policy so that it can benefit families of all income levels."

"I've learned that if families are not preparing for college financially, then they're probably not preparing in other ways as

well," said Jacqueline T. Williams, director of the College Savings Initiative at New America. "That's one of the reasons 529s are exciting — they focus both the mind and money on college."

"Research indicates that saving and asset holding are associated with educational achievement," said Michael Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development and director of CSD. "There is evidence that savings for college may focus attention of parents and children on postsecondary education, affecting their outlook, orientation, course selection, discipline and academic achievement."

Some states have established programs to better include lower- and moderate-income families in 529 plans — including outreach, initial deposits, matching deposits, low fees and setting up 529s at birth. In Maine, a philanthropist has be-

queathed money to set up a 529 plan for every newborn.

"Structured and invested properly, 529s hold enormous, untapped potential to get more students, especially those least likely headed to college, on a path to attend and complete college," Boshara said.

The College Savings Initiative will examine a number of new ideas, including how 529s might connect to federal tax and student aid policies. The initiative also will study the potential to automatically open a 529 for every child when they enroll in kindergarten, to enable them to save and think about college from an early age.

"In the United Kingdom, all children now start their lives with a savings account in the Child Trust Fund," Sherraden said. "If college savings research continues to be promising, perhaps the United States will consider a similar policy."

For more information on the initiative, visit collegesavingsinitiative.org.

"I've learned that if families are not preparing for college financially, then they're probably not preparing in other ways as well. That's one of the reasons 529s are exciting — they focus both the mind and money on college."

JACQUELINE T. WILLIAMS

Asthma

'There's no one answer for every patient'
— from Page 1

bations and provided more symptom-free days than standard care.

But past research has shown that almost any medical procedure has the potential for a placebo effect or to cause a benefit not related to actual treatment. So the larger AIR2 trial compared patients who had bronchial thermoplasty with patients who had a sham procedure. In the sham procedure, all the instrumentation looked and sounded the same, but no heat was applied to airway tissue. In all, 297 patients participated in AIR2, two-thirds receiving the bronchial thermoplasty procedure and one-third getting the sham treatment. All patients were followed for one year.

During the post-treatment period, the treated group had an average 32 percent reduction in the rate of severe exacerbations and 84 percent fewer visits to the emergency department for respiratory symptoms compared with the sham group. Further, the treated group missed fewer days of work or school due to asthma symptoms, had more symptom-

free days and needed rescue medication (fast-acting bronchodilators) less often than the sham group.

The researchers also determined how well patients responded using a standard quality-of-life questionnaire, which measured the physical and emotional impact of asthma.

For both groups, the quality-of-life score rose, but the treatment group reported a greater improvement. Starting at an average score of 4.3 on a scale of one to seven (seven indicating high quality of life), the treated group experienced an average increase of 1.35, while the sham group saw an increase of 1.16. The difference in scores between the groups was statistically significant.

"Although we were expecting the sham group to improve, the amount of their improvement surprised us," said Castro, also director of the Asthma Center and Pulmonary Function Laboratory. "Nevertheless, it was clear that the treatment did benefit most patients who received it."

Patients were sedated during the procedure, which involved inserting the catheter of the Alair device deep into the main air passages of the lungs. The catheter has an expandable wire array at its tip. When deployed, the wires

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News & Comments
(314) 935-5293
Campus Box 1070
record@wustl.edu

Medical News
(314) 286-0119
Campus Box 8508
millerbe@wustl.edu

Calendar Submissions
Fax: (314) 935-4259
Campus Box 1070
recordcalendar@wustl.edu

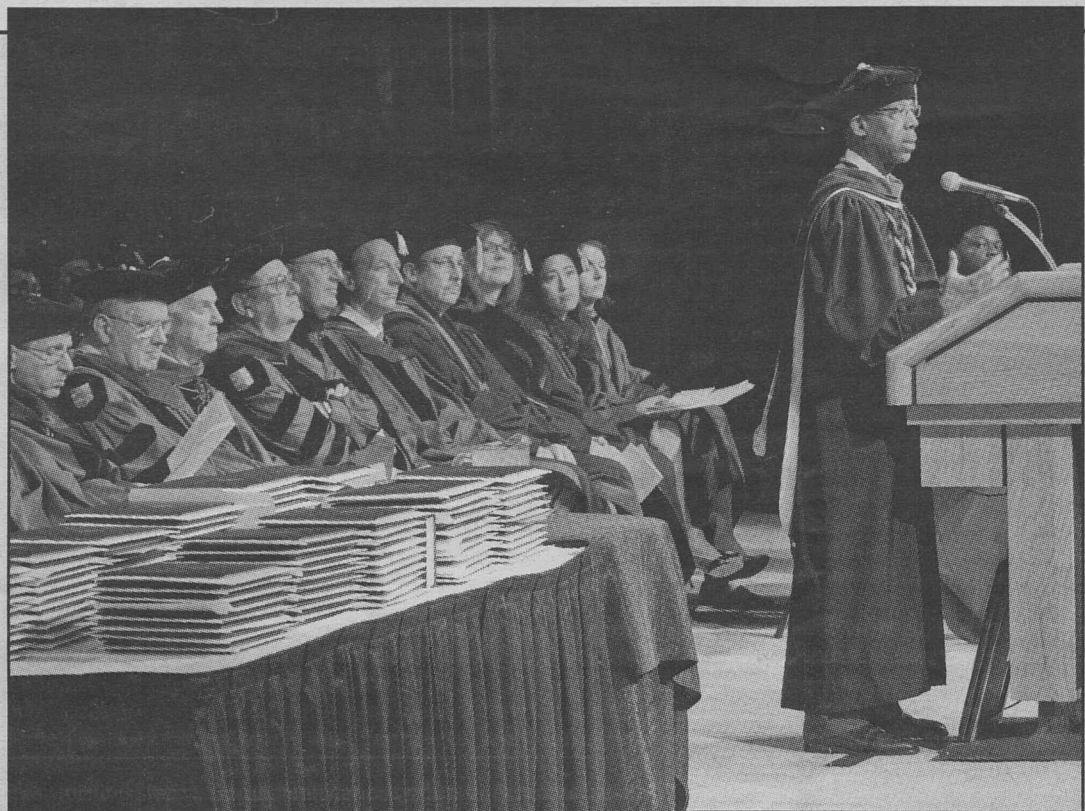
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Washington University in St. Louis

School of Medicine Update



Celebrating accomplishments Michael V. Drake, M.D., chancellor of University of California, Irvine, speaks to graduates and faculty of the School of Medicine on "The Privilege of Practice" at the School of Medicine Commencement Recognition Ceremony May 15 in the Ferrara Theater at America's Center. At the ceremony, 16 students earned M.D./Ph.D. degrees, 13 earned M.D./M.A. degrees, four earned M.D./M.S. degrees, and 78 earned M.D. degrees.

Brain's organization switches as children become adults

By MICHAEL C. PURDY

A child confronting an outraged parent demanding to know "What were you thinking?" now has a new response: "Scientists have discovered that my brain is organized differently than yours."

But the same new study also provides parents with a rejoinder: While the overarching organization scheme differs, one of the most important core principals of adult brain organization is present in the brains of children as young as 7.

"Regardless of how tempting it might be to assume otherwise, a normal child's brain is not inherently disorganized or chaotic," said senior author Steven E. Petersen, Ph.D., the James McDonnell Professor of Cognitive Neuroscience. "It's differently organized but at least as capable as an adult brain."

The findings are published online in Public Library of Science Computational Biology by School of Medicine and Oregon Health and Science University researchers.

Petersen and his colleagues study normal brain organization and development to learn more about how developmental disorders and brain injury can impair mental capabilities. They plan to apply what they learn to develop new treatments for such disorders.

The researchers use resting-state functional connectivity MRI to identify and study brain networks. Resting-state connectivity scans the spontaneous activity that takes place in volunteers' brains when they do nothing. When this brain activity rises and falls at the same time in different brain regions, researchers conclude that those areas likely work together.

Through such studies, scientists previously revealed four brain networks with varying responsibilities in the adult brain. The networks typically involve tight links between several brain regions that are physically distant from each other. However, the new study showed that most of the tightest connections in a child's brain are between regions that are physically close to each other.

Damien A. Fair, Ph.D., a former WUSTL graduate student now at Oregon Health and Science University, and Alexander L. Cohen, a WUSTL graduate student, led the study and directed analysis of data from 210 subjects ranging from 7 to 31 years old.

"We took a group of the youngest subjects, analyzed their results, then dropped data from the youngest and added data from the next-oldest and redid the analysis until we had worked our way through all subjects," Fair said. "The result was a detailed movie of how the organizational transition from a child's brain to an adult's brain takes place. It clearly shows a switch from localized networks based on physical proximity to long-distance networks centered on functionality."

Researchers also checked children's brains for "small-world" organization, also present in adult brains. This is sometimes called

"Kevin Bacon" organization after the trivia game known as "Six Degrees of Kevin Bacon." The game highlights the ease of connecting any actor or actress to Kevin Bacon in six movies or less through links among various co-stars.

"It's the idea of a large network that lets you connect one node with another in a relatively short number of steps via special nodes," Fair said. "Like Kevin Bacon, these special nodes have many connections to other nodes, allowing them to help shorten the amount of steps that have to be taken when connecting nodes."

Scientists already knew that children had fewer long-distance links among brain regions than adults, but when they looked more closely, they found there were enough of these links and nodes with multiple connections to establish small-world organization.

Body's 24-hour clock turns gears of metabolism, aging

By GWEN ERICSON

All animals, including humans, have an internal 24-hour clock or circadian rhythm that creates a daily oscillation of body temperature, brain activity, hormone production and metabolism.



Imai

that govern aging and metabolism.

Reported in *Science*, their findings can potentially explain why the waning of the circadian rhythm with age could contribute to age-related disorders such as insulin resistance and type 2 diabetes.

"Our study establishes a detailed scheme linking metabolism and aging to the circadian

rhythm," said one of the lead authors, Shin-ichi Imai, M.D., Ph.D., associate professor of medicine and of developmental biology. "This opens the door to new avenues for treating age-related disorders and ways to restore a healthy daily circadian rhythm. It also could yield new interventions to alleviate metabolic disorders such as obesity and diabetes."

Imai previously demonstrated that a gene called SIRT1 was at the center of a network that regulates aging. A form of the gene is found in every organism on earth, and seven forms of the gene exist in humans.

SIRT1 influences glucose breakdown and production, cholesterol metabolism, fat burning, and insulin sensitivity. Increasing the activity of proteins related to SIRT1 extends the life span of yeast, worms and flies. SIRT1 is activated when calories are restricted below normal, which has been shown to extend the life spans of some laboratory animals until food becomes more readily available.

Imai's collaborator in the

Link between eczema, asthma discovered

By GWEN ERICSON

Many children who get a severe skin rash develop asthma months or years later. Doctors call the progression from eczema, or atopic dermatitis, to breathing problems "the atopic march."

Now School of Medicine scientists have uncovered what might be the key to atopic march. They've shown that a substance secreted by damaged skin circulates through the body and triggers asthmatic symptoms in allergen-exposed laboratory mice.

The findings, published May 19 in *Public Library of Science Biology*, suggest that early treatment of skin rash and inhibition of the trigger substance might block asthma development in young patients with eczema.

Fifty percent to 70 percent of children with severe atopic dermatitis go on to develop asthma, studies show. By comparison, about 9 percent of children and 7 percent of adults in the general population have asthma. Seventeen percent of U.S. children suffer from atopic dermatitis, although not all cases are considered severe.

"Over the years, the clinical community has struggled to explain atopic march," said study author Raphael Kopan, Ph.D., professor of developmental biology and of dermatology. "So when we found that the skin of mice with an eczema-like condition produced a substance previously implicated in asthma, we decided to investigate further. We found that the mice also suffered from asthma-like responses to inhaled allergens, implicating the substance, called TSLP (thymic stromal lymphopoietin), as the link between eczema and asthma."

Doctors and scientists had developed theories to explain why a skin rash is sometimes associated with asthma. Kopan's findings suggest the problem starts with damaged or defective skin. The researchers found that cells in damaged skin can secrete TSLP, a compound capable of eliciting a powerful immune response. And

because the skin is so effective in secreting TSLP into the blood, the substance travels throughout the body. When it reaches the lungs, it triggers the hypersensitivity characteristic of asthma.

Led by Shadmehr (Shawn) Demehri, a doctoral student in the Division of Biology and Biomedical Sciences, the researchers studied mice that had been engineered with a genetic defect in patches of their skin. In the affected areas, the typically ordered layers of skin cells were disrupted, creating a condition similar to eczema. These patches were thickened and inflamed. The defective skin secreted TSLP, activating an immune response that fights invaders.

Assuming that other barrier organs such as the lung would understand this alarm, the researchers tested what happened when the mice with skin defects inhaled an allergen. They found that their lungs reacted strongly

— their breathing became labored and their lung tissue took on the traits that mark asthma in humans: mucous secretion, airway muscle contraction, invasion by white blood cells and conversion of lung cells from one type to another. Additional experiments showed that mice that had normal skin but were engineered to over-produce TSLP also developed the asthma-like symptoms.

"We are excited because we've narrowed down the problem of atopic march to one molecule," Kopan said.

"We've shown that skin can act as a signaling organ and drive allergic inflammation in the lung by releasing TSLP," he said. "Now it will be important to address how to prevent defective skin from producing TSLP. If that can be done, the link between eczema and asthma could be broken."

TSLP is also produced in the lungs of asthma patients, and Kopan said that research in the skin could lead to ways to interfere with TSLP made in the lungs and thereby ease asthma development even in cases that aren't linked to eczema.



Kopan

University Events

Jazz at Holmes summer series begins June 11

The Linda Presgrave Quintet will launch the summer Jazz at Holmes series with a free concert at 8 p.m. Thursday, June 11.

The series, which began in 1996, features professional jazz musicians from St. Louis and abroad performing in Holmes Lounge — a casual, coffeehouse-style setting — on Thursday evenings throughout the fall, spring and now summer.

"We're delighted that Jazz at Holmes has become a year-round — and much anticipated — part of the St. Louis music scene," said Steve Ehrlich, associate dean for academics in University College in Arts & Sciences, who helps coordinate the series. "In the summer especially, these top-flight musicians can really help keep things cool."

Linda Presgrave is a pianist and former St. Louisan who lives and performs in New York City, where she recently released her debut CD, "In Your Eyes," on the Metropolitan Records label.

Presgrave's quintet includes her husband, Stan Chovnick, on soprano saxophone, along with trumpeter Randy Holmes, bassist Dave Troncoso and drummer Jim Guglielmo.

Jazz at Holmes will continue June 18 with Curt Landes (aka Gaptoo), the St. Louis pianist and vocalist. Next up, June 25, will be the Legacy Jazz Quintet with Phil Dunlap. The performance will feature Dunlap on piano, along with saxophonist Jason Swagler, trumpeter Anthony Wiggins,

Jazz at Holmes summer schedule

June 11: Linda Presgrave Quintet
June 18: Pianist-vocalist Curt Landes
June 25: Legacy Jazz Quintet with pianist Phil Dunlap
July 9: Trumpeter Dawn Weber and her group
July 16: Trombonist Wayne Coniglio
July 23: Quartet of pianist Nathan Jatcko

drummer Mary Morrison and bassist Jahmal Nichols.

Trumpeter Dawn Weber will perform with her group July 9. Though known for performing a combination of jazz and urban soul music, Weber also has performed with orchestras throughout the United States, including the Saint Louis Symphony Orchestra.

Then, July 16, trombonist Wayne Coniglio — a former bass trombonist for the Ray Charles Orchestra — will perform with his ensemble.

The Jazz at Holmes summer series will conclude July 23 with the quartet of pianist Nathan Jatcko.

All concerts are free and open to the public. For more information, contact Sue Taylor at 862-0874 or staylor@wustl.edu.

Gateway Festival Orchestra opens 46th season with American classics

The Gateway Festival Orchestra will begin its 46th season of free Sunday evening performances at 7:30 p.m. July 12 in Brookings Quadrangle with a program celebrating American music.

James Richards, chair of the Department of Music at the University of Missouri-St. Louis, conducts the orchestra, which also will perform July 19 and 26.

The July 12 concert will highlight the music of Broadway, with orchestral excerpts from "Wicked" and other popular musicals.

The orchestra also will perform the "Armed Forces Salute," a medley of official songs representing each branch of the armed forces, arranged by Robert Lowden; the iconic march "The Stars and Stripes Forever" by John Philip Sousa; and "Gypsy Airs" by Pablo Sarasate.

Soloist for "Gypsy Airs" will be 12-year-old violinist Rebekah Heckler of Godfrey, Ill. Heckler serves as concertmaster of the Alton Youth Orchestra and performs with the Saint Louis Symphony Youth Orchestra.

For the July 19 concert, Richards has chosen a selection of works representing the major composers of the Viennese Classical era.

The program will open with the overture to the opera "Così fan tutte" by Wolfgang Amadeus Mozart. David Gillham — violinist in the Arianna String Quartet and associate professor of music at UMSL — will be featured artist for the "Concerto in C Major for Violin and Orchestra" by Franz Joseph Haydn. Concluding the program will be "Symphony No. 3 in E-flat Major" ("Eroica") by Ludwig van Beethoven.

The final concert, on July 26, will juxtapose works by Old World and New World composers.

Representing the Old World are Beethoven's overture to his incidental music for the ballet "The Creatures of Prometheus" and Johann Sebastian Bach's "Concerto in E Major for Violin and Orchestra," the latter featuring soloist

Jasmine Scott of Smithton, Ill. Scott plays in the Saint Louis Symphony Youth Orchestra and was a 2009 winner at the Alton Symphony Orchestra's Young Artist Competition.

Representing the New World is "City by the Lake: a Portrait of Rochester, New York," by Samuel Adler. Born in Germany in 1928, Adler emigrated to the United States with his family in 1939. He is professor emeritus at the Eastman School of Music in Rochester and teaches composition at the Juilliard School of Music in New York.

Concluding the concert — and spanning both Old and New Worlds — will be "Symphony No. 9 in E minor (From the New World)" by Czech composer Antonin Dvorak. From 1892-95, Dvorak served as director of the National Conservatory of Music in New York City, during which time he composed both the "New World Symphony" and his "String Quartet No. 12 (American)."

The Gateway Festival Orchestra was established in 1964 by conductor William Schatzkammer, professor emeritus in piano in the Department of Music in Arts & Sciences, and other local musicians, in part to provide summer employment to members of the Saint Louis Symphony Orchestra.

Gateway was the first integrated professional orchestra in the St. Louis area, and its formation ultimately led to the merger of the Black Musicians' Association with the Musicians' Association of St. Louis (now Local 2-197 of the American Federation of Musicians). The group originally performed on the downtown riverfront but relocated to WUSTL in 1970.

All concerts are free and open to the public. Those attending are encouraged to bring lawn seating.

For more information, contact the Gateway Festival Orchestra at 569-0371 or visit gatewayfestivalorchestra.org.

Twilight • Nosferatu

"University Events" lists a portion of the activities taking place June 11-July 22 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (news-info.wustl.edu/calendars) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

"Expressions of Jewish Life Through Texts and Objects." Through June 28. Olin Library, Lvl. 1, Grand Staircase Lobby and Ginkgo Rm. 935-4151.

"MFA Thesis Exhibition." Through July 27. Kemper Art Museum. 935-4523.

"Rirkrit Tiravanija: Chew The Fat." A multifaceted video installation. Through July 27. Kemper Art Museum. 935-4523.

Films

Wednesday, June 17

7 p.m. Summer School Film Series. "Fateless" (Hungary, 2005). Lab Sciences Bldg., Rm. 250. 935-6720.

Thursday, June 18

7 p.m. Summer School Film Series. "Twilight" (2008). Lab Sciences Bldg., Rm. 250. 935-6720.

Wednesday, June 24

7 p.m. Summer School Film Series. "Jacob the Liar" (East Germany, 1975). Lab Sciences Bldg., Rm. 250. 935-6720.

Thursday, June 25

7 p.m. Summer School Film Series. "Nosferatu" (1922). Lab Sciences Bldg., Rm. 250. 935-6720.

Wednesday, July 1

7 p.m. Summer School Film Series. "Life is Beautiful" (Italy, 1997). Lab Sciences Bldg., Rm. 250. 935-6720.

Thursday, July 9

7 p.m. Summer School Film Series. "Vampire Hunter D Bloodlust" (2000). Lab Sciences Bldg., Rm. 250. 935-6720.

Thursday, July 16

7 p.m. Summer School Film Series. "Blacula" (1972). Lab Sciences Bldg., Rm. 250. 935-6720.

Lectures

Thursday, June 11

1 p.m. Psychiatry Symposium. Honoring Barbara Geller's contributions to research, clinical care and education in child psychiatry. (Reception follows.) Farrell Learning and Teaching Center, Connor Auditorium. 362-8076.

Friday, June 12

9:15 a.m. Pediatric Grand Rounds. "Navigating the Cardiac Conduction System — Insights Into AV Node Physiology." Avihu Gazit, instructor in pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

And More

Friday, June 19

9:15 a.m. Pediatric Grand Rounds. Resident Awards Ceremony and Graduating PL3 Presentations. Clopton Aud., 4950 Children's Place. 454-6006.

Monday, June 29

9 a.m.-4 p.m. HIV Test Fest. (Continues through July 2.) Free, confidential HIV testing. Storz Bldg., 4570 Children's Place. 747-1244.

Green Your Office

Reduce work travel by arranging conference and video calls.

Sports

Women's track has best-ever finish

The women's track and field team capped the 2009 NCAA outdoor track and field championships with its best finish in school history May 23, coming in fifth overall with 28 points.

The team trailed Gustavus Adolphus College by six points heading into the final two events of the day — the 5,000-meter run and the 4x400-meter relay — and needed to score in both events to have a shot at cracking the top five for the first time in school history.

Up first was sophomore Taryn Surtees, who delivered a sixth-place finish with a time of 17:24.12, adding three points to the WUSTL total to bring the Bears to just three points behind Gustavus Adolphus.

Both schools were represented in the 4x400-meter relay, and seniors Erika Wade, Alli Alberts, Krystyn Stowe and Danielle Wadlington ran to a fourth-place finish with a season-best time of 3:48.28. Wadlington anchored the relay and took the baton in seventh place overall, but she powered her way to fourth and fell just 0.01 shy of Wheaton College's third-place time.

The Gustavus Adolphus 4x400 team came in eighth place in the race, meaning the Bears vaulted over them for fifth-place overall by a single point.

Also at the meet, the men's team tallied seven points to tie for 44th place.

Baseball finishes season at 25-12

Despite ending with a loss to No. 5 Carthage College May 16 in the Central Regional of the NCAA



Zander Lehmann was the first baseball player in WUSTL history to earn academic All-America honors.

Division III tournament, the baseball team's season was a success. The Bears had a 25-12 overall record and made their fourth postseason appearance in five seasons. It also was WUSTL's seventh NCAA tournament appearance overall.

Senior right fielder Zander Lehmann was selected to the 2009 ESPN the Magazine Baseball Academic All-America First-Team, as announced by the College Sports Information Directors of America.

Lehmann is the first baseball student-athlete in WUSTL history to earn first-team academic All-America honors and the University's seventh overall in all sports. Lehmann earned a bachelor of arts in psychology in Arts & Sciences last month with a 3.85 cumulative grade-point average.

Follmer named National Coach of the Year

Men's tennis coach Roger Follmer has been named the 2009 Wilson/Intercollegiate Tennis Association NCAA Division III National Coach of the Year. Follmer earned the award for the second time in his career. He also won the award

in 2006.

The men's tennis team completed one of its best seasons in school history with a fourth-place finish at the NCAA Division III championship in Claremont, Calif., May 21.

The Bears set a school single-season record for wins with a 22-4 overall record and posted a school-record 19-match winning streak that lasted from March 11-May 20.

WUSTL also captured its first University Athletic Association tennis team championship with a 5-4 win over Emory University April 17 in Rochester, N.Y.

17th Annual W Club Golf Scramble

It's not too late to sign up for the 17th Annual W Club Golf Scramble Monday, June 15, at the Meadowbrook Country Club in Ballwin, Mo. This event is the biggest fund-raiser of the year for the W Club and is very important for the student-athletes.

Even if you're not a golfer, there are many ways to participate in this fund-raiser. For more information, contact Joe Worlund at 935-5247.

WUSTL earns four safety awards from national organizations

Many Washington University employees have been working hard to make the WUSTL community a safe place for all of its members to work, study and live.

This spring, the success of these efforts was recognized with four safety awards from national safety organizations. The University received three awards from the National Safety Council (NSC) for demonstrating the safety of WUSTL work environments and one from the Campus Safety, Health and Environmental Management Association (CSHEMA) for its crisis communications planning.

"It is gratifying to see University departments embrace safety as part of their culture," said Bruce Backus, assistant vice chancellor for environmental health and safety. "The best safety programs encourage all students, staff and faculty to raise safety concerns. They then work collaboratively to improve safety and make it an ongoing top

priority for their program."

The NSC presented WUSTL with its 2009 "Occupational Excellence Achievement Award," which recognizes employers that have injury and illness rates (days missed from work) that are equal to or less than 50 percent of the Bureau of Labor Statistics' rate for the employer's particular industrial sector during the previous calendar year. According to Backus, WUSTL's injury/illness rate was less than half of the rate for the colleges and universities sector.

The Danforth Campus Facilities Planning and Management, Maintenance Operations Division, received the NSC's 2009 "Recognition of Significant Improvement Award" for reducing the number of injuries and illnesses that involved days away from work within its operation by greater than 20 percent, based on a comparison against the prior year's performance.

The Medical School Facilities

Management Department, Facilities Engineering Division, received the NSC's 2009 "Milestone Award" in recognition of operating 200 consecutive days within its facility without injury or illness that resulted in days away from work. (As of June 5, the division is up to 270 days.)

CSHEMA awarded WUSTL its 2009 "Solutions at Work Award," which recognizes unique and innovative solutions for safety issues, for the University's "Where to Go" campaign and emergency preparedness efforts.

This award recognizes Public Affairs' efforts in developing the "Where to Go" campaign with Environmental Health & Safety, the development by Public Affairs of the WUSTL Emergency Communications Plan and the Public Affairs' Crisis Management Team, and the various communication systems — emergency text-messaging, sirens, emergency hotline — developed by Information Systems and

Telecommunications, Facilities Planning and Management, Public Affairs and Environmental Health & Safety.

Additions to EH&S Web site

The Department of Environmental Health & Safety (EH&S) has added an online safety recommendation form and a safety perception survey to its Web site, ehs.wustl.edu.

The safety recommendation form allows faculty, staff, students and visitors to submit safety concerns and suggestions to EH&S. These suggestions will be shared with the appropriate departments, such as police and facilities.

The safety perception survey is a tool to gain knowledge about people's attitudes and perceptions about safety.

The information will be used to improve safety practices within the University community.

For more information, call Brad King, University safety officer, at 935-9262.

Tamara King receives Gloria White service award

By JESSICA DAUES

Though many students interact with Tamara King, J.D., director of judicial programs, during less-than-ideal circumstances, King's fair-minded approach and interest in education has helped guide countless WUSTL students to learn from their mistakes and make wise decisions.

King was recognized with the Gloria W. White Distinguished Service Award in a May 18 ceremony in Edison Theatre. The award provides recognition to a nonacademic staff member for exceptional effort and contributions that have resulted in the betterment of the University.

As the director of judicial programs since 1999, King works through difficult situations involving students, parents and other members of the WUSTL community on a daily basis, helping to make decisions that greatly impact students and the University.

"Students meet with her because something bad has happened, but they leave as better people because of the time they have spent with her," one colleague said of King.

In addition to her efforts to help students, King also mentors

fellow staff members at WUSTL and associates outside the University.

"I can think of many colleagues, both at Washington University and in the field of student affairs, who would say that she has helped them to achieve their current leadership role," a nominator wrote of King.

King, a national leader in the field of college and university judicial affairs, recently began a term as president of the Association for Student Conduct Administrators, the national association for college and university judicial officers.

The Gloria W. White Distinguished Service Award was established 12 years ago and is presented annually. It comes with a \$1,000 prize.

After the awards presentation, which included recognition of employees for 10, 15, 20, 26, 30, 35 and 40 years of service, employees enjoyed Ted Drewes frozen custard in Bowles Plaza.

Other employees won door prizes at the service awards ceremony.

Patricia Gregory, Vicki Mueller and Cindy Zelenovich each won two tickets to an upcoming St. Louis Cardinals game, and Carole Angle and Jennifer



Tamara King, J.D., director of judicial programs, accepts the Gloria W. White Distinguished Service Award in a May 18 ceremony at Edison Theatre. The award recognizes a staff member who has significantly contributed to the betterment of the University.

Ochoa each won two tickets to the MLB All-Star FanFest.

Lucy Morlan received a \$25 gift certificate and a case of root beer from Fitz's American Grill & Bottling Works. Sandra Cooper won \$50 in restaurant gift certificates.

Leslie Heusted won two tickets to three 2009-10 OVATIONS Series performances. Cris

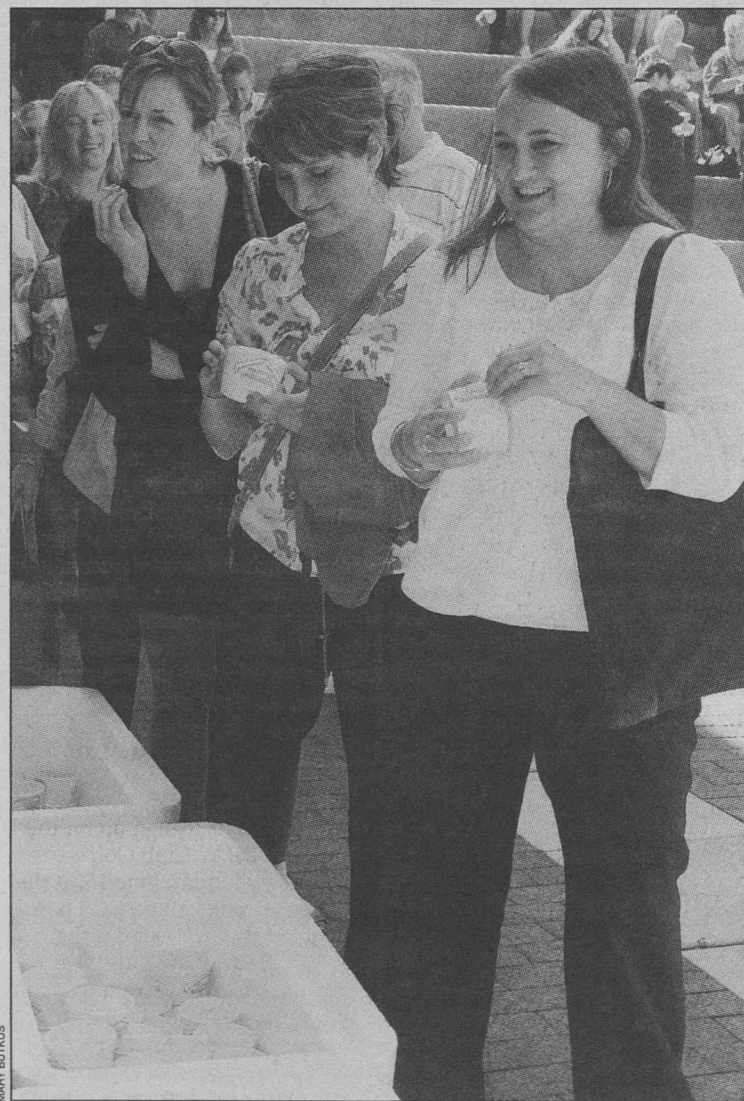
Baldwin won six AMC movie tickets, and Chris Bayless won four Wehrenberg movie tickets.

Mary Danner received two round-trip tickets from American Airlines. Sherry Holmes won one night and breakfast for two at the Sheraton Clayton Plaza Hotel St. Louis. Tomea M. Mersmann won a night's stay at the Moonrise Hotel in the Loop. Phil Gallimore

won a Sunday brunch for two at the Ritz-Carlton.

WUSTL employees donated 385 pounds of food to the St. Louis Area Food Bank May 18 — more than twice the 170 pounds donated at the event last year by staff members.

The 385 pounds of food will provide 308 meals for St. Louis-area needy.



After the awards ceremony, employees line up for Ted Drewes and enjoy the sunny day in Bowles Plaza.

Employees honored for years of service

At the service awards ceremony, the following people were recognized for **10 years of service** to the University: Clark O. Ammons, Andrea J.

Atkinson, Debra D. Baldrige, Edward J. Barry, Yondell J. Bass, Daniel A. Blake, Gant E. Bloom, Billy Bowden, Lisa M. Braun, Todd A. Brooks, Tamara Casanova, Julie L. Chapman, Margaret M. Clancy, Jerry B. Cook, Patrick S. Curtis, Patrick Daven, Tracy E. Davis, Paul J. Duggan, Sallie Durbin, Kelli L. Eckman, L. Kathleen Ems;

Rita R. Ferry, Joseph Fox, Jane K. Friesz, Brian K. Gaddy, Patricia Hale, Linda M. Hilderbrand, James W. Johnson, Alfredia D. Jones, Deborah Katz, Donna M. Kopley, Bradley J. King, Alan S. Kuebler, Stephanie N. Kurtzman, Scott J. Ladewig, Mary Ann Layton, Carlos M. Lewis, Richard Luenemann, David A. McKinnon, Ivana A. Medich, Tomea M. Mersmann, Patrick S. Moreton, Gregory Mosley, Kimberly M. Mount, Susan Nickrent, Gregory P. Noelken, Sharolyn P. Norphet;

Jennifer Patterson, Gwendolyn F. Patton, Anita Radcliffe, Nancy R. Rubin, Janis L. Schade, Kathleen M. Schillinger, Karen E. Schwelle, Julie Shimabukuro, Julia T. Simpson, Tim Souers, Keith Steinbrueck, Sylvia L. Stoll, Gloria Stukenbroeker, Victoria J. Sullivan, Jeffrey Todisman, Patricia A. Topping, Simona Tripodi, Rick Tyler, Steven Vance, Alison F. Verbeck, Scott K. Waggoner, William

R. Wainwright, Janice D. Warren, Barbara K. Weathers, Janalie M. Weller, Larry L. Williams and Aris Woodham.

The following people were honored for **15 years of service**: Roberta J. Allen, Fannie M. Batt, Elaine P. Berland, Sherilyn Y. Brown, Nancy Buchanan, Arika A. Cannon, Richard D. Chiles, Brenda K. Christensen, Mary C. Cissi, Lucinda C. Cobb, Nancy C. Cummings, Holly C. Edmiston, Jill A. Edwards, Raymond A. Ehrhard, Colleen K. Erker, Carolyn M. Gerber, Lynn R. Giardina, Elmer Guy, Janet Hessel, Karen E. Hudgins, Sandra E. Jurgenson, Mary E. Kastens, Marcella G. Knibb, Richard A. Lessmann, Denise A. McCartney, James G. McDonald, Diane M. Mounts, Gerry Rohde, Denise R. Saim, Rose Mary Schultze, Rita A. Stanley, William S. Stoll, Jill A. Stratton, Karl E. Topp, Vicki L. Touhey, Holly C. Weller, Betha L. Whitlow and Laura Williams.

The following people were recognized for **20 years of service**: Patricia A. Agnew, Joseph A. Angeles, Diane M. Anthony, Carol M. Antoniewicz, Matthew K. Arthur, Georgia L. Binnington, Sandra J. Brennan, Gary N. Broyles, Felicia M. Campbell, Martin A. Cavanaugh, Margie E. Craig, Teri L. Dent, Gerry Everding, Nancy K. Galofe, Susan M. Halvorson, Eric Inazaki, Lovell Johnson, Rhonda L. Kiely, Larry H. Kindbom, Joyce M. Kniepkamp, Nancy M. Lutz, Raye L.

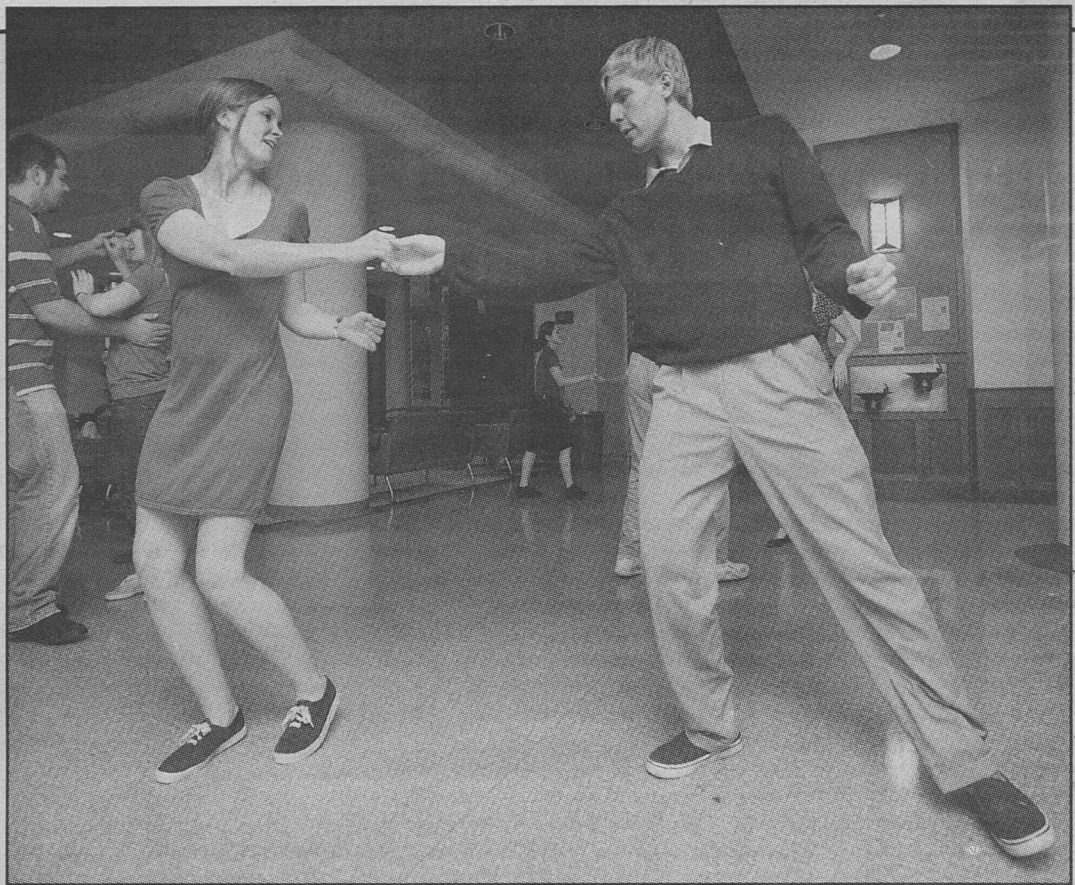
Mahaney, Douglas M. March, Lynda Markham, Deborah L. Marks, James M. McGuire, Linda M. Mendel, Patricia A. Orf, Elizabeth A. Peterson, Daniel A. Pickett, Elaine E. Pittaluga, Anne M. Posega, Steven G. Rackers, Noreen H. Satterlee, Sharon Stahl, David D. Waddell, Renita L. Weathersby, William V. Westerheide, Elizabeth C. Williams and Christine F. Wyrick.

The following people were honored for **26 years of service**: Helene C. Abrams, Garrie R. Burr, Cheryl B. Casanova, John C. Davidson, Carol N. Doelling, Dwight W. Dunbar, Michael G. Dyer, Ida H. Early, Kary N. Eckrich, Patricia H. Howard, Terry K. Keebler, Susan M. Killenberg McGinn, Thomas W. Kirk Jr., David Z. Million, Karen D. Rensing, Rick A. Schlattmann, Lanna K. Skadden, Debora I. Spraggins, Virginia F. Toliver, Arley M. Willenborg, Annie Williams, Robert E. Wiltenburg and Joe M. Worlund.

The following people were recognized for **30 years of service**: Anthony J. Abaffe, Thomas W. Biehl, Leon Hofmann, Kenneth A. Robin, Allen P. Rueter, Jane E. Schnettler, Reginald Whitaker and Barbara B. Winters.

David T. Blasingame, Denise V. Doner and Debra S. Jones were honored for **35 years of service**.

John W. Augustin, Janet Bowdry, James R. Burmeister, Linda Y. Ford, Thomas H. Simmons and Carolyn A. Yarber were honored for **40 years of service**.



Getting into the swing of summer Juniors Jenny Shirar (left) and Christian Frommelt cut a rug during Swing Dance Night June 2 in the Goldfarb Hall Commons. Each Tuesday during the summer, anyone with an interest in swing dance is welcome to take a lesson and practice what is learned from 7:30-9:30 p.m. in the Goldfarb Hall Commons. Swing Dance Night, hosted by the Washington University Swing Society, is free and open to the public. No partner or experience is necessary.

Kopp

25 WUSTL graduates joining Teach For America
— from Page 1

us who have been given so much to do everything in our power to realize that change," she said.

Kopp, who received an honorary doctor of humanities degree during the ceremony, began her remarks by noting WUSTL's important role in producing inspiring and impactful Teach For America corps members, leaders and alumni.

"I think there's something in the water here, no doubt thanks to your own intentional practice, and I hope that the faculty and administration can reflect this morning on the difference you are making through your work," Kopp said.

She also congratulated graduating students and families, taking special note of the 25 graduating WUSTL students who will join Teach For America in 2009.

Kopp then discussed how and why she formed Teach For America nearly 20 years ago after proposing the idea of Teach For America in her thesis at Princeton University.

Kopp says that she believed "the inequity in educational outcomes that persisted along socioeconomic and racial lines in our country was among our greatest injustices, that the leaders in our generation were searching for something they weren't finding and would jump at the chance to teach in urban and rural public schools, that our energy and idealism would make a difference in the lives of the nation's most disadvantaged kids."

However, Kopp said, when she proposed in her thesis that she

create a teacher corps, her thesis adviser pronounced her "deranged." But aided by her inexperience and with time on her side, Kopp — along with the thousands of teachers who have joined Teach For America — has made a difference in the lives of schoolchildren throughout the country.

Kopp cited many examples of teachers who are WUSTL alumni or from the St. Louis area and the improvements they have made in public schools throughout the country — including Ed Chang, a 1997 graduate, and Glenn Davis, a 2003 graduate, who are both starting their own schools in Atlanta and Gary, Ind., respectively.

Kopp mentioned a conversation she had with Davis, in which she asked if he had thought, when graduating in 2003, that he would be starting a high school six years later.

"He laughed as if it would be

Time to renew U-Pass to ride MetroLink or bus for free

The employee 2008-09 U-Pass — allowing WUSTL faculty and staff free use of Metro, the region's public transportation system — will expire June 30.

Benefits-eligible employees may request a new U-Pass for the 2009-10 school year (Fiscal Year 2010) at the Parking & Transportation Services Web site, parking.wustl.edu/upass.htm. The new pass will be valid through June 30, 2010.

The U-Pass program, funded by the University, provides benefits-eligible faculty and staff, full-time students and full-time employees of basic service contractors a Universal Metro Pass that allows free boarding of any Metro bus or MetroLink light-rail system train.

Employees can renew the pass by logging onto the Parking & Transportation system and using their WUSTL KEY and password. Employees who do not know their WUSTL KEY and/or password should contact the Systems and Procedures Helpdesk at 935-5707.

After submitting an online request, employees should be sure that they receive a confirmation. After making a request, the screen

should immediately go to a confirmation page, and, if a valid e-mail address was provided, the employee should receive a confirmation e-mail.

If an employee doesn't receive one of these two confirmations, Parking & Transportation Services did not receive the request.

Parking & Transportation Services again has set up employee U-Pass distribution centers on the School of Medicine campus (Olin Residence Hall gym, 11 a.m.-2 p.m., June 16, 17 and 18) and the Danforth Campus (Danforth University Center, 11 a.m.-2 p.m., June 24 and 25) and encourages U-Pass holders to use the pick-up option for their passes.

Full-time summer students and full-time students from this past spring semester who have completed their fall 2009 full-time class registration also may request a summer semester pass, which is valid from May 1 until Aug. 15, at parking.wustl.edu.

For more information about the U-Pass renewal process, contact Parking & Transportation Services at parktrans@wustl.edu or at 935-5601.

Tyson

Living Building Challenge a 16-step process
— from Page 1

windows to provide access to fresh air and daylight.

"Since Living Building Challenge was launched in November 2006, more than 60 project teams throughout North America have opted to pursue certification," said Eden Brukman, the CRGBC's research director. "The Tyson Living Learning Center is one of the first two of these projects completing construction in May, and there are many people throughout the country — and the continent — watching with eager anticipation."

"Living Building Challenge is a rigorous performance-based standard. All 16 stated characteristics must be integrated into a successful project, such as net-zero energy and water, habitat exchange, non-toxic materials and beauty and inspiration," Brukman said. "In order to be certified as a Living Building, it must be fully operational for at least 12 consecutive months; this program demands proof that the occupants engage the project as anticipated. After all, an empty building serves no purpose."

Brukman noted that the Living Building Challenge is not meant to compete with the USGBC's Leadership in Energy and Environmental Design (LEED) Green Building Rating System,

which is a nationally accepted benchmark for the design, construction and operation of high-performance green buildings.

"The Living Building Challenge is instead viewed as an additional outlet to promote the goals set by the USGBC and CaGBC — it establishes a vision for a project's environmental and social responsibilities from a new vantage point," Brukman said. "In fact, both national organizations have endorsed Living Building Challenge."

Many of the Living Learning Center's features contribute to the building's net-zero water and energy use, said Jonathan M. Chase, Ph.D., director of the Tyson Research Center and associate professor of biology in Arts & Sciences. The rainwater that will fall on the building will pass through a filter before it will be stored in a 3,000-gallon underground cistern.

The pavement surrounding the building is porous and will absorb almost all storm runoff. Waterless composting toilets will eliminate a major use of water and enable the collecting of waste that will be used as fertilizer for the surrounding grass. A 17-kilowatt photovoltaic system will power the facility.

The exposed exterior and interior wood used to build the center, including the cedar siding, came from Tyson grounds — either from fallen trees or from trees slated for removal. The structural wood came primarily from Pocahontas, Ark., approximately 200 miles away — well

within a 500-mile requirement to reduce carbon emissions associated with the transportation of materials.

The structure, which was designed by Hellmuth & Bicknese Architects with Bingman Construction Co. of Pacific, Mo., serving as the general contractor, also will feature a "bat house" built into the building's eave, complete with two "bat cams" for observation of the creatures.

The Living Learning Center will be available to members of the WUSTL community as well as other local institutions and will house a seminar/classroom for several WUSTL classes, including a seminar for undergraduate and graduate students and local environmental researchers this summer and three environmental courses this fall.

It also will serve as the base of operations for a summer high-school outreach program that is co-sponsored by the Missouri Botanical Garden's Shaw Nature Reserve and funded by the National Science Foundation (NSF).

According to the architect, the building's most important feature is its ability to be used as an ongoing teaching tool — another one of the 16 requirements to be named a Living Building.

"The curriculum for the summer program is already being developed using some of the building features, which can all be analyzed as a biological process," said Dan Hellmuth, a principal and co-founder of Hellmuth & Bicknese Architects.

entirely inconceivable," Kopp said. "But thank heavens that he dove in early because now he's going to have years and years to change what's possible for kids in Gary, Indiana, and maybe beyond."

In the two decades since she founded Teach For America, Kopp said it is true that the achievement gap has not been narrowed in an aggregate sense.

"And, yet, things are so very different today," she said. "The question we're asking has changed. It is no longer 'Can we do this?' but rather now it is 'Can we do this at scale?'"

"And even to that question, some communities are giving us real evidence of the possibility of system-wide change. From Washington, D.C., to New Orleans to New York City, school systems are closing achievement gaps in significant, measurable ways," she said.

"The PV (photovoltaic) output is monitored in the lobby via a touchscreen monitor and over the network, showing how much power the building is producing and how much CO₂ is being avoided," Hellmuth said. "This monitoring system can be built on over time to look at water consumption, energy use, etc."

According to Hellmuth, there were many challenges associated with constructing a Living Building, including obtaining permits for rainwater potable water and composting toilet systems and finding certified framing wood within a 500-mile radius of Tyson, which is located off of Interstate 44 at the Beaumont-Antire Road exit.

"I don't think any of us knew the challenges this would bring, including Washington University, our design team, the contractors or the folks at Tyson," Hellmuth said, "but throughout the process we have continually met them in a seemingly endless gauntlet."

Participating in the opening ceremony was Chancellor Mark S. Wrighton; Edward S. Macias, Ph.D., provost, executive vice chancellor and the Barbara and David Thomas Distinguished Professor in Arts & Sciences; Henry S. Webber, executive vice chancellor for administration; Ralph S. Quatrano, Ph.D., the Spencer T. Olin Professor and interim dean of Arts & Sciences; Chase; and Kathryn G. Miller, Ph.D., professor and interim chair of biology.

"The opening of the new Living Learning Center is an exciting event for Washington University," Quatrano said. "It demonstrates

"If you go to these communities, it is impossible to miss the fact that a big part of what is moving the needle is a bunch of talented, committed teachers, school leaders, district administrators and community leaders who learned through their experiences teaching in Teach For America that it is possible to solve this problem and what it will take to solve it," she said.

Kopp ended her address with a challenge to the graduates to reflect on the disparities in the world and the enormous assets they possess to help solve them.

She wished the WUSTL graduates the same good fortune she had found in her career.

"I have spent not one minute of my last 20 years searching for what I really wanted to be doing because I happened into something that, while exhausting and challenging, is unbelievably fulfilling," she said.

not only the University's emphasis on sustainability but also its commitment to teaching, research and community outreach. We have been building faculty strength in ecology and environmental science, and this structure will help in our educational mission and commitment to student research and instruction."

"Tyson is in the midst of a major revolution and is a cornerstone of the environmental research and education initiatives of Washington University," Chase said. "The Living Learning Center will provide much-needed space for our growing programs and also will serve as focus for research and education itself."

Eighteen St. Louis-area high-school students began using the Living Learning Center June 1 as part of the NSF collaborative grant for the Shaw Nature Preserve and Tyson to instruct the interns in ecological research.

Last summer, the students went out to Shaw to learn basic skills and research techniques in the part of the program called SIFT — Shaw Institute for Field Training.

This summer, those same students are plying their newfound skills on research projects with WUSTL faculty and graduate students as part of TERF — Tyson Ecological Research Fellowship.

WUSTL is in the process of finding support for the Living Learning Center, and several naming opportunities are available, including the center itself and its combined lab and classroom, computer lab and outdoor teaching deck.

Notables



From the lab to the laundry Riccardo Ferdani (left), staff scientist in radiology, assists fourth-graders Kamryn Senizaiz (center) and Hannah Fuller in applying ketchup and coffee to stain-resistant fabric treated with nanoparticles. Carolyn Anderson, Ph.D., professor of radiology and of biochemistry and molecular biophysics, invited the students and their classmates from Flynn Park Elementary in the University City School District to campus to learn about nanotechnology through her work with the Program of Excellence in Nanotechnology (PEN) grant. Assisting Anderson were Monica Shokeen, instructor in radiology; Chris Sherman, senior research technician in radiology; and Mary C. Mohr, coordinator for Science Outreach. PEN is a collaboration between the Department of Chemistry in Arts & Sciences, the School of Medicine and the University of California campuses in Berkeley and Santa Barbara. It is supported by a \$12.5 million grant from the National Institutes of Health.

For the Record

Ting-Ting Chang, Ph.D., the Mellon Postdoctoral Fellow in Dance, and **Eliotte Henderson**, a rising senior, had works chosen to be performed as part of the concluding Gala Concert the Central Region American College Dance Conference, held in March at Hendrix College in Conway, Ark. Chang's work was titled "Falling Petals," and Henderson's work was titled "Stuck in Waiting." In addition, "OverDrive" by senior lecturer **Cecil Slaughter** was featured in the conference's Informal Concert. ...

C. Robert Cloninger, M.D., the Wallace Renard Professor of Psychiatry and of genetics at the School of Medicine and of psychology in Arts & Sciences, is the 10th recipient of the American Psychiatric Association's (APA) Judd Marmor Award. The prestigious award is given annually to recognize an individual or group in the neuropsychological sciences as well as in history, literature or pedagogy who makes significant contributions to the multifactorial, biopsychosocial elements involved in mental health and illness. Cloninger also delivered a plenary lecture at the annual meeting of the APA May 16-21 in San Francisco. ...

Anthony Todd Fojo, a medical student, has received a Fogarty Fellowship, a one-year clinical research training experience for graduate-level U.S. students in the health professions. During his fellowship, he will research HIV and tuberculosis, in conjunction with the Moi University School of Medicine, in Eldoret, Kenya. ...

Victoria Fraser, M.D., the J. William Campbell Professor of Medicine and co-director of the Division of Infectious Diseases, received the Society for Healthcare Epidemiology of

America Mentor Scholar Fund Award at its recent annual meeting in San Diego. ...

Claudia L. Hilton, Ph.D., postdoctoral fellow in psychiatry, has been chosen to receive the American Occupational Therapy Association Roster of Fellows Award at the organization's 2009 Annual Conference and Expo in Houston. The award recognizes occupational therapists who have made a significant contribution to the continuing education and professional development of association members. Hilton is being honored for her contributions to research and intervention with autistic spectrum disorders. ...

Stacey House, M.D., Ph.D., a resident in emergency medicine, received an award from the American Medical Association Foundation's 2009 Seed Grant Program, which provides \$2,500 grants to medical students, physician residents and fellows to conduct basic science, applied or clinical research projects.

Speaking of

Stamos Metzidakis, Ph.D., professor of French and of comparative literature, both in Arts & Sciences, gave a public lecture at Harvard University's Center for the Humanities April 7 titled "Who Knew? Andre Breton's Surreality in Nikos Kazantzakis." ...

Robert Senior, M.D., the Dorothy R. and Hubert C. Moog Professor of Pulmonary Diseases in Medicine and professor of cell biology and physiology, was selected as the Amberson Lecturer for the American Thoracic Society's International Conference in San Diego May 15-20.

Ten students awarded Fulbright Scholarships

By NEIL SCHOENHERR

Ten WUSTL students have been awarded Fulbright Scholarships for the 2009-10 academic year.

Seven are recent graduates, and three are graduate students. They will spend a full academic year in a host country.

The graduate students, along with their fields and locations of study, are Nicholas Efremov-Kendall, archeology, Ukraine; Maria Rosebury, English teaching assistantship, Germany; and Nancy Twilley, language and literature, Germany.

Those who graduated in May are Natalie Alm, English teaching assistantship, Argentina; Bobbie Bigby, anthropology, Cambodia; Laurie Bonkowski, English teaching assistantship, Ecuador; Courtney Caruso, history, cultural and intellectual studies, Italy; Anne Marie Gray, urban development and planning, Brazil; Jill Mead, anthropology, Argentina; and Michael Raish, anthropology, El Salvador.

"Once again, a large number of WUSTL students

has been presented with this prestigious award," said Amy Suelzer, Ph.D., Fulbright Program adviser. "I think it shows the high caliber of students we have at the University.

"They are driven, focused and dedicated. We wish them success in their Fulbright year and beyond," Suelzer said.

The Fulbright Program is designed to increase mutual understanding between the people of the United States and of other countries. Under the program, 1,450 American students have been offered grants to study and conduct research in 155 countries throughout the world, beginning this fall. The program, established in 1946, is sponsored by the U.S. Department of State.

More than 47,000 students from the United States have held Fulbright grants since the inception of the program. This year's awardees come from all 50 states as well as the District of Columbia and Puerto Rico. They are drawn from a diverse cross-section of American higher education, with more than 250 institutions represented.

Taylor named Harris Institute executive director

By JESSICA MARTIN

Bon Don Taylor III, J.D., has been named executive director of the Whitney R. Harris World Law Institute and Cash Nickerson Fellow at the School of Law.

"Don Taylor's extensive practical experience and scholarship in the areas of international criminal tribunals and courts will be a wonderful addition to the work of the Harris Institute," said Leila N. Sadat, J.D., the Henry H. Ober-schelp Professor of Law and director of the Harris World Law Institute.

"I am grateful for the support of Whitney Harris and of alumnus Steven Cash Nickerson in helping

us attract such an outstanding candidate," Sadat said.

Taylor comes to the law school after spending three years as a legal officer in Trial Chamber II of the International Criminal Tribunal for the former Yugoslavia. During his tenure, he also worked on cases in the Appeals Chamber of the International Criminal Tribunal for Rwanda.

Taylor focuses his research on international criminal law with a special emphasis on international criminal procedure, as developed and applied by international criminal courts and tribunals.

He is a member of the editorial board of the Leiden Journal

of International Law and a member of the International Criminal Procedure Expert Framework, established by the Hague Institute for the Internationalisation of Law. He has published several works on the procedural law of the ad hoc international criminal tribunals and the International Criminal Court.

Taylor has taught at the law faculty of VU University Amsterdam. He practiced as a prosecutor in Arizona from 1996-2005 before relocating to the Netherlands.

He earned a juris doctoris from the University of Arizona in 1995 and a master of laws degree from Leiden University in 2006.

Two recent grads selected as Singapore scholars

By MELODY WALKER

Shortly after graduation, Arash Sabet and Elise DeVries headed to Asia for five months as members of the first-ever Kauffman-Singapore Entrepreneurship Program.

They are two of only five U.S. students in science, technology and engineering who were selected to participate in the program, which will allow them to learn about the Asian market and

pursue entrepreneurial ventures on a global scale.

Sabet already had a bachelor's degree in biomedical engineering and a master's degree in mechanical engineering from WUSTL when he earned an MBA in finance and strategy last month. DeVries earned a bachelor's degree in biomedical engineering with an emphasis in bio-mechanics.

The two were chosen from 160 applicants from across the nation

for the Kauffman-Singapore Scholars program because of their experiences in bringing new innovations to the market.

The Kauffman-Singapore Scholars Program was created through a grant from the Ewing Marion Kauffman Foundation. The students will study commercialization and entrepreneurship at the Nanyang Technopreneurship Center, Nanyang Technological University, in Singapore.

Obituaries

Niland, Olin professor emeritus, 89

Powell Niland, D.C.S., professor emeritus of management at Olin Business School, died April 19, 2009, in St. Louis. He was 89.

A native of Scranton, Penn., Niland came to Washington University in 1957 from Harvard Business School, where he earned a doctorate and taught for six years.

Robert L. Virgil, Ph.D., Olin emeritus dean and professor, was among Niland's first students at WUSTL. He remembers Niland

fondly as a teacher, mentor and friend.

"Powell's contribution to the Olin School was enormous," Virgil said. "He was very influential in the shaping of the MBA program.

"Powell's strengths were teaching and research in the areas of manufacturing, production and operations management," Virgil said. "This always has been a strong, even distinctive, part of the Olin program. It is today. This

special strength started with Powell and traces to him. He started it and nurtured it."

Niland retired in 1989.

He is survived by his wife, Juel C. Niland; two daughters; two grandchildren; and one great-grandchild.

Memorial contributions may be made to the Powell Niland Prize in Operations and Production Management at the Olin Business School or to a charity of the donor's choice.

Furchgott, 92

Robert F. Furchgott, Ph.D., assistant professor of pharmacology at the School of Medicine from 1949-1956 and winner of the 1998 Nobel Prize in Physiology or Medicine, died May 19, 2009, in Seattle. He was 92.

Nabors, 78

Kenneth L. Nabors, reference department chief at Olin Library from 1964-1981 and humanities librarian from 1981-1995, died May 22, 2009. He was 78.

Nolan, 56

David John Nolan, associate director of housing from 1985-1999 and associate director of off-campus housing from 1999-2005, died May 17, 2009, in O'Fallon, Ill. He was 56.

Washington People

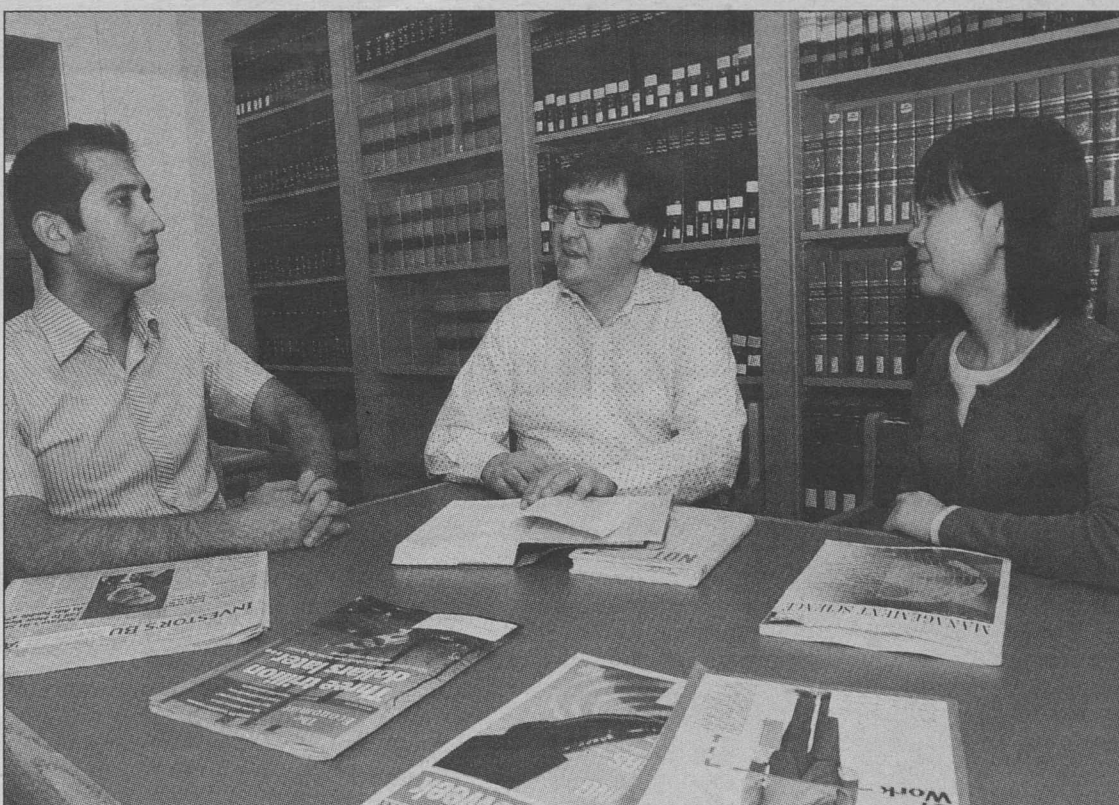
When Panos Kouvelis, Ph.D., was a professor at Duke University, he loved to go to the Waffle House in Durham, N.C. But it wasn't the waffles or the coffee that attracted the young Greek immigrant.

"I liked their omelets," says Kouvelis, the Emerson Distinguished Professor of Operations and Manufacturing Management at the Olin Business School. "But if you're an operations guy like me, you'd be fascinated by how they do it."

Everything from the organized layout of the restaurant to the easy flow of orders from customer to waitress to cook and back to the table impressed Kouvelis, who has made a career of studying supply chains and how they work.

"A supply chain is a system that goes all the way from companies that work with raw materials to companies that do productive transformations to companies that do distribution and selling," Kouvelis says.

Technology, modern transportation and communications have stretched supply chains around the globe, creating com-



Panos Kouvelis, Ph.D. (center), with third-year doctoral students Ehsan Bolandifar (left) and Xiaole (Sherri) Wu. "Panos is a very warm person with natural leadership skills," says Lingxiu Dong, Ph.D., associate professor of operations and manufacturing management. "He is one of the most talented, creative and hard-working scholars in our profession. I admire his continuous high level of scholarly curiosities and endless energy in exploring various areas of supply chain management."

BY MELODY WALKER

Clarifying complexities

Kouvelis' work untangling supply chains helps get goods to consumers more efficiently

plex webs of all the necessary components to create and deliver goods to consumers. For Kouvelis, the challenge is to figure out how to coordinate all the links in the supply chain in the most efficient and cost-effective way possible.

Researching and teaching supply chain management has become an important focus of the Boeing Center for Technology, Information and Manufacturing (BCTIM), which Kouvelis directs in addition to teaching courses in the Executive MBA and MBA programs.

Monsanto Co.'s director of global supply chain, Brad Morgan, says his former professor's soft-spoken, calm demeanor belies an ardent enthusiasm for his area of expertise.

"Panos brings a great deal of passion to everything he does and is therefore able to inspire and challenge his students," Morgan says. "While he has a strong grasp of the complex, technical 'inner workings' of supply chain risk management, networks and operations, he is always able to clearly articulate the relevance of supply chain from both a strategic standpoint and as it relates to everyday operations."

'California dreams'

Kouvelis majored in mechanical engineering at the National Technical University of Athens. He knew he wanted to combine his engineering studies with business and says at the age of 23 his "California dreams" came true when he was accepted to graduate school at the University of Southern California (USC).

The only son of a physician and homemaker, Kouvelis, who was born in Lamia, a small city in central Greece, initially thought the move to Los Angeles would be temporary — just long enough to pursue a master's degree.

With a dual MBA and industrial engineering degree from USC, Kouvelis was lured to Stanford University to earn a doctorate. His first teaching position was at the University of Texas at Austin, where Kouvelis says with a smile, "I don't know if my accent or theirs was harder to understand!"

After nearly four years in Texas, the bachelor professor moved to the Fuqua School of Business at Duke University. While teaching there, Kouvelis met a nurse, Helen, from Canada at the only Eastern Orthodox Church in Durham. Her Serbian family shares the same religious tradition as his Greek family. They were married and moved to St. Louis when Kouvelis joined the Olin faculty in 1997.

The strategy of sports

Former Olin dean Stuart Greenbaum, Ph.D., recruited Kouvelis to St. Louis and introduced him to baseball. The great American pastime is foreign to most Greeks, according to Kouvelis, who admits he found it boring at first.

Kouvelis says with his colleague and friend Mark Soczek, Ph.D., director of the Center for Experiential Learning and lecturer in accounting, as his coach and the St. Louis Cardinals as his new hometown team, he soon discovered the intricate strategy and statistics of the game.

He says George F. Will's book "Men at Work" helped with his conversion into an ardent baseball fan and student of the game.

Kouvelis is a proud quarter-season-ticket holder and enjoys making trips to Busch Stadium with his wife, family and friends.

Helen and Panos Kouvelis have three children: Vaios, 13; Alexa, 9; and Teddy, 4. As a family, they enjoy traveling, including annual visits to see Panos' mother in Greece and family in Toronto, where Helen's family lives.

In addition to being baseball fans, the Kouvelis family also has adopted St. Louis Rams football as a favorite spectator sport.

"It's a nice game to watch," Kouvelis says. "There is lots of strategy, and you can see how organized they are. Football is about synchronized movement — many people have to do the right thing for a certain play to advance. Teamwork is very important. It's how to be in the right place at the right time."

Kouvelis adds with a laugh, "Football is a lot like supply chain management!"

Kouvelis can't help finding supply chain metaphors and connections from sports stadiums to restaurants and beyond. When he goes shopping with his wife, he admits, they see different things. While she may admire the color or style of a sweater, Kouvelis says, "every time I look at a sweater, I think, how did it get here?"

"There are thousands of suppliers, hundreds of factories, thousands of workers who contributed to delivering this sweater to this store," he says.

Supply chain management

Real-world experience with companies and their supply chains is a vital component of Kouvelis' research and teaching. Through consulting projects with BCTIM, Kouvelis and his students work with supply chain managers and the challenges they face daily.

"I believe in the model of faculty doing all three of these activities: teaching, research and consulting," Kouvelis says.

Research and consulting not only provide insight into real management issues, but they also provide excellent subject matter for the classroom. Kouvelis has used many consulting projects as case studies for his courses.

"I like what I do," he says. "I get stimulated by the new challenges by understanding what companies do and if it was the

right or wrong way to do it."

Driven by his passion for research and teaching, Kouvelis has published three books and more than 80 papers in top-quality academic journals. He also serves in editorial positions at several leading management and operations publications.

"The joke around here is that I sleep in my office," Kouvelis says with a lighthearted laugh. "I work hard — 60-hour weeks. I'm productive and efficient at what I do."

Colleagues such as Siddhartha Chib, Ph.D., the Harry C. Hartkopf Professor of Econometrics and Statistics, admire and praise his skills.

"I think that Panos is a terrific example of a high-quality academic," Chib says. "He has very high standards for research, and he is a committed mentor through his supervision of Ph.D. students and his support of junior faculty."

"He is an extremely effective teacher across various demanding programs," Chib says.

"Finally, he is director of a very successful center that showcases and advances research in supply chain management and related areas."

"He handles all these many things with equanimity and, remarkably, without overt display of effort. It all just seems to come easily to Panos," Chib says.

Students have bestowed the Reid Teaching Award on Kouvelis 12 times, and he has received numerous other awards for his teaching, research and service.

In his narrow, book-lined office in Simon Hall with a picture-window view of Francis Field, Kouvelis reveals what he has learned in more than 20 years of teaching.

"The secret of good teaching is passion for what you teach so you feel very close to it, and at the same time, you have to be very interested in the people you teach," Kouvelis says.

"You've got to understand their backgrounds and why they are there. These are the two most important things," he says.

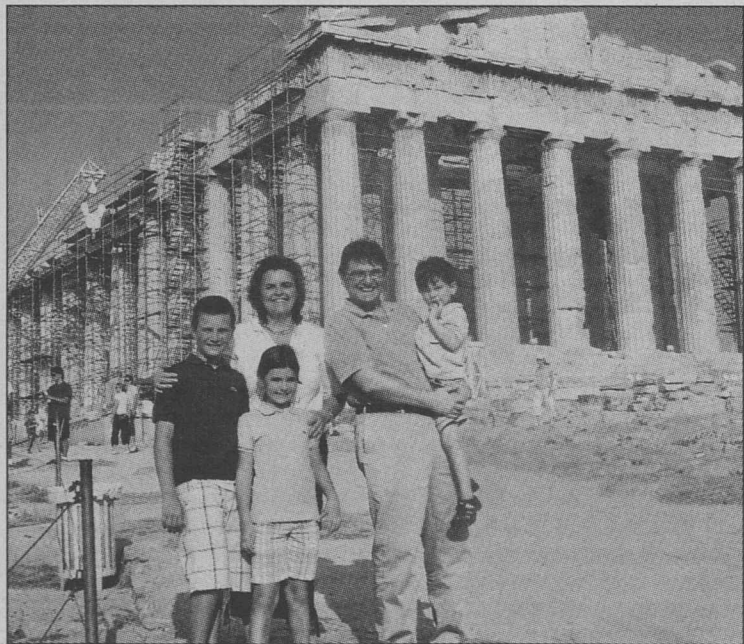
While it's hard to imagine this 48-year-old professor slowing down anytime soon, he says he still has a California dream. This time, it's about retiring somewhere on the West Coast with a view of the Pacific Ocean.

Panos Kouvelis

Currently teaches: in the Executive MBA program and the joint Olin-Fudan EMBA program in Shanghai, China

Launching: a new master's in supply chain management degree program in September 2009 at Olin Business School

Corporate consulting and/or executive programs: Boeing Co., Bunge, Duke Hospital, Emerson, Express Scripts Inc., Hanes, Ingram Micro, MEMC, Smurfit-Stone, Solutia Inc., and others



Panos Kouvelis; his wife, Helen; and their children, (from left) Vaios, Alexa and Teddy, visit the Acropolis in Athens. Annual summer vacations acquaint the Kouvelis family with the ancient heritage of Greece.