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Record



Washington University in St. Louis

Oct. 1, 2009

record.wustl.edu

Obama taps Beachy to lead new federal agency

By DIANA LUTZ

President Barack Obama has asked Roger Beachy, Ph.D., president of the Donald Danforth Plant Science Center and professor of biology in Arts & Sciences, to lead a new federal agency that will transform the way that plant science research is funded in the United States.

Beachy is the founding president of the Danforth Plant Science Center, a private, non-profit research institute in St. Louis County founded in 1999 by a partnership that includes Washington University.

The National Institute of Food and Agriculture, or NIFA, a newly named agency of the U.S. Department of Agriculture, will manage the external grants of the Depart-



Beachy

ment of Agriculture, including the competitive grant program now called the Agriculture and Food Research Initiative.

In the past decade or so, the U.S. Department of Agriculture has distributed between \$120 million and \$180 million in competitive grants. "The goal we're aiming for in the next four or five years is an annual budget of \$700 million," Beachy said.

"Plants are key to the future, to our survival," Beachy said. "But they just haven't been getting the attention they need from the research community or the U.S. public."

"We're beginning to see aberrations in climate, and the Earth's growing population will need not just more food but better food and

See **Beachy**, Page 6

Young age at first drink may affect genes, alcoholism risk

By JIM DRYDEN

The age at which a person takes a first drink may influence genes linked to alcoholism, making the youngest drinkers the most susceptible to severe problems.

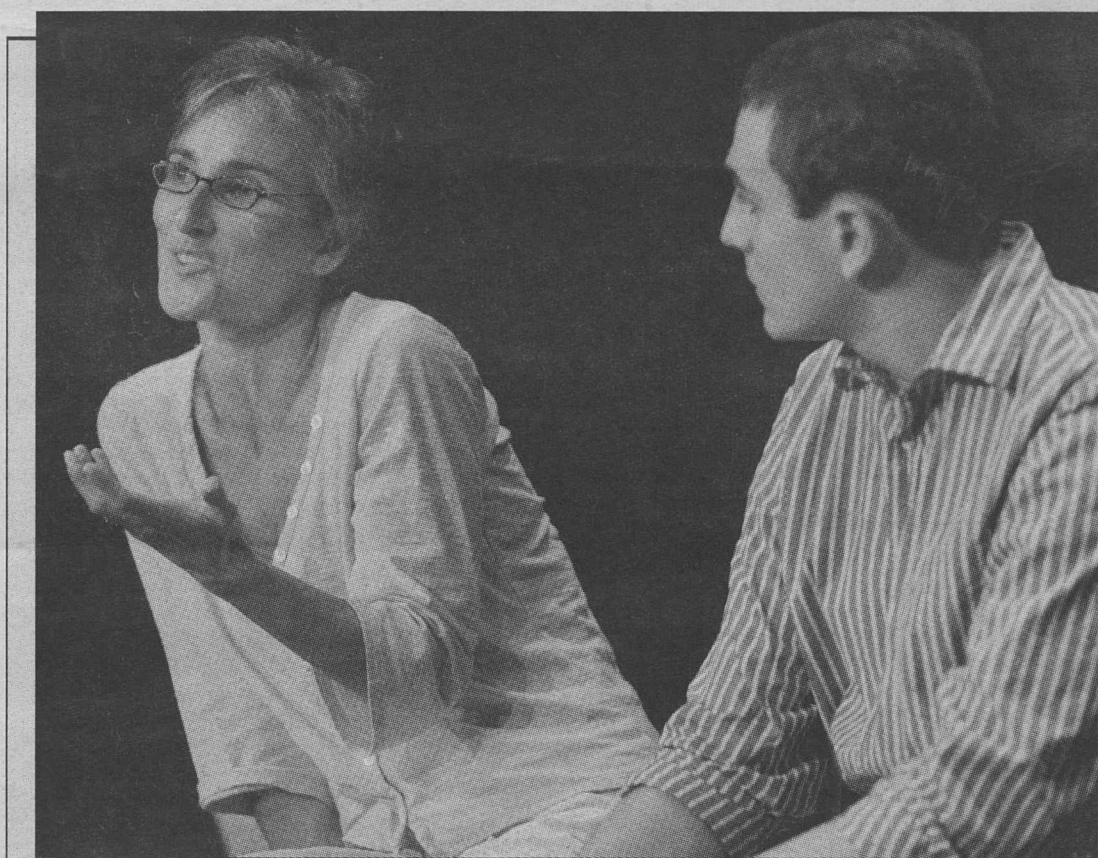
A team of researchers, led by School of Medicine scientists, studied 6,257 adult twins from Australia. They wanted to learn whether twins who start drinking at an early age are more likely to develop a more heritable form of alcohol dependence than those who begin drinking later in life. The researchers found that the younger an individual was at first drink, the greater the risk for alcohol dependence and the more

prominent the role played by genetic factors.

"There seemed to be a greater genetic influence in those who took their first full drink at a younger age," said first author Arpana Agrawal, Ph.D., assistant professor in the Department of Psychiatry. "That's very consistent with what has been predicted in the literature and in the classification of types of alcohol dependence, but we present a unique test of the hypothesis."

Agrawal and her colleagues examined previously collected data from identical and fraternal male and female twins using statistical methods to measure the extent to which age at first

See **Alcoholism**, Page 7



Live theater, live learning Visiting dramaturg Liz Engelman (left) and sophomore Max Rissman discuss Rissman's one-act play "Razor Love" Sept. 25 in the A.E. Hotchner Studio Theatre. The "talk-back" session followed a staged reading — directed by Jeffery Matthews, senior lecturer in the Performing Arts Department (PAD) in Arts & Sciences — held as part of the PAD's 2009 A.E. Hotchner Playwriting Festival. Engelman, a freelance dramaturg from Minneapolis and board chair of Literary Managers and Dramaturgs of the Americas, has helped develop new plays across the country.

Frog fungus hammering biodiversity of communities

By DIANA LUTZ

Sometimes to see something properly, you have to stand farther back. This is true, for example, of Chuck Close portraits where a patchwork of many small faces becomes one giant face as you back away.

It may also be true of the frogs of Central America, where the pattern of extinctions emerges clearly only at a certain spatial scale.

Everyone knows that frogs are in trouble and that some species have disappeared, but a recent analysis of Central American frog surveys shows the situation is

worse than had been thought.

Under pressure from a fungal disease, the frogs in this biodiversity hot spot are undergoing a vast homogenization that is leaving behind impoverished communities that increasingly resemble one another.

"We're witnessing the McDonaldization of the frog communities," said Kevin G. Smith, Ph.D., associate director of the Tyson Research Center.

The analysis of data collected over many years by Karen R. Lips, Ph.D., associate professor of biology and director of the program in Sustainable Development and Conservation Biology at the

University of Maryland and research associate at the Smithsonian Tropical Research Institute, was published online in the October issue of Ecology Letters.

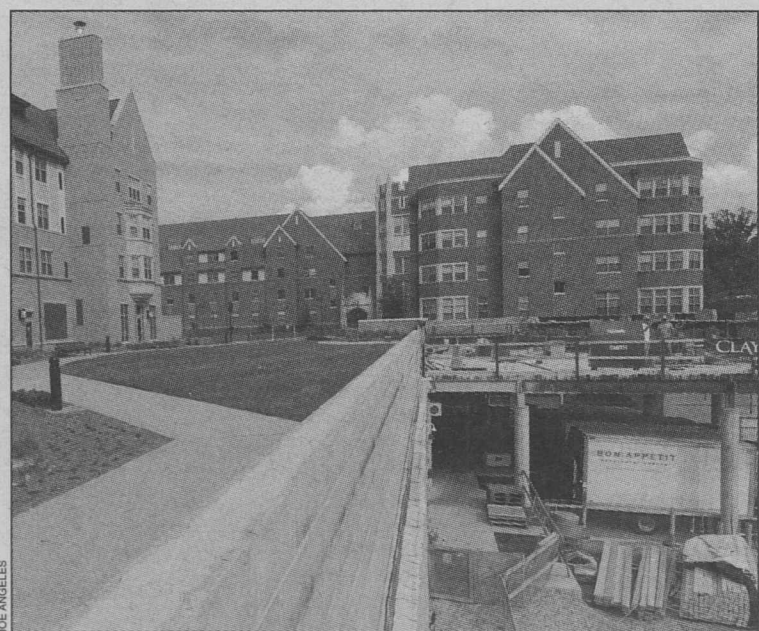
The analysis of frog data was inspired in part by earlier work by Jonathan M. Chase, Ph.D., associate professor of biology in Arts & Sciences, director of the Tyson Research Center and a co-author of the paper.

Chase found that when predatory fish were introduced into artificial ponds at the research center, not only did they reduce diversity within each pond, but they also made the species compo-

See **Frogs**, Page 6

Grass roof on South 40 promotes sustainability, adds green space

By JESSICA DAUES



The green roof on the South 40 House helps the University conserve energy and water and provides additional gathering space for students.

Take a walk across the new lawn on the South 40, and there might be more than just dirt beneath your feet.

There might be pots, pans and a truck or two. An environmentally friendly "green roof" — containing grass, native plants and approximately 110,000 pounds of soil — opened last week on the South 40 House. The roof shelters a loading dock, kitchen and other areas of the South 40 House's southern lower level.

The 10,150-square-foot green roof connects seamlessly with the lawn to the east near Liggett and Koenig student residences, creating a large grassy area that also features paths and benches.

Atop the northern half of the South 40 House — and overlooking the building's green roof — are four stories containing student dining areas and residences.

Installing a green roof rather than a typical black rubber roof benefits the environment in numerous ways, said Matt Malten, assistant vice chancellor for sustainability.

The green roof will help the University improve its water management. Ninety percent of rainwater that falls on a green roof is absorbed by the soil and

vegetation, reducing the amount of runoff that flows to sewers and increasing the amount of rainfall naturally recycled through the atmosphere. The vegetation on the roof is either native or has adapted to the region, and the programmable irrigation system determines how much water is needed to keep the plants alive, minimizing unnecessary watering.

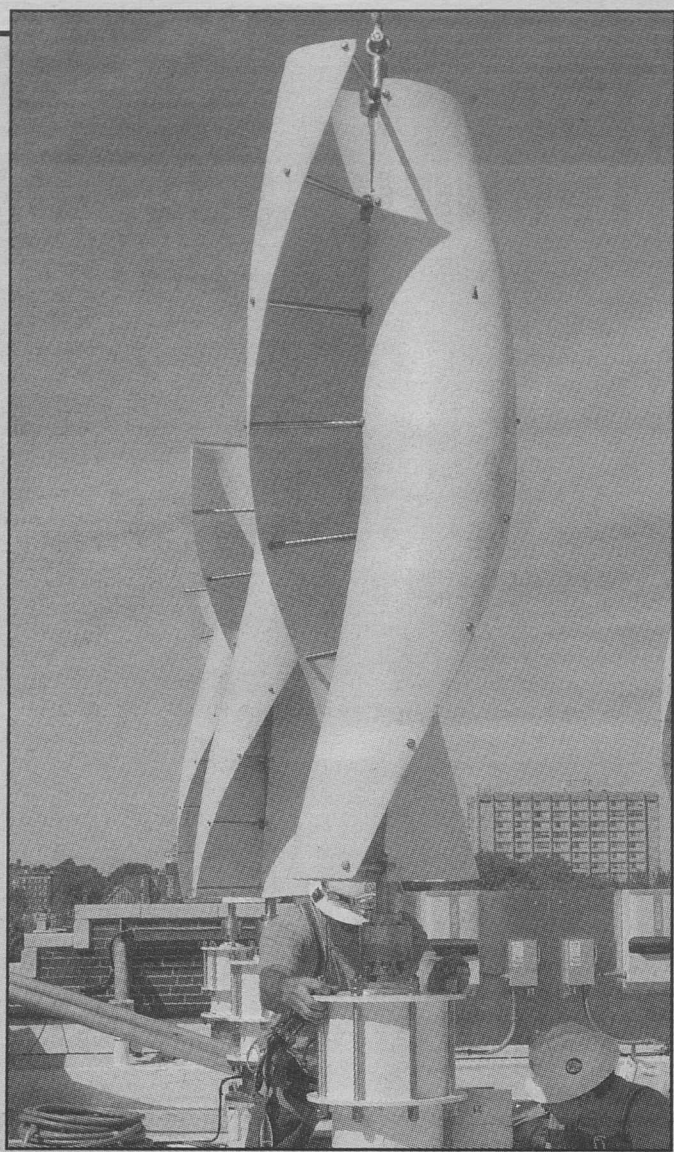
The green roof also acts as insulation, keeping the building underneath cooler in the summer and warmer in the winter, which reduces energy usage. The grass also reflects heat back into the atmosphere rather than absorbing it, creating a cooler exterior environment.

Herbs also will be planted on the roof, reducing the amount of ingredients the South 40 House kitchen will need to have transported in.

"This is another great example of integrated design strategies we are implementing across our campus to economic, environmental and social performance," Malten said. "This design strategy will concurrently reduce our energy use and cost, our stormwater runoff and cost, and provide a healthier outdoor space for our community. These multiple benefits are what we strive for in all our sustainability efforts."

There are other practical and aesthetic benefits to using a green roof rather than rubber, concrete or

See **Roof**, Page 6



On the corner A worker installs one of seven wind turbines on the roof of the University's Corner Building on Skinker and Delmar boulevards Sept. 18. In all, the seven wind turbines will generate an estimated 14,000 kilowatt-hours per year for the building. The University installed other environmentally friendly features during its renovation of the approximately 70-year-old Corner Building, including a high-efficiency air-conditioning system, a white roof that reflects the sun's rays, and insulated windows. WUSTL began remodeling and rehabilitating the Corner Building in May, and the building reopened Aug. 14. It houses retail space on its first floor and 16 one- and two-bedroom apartments for WUSTL graduate students, faculty and staff on its second and third floors.

Sports

Women's soccer extends streak

The No. 15 women's soccer team extended its winning streak to seven games with a pair of victories over Principia College, 7-2, and Division I Southeast Missouri State University, 4-1.

Senior Caryn Rosoff recorded a hat trick in both games. She leads the team in points with 20 and is second in goals with eight.

WUSTL (7-2) opens University Athletic Association play Sunday, Oct. 4, at Emory University.

Women's golf ends successful fall season

Freshman Hannah Buck fired a 75 on the second day of play to tie for first place as the women's golf team placed second at the Millikin University Fall Classic.

Buck tied for first place in the individual standings with a two-day score of 153 (78-75) but lost medalist honors in a playoff. She finished the fall season with eight straight rounds of 80 or under.

The team finishes the fall season ranked eighth in Division III. It begins its spring season April 3 and 4, 2010, at the Illinois College Spring Tourney in Jacksonville, Ill.

Men's soccer splits a pair last week

The men's soccer team suffered its first loss, 3-2, at No. 8 Principia College Sept. 22.

The Bears rebounded to defeat Greenville College, 1-0, Sept. 25. Sophomore Kevin Privalle scored the first goal of his career.

The Bears (5-1-3) begin

University Athletic Association competition Sunday, Oct. 4, at Emory University.

Volleyball begins conference season

The volleyball team split a pair of dual matches last week, falling at Division II University of Missouri-St. Louis, 3-1, Sept. 22 and then defeating Fontbonne University, 3-0, Sept. 23.

The Bears were back on track with a sweep over Fontbonne the next night.

Sophomore Lauren Budde paced the offense with 13 kills and a .357 hitting percentage.

WUSTL (12-3) begins University Athletic Association regular season competition Saturday, Oct. 3, taking on Brandeis University in Rochester, N.Y.

Cross country teams finish second

The men's and women's cross country teams turned in impressive performances to finish second at the Southern Illinois University Saluki Invitational Sept. 26 in Carbondale, Ill.

The men placed second out of a field of seven, while the women's team was second out of six schools.

Southern Illinois University Carbondale took first in both races, while the men's team defeated NCAA Division I Murray State University and the University of Evansville, and the women finished ahead of Evansville and Southern Illinois University Edwardsville.

Both teams return to action Saturday, Oct. 3, for the Greater Louisville Classic in Louisville, Ky.

Arts & Sciences names new chairs, directors

Five new department and program heads have been named in Arts & Sciences.

Jean Allman, Ph.D., the J.H. Hexter Professor in the Humanities in Arts & Sciences, succeeds Hillel J. Kieval, Ph.D., the Goldstein Professor of Jewish History and Thought, as chair of the Department of History.

Daniel M. Bornstein, Ph.D., the Stella Koetter Darrow Professor of Catholic Studies in Arts & Sciences, succeeds Beata Grant, Ph.D., professor of Chinese and of religious studies in Arts & Sciences, as chair of the Department of Religious Studies.

Garrett Albert Duncan, Ph.D., associate professor of education in Arts & Sciences, succeeds John Baugh, Ph.D., the Margaret Bush Wilson Professor in Arts & Sciences, as director of the program in African and African American studies.

Judith Evans-Grubbs, Ph.D., professor of classics, succeeds Susan Rotroff, Ph.D., the Jarvis Thurston and Mona Van Duyn Professor in the Humanities, as chair of the Department of Classics.

In addition, Gaylyn Studlar, Ph.D., professor of film and media studies, succeeded Charles Barr in the Program in Film & Media Studies Jan. 1.

Jean Allman, History

Allman joined the history department in 2007 and was installed as the inaugural holder of the J.H. Hexter Professorship in the Humanities in Arts & Sciences in February 2008.

Her work is interdisciplinary in scope and addresses issues of interest to African and African American studies as well as women, gender and sexuality studies.

As an eminent historian of West Africa, her research explores the concepts of national identity, gender and colonialism; fashion and the politics of clothing; and the modernity of indigenous belief systems. Central to her work is the study of African contributions to the modern world.

Allman is the author or editor of six books and numerous articles and book chapters. Among the publications she has authored or co-authored are "Tongnaab: The History of a West African God" and "I Will Not Eat Stone": A Women's History of Colonial Asante."

She also has co-edited the Journal of Women's History as well as two critically received book series "The Social History of Africa" and "New African Histories." Her professional contributions include serving as a member of the board of directors of the Association for the Study of the Worldwide African Diaspora (2005-2011) and of the African Studies Association (2003-07).

Allman earned a bachelor's degree Phi Beta Kappa in history in 1979 and a doctorate in African history in 1987, both from Northwestern University.

Prior to joining WUSTL, Allman directed the Center for African Studies at the University of Illinois at Urbana-Champaign from 2003-06. She began her academic career at the University of Missouri in Columbia.

Daniel M. Bornstein, Religious Studies

Bornstein is a leading historian of religion in late-medieval and Renaissance Italy, of orthodox religious practice, and of the role of women in the Catholic Church.

He is well-known in academic circles for his study of the history of religion, specifically his ability to question the nature of religious life within the context of the traditional church.

Bornstein has authored or edited three books in addition to numerous articles, book chapters, conference papers and in-

vited lectures.

He has translated several medieval texts and is currently editing a volume on medieval Christianity for a seven-volume project called "A People's History of Christianity," the first volume of which was published in 2008.

His research has been supported by the National Endowment for the Humanities, the American Philosophical Society and the National Humanities Center, among others.

Professional involvement includes the American Society of Church History, the American Catholic Historical Association and the Society for Italian Historical Studies. He sits on the editorial boards of Rivista di Storia del Cristianesimo and Medievalia et Humanistica.

He earned a doctorate from the University of Chicago in 1985.

Garrett Albert Duncan, African & African American Studies

Duncan holds appointments in American culture studies, African and African American studies and urban studies, all in Arts & Sciences. His research focuses broadly on race, culture, education and society.

Along these lines, he has published extensively on black youth, identity, language, ethics and schooling in peer-reviewed journals, edited books, encyclopedias and other reference books.

His current project, "Race and Schooling in a Prison Society" examines the moral and political contexts of the education of black students in urban and suburban schools in post-Civil Rights Era North America.

This project is largely concerned with questions of race, citizenship and democracy in the contexts of post-industrialism and globalization and how these forces inform a school-to-prison pipeline.

Duncan is the immediate past vice president of Division G: Social Contexts of Education of the American Educational Research Association.

He earned a doctorate in education from The Claremont Graduate School.

Judith Evans-Grubbs, Classics

Evans-Grubbs is a leading scholar in the field of Roman history.

Her most recent book, "Women and the Law in the Roman Empire: A Sourcebook on Marriage, Divorce, and

Widowhood," collects, translates and discusses Latin and Greek sources for women's interaction with the law in the Roman Empire.

Her current project is a book titled "Children without Fathers in Roman Law: Paternity, Patrimony, and Freedom," which looks at children without a paterfamilias — children whose fathers have died, illegitimate children, children who were abandoned at birth and children who were sold or pledged into slavery by their impoverished parents.

Such children often existed in a very precarious position legally and socially, born free but liable to enslavement and exploitation.

She earned a doctorate in classics from Stanford University in 1987.

Gaylyn Studlar, Film & Media Studies

Studlar has written widely on feminist film theory and history, Hollywood cinema, genre studies, Orientalism and the relationship between film and other arts.

Her books include "This Mad Masquerade: Stardom" and "Masculinity in the Jazz Age and In the Realm of Pleasure: Von Sternberg, Dietrich, and the Masochistic Aesthetic."

In addition, she has co-edited four anthologies: "John Ford Made Westerns," "Visions of the East," "Reflections in a Male Eye: John Huston and the American Experience" and "Titanic: Anatomy of a Blockbuster." Her work has been translated into several languages.

She recently completed articles on masculinity in the documentaries of Michael Moore; mother/daughter discourse in 1920s Hollywood fan culture; the "textual queering" of Elizabeth Taylor as a child star; and on silent era "vampire" Theda Bara.

She is working on the book "Precious Charms: The Juvenation of Female Stardom in Classical Hollywood Cinema" for the University of California Press.

Studlar earned a doctorate in cinema studies in 1984 from the University of Southern California, where she also earned a master of music in cello performance.

She recently taught for 13 years at the University of Michigan, serving as the Rudolf Arnheim Collegiate Professor of Film Studies. She also served as director of the Program in Film and Media Studies.

Prior to that, she spent eight years on the faculty at Emory University.

Record

Founded in 1905 • Washington University in St. Louis community news

Volume 34, Number 8

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Record (USPS 600-430; ISSN 1043-0520). Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO 63130. Periodicals postage paid at St. Louis, MO.

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Washington University in St. Louis

School of Medicine Update

Registry to track children with infantile spasms

By BETH MILLER

Researchers have launched an online registry that ultimately aims to help children with a severe type of epilepsy that strikes in the first months of life.

It is believed to be the first worldwide registry of children with infantile spasms and is a collaboration between the School of Medicine and the University of Chicago.

Researchers plan to use the registry to look for similarities among children with the disorder to help lead to improved treatments, said Alexander Paciorkowski, M.D., instructor of neurology and medical geneticist at the School of Medicine and at St. Louis Children's Hospital.

Although the condition was first described in the 1840s, physicians and researchers still have many questions about possible causes and effective treatments.

"We need to learn more about infantile spasms, such as why some babies respond well to an injected hormone treatment and others don't, which medications are most effective in stopping spasms, what tests can help doctors decide which medication to use first, and why some babies with Down syndrome develop infantile spasms and some

do not," Paciorkowski said. "We believe that the data from this registry and genetic studies will help to answer some of those questions."



Paciorkowski

Infantile spasms, or West Syndrome, is a seizure disorder that begins before age 2 and accounts for about 25 percent of epilepsy diagnoses in babies under 12 months old. An infant's body will suddenly bend forward, resembling sit-ups. The infant may bend his or her arms and legs inward or throw them outward. The seizures occur often upon waking and may occur in clusters of up to 100 spasms at a time. The spasms can have a devastating impact on the baby's development, causing difficulty learning

how to sit, crawl, walk and talk. Paciorkowski developed the registry, at infantilespasms.wustl.edu, with Christina Gurnett, M.D., Ph.D., assistant professor of neurology, of pediatrics and of orthopedic surgery; Liu Lin Thio, M.D., Ph.D., assistant professor of neurology, of pediatrics and of anatomy and neurobiology

and director of the Pediatric Epilepsy Center at St. Louis Children's Hospital; and William B. Dobyns, M.D., professor of human genetics, of neurology and of pediatrics at the University of Chicago Medical Center.

In addition to collecting data through the registry, the researchers plan to ask parents to volunteer DNA samples from their children with the disorder to look for genes that might be playing a role.

"Currently, we know about a few genes, but there are probably more," Paciorkowski said. "If we are able to identify the genes that cause infantile spasms, we hope to develop better medicines to help stop them."

The traditional treatment for infantile spasms is an injected hormone called adrenocorticotrophic hormone (ACTH), which has the potential for serious side effects. Treatments also can include other antiseizure medications or a medically supervised high-fat, low-carbohydrate diet.

Parents of children who were diagnosed with infantile spasms prior to age 2 may register their child at no cost.

For more information on the registry or the genetic studies, contact Paciorkowski at paciorkowskia@neuro.wustl.edu or 454-6120.



Genes and beans (From left) Jaray Brady, Sarah Buckingham and Raquel Ashley, students at Central Visual and Performing Arts High School, participate in an exercise in natural selection during a visit to the School of Medicine Sept. 14. The students used forks, chopsticks and spoons to pick up different sizes of beans to simulate trait variation and differential survival within a population of birds. Students competed against one another for food over multiple rounds (generations) and observed how natural selection can alter the frequency of different traits over time within a population. The activities were organized by the Young Scientist Program — Evolution/Genetics/Genomics Teaching Team.

Gene regulates immune cells' ability to harm the body

By MICHAEL C. PURDY

A recently identified gene allows immune cells to start the self-destructive processes thought to underlie autoimmune diseases such as multiple sclerosis (MS) and rheumatoid arthritis, School of Medicine researchers have found.

Researchers showed that mice without the Batf gene lacked a type of inflammatory immune cell and were resistant to a procedure that normally induces an autoimmune condition similar to human MS. They plan to look for other genes and proteins influenced by Batf that could be targets for new treatments for autoimmune diseases.

"Batf allows immune cells to head down a pathway that's been a very hot topic in immunology because of its potential links to autoimmune disease," said senior author Kenneth Murphy, M.D., Ph.D., professor of pathology and immunology and a Howard Hughes Medical Institute investigator. "We showed that Batf regulates the only other gene previously revealed to control this pathway, so Batf may have quite a bit to teach us about autoimmunity."

The findings appeared in a recent issue of *Nature*.

Lead author Barbara Schraml,

Ph.D., a former graduate student, found that the loss of Batf affected immune cells known as T cells. Normally T cells take on specialized roles, becoming cells that promote various defensive responses or that recruit inflammatory cells to sites of infection. In mice without Batf, though, one of those roles was blocked: the mice had no inflammatory Th17 cells.

Murphy and other researchers first identified the Th17 pathway four years ago. While such cells help defend the body from bacterial infections, scientists have found that IL17, an inflammatory compound made by Th17 cells, is

frequently present at sites of active autoimmune disease.

Batf is a transcription factor, which means that the protein made from the gene acts to turn the production of proteins from other genes on and off. Its only previously identified role was as a partner with another common transcription factor.

Schraml showed that Batf had to be present for Th17 cells to make ROR-gamma-T, the only other gene known to force T cells to become Th17 cells. She also found that the presence of Batf made it possible for T cells to make more IL17.

Nominees for Goldstein Leadership Awards sought

It's time to nominate School of Medicine faculty for the 2009 Samuel R. Goldstein Leadership Awards in Medical Student Education.

Three awards of \$5,000 each are provided annually through a gift from Samuel R. Goldstein. The awards acknowledge faculty leadership in medical student education and the tradition and responsibility teaching faculty demonstrate in training the best and brightest medical students to become physicians who practice medicine of the highest quality.

School of Medicine faculty members who are involved in teaching medical or MSTP students are eligible for nomination.

To nominate a faculty member, individuals must complete a form available at internalcompetitions.wustl.edu/ocfr/grants.nsf/Achievement?OpenView and submit to witzelc@wusm.wustl.edu. The deadline for nominations is 5 p.m. Oct. 12.

Cells in fruit fly gut can prompt tumor growth

By GWEN ERICSON

Tumor growth can start from stem cells in the gut, say School of Medicine researchers studying fruit flies.

They found that tumors can grow from adult stem cells that have lost a specific tumor-suppressor gene. The gene, Apc, has previously been implicated in human gastrointestinal cancers, including colon cancer, the second-leading cause of cancer-related death in the Western world.

"A long-standing question in cancer biology is 'Do tumors arise from specific cell types?'" said lead author Craig A. Micchelli, Ph.D., assistant professor of developmental biology. "We asked what happens when the Apc gene is specifically disabled in fruit fly intestinal stem cells, and we observed that the mutant cells proliferate rapidly to create tumors. Our studies demonstrate that adult stem cells in the intestinal tract of fruit flies can function as a cell of origin for tumorigenesis."

The study was published in the journal *Development*.

In the gut of mature fruit flies, a population of stem cells exists to maintain the gut lining. When cells lining the intestinal tract die

or are sloughed off, stem cells divide to produce replacements. Normally, just a couple thousand stem cells reside in a fruit fly's gut and divide as needed to keep the gut healthy.

When the researchers selectively knocked out the Apc gene in these cells, they saw that the cells divided rapidly, forming masses of cells that protruded into the gut interior. These tumor-like masses had characteristics very like those of adenomas of the human gastrointestinal tract. Adenomas are benign tumors that can become malignant.

The Apc gene is often missing in people with the hereditary colon cancer syndrome familial adenomatous polyposis. Without surgery to remove all or part of the colon, colon cancer is virtually inevitable in those with Apc loss.

"The fruit fly now provides a powerful genetic model system that can be used to study the earliest steps of gastrointestinal tumorigenesis," Micchelli said.

"The system can also be used to identify new genes that suppress the rapid proliferation caused by loss of Apc. Such genes constitute novel drug targets capable of retarding tumor growth at a very early stage."

Murray named chief of pediatric anesthesiology

By JIM DRYDEN

David J. Murray, M.D., has been appointed chief of the Division of Pediatric Anesthesiology.

Murray, the Carol B. and Jerome T. Loeb Professor and head of medical simulation at the School of Medicine, also becomes anesthesiologist-in-chief at St. Louis Children's Hospital. He was appointed to the new position by Alex S. Evers, M.D., the Henry Elliot Mallinckrodt Professor and head of the Department of Anesthesiology.

"David Murray is a great fit for this position," Evers said. "He has developed one of the best Clinical Simulation Centers in the world and has used simulation to make important contributions in both education and research. He is a national leader in academic pediatric anesthesiology and is a highly competent and compassionate physician who provides exceptional care for children."

Murray came to WUSTL in 1995. Previously, he had been at the University of Iowa Hospitals

and College of Medicine. He earned a medical degree from the University of Saskatchewan and completed residency training in anesthesiology at the University of Iowa.

"I feel very fortunate to be chosen for this position," Murray

said. "The continued expansion and national recognition of the surgical divisions at St. Louis Children's Hospital and Washington University make this an

exciting time to be selected to lead the division as anesthesiologist-in-chief."

Murray has served as director of the Clinical Simulation Center since it opened in 1996. Since then, he has designed and implemented a number of training and assessment programs for health professionals.



Murray

University Events

GrooveLily returns to Edison with 'Beauty' of a show

BY LIAM OTTEN

Fairy tales do come true — sort of. Just ask Sleeping Beauty, whose 900 years of enchanted rest finally come to an end in a modern-day sleep disorder clinic, far from the land of far, far away.

Welcome to "Sleeping Beauty Wakes," an artfully twisted take on the classic children's story, by theatrical power-pop trio GrooveLily. The acclaimed indie troubadours return to St. Louis for a pair of performances at 8 p.m. Friday and Saturday, Oct. 2 and 3, as part of the Edison Theatre OVATIONS Series.

Spanning rock, folk, jazz and pop, GrooveLily combines lush musical textures with soaring vocals and witty, character-driven lyrics. The group consists of the husband-and-wife team of Valerie Vigoda, who performs on a six-string electric violin, and keyboardist Brendan Milburn, along with drummer Gene Lewin. All three musicians share vocal duties.

"Sleeping Beauty Wakes," which unfolds entirely through song, reunites GrooveLily with Tony Award-winning librettist Rachel Sheinkin, perhaps best known for her book "The 25th Annual Putnam County Spelling Bee." They previously collaborated on the inventive holiday tale



The acclaimed trio GrooveLily — (from left) Brendan Milburn, Valerie Vigoda and Gene Lewin — brings its artfully twisted tale "Sleeping Beauty Wakes" to Edison Theatre Oct. 2 and 3.

"Striking 12" (inspired by Hans Christian Andersen's "The Little Match Girl"), which came to Edison Theatre in 2007.

As the show opens, the still-unconscious Beauty is surrounded by a chorus of fellow patients, variously suffering from insomnia, sleepwalking, night terrors, restless leg syndrome and other ailments. Replacing Prince Charming at her bedside is the watchful (and smitten) Orderly, who dims the lights and gently encourages Beauty to:

"Settle down
Safe and sound

Under your blanket."

This quiet waking life is mirrored by the tempestuous world of Beauty's subconscious dreams, which recount the story of her birth to a long-suffering King and Queen.

As the kingdom celebrates, Beauty's happy parents neglect to invite the Bad Fairy to pay respects, thus tempting magical retribution. Though the princess quickly emerges as smart and beautiful, she also grows headstrong and rebellious, flirting with trouble, danger and the Groundskeeper's Son.

The Hollywood Reporter called "Sleeping Beauty Wakes" "a beguiling tour de force that looks at love, sleep and time by setting the familiar fairy tale in an innovative performing context." Music Connection Magazine added, "GrooveLily has an intelligent poppiness perfect for grown-up tastes."

Originally commissioned for the stage by The Deaf West Theater Company, "Sleeping Beauty Wakes" debuted in 2007 at the Center Theatre Group's Kirk Douglas Theatre in Los Angeles. That production, which featured both deaf and hearing actors, won Ovation Awards for World Premiere Musical and Best Musical Direction as well as a Best Lead Actress nomination for Vigoda.

PS Classics released a "Sleeping Beauty Wakes" studio recording earlier this year. The group currently is developing a theatrical version, with support from the McCarter Theatre in Princeton, which likely will debut in 2010.

Vigoda, who founded GrooveLily (originally "The Valerie Vigoda Band") in 1994, is a classically trained musician and Princeton honors graduate as well as a former lieutenant in the U.S. Army. She has toured the world with Cyndi Lauper (opening for Tina Turner and Cher), Joe Jackson and the Trans-Siberian

Orchestra.

Milburn is a graduate of New York University's prestigious Tisch School of the Arts Graduate Musical Theatre Writing Program. An accomplished record producer, he also does much of the group's arranging and serves as musical director.

Lewin, also a Princeton graduate, earned a master's degree from the Manhattan School of Music and has toured and/or recorded with Audra McDonald, George Coleman, John Patitucci and many others.

"Sleeping Beauty Wakes" is GrooveLily's third "concert musical," following "Striking 12" and "Long Story Short," a rollercoaster romance adapted from David Schulner's play "An Infinite Ache."

Other GrooveLily shows include "Toy Story the Musical" for Disney; "Ernest Shackleton Loves Me"; and "A Little Midsummer Night's Music," which collects songs written and performed for director Tina Landau's 2006 musical version of Shakespeare's "A Midsummer Night's Dream."

Tickets — \$20 for students and children; \$28 for seniors, faculty and staff; and \$32 for the public — are available at the Edison Theatre Box Office and through all MetroTix outlets. For more information, call 935-6543 or e-mail edison@wustl.edu.

The Weird • Vertebrate Vision • Earth's Deep Water Cycle

"University Events" lists a portion of the activities taking place Oct. 1-14 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

"A Challenge to Democracy: Ethnic Profiling of Japanese Americans During World War II." Oct. 2. (7 p.m. opening reception.) Kemper Art Museum. For information: humanvalues.wustl.edu.

"Chance Aesthetics." Through Jan. 4. Kemper Art Museum. 935-4523.

"Metabolic City." Through Jan. 4. Kemper Art Museum. 935-4523.

"My Right Self: Transgender Considerations." Through Oct. 9. Farrell Learning & Teaching Center Atrium. zintem@wusm.wustl.edu.

Film

Thursday, Oct. 1

5 p.m. Center for the Study of Ethics & Human Values Film. "Ethnic Profiling: A Challenge to Democracy" series. "A Powerful Noise." (Panel Discussion follows.) Danforth University Center, Rm. 276. humanvalues.wustl.edu.

7 p.m. Japanese Film Series. "Princess Mononoka." McMillan Hall, Rm. 149. 935-5110.

Thursday, Oct. 8

7 p.m. Korean Film Series. "The Good, the Bad, the Weird." Kim Ji-woon, dir. Seigle Hall, Rm. L004. 935-5110.

Lectures

Thursday, Oct. 1

11:15 a.m.-7 p.m. Alzheimer's Disease Research Center Symposium. Leonard Berg Symposium. "Presymptomatic Detection of Dominantly Inherited Alzheimer's Disease." (Continues 7:30 a.m.-12:45 p.m. Oct. 2.) Eric P. Newman Education Center. To register: 286-2882.

Noon. Genetics Seminar. "Two Views of Brain Function." Marcus E. Raichle, prof. radiology. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. Vision Science Seminar Series. "Regulation of G Protein Signaling in Vertebrate Vision." Theodore G. Wensel, prof. of biochemistry, Baylor College of Medicine. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. "What's Going on at Enceladus?" Francis Nimmo, assoc. prof. of earth & planetary sciences, U. of Calif., Santa Cruz. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

6 p.m. East Asian Studies Lecture. Annual Nelson I. Wu Memorial Lecture. "The Sensuous & the Sacred in the Art of India." Vidya Dehejia, prof. of Indian and South Asian art, Columbia U. Saint Louis Art Museum Aud., 1 Fine Arts Drive. 935-4448.

Friday, Oct. 2

7:30 a.m.-5:15 p.m. Neurology CME Course. "Pediatric Neurotherapeutics." (Continues 8 a.m.-12:35 p.m. Oct. 3.) Cost: \$270. Eric P. Newman Education Center. To register: 362-6891.

10 a.m. East Asian Studies Lecture. "The Unfinished: Indian Stone Carvers at Work." Vidya Dehejia, prof. of Indian and South Asian art, Columbia U. Busch Hall, Rm. 18. 935-4448.

11 a.m. Computer Science & Engineering Colloquium. "Silicon Meets Concrete: Towards Embedded Self-Powered Structural Health Monitoring Sensors and Processors." Shantanu Chakrabarty, asst. prof. of electrical & computer engineering, Mich. State U. Cupples II Hall, Rm. 217. 935-6160.

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. "How Does the Atomic Water Structure at Solid-Liquid Interfaces Determine Macroscopic Properties?" Alberto Striolo, prof. of chemical, biological & materials engineering, U. of Okla. Lopata Hall, Rm. 101. 935-5548.

Noon. Cell Biology & Physiology Lecture. "Huntington Disease: ROCK, Profilin, Aggregation ... and Cancer?" Marc Diamond, assoc. prof. of neurology. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

6 p.m. Center for the Study of Ethics & Human Values Discussion. "Remembering the Internment: A Conversation by the Sons of Chiura Obata and Ansel Adams Featuring Gyo Obata and Michael Adams." Part of "Ethnic Profiling: A Challenge to Democracy" series. Sponsored by Gephart Inst. for Public Service, the Freshman Reading Program and Political Science Student Association. Steinberg Aud. 935-9358.

Saturday, Oct. 3

2 p.m. Center for the Study of Ethics & Human Values Lecture. "Ansel Adams: Photographs of Manzanar and the West." Includes a slide presentation. Kemper Art Museum, Rm. 103. For information: humanvalues.wustl.edu.

Sunday, Oct. 4

2 p.m. Center for the Study of Ethics & Human Values Lecture. "The Art and Life of Chiura Obata." Includes a slide presentation. Kemper Art Museum, Rm. 103. For information: humanvalues.wustl.edu.

Monday, Oct. 5

Noon. Center for New Institutional Social Sciences Lecture. "Is the West Merely a Culture?" Amnon Rubenstein, dean, Interdisciplinary Center-Herzliya Law School, Israel. Co-sponsored by McDonnell International Scholars Academy and the Whitney R. Harris World Law Institute. Women's Bldg., Formal Lounge. 935-5068.

Noon. Siteman Cancer Center Prevention & Control Group Special Seminar. "Changing the Paradigm of Lung Cancer Chemopreventive Trials." Stephen Lam, prof. of medicine, U. of British Columbia. Center for Advanced Medicine, Farrell Conference Rm. 1. 454-8981.

Noon. Work, Families and Public Policy Brown Bag Seminar Series. "Should Economists Start Practicing Economics?" Laurence Kotlikoff, prof. of economics, Boston U. Seigle Hall, Rm. 348. 935-4918.

4 p.m. Immunology Research Seminar Series. "Alternative Strategies for Pathogen Recognition by Classical Vs. Innate CD8 T Cells." Ted Hansen, prof. of pathology & immunology, Farrell Learning & Teaching Center, Connor Aud. 362-2763.

7 p.m. Center for the Study of Ethics & Human Values Panel Discussion. "Sharing Personal Accounts of the U.S. Japanese Internment Camps During WWII." (Reception follows.) Women's Bldg. For information: humanvalues.wustl.edu.

Tuesday, Oct. 6

10 a.m. Dining Services Presentation. "How Mollie's Cuisine has Evolved and How the Center of the Plate has Changed." Mollie Katzen, author. (Book signing follows.) Campus Bookstore, Mallinckrodt Center. 935-5028.

11 a.m. Center for New Institutional Social Sciences Lecture. "The Partial Constitutional Legal System in Israel." Amnon Rubenstein, dean, Interdisciplinary Center-Herzliya Law School, Israel. Co-sponsored by McDonnell International Scholars Academy and the Whitney R. Harris World Law Institute. Seigle Hall, Rm. 301. 935-5068.

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "HIV-1 Resistance to CCR5 Antagonists." Daniel Kuritzkes, prof. of medicine, Harvard Medical School. Cori Aud., 4565 McKinley Ave. 362-5677.

5 p.m. Freedom From Smoking Class. "Quit Day." Center for Advanced Medicine, Barnard Health and Cancer Info. Center. To register: 362-7844.

5 p.m. Women, Gender and Sexuality Studies Book Discussion. "Masters of Sex: The Life and Times of Williams Masters and Virginia Johnson." Thomas Maier, author. (Panel discussion follows.) McMillan Cafe. 935-5102.

5:30 p.m. Cardiac Bioelectricity & Arrhythmia Center Seminar. "New Insights in Pathological Cardiac Remodeling." Anthony Muslin, prof. of cell biology and physiology. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

Wednesday, Oct. 7

Noon. History & Philosophy of Science & Medicine Seminar Series. "Evolutionary Restraints: The Contentious History of Group Selection from Darwin to E.O. Wilson." Mark Borello, asst. prof. of ecology, evolution and behavior, U. of Minn. Life Sciences Bldg., Rm. 202. 935-5137.

4 p.m. Assembly Series. Elliot Stein Lecture in Ethics. Harold Ford Jr., chair, Democratic Leadership Council. Graham Chapel. 935-5285.

4 p.m. Women, Gender and Sexuality Studies Global and Transnational Lecture Series. "The Politics of the War on Sex Trafficking: A View from the South." Kamala Kempadoo, assoc. prof. of social work, York U. McMillan Cafe. 935-5102.

5 p.m. Ophthalmology & Visual Sciences Seminar. Annual Daniel Bisno Memorial Lecture on Ethics in Ophthalmology. "Honor, Integrity and the Physician's Code." Aine Donovan, exec. dir., Ethics Inst., Dartmouth College, and Nancy Holekamp, prof. of ophthalmology & visual sciences. Farrell Learning and Teaching Center, Connor Aud. 362-5722.

Thursday, Oct. 8

Noon. Genetics Seminar. "Function and Evolution of Enhancers in Drosophila Development — The Informatics Approach." Saurabh Sinha, asst. prof. of computer science, U. of Ill. at Urbana-Champaign. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

3 p.m. Siteman Cancer Center Basic Science Seminar Series. Luis F. Parada, chair in developmental biology, U. of Texas Southwestern Medical Center. Eric P. Newman Education Center, Seminar B. 454-7029.

4 p.m. Office of Technology Management Technology Commercialization Seminar Series. "Obtaining Sponsored Research and Building Industry Relationships." Farrell Learning and Teaching Center, Connor Aud. 747-0908.

4 p.m. Vision Science Seminar Series. "Activity and the Organization of Retinal Circuits." Daniel Kerschensteiner, asst. prof. of ophthalmology and visual sciences. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. "Effects of Hydration on the Elastic Properties of Mantle Materials and Earth's Deep Water Cycle." Steven D. Jacobsen, asst. prof. of earth & planetary sciences, Northwestern U. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

5 p.m. Freedom From Smoking Class. "Recovery and Support." Center for Advanced Medicine, Barnard Health and Cancer Info. Center. To register: 362-7844.

7 p.m. Center for the Study of Ethics & Human Values Panel Discussion. "Security Based Ethnic Profiling." Part of "Ethnic Profiling: A Challenge to Democracy" series. Co-sponsored by the School of Law. Umrah Hall Lounge. humanvalues.wustl.edu.

Friday, Oct. 9

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. "Aggregation and Bacterial Cytotoxicity of Carbon-Based Nanomaterials in Aquatic Environments." Menachem Elimelech, prof. of environmental and chemical engineering, Yale U. Lopata Hall, Rm. 101. 935-5548.

4 p.m. Assembly Series. Jason Green, deputy associate general counsel to President Barack Obama. Wilson Hall, Rm. 214. 935-4620.

7 p.m. Diversity Programs Lecture. Annual Homer G. Phillips Public Health Lecture Series. Harriet Washington, author of "Medical Apartheid: The Dark History of Medical Experimentation With African Americans From the Colonial Era to the Present." (6 p.m. dinner, 8 p.m. panel discussion.) Eric P. Newman Education Center. To R.S.V.P.: 362-6854.

Saturday, Oct. 10

7:30 a.m.-7 p.m. Cardiovascular Disease CME Course. "Annual Update in Cardiovascular Diseases." Cost varies. The Chase Park Plaza, 212 N. Kingshighway Blvd. To register: 362-6891.

7:30 a.m.-5 p.m. Neurology, Neurosurgery and Radiology CME Course. "Brain Attack! 2009: Networks and New Therapies." Cost: \$185 for physicians, \$145 for allied health professionals. Eric P. Newman Education Center. To register: 362-6891.

Green Your Office

Small items like caps and lids can be recycled along with containers, as can Post-its, envelope inserts, staples, clips and labels with paper, so leave them on when recycling.

'Chance' concert Oct. 7

Since the early 20th century, avant-garde writers, artists and composers have championed the creative possibilities of the arbitrary and the accidental. Next week, the Department of Music and the Dance Program in the Performing Arts Department (PAD), both in Arts & Sciences, and the Mildred Lane Kemper Art Museum will host a concert exploring the use of chance in modern and contemporary music.

The performance — held in conjunction with the exhibition "Chance Aesthetics," now on view at the Kemper Art Museum — is free and open to the public and begins at 7 p.m. Wednesday, Oct. 7, in the 560 Music Center's E. Desmond Lee Concert Hall.

Immediately preceding the concert, at 6:45 p.m., will be introductory remarks by Meredith Malone, Ph.D., assistant curator of the Kemper Art Museum, who organized the "Chance Aesthetics" exhibition; and Bruce Durazzi, Ph.D., assistant professor of music theory.

The performance will begin with "Music of Changes Book IV: New York, December 13," a piece for solo piano by experimental composer John Cage. Performer will be Peter Henderson of Maryville University.

Next on the program will be "The Oracle," a new improvisatory work based on a mobile

hanging from the ceiling of the E. Desmond Lee Concert Hall. Performers will be guitarist William Lenihan, director of jazz performance; percussionist Henry Claude, teacher of applied music; and cellist Tracy Andreotti.

In addition, the performance will feature three dancers: Mary-Jean Cowell, Ph.D., associate professor and coordinator of the Dance Program; David Marchant, senior lecturer in dance; and Ting Ting Chang, Ph.D., the Andrew Mellon Postdoctoral Fellow in Dance.

Following intermission, the program will conclude with "In C," a classic 1964 work by Terry Riley.

Performers for the "Chance Aesthetics" iteration will include Claude, Lenihan and Andreotti as well as cellist Elizabeth Macdonald, director of strings; guitarist Vince Varvel, pianist Amanda Kirkpatrick and saxophonist Adrienne Honnold, all teachers of applied music; violist Laura Rey craft, an instructor at City Academy; and clarinetist Dana Hotle, a faculty member of Webster University's Community Music School.

A reception will immediately follow the concert in the Music Center's Ballroom Theatre. For more information, call 935-5566 or e-mail kschultz@artsci.wustl.edu.

Assembly Series talks politics

Ford a 'living embodiment of where America ought to go'

Harold Ford Jr. once was described by President Bill Clinton as "the walking, living embodiment of where America ought to go in the 21st century."

The former five-term congressman from Tennessee will be on campus at 4 p.m. Wednesday, Oct. 7, in Graham Chapel to give this year's Elliot Stein Lecture in Ethics for the Assembly Series. The event is free and open to the public.

During his five terms as a Democratic congressman from Tennessee, Ford served on both the financial services and the budget committees, where he advocated for free enterprise and balanced budgets.

Although he lost a close bid for a Senate seat in 2006, he continues to be actively involved in the party and currently serves as chair of

the Democratic Leadership Council.

In addition to providing political analysis on NBC and MSNBC, he teaches at New York University's Robert F. Wagner Graduate School of Public Service.

Ford also serves on the Pentagon's Transformation Advisory Group, an assembly of military commanders, political figures, academics and business leaders who advise the Pentagon on modernizing the Armed Forces.

He also is an overseer on the board of the International Rescue Committee, a humanitarian relief organization, and serves as a member of the Council on Foreign Relations.

— Barbara Rea



Ford

Green to recall road from WUSTL to the White House

The leadership skills Jason Green acquired while a student at Washington University, coupled with his lifelong desire for public service, helped put him on a fast track to the White House.

The alumnus, who now serves as deputy associate general counsel to President Barack Obama, returns to campus at 4 p.m. Oct. 9 in Wilson Hall, Room 214, to give an Assembly Series/Leadership Lecture Series presentation. His talk is free and open to the public.

Green also is returning to participate in a Student Union reunion Oct. 9-11. Student Union alumni will meet with current students to talk about their student leadership experiences and how the experiences shaped their lives after graduation.

Green cut his leadership teeth as an Arts & Sciences senator, Student Union vice president and senior class president.

These experiences proved useful as he volunteered for various political campaigns, including the John Kerry presidential campaign in 2004.

After earning degrees in political science and finance in 2003, Green entered Yale Law School. While at Yale, Green joined Obama's presidential campaign in the fall of 2007, helping to organize field workers and directing policy.

Just days after graduating from law school, Green became director of Obama's Get Out the Vote, a key grassroots initiative that registered millions of new voters.

At the White House, he is responsible for reviewing legislation on domestic policy and drafting legal briefs.

For more information on either of these lectures, visit assemblyseries.wustl.edu, or call 935-4620.

— Barbara Rea



Green

Ducornet to speak for Reading Series

Author Rikki Ducornet, the Visiting Fannie Hurst Professor of Creative Literature in The Writing Program in Arts & Sciences, will read from her work at 8 p.m. Thursday, Oct. 1.

In addition, Ducornet will lead a talk on the craft of fiction at 8 p.m. Thursday, Oct. 8.

Both events — presented as part of The Writing Program's fall Reading Series — are free and open to the public and take place in Duncker Hall, Room 201, Hurst Lounge. A reception and book signing will immediately follow each.

Ducornet is the author of seven novels, including "The Fan Maker's Inquisition" — a Los Angeles Times Book of the Year — and "The Jade Cabinet," a finalist for the National Book Critics' Circle Award.

Other books include three collections of short fiction — most recently, "The One Marvelous Thing" — as well as five books of poetry and a collection of essays. In 2004, Ducornet received the

Lannan Literary Award in Fiction. Other honors include a Lannan Fellowship and an Academy Award from the American Academy of Arts and Letters.

In addition to her writing, Ducornet is an accomplished artist whose drawings have been widely exhibited in the United States and abroad, most recently at the Museo de la Solidaridad in Santiago, Chile. She has illustrated books by Jorge Luis Borges and Robert Coover as well as her own short story, "The Volatilized Ceiling of Baron Munodi."

Ducornet was born in New York in 1943 and earned a bachelor's degree from Bard College in Annandale-on-Hudson, N.Y. (where she is said to have inspired future Steely Dan band member Donald Fagen to pen the song "Rikki Don't Lose That Number"). She has lived in France, Algeria, Egypt and Chile and currently resides in Denver.

For more information, call 935-7130 or e-mail David Schuman at dschuman@wustl.edu.



Ducornet

Monday, Oct. 12

4 p.m. Immunology Research Seminar Series. "Actin Assembly and Signaling at Membranes: Mechanism and Regulation." John Cooper, prof. of cell biology & physiology, Farrell Learning & Teaching Center, Connor Aud. 362-2763.

6:30 p.m. Center for the Study of Ethics & Human Values Lecture. "An American Diary." Roger Y. Shimomura, artist. Part of "Ethnic Profiling: A Challenge to Democracy" series. Co-sponsored by the Sam Fox School of Design & Visual Art. Steinberg Aud. humanvalues.wustl.edu.

Tuesday, Oct. 13

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Say Hello to Your Little Friends: How Gut Bacteria Shape Intestinal Immune Health." Sarkis Mazmanian, asst. prof. of biology, Calif. Inst. of Technology, Cori Aud., 4565 McKinley Ave. 286-2890.

12:15-3:30 p.m. Clinical Research Training Center Research Ethics Workshop. (Lunch served.) Co-sponsored by the Program for the Ethical and Responsible Conduct of Science and Scholarship. Farrell Learning and Teaching Center, Connor Aud. Registration required: rei@msnotes.wustl.edu.

5 p.m. Freedom From Smoking Class. "Stress Management and Weight Control." Center for Advanced Medicine, Barnard Health and Cancer Info. Center. To register: 362-7844.

5:30 p.m. Biochemistry & Molecular Biophysics Biophysical Evenings Seminar. "Putting Nanomaterials to Work for Biomedical Research." Younan Xia, prof. of biomedical engineering, Cori Aud., 4565 McKinley Ave. 362-4152.

Wednesday, Oct. 14

3:30 p.m. History Colloquium. "Arab Perceptions of the Ottomans in the Early Modern Period: Oppression, Acquiescence, or Enthusiasm?" Bruce Masters, prof. of history, Wesleyan U. (Reception follows.) Co-sponsored by Jewish, Islamic and Near Eastern Studies. Busch Hall, Rm. 18. 935-5450.

Music

Thursday, Oct. 1

8 p.m. Jazz at Holmes. Scott Alberici, clarinet, and his group. Performing music of the swing era. Ridgley Hall, Holmes Lounge. 862-0274.

Sunday, Oct. 4

2:30 p.m. Faculty Voice Recital. A Concert of French and Spanish music. Christ Church Cathedral. 935-5566.

Wednesday, Oct. 7

7 p.m. Concert. "Chance Aesthetics." (Panel discussion included.) E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-5566.

8 p.m. Concert. Jazz Band. Ridgley Hall, Holmes Lounge. 935-5566.

Thursday, Oct. 8

8 p.m. Jazz at Holmes. Miles Davis tribute recreating "Birth of the Cool." Ridgley Hall, Holmes Lounge. 862-0274.

Saturday, Oct. 10

2 p.m. Faculty Recital. Martin Kennedy, E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-5566.

Sunday, Oct. 11

3 p.m. Concert. Symphony Orchestra. E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-5566.

Sports

Saturday, Oct. 3

1 p.m. Football vs. Rhodes College. Francis Field. 935-4705.

1 p.m. Swimming and Diving vs. Saint Louis U. Athletic Complex. 935-4705.

Friday, Oct. 9

5:15 p.m. Volleyball vs. Elmhurst College. Washington University Invitational. Francis Field. 935-4705.

7:30 p.m. Volleyball vs. Central College. Washington University Invitational. Francis Field. 935-4705.

Saturday, Oct. 10

11 a.m. Volleyball vs. U. of Wis.-La Crosse. Washington University Invitational. Francis Field. 935-4705.

Sunday, Oct. 11

11 a.m. Men's Soccer vs. Carnegie Mellon U. Francis Field. 935-4705.

Gephardt Institute grants available for community-based courses

The Gephardt Institute for Public Service invites faculty from all disciplines to apply for grants to support community-based teaching and learning, also known as service-learning, engaged research or experiential education.

Service-learning already is used in more than 40 courses across the University. The distinguishing features include applied learning activities in service to an organization or community, faculty direction and oversight, and related course content and assignments.

To support the development and implementation of courses that include community-based learning at the undergraduate and graduate levels, the institute will provide up to five faculty grants of

\$2,500 each. Grant funding can be applied to supplies, summer salary, faculty assistance and other expenses.

"This grant program includes the opportunity for faculty who embrace this pedagogy to network and share effective practices through regular cohort meetings," said Amanda Moore McBride, Ph.D., institute director and assistant professor at the George Warren Brown School of Work.

"Our goal is to provide support and technical assistance so that students across the University have the ability to apply their learning toward real-life challenges," McBride said.

Applications are available by contacting Jenni Harpring, institute program manager, at 935-8182 or jharpring@wustl.edu.

1:30 p.m. Women's Soccer vs. Carnegie Mellon U. Francis Field. 935-4705.

Tuesday, Oct. 13

7 p.m. Men's Soccer vs. Fontbonne U. Francis Field. 935-4705.

On Stage

Friday, Oct. 2

8 p.m. OVATIONS Series. "Sleeping Beauty Wakes." GrooveLily. (Also 8 p.m. Oct. 3.) Cost: \$32, \$28 for seniors, WUSTL faculty & staff, \$20 for students & children. Edison Theatre. 935-6543.

Saturday, Oct. 3

8 p.m. Center for the Study of Ethics & Human Values Performance. "Dust Storm: Art and Survival in a Time of Paranoia." (Also 4 p.m. Oct. 4.) Steinberg Aud. For information: humanvalues.wustl.edu.

And More

Tuesday, Oct. 6

12:30 p.m. Dining Services Farmer's Market and Book Signing. Mollie Katzen, author. Danforth University Center, East Courtyard. 935-5028.

4-8 p.m. Dining Services Farm Party. Meet Mollie Katzen, iron chef competition, farm tours & bluegrass music. The Burning Kumquat student garden. 935-5028.

Diversity grant reminder

The deadline for Diversity and Inclusion Grant applications, offered by the Coordinating Council for Diversity Initiatives, is Oct. 15.

The grants are available for initiatives that improve the campus environment for women and members of underrepresented minority groups who are on faculty or staff at WUSTL. Awards will range in size from \$20,000-\$50,000.

Examples of possible proposals include recruiting events and workshops; the development and/or review of diversity-related curricula; mentoring programs; diversity awards programs; and travel funds to attend diversity recruitment meetings. Successful proposals will be collaborative, demonstrate tangible results and include departmental- or school-funded support (monetary or other).

For more information, visit diversity.wustl.edu.

Seigle Hall receives LEED certification

By JESSICA DAUES

The Harry and Susan Seigle Hall has received Leadership in Energy and Environmental Design (LEED) certification from the U.S. Green Building Council (USGBC).

The LEED rating system is a third-party certification program for the design, construction and operation of environmentally friendly buildings. Seigle Hall, which opened last fall, is the fourth LEED-certified building on the Danforth Campus.

LEED-certified construction is part of the University's strategy to reduce its environmental impact, manage its financial resources and improve indoor environments.

"We are pleased with this recognition of the University's commitment to being a sustainability leader," said Henry S. Webber, executive vice chancellor for administration.

In order to become LEED certified, a project must earn a certain number of "points," which are awarded by the USGBC for following green practices. Such green practices include designing a landscape of native plants to eliminate the need for a permanent irrigation system; reducing energy consumption by controlling lighting and air-conditioning in unoccu-

pied spaces; and implementing an air-quality management plan during construction.

Seigle Hall received points for the previously mentioned criteria and the building's other green features, including low-flow bathroom fixtures that reduce water usage by 41 percent; efficient heating, cooling and ventilation systems that reduce energy consumption by 22 percent; and building materials that were locally harvested and manufactured.

Other LEED-certified buildings on the Danforth Campus are the Village East student apartment building, Danforth University Center and Earth & Planetary Sciences Building.

Seigle Hall houses teaching, office and meeting spaces for the School of Law and the departments of Economics, Education and Political Science, all in Arts & Sciences.

It also is home to the Center for Applied Statistics; Center for Dynamic Economics; Center for Empirical Research in the Law; Center for Interdisciplinary Studies; Center for New Institutional Social Sciences; Center in Political Economy; Center on Urban Research and Public Policy; Murray Weidenbaum Center on the Economy, Government, and Public Policy; and Whitney R. Harris World Law Institute.

Internship and job fair to bring top employers to Danforth Campus

By NEIL SCHOENHERR

More than 100 local and national employers will be on the Danforth Campus Friday, Oct. 2, for the Fall 2009 Internship & Job Career Fair.

"The Career Fair is a great opportunity to show our students that while the economy is currently in a difficult place, many top-notch employers are still looking to hire talented people," said Mark Smith, assistant vice chancellor and director of the Career Center.

The fair will take place from 10 a.m.-2 p.m. in the Field House of the Athletic Complex.

Recruitment for finance, banking, consulting, computer science, information technology and consumer products and retail merchandising is typically high in

the fall.

This year, however, campus visits are scheduled with more than 35 organizations in non-profit, educational institutions and government firms.

Featured employers scheduled to attend include Amnesty International; Bloomberg; Deloitte & Touche; ESPN; Google; Johnson & Johnson; Hallmark Cards; L'Oreal USA; Motorola Corp.; Nickelodeon; PricewaterhouseCoopers; Solomon R. Guggenheim Museum; and the William J. Clinton Foundation, among others.

The fair will provide WUSTL students a unique opportunity to meet and interview with dozens of potential employers in a short amount of time.

For more information, visit careers.wustl.edu.

Law school students to help build international database

The School of Law has become the first law school in the United States to enter into a cooperation agreement with the International Criminal Court (ICC) as a partner in the ICC's Legal Tools Project.

Through the partnership, law students will work directly in helping the ICC to build the most comprehensive and complete database within the field of international criminal law.

Under the direction of Leila Sadat, J.D., the Henry H. Ober-schelp Professor of Law and director of the Whitney R. Harris World Law Institute, and B. Don Taylor III, J.D., executive director of the Harris Institute and Cash Nickerson Fellow, students will conduct research on national jurisdictions and national cases involving core international crimes from a group of African states.

The Legal Tools Project of the ICC has created a comprehensive collection of resources relevant to the theory and practice of international criminal law and brings modern technologies into the investigation, prosecution and defense of genocide, crimes against humanity and war crimes.

More information about the work of the Harris Institute can be found by visiting the institute's Web site, law.wustl.edu/higs/.

Frogs

Regional extinction also could be global

— from Page 1

sition of the ponds more similar.

In the language of ecology, the predators decreased both alpha diversity, or the diversity within each site, and beta diversity, the diversity among sites. The pond study will be published in the November issue of *Ecology Letters*.

In the new analysis, the role of the predatory fish was played by *Batrachochytrium dendrobatidis*, or *Bd*, a microscopic fungus that lives in water and moist soil that sickens or kills frogs. *Bd* is called a chytrid fungus from the Greek *chytridium*, meaning "little pot" because small blisters filled with sperm-like, flagellated zoospores form in the skin of infected frogs.

Smith thought that the pathogen might be altering the frog communities in the same way the predatory fish had altered the pond communities, causing them to lose both alpha and beta diversity.

People had compared the susceptibility of different species to the fungus, but no one had looked for changes in the less appreciated beta diversity.

The baseline assumption of the analysis was that the pathogen was causing no change in beta diversity, the result that would be expected if it hit all species equally as it swept across the region.

Bd is an invasive species whose origin is not known.

The fungus is devastating to frogs because it infects the skin, a much more important organ in amphibians than in other vertebrates.

Many frogs breathe and drink through their skin and use it as we use our kidneys to maintain the proper concentrations of ions such as sodium and potassium in their bloodstreams. As frogs sicken, their skin peels or sloughs off.

Hoping to find a data set appropriate for the kind of analysis he had in mind, Smith got in touch with Lips, a scientist who has monitored amphibian declines

in Central America for many years.

"The basis of this paper is her decades of work in this area," Smith said, "and the astonishing data set they produced."

Lips had species lists from six sites both before and after *Bd* appeared, and she was able to obtain data from two more sites, for a total of eight.

At her study sites, Lips and her graduate students had walked during the day and also by night carrying flashlights, looking for frogs, salamanders and reptiles, listening for their calls, and sifting the streams for tadpoles.

"We already knew," Smith said, "that at each site, we were losing roughly half the species. Our analysis confirmed this. Before the fungus, an average 45 species were observed at each site; after the fungus, the average was only 23."

But the beta diversity dropped even more precipitously than the alpha diversity because the fungus preferentially attacked endemic species found only at one or a few sites.

Among the species in the study, 42 percent were found at only one site; a disproportionate share of these species disappeared.

The loss of rare species drove regional extinctions higher than expected. "Our simulations showed that random local extinctions would have resulted in 41 regional extinctions across the eight sites," Smith said, "but instead we observed 61 regional extinctions."

Regional extinction may mean global extinction.

"The regional extinctions strongly suggest these species are gone not just from the region but from the planet," Smith said. "It's very difficult to document an extinction, because you have to prove a negative. But if you see that a species is gone not only from point A but also from points B, C and D, that gives you a much stronger case."

In homogenizing the frog communities, the fungus erased chapters in evolutionary history. Two rare families of frogs, the *Aromobatidae* and the

Hemiphractidae, disappeared from the region.

Among the *Hemiphractidae*, also known as the marsupial frogs, males capture eggs as the female lays them and deposit them in pouches on the female's back. The female then totes the eggs around with her until they hatch.

Homogenization also knocked out ecological diversity. Before the invasion, there was a good mix of species in the region. Some species lived in streams, others on land, in trees and underground. But the primarily aquatic fungus killed most of the water-loving species.

"Now the frog communities are typified by terrestrial species," Smith said, "which has changed the whole way the system works ecologically."

"Our results suggest that the slate of ecological history in these assemblages has been partially erased and that the communities that remain consist primarily of species that are resistant to the fungus," Smith said.

Smith called the fungus an "extinction filter." Not an equal-opportunity killer, it preferentially removes the frogs that make each habitat unusual and interesting.

Roof

Careful planning given to campus outdoor space

— from Page 1

shingles. A green roof creates lawn space for students to play, study or picnic. It also adds to the residential feel of the South 40.

"With our redevelopment of our student housing, we have been thoughtful about both the indoor as well as outdoor spaces," said Justin X. Carroll, associate vice chancellor for students and dean of students. "The South 40 House, because of its location, provided us with a unique opportunity to create something special for the residents of the South 40."

"Developing a strong sense of

community at Washington University is key to the success of our undergraduates," Carroll said. "Additional green space on the South 40 not only adds to the beauty of campus, but it also provides a versatile venue that will become a main gathering place for students."

The green roof is made of eight layers, including recycled waterproof roofing material, CFC-free Styrofoam insulation, drainage panels, and 8-24 inches (depending on the location) of soil.

The green roof will be expanded to approximately 17,600 square feet once the University completes the second phase of construction on the South 40 House in July 2010.

Once the second phase is completed, the University will apply for LEED Silver certification

Beachy relishes the opportunity to create the solid institutional structure that will attract the brightest and best scientists. "Right now, too few of the best biologists are working in the field of plant science and agriculture; instead, they're going into biomedical research or fundamental sciences," he said. "That's one of the most significant goals I have — attracting the next generation of researchers and teachers. Providing the research-funding structure should help to do that."

"I just can't imagine anybody, anywhere, who would do a better job than Roger," Danforth said. "He's perfect for it."

Beachy is known internationally for his work in biotechnology and particularly for the development of transgenic plants that are resistant to viral infection — an interesting challenge, he said, because plants don't have immune systems.

Born in Ohio, he earned a bachelor's degree from Goshen College, followed by a doctorate in plant pathology from Michigan State University.

Beachy joined the WUSTL faculty in 1978, staying until 1991, when he moved to The Scripps Research Institute in La Jolla, Calif. He rejoined the faculty when he took the position as the first president of the Donald Danforth Plant Science Center in 1999. He announced earlier this year that he would be stepping down as president to become vice chairman of its board of trustees.

Beachy himself has mixed emotions about leaving his scientific career, however temporarily.

"When I was contemplating this decision," Beachy said, "my son said to me, 'You know, Dad, you said that if you had one more shot, it would be to try to make a difference around the world. So here it is. What are you going to do with it?'"

Beachy accepted.

for the South 40 House and Umrath House, another new residential building on the South 40. Both opened in August. The U.S. Green Building Council's LEED rating system is a third-party certification program for the design, construction and operation of environmentally friendly buildings.

The South 40 House and Umrath House will be the first LEED-designed residence halls on the South 40. The Village East student apartment building earned a LEED Silver rating in July.

St. Louis-based architect Mackey Mitchell and Associates Inc. designed the South 40 House and its green roof. The contractor was St. Louis-based Clayco Inc. Landscape designers were EDaw and SWT Design.

Notables

Introducing new faculty members

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

Cynthia Cryder, Ph.D., joins Olin Business School as assistant professor of marketing. Cryder graduated summa cum laude from Ohio State University with honors in arts and sciences and distinction in psychology. Her doctorate in behavioral decision research and psychology is from Carnegie Mellon University. Cryder's research interests include behavioral decision theory, prosocial behavior and field and Internet research methodology.

Michelle Duguid, Ph.D., joins Olin Business School as assistant professor of organizational behavior. Duguid graduated summa cum laude from Howard University and earned graduate degrees at Cornell University. Her research interests include social status and group dynamics

and group creativity.

Venkat Subramanian, Ph.D., joins the School of Engineering & Applied Science as associate professor of energy, environmental and chemical engineering. Coming from Tennessee Tech University, Subramanian's research interests are in modeling and simulation of electrochemical power sources and applied mathematics. Specifically, he is interested in energy systems engineering, electrochemical engineering, first principles-based computationally efficient algorithms (CPU time < 50 ms) for state of charge (SOC) and state of health (SOH) estimation of lithium-ion batteries, multi-scale simulation and design of energetic materials (batteries and fuel cells), kinetic Monte Carlo methods and nonlinear model predictive control. Since 2003, his research group has received more than \$2 million in research awards. Subramanian earned a doctorate from the University of South Carolina in 2001.

Alcoholism

Those under 15 have greatest risk
— from Page 1

drink changed the role of heritable influences on symptoms of alcohol dependence. Using the twin model, they were able to tease out genetic influences, shared environmental influences and nonshared environmental factors.

Agrawal's team found that when twins started drinking early, genetic factors contributed greatly to risk for alcohol dependence, at rates as high as 90 percent in the youngest drinkers. For those who started drinking at older ages, genes explained much less, and environmental factors that make twins different from each other, such as unique life events, gained prominence.

The twins in the study were 24-36 years old when they were interviewed, but some reported taking their first drink as young as age 5 or 6. The researchers found that those who were 15 or younger when they started drinking tended to have a greater genetic risk for alcohol dependence. Some who were 16 or older before they took their first drink later became alcohol dependent, but their dependence was related more to environmental factors.

"We don't have actual gene expression data in this study, but we could hypothesize that exposure to early-onset drinking somehow modifies the developing brain," Agrawal said. "Particularly frequent or heavy early drinking may influence gene expression and contribute to more severe outcomes. Our research cannot prove that, but it's something that neuroimaging and gene expression studies certainly should investigate."

Another possibility is that early drinking exposes adolescents to certain environment influences, such as their peer groups, that somehow enhance genetic influences that contribute to risk for alcohol dependence.

"Something about starting to

drink at an early age puts young people at risk for later problems associated with drinking," Agrawal said. "We continue to investigate the mechanisms, but encouraging youth to delay their drinking debut may help."

"Some early-onset drinkers do not develop alcohol problems and some late-onset drinkers do — we are working on why that is the case, but it is important to note that this is one risk factor among many and does not determine whether a person will, or will not, develop alcohol dependence," Agrawal said.

"But age at first drink is a well-known risk factor, and there have been two main hypotheses about why: One has been that common genetic and environmental factors contribute both to the risk for alcohol dependence and to the likelihood a person will be younger when consuming their first drink."

"A second hypothesis suggests starting to drink at a younger age exerts an influence on alcohol dependence that is independent of these shared factors. Our findings suggest there may be some truth to both hypotheses," Agrawal said.

Agrawal said studying twins offers advantages when attempting to learn about genetic and environmental influences on alcohol dependence. Since identical twins share 100 percent of their DNA, differences in drinking behavior between a pair of twins must come from environmental factors. Similarities between identical twins tend to be influenced by genes and family environment.

"Particularly identical twins offer us the opportunity to study the perfect natural experiment of genetically identical individuals whose drinking trajectories are modified by their shared and unique life experiences," she said. "They are important assets in the study of complex behaviors, such as alcohol consumption."

The study results will be published in the December issue of *Alcoholism: Clinical & Experimental Research*, but are available online through the journal's Early View.



International statesman, WUSTL scholar Chancellor Mark S. Wrighton congratulates A. Peter Mutharika, JSD, during his installation as the Charles Nagel Professor of International and Comparative Law Sept. 14 in Anheuser-Busch Hall. Mutharika, an expert on international economic law, international law and comparative constitutional law, is on leave from the University serving his native country of Malawi. In June 2009, he was appointed to the presidential cabinet as minister of justice and constitutional affairs. In a recent election, he also won a seat in Malawi's Parliament with 82 percent of the vote.

Of note

Ellen Damschen, Ph.D., assistant professor of biology in Arts & Sciences, **Jay R. Turner, Ph.D.**, associate professor of energy, environmental and chemical engineering, and **Dirk V. Baker, Ph.D.**, postdoctoral research associate in biology, have received a two-year, \$140,323 grant from the National Science Foundation for research titled "How Structural Heterogeneity and Connectivity of

Landscapes Affect Wind Dispersal." Also receiving the grant was Gil Bohrer, Ph.D., of Ohio State University. This grant was supported by the American Recovery and Reinvestment Act. ...

James L. Gibson, Ph.D., the Sidney W. Souers Professor of Government in Arts & Sciences, has received a one-year, \$40,000 grant from the National Science Foundation for research titled "Public Support for the Supreme Court in the Obama Era: Expectancy Theory and the

Replacement of Justice Souter." ...

Melissa Jonson-Reid, Ph.D., associate professor of social work, has received a three-year, \$689,286 grant from the National Institute of Mental Health for research titled "Early Childhood Connections." ...

Tao Ju, Ph.D., assistant professor of computer science and engineering, has received a one-year, \$52,526 subcontract from the Battelle Memorial Institute for research titled "An Interactive Volumetric Atlas of the Mouse Brain."

Obituary

Robins, pre-eminent psychiatry researcher, 87

BY JIM DRYDEN

Lee Nelken Robins, Ph.D., professor emeritus of social science in psychiatry at the School of Medicine, died at her home Sept. 25, 2009, following a long battle against cancer. She was 87.

Robins was a world leader in psychiatric epidemiology research and had worked in the Department of Psychiatry for more than 50 years.

"Washington University has lost a dear friend with the passing of Lee Robins," Chancellor Mark S. Wrighton said. "She was a distinguished member of the faculty on both the Danforth and Medical campuses, and her important work contributed to our understanding of how children grow and develop. Professor Robins will be missed."

Born Aug. 29, 1922, in New Orleans, Robins earned a doctoral degree from Harvard University/Radcliffe College in 1951. She joined the faculty at WUSTL in 1954 as a research assistant in psychiatry and rose to full professor in 1968. She is the founder and former director of the Master's Program in Psychiatric Epidemiology.

On the Danforth Campus, she also was a lecturer and an adjunct associate professor of sociology from 1957-1963 and professor of sociology from 1969-1991. She also was a professor in the Program for Social Thought and Analysis from 1991 until her retirement in 2001.

Her early research made key

observations about how psychiatric disorders early in life can affect adults, revealing that antisocial behavior in childhood is a major predictor of later psychiatric problems. Those studies forced mental health professionals to rethink topics from teen suicide to drug abuse. Her first major study became the book "Deviant Children Grown Up," published in 1966.

Charles F. Zorumski, M.D., the Samuel B. Guze Professor and head of the Department of Psychiatry, said Robins was one of the important creators of tools that can measure the prevalence of



Robins

psychiatric illness in the general population. "Lee Robins was truly one of the leaders in psychiatric epidemiology," Zorumski said. "She was one of the field's great pioneers in developing methods to measure and assess psychiatric illness in various populations. Her accomplishments allowed Lee to enrich both our department and the entire field of psychiatry. Those in Lee's family and we in her extended Washington University family already miss her wisdom and good humor."

Over the years, continuously supported by the National Institutes of Health, Robins gathered data on Vietnam veterans, disaster survivors and others. She

wrote the Diagnostic Interview Schedule and was one of the principal investigators for the landmark Epidemiologic Catchment Area study in the 1980s.

With her husband, Eli Robins, she raised four sons, and they had eight grandchildren. Eli passed away in 1994. In 1998, Lee Robins married Hugh Chaplin Jr., an emeritus professor in the departments of Medicine and of Pathology and the former head of the Irene Walter Johnson Institute of Rehabilitation.

A fellow of the American Academy of Arts and Sciences and the Society for the Study of Addiction to Alcohol and Other Drugs, she was a member of the Institute of Medicine.

She won numerous awards, and, in 2005, she was honorary grand marshal at the University's Commencement.

In addition to Chaplin, she is survived by her sons Paul of Redwood City, Calif.; Jamie of Cambridge, Mass.; Tom and his wife, Bonnie Kay, of Ann Arbor, Mich.; and Nick and his wife, Tracy Freedman, of San Francisco; eight grandchildren and two great grandchildren.

There will be a memorial service held at Graham Chapel at a later date. Memorial contributions may be made to the Lee Robins Lectureship in the Department of Psychiatry at Washington University School of Medicine in St. Louis, 660 S. Euclid Ave., Box 8134, St. Louis, MO 63110.

Washington People

By JESSICA DAUES

When Stephanie Kurtzman has a question for human resources — whether simple, odd or nuanced — she knows exactly whom to call: Lorraine Goffe-Rush.

"I never get, 'Someone on my staff could be answering these questions,' or 'No, you can't do that,'" says Kurtzman, director of the Community Service Office. "Instead, it's 'What is your situation? What are your needs?' While operating within the guidelines of HR, she helps make things work for departments."

Goffe-Rush, director of human resources since 2006, works with Kurtzman and others around Washington University to ensure WUSTL's work environment fosters productive, happy and healthy employees. After all, productive, happy and healthy employees foster productive, happy and healthy students.

"Working in human resources at Washington University allows me to support the people who are supporting the world's future leaders," Goffe-Rush says. "In that way, all Washington University employees have an impact on the world, so it's important to put



Lorraine Goffe-Rush (right), director of human resources, talks with administrative assistant Lisa Caress after the University's United Way Campaign kickoff breakfast at Whitemore House. "Lorraine goes out of her way to be available and responsive to employees, and she also makes the time for those on her team — ready to assist in problem-solving, brainstorming ideas and coaching," says Ann Prenatt, vice chancellor for human resources.

Making an impact

Goffe-Rush supports people who shape future leaders

them in a position to be successful within the University."

One area Goffe-Rush oversees is employee relations, helping to solve potential issues among employees or between employees and supervisors, and also organizing recognition and wellness programs to help employees feel appreciated and lead a healthy professional and personal life.

Goffe-Rush also oversees employee records, the Human Resources Management System (HRMS) and compensation, making sure employees are paid fairly and on time.

Her team of compensation specialists is responsible for instituting pay programs that attract and retain quality employees — a key factor in keeping the University's departments and offices running smoothly and effectively.

Helping employees succeed, Goffe-Rush says — whether talking them through problems, developing programs that cultivate their abilities, or simply paying them properly — makes her job worthwhile. And she follows that philosophy both inside and outside of the Office of Human Resources.

"Lorraine goes out of her way to be available and responsive to employees, and she also makes the time for those on her team — ready to assist in problem-solving, brainstorming ideas and coaching," says Ann Prenatt, vice chancellor for human resources. "She looks for the best possible solutions to difficult circumstances, balancing the potential impact on individuals with the impact on the organization."

Going into business

Goffe-Rush was born in London, No. 8 of nine Goffe children. At age 14, she moved to St. Louis with her family and quickly adjusted to life as a Pattonville High School student.

For college, Goffe-Rush originally set her

sights on schools in California, but her parents decided the West Coast was too far from the family for their 17-year-old daughter. Instead, Goffe-Rush joined her older sister at William Woods University in Fulton, Mo., then a women's liberal arts school.

"Looking back, a small school — with the small classes and tight-knit community — was actually perfect for me at that time," Goffe-Rush says. "At 17, I was a young college student. And it was good to be so close to my sister."

With law school as her goal, Goffe-Rush took a business class. And then another. And another. She found the courses fascinating and the business faculty engaging and supportive. She declared a business administration major and graduated with a bachelor's degree in 1986 from William Woods.

Rather than starting law school immediately, Goffe-Rush decided to give business a try. For the next three years, she worked at a small medical supply company in St. Louis, overseeing operations, customer service and purchasing. It was a big job for an employee fresh from college, but her supervisor was certain Goffe-Rush could handle it — sometimes even more certain than Goffe-Rush herself.

"When there were issues, we would talk through how to resolve them," Goffe-Rush says. "Then he'd say, 'Sounds like you have all the information to make a good decision, so I'll leave it to your judgment.'"

"Even when the choice I made wasn't the choice he would have made, he was always supportive," Goffe-Rush says. "That gave me so much confidence."

Goffe-Rush discovered quickly that what she liked most about her job was the human resources aspect: supervising and developing staff, recruiting, organizing work and solving problems. Instead of a law degree, Goffe-Rush decided to pursue a career in human resources.

Learning quickly

That wasn't the only turning point in Goffe-Rush's life in those three years. After college, she met and married Fred Rush, who also was from St. Louis. Like his wife, Fred Rush had dreamed of moving to the warmer weather of the West Coast, and in 1989, the couple arrived in San Diego.

"We both enjoyed being outside, and San Diego had perfect weather," Goffe-Rush says. "Beaches were close; you could drive to the desert, to the moun-

tains. It's a beautiful city."

Goffe-Rush's first human resources position was at Fornaca Family Bakery in California, developing recruitment strategies and implementing labor agreements. It was a great place for a first human resources job, Goffe-Rush says — and not just because of the free, fresh bread for employees every Friday.

"Being a small organization with limited resources, I had to be hands-on and quickly learn all aspects of HR in order to assist management and staff," Goffe-Rush says. "The organization also encouraged professional development and supported my interest in becoming involved in professional HR organizations in San Diego."

In 1992, Goffe-Rush earned a master's degree in business administration from National University and joined San Diego Gas & Electric Co. — a much larger organization.

At the electric company, Goffe-Rush was quickly promoted to a supervisory role, overseeing compensation, benefits and employee relations. With the knowledge gained from her MBA and experience at Fornaca, Goffe-Rush led the redesign of the benefits program and participated in benefits negotiations with the electrical workers union — both strategic steps to keep the company competitive in terms of its compensation and costs.

Goffe-Rush and her husband moved back to St. Louis in 1998 to be closer to both of their families, and Goffe-Rush joined Barnes-Jewish Hospital as an HR consultant. Two years later, she became manager of human resources at St. Louis Children's Hospital, overseeing compensation, benefits, recruitment and employee activities.

In 2000, a colleague mentioned to Goffe-Rush that the director of employee relations position was open at Washington University, and that she thought Goffe-Rush would be perfect for the job. Goffe-Rush applied and was hired at WUSTL, and in 2006, she was promoted to director of human resources.

Here for students

Soon after arriving on the Danforth Campus, Goffe-Rush served on the Office of Admissions' campus interview team, talking with high-school students about their interests and goals. Goffe-Rush also became involved in the Ervin Scholars Program,

which offers scholarships to deserving WUSTL students to foster a diverse campus community; and the W.E.B. DuBois Awards program, which recognizes achievements of black WUSTL students.

"At many corporations, you don't have many chances to give back and remind yourself of the purpose of your work," Goffe-Rush says. "At Washington University, we're here because of the students."

Goffe-Rush also became involved in campus-wide programs and committees. In fall 2005, she was named a founding member of the Coordinating Council for Diversity Initiatives. Chancellor Mark S. Wrighton charged the council with enhancing the experiences of and environment for women and underrepresented minority faculty and staff on campus. Leah Merrifield, special assistant to the Chancellor for diversity initiatives, calls Goffe-Rush "an important and critical voice" on the council.

"She is an incredible resource for issues that impact faculty and the administration, such as environment, recruitment and retention," Merrifield says.

Goffe-Rush also works with Kurtzman on the Gerry and Bob Virgil Ethic of Service Awards, which recognize students, faculty, staff and alumni who exemplify a character of service and giving to the region. Goffe-Rush is the only committee member — besides Kurtzman — to have served since the program's inception in 2003.

"Every year, she asks, 'Are you sure you don't want me to rotate off?' But every year, I ask her back. She's the conscience of the committee," says Kurtzman, also associate director of the Gephardt Institute for Public Service. "Lorraine helps to ground the conversation, reminding us what these awards are about."

Goffe-Rush also is active in the Human Resources Management Association of St. Louis, serving on its board from 2004-08. Through the association, Goffe-Rush mentored up-and-coming HR professionals in addition to the informal advising she has done throughout her career.

"I've had great mentors along the way that have taken the time to reach out and help me accomplish my goals," Goffe-Rush says. "But I've found the benefits of mentoring aren't one-sided. While young people can learn from the experiences of others, often we find their perspective useful for us as well."

Lorraine Goffe-Rush

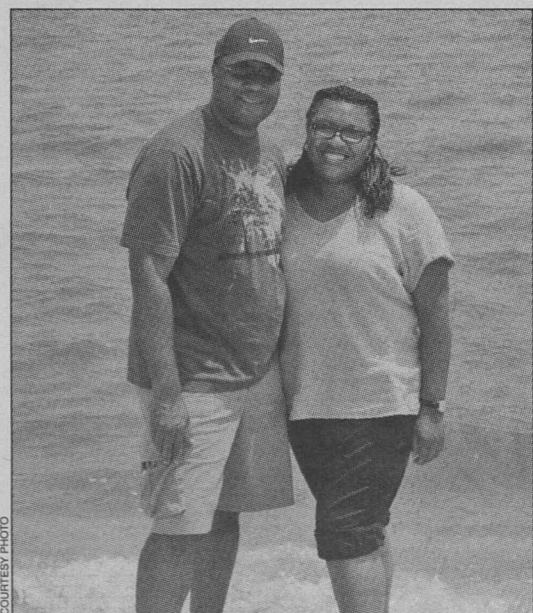
Born in: London

Currently lives in: Kirkwood

Favorite place to hang out in St. Louis: Art Hill in Forest Park

Favorite TV show: "I watch a lot of news shows, a lot of CNN," Goffe-Rush says.

Just finished reading: "Dispatches from the Edge" by Anderson Cooper



Lorraine Goffe-Rush (right) with her husband, Fred Rush, on the beach in Mississippi.