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Record

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Washington University in St. Louis

Students argue before Roberts

By JESSICA MARTIN

Four finalists in the School of Law's Wiley Rutledge Moot Court Competition experienced what most lawyers only dream of: arguing before Chief Justice of the United States John G. Roberts Jr.

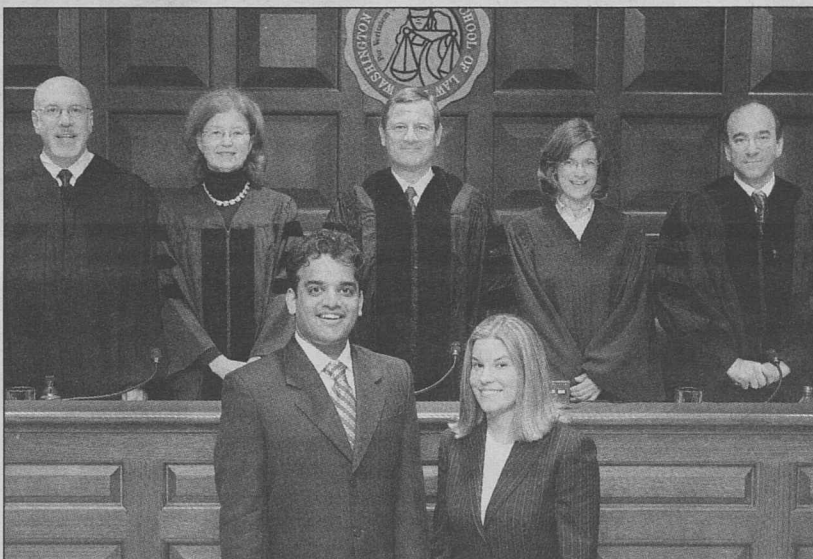
"To be able to argue in front of one of the sharpest legal minds in the country was an experience I will never forget," said Samir Kaushik, a second-year law student who argued the case with teammate and fellow second-year student Renee Waters at the Feb. 6 competition in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall.

"It was an incredible honor to argue before Roberts," Waters said. "There is no jurist for whom I have greater respect than the chief justice. It was an honor to be in his presence and to engage in dialogue with him and the four other jurists."

Roberts, who presided over the competition, was joined on the panel by Karen Nelson Moore, judge on the U.S. Court of Appeals for the Sixth Circuit; law school alumna Catherine D. Perry, judge on the U.S. District Court, Eastern District of Missouri; David R. Herndon, judge on the U.S. District Court, Southern District of Illinois; and Richard J. Lazarus, professor at the Georgetown University Law Center.

After making what was described as a very difficult decision, the panel named Kaushik and Waters the competition winners. The other final team consisted of third-year students James Frazier and Daniel Rhoads.

"The organizers did a fantastic job bringing together five well-respected jurists to serve on the panel," Kaushik said. "We were all challenged with



Samir Kaushik (front left) stands victorious beside fellow School of Law student Renee Waters after winning the Wiley Rutledge Moot Court Competition Feb. 6. The pair successfully argued their case before Chief Justice of the United States John G. Roberts Jr. (back center).

thought-provoking questions from several different angles."

Frazier was pleased that the panel took the competition so seriously. "The judges weren't throwing out softballs — and that made the whole competition a pleasure," he said.

A student-run Moot Court Board, chaired this year by third-year students Brad Keeton and Allison Scharf, oversees the annual competition and assists in selecting the legal topic.

Based on characters from the 2004 movie "Win a Date with Tad Hamilton," this year's case focused on the fictitious criminal appeal of a contest winner's boyfriend who allegedly threatened a celebrity.

This type of competition is one of the most valuable experiences the law

school has to offer, Waters said.

"There is a limit to how much a competition like this can simulate reality, but it's a lot closer to what lawyers really do than the typical doctrinal classes," she said. "It gives us students an idea of how thrilling actually practicing law can be."

The law school has held moot court competitions since its founding in 1867. This year's Wiley Rutledge Moot Court Competition began last fall with preliminary rounds in which nearly 100 second- and third-year law students participated in two-person teams.

Numerous judges and lawyers from the local legal community served as judges for the various rounds of the competition.

See **Students**, Page 6

Do we have multiple biological clocks?

By TONY FITZPATRICK

B iologists have discovered a large biological clock in the smelling center of mice brains and have revealed that the sense of smell for mice is stronger at night, peaking in the nighttime hours and waning during daylight hours. The study is the first to show that mice have multiple biological clocks, opening the possibility that other mammals — including humans — could, as well.

A team led by Erik Herzog, Ph.D., associate professor of biology in Arts & Sciences, discovered the clock in the olfactory bulb, the brain center that aids the mouse in detecting odors. Results were published in a recent issue of *The Journal of Neuroscience*.

The olfaction biological clock, located in the front of the brain directly behind the nose, is hundreds of times larger than the known biological clock called the suprachiasmatic nucleus (SCN), located at the base of the brain. Cells in both the SCN and the olfactory bulb keep 24-hour time and are normally highly synchronized with each other and with environmental cycles of day-night.

"It's been a question for some time whether the SCN functions as the only biological clock," Herzog said. "One wouldn't think that the ability to smell would cycle, but that's what we show."

"I think now that the SCN is like the atomic clock — important for keeping central time — and then there are all of these peripheral clocks for timing tasks like sleep-wake, vigilance, digestion, olfaction, hearing, touch and vision, though not all yet found. It may be that the peripheral clocks are like individual wristwatches that we must periodically reset."

Perhaps most surprising is the observation that the olfactory bulb clock can run independent of daily rhythms in sleep-wake or the SCN, making it the Big Ben of the mammalian circadian rhythm world.

"It seems to be one of those biological clocks that can keep running itself for a long time, even without the SCN," Herzog said.

Herzog and collaborators Daniel Granados-Fuentes, Ph.D., research associate in biology, and Alan Tseng, a senior majoring in biology, put cedar oil on a cotton swab and allowed mice to sniff it for five minutes.

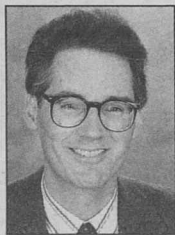
"We then counted the number of olfactory bulb cells that had been activated by the odorant," Herzog said. "The gene cFOS is a marker for cells that were activated by the stimulus; we recorded the expression of that gene."

See **Clocks**, Page 6

Turner elected member of prestigious National Academy of Engineering

J onathan S. Turner, Ph.D., the Barbara J. and Jerome R. Cox Jr. Professor of Computer Science in the School of Engineering & Applied Science, has been elected to the National Academy of Engineering (NAE).

Election to the NAE is among the highest professional distinctions



Turner

accorded to an engineer. Turner was recognized for his contributions to the design and analysis of high-performance communication networks and was among 64 new members elected in February, bringing the total U.S. peer-elected membership to 2,217 of the world's most accomplished engineers.

"Jon's election to the National Academy of Engineering is a much deserved recognition of his exceptional contributions in research, teaching and service to his

See **Turner**, Page 6

Interrupting nerve signals halts disorders

By JIM DRYDEN

I nterrupting nerve signals to the liver can prevent diabetes and hypertension in mice, according to School of Medicine scientists.

The research team surgically removed the vagus nerve in mice and found the procedure prevented or reversed the development of insulin resistance and high blood pressure in mice primed to develop these disorders through treatment with glucocorticoids.

Their finding is reported in the

February issue of *Cell Metabolism*.

"At least in mice, we've shown we can prevent the development of diabetes and hypertension by interrupting vagal nerve signaling," said senior investigator Clay F. Semenkovich, M.D., professor of medicine and of cell biology and physiology.

"We don't know whether the same will hold true for humans, but we think somehow altering vagal nerve activity could provide

See **Nerve**, Page 6



Poetic construction Bruce Lindsey (right), dean of the College of Architecture and Graduate School of Architecture & Urban Design in the Sam Fox School of Design & Visual Arts, leads a group of students in a Renga building workshop Jan. 27-28 in Givens Hall. The workshop was an exercise in collaborative building based on Renga, a Japanese poetry form in which 100 people collectively write a poem with one person writing each stanza in succession. Applied to building, student teams had 30 minutes to build something with two two-by-fours. Each successive team added to what was built. Ten teams of two students built the structure using only one guideline: the structure had to be able to be inhabited.

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Ida Early named secretary to the Board of Trustees

BY ANDY CLENDENNEN

Ida H. Early has been named secretary to the Board of Trustees, announced Chancellor Mark S. Wrighton.

The appointment is effective July 1, when Harriet K. Switzer, Ph.D., steps down from that post. "Harriet Switzer has been a tremendous asset to our Board and to the University community," Wrighton said.

"With great dedication and special attention to people and issues, she has contributed significantly to our improvement throughout her tenure as secretary to the Board of Trustees," he added. "She will be deeply missed, but we will value her continued friendship, support and engagement in the life of the University."

Of Early, Wrighton said: "Ida Early brings many years of University experience to her new role, and I welcome the opportunity to work with her."

"Ida is very familiar with the St. Louis community and our University and is a person of enormous ability, sensitivity and integrity who I am confident will be successful as the next secretary to the Board of Trustees."

Early is the senior associate director in Alumni & Development Programs, where her responsibilities include focusing on leadership gifts from alumni during their class reunion years; encouraging African-American alumni support of the Annual Fund and other University priorities; and providing support for the Danforth Circle (2004) and Patrons (2006) volunteers — leadership-giving levels that account for 25 percent of the Annual Fund.

"I am thrilled to assume this new responsibility," Early said. "In my 25 years with the University, I have acquired a deep appreciation for our Board of Trustees and its importance in Washington University's extraordinary progress. Harriet Switzer and her staff have set a high standard for service and management, which I am committed to maintaining."

Early came to the University in 1982, when she started at the John M. Olin School of Business as an administrative assistant. From there, she progressed to student relations coordinator (1983-84) and, in 1984, was promoted to director of special projects in the business school.

From 1993-96, she served as director of development and alumni programs in the School of Art and director of development for the Gallery of Art.

She took a sabbatical from the University in 1996 to serve as president of the Junior League of St. Louis from 1996-98, then returned to the University as director of annual giving programs in Alumni & Development Programs, a position she held until 2001.

From 2001-02, she was interim director of the parents' program at Duke University. She returned to WUSTL to her current position in 2002, then served as interim director of development for the George Warren Brown School of Social Work from 2005-06.

Early earned a bachelor's degree in sociology from the University of Pennsylvania in 1974 and did graduate study in educational administration at Cornell

University in the late 1970s.

Originally from Dallas, Early is married to Gerald L. Early, Ph.D., the Merle Kling Professor of Modern Letters, director of the Center for the Humanities and professor of African & African American Studies, of American culture studies and of English, all in Arts & Sciences.

The couple has two children.

In her role as secretary to the Board, Early will serve as chief liaison between the Board, the Office of the Chancellor and senior administrative officers and will be responsible for coordinating the work of the University's policy-makers. She also will be a University Council member.

Switzer has served as secretary to the Board for more than 26 years, working with two chancellors (Wrighton and Chancellor Emeritus William H. Danforth), seven chairmen of the Board of Trustees and nine presidents of the Women's Society (WSWU).

"Transitions are easy when the people involved are such talented, intelligent, caring and outstanding leaders," Switzer said. "Bill Danforth and Mark Wrighton are two of the finest leaders in higher education."

"It's an honor and a privilege to work with them, as well as with wonderful Board members and with the WSWU board and all the terrific WSWU members," she added.

After earning a bachelor's degree (1957) and a master's degree (1964), both in philosophy from Manhattanville College, she earned a doctorate in philosophy from Fordham University in 1968.

In 1970, Switzer, then a member of the Society of the Sacred Heart, became president of Maryville College, now Maryville University.

During her seven-year tenure, she is credited with transitioning Maryville from a traditional Catholic women's college to an independent, co-educational institution and also kept the school from closing while increasing enrollment from 340 to 1,200.

In January 1977, she stepped down from Maryville. Later that year, the St. Louis Globe-Democrat recognized her as a Woman of Achievement in Education.

After a year of visiting Sacred Heart schools in six countries in Asia and two years of "internships" at Boston College, Radcliffe College and Harvard University, she returned to St. Louis in 1980 where she joined WUSTL and became assistant secretary and assistant to the chancellor.

In 1981, she was named secretary to the Board of Trustees; in 1986, she also became University coordinator of the Women's Society.

In 1992, she married David L. Cronin, now retired associate dean of the social work school; they have three children and three grandchildren.



Clowning around Elizabeth Grace Wiese, daughter of Eliot Society benefactors Chip and Jane Wiese, gets her face painted during Eliot Family Night Jan. 26 in the Athletic Complex. The popular annual event for Eliot Society members, their families and guests includes clowns, magicians, a buffet dinner and family activities followed by Bears men's and women's basketball games; both teams were victorious that night. More than 740 people attended, setting a record for participants. The William Greenleaf Eliot Society is a group of alumni, parents and friends of the University who provide leadership support for the Annual Fund each year.

McDonnell Center names new director

BY SUSAN KILLENBERG MCGINN

Ramanath Cowsik, Ph.D., professor of physics in Arts & Sciences, has been named director of the McDonnell Center for the Space Sciences effective July 1, announced Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences.

He will take over from Roger J. Phillips, Ph.D., professor of earth and planetary sciences in Arts & Sciences, who is stepping down after seven years as director.

Cowsik becomes only the third director of the center since it was established in 1975 by a gift from aerospace pioneer James S. McDonnell. The late Robert M. Walker, Ph.D., the McDonnell Professor of Physics, was its inaugural director.

The center is a consortium of WUSTL faculty, research staff and students coming primarily from the Arts & Sciences departments of Earth & Planetary Sciences and Physics and from the School of Engineering & Applied Science who are working on the cutting edge of space research.

"The McDonnell Center for the Space Sciences has benefited from a strong tradition of excellence begun by founder Bob Walker," Macias said. "It has continued to prosper under Roger Phillips, who has very capably led the center since 1999."

Under Phillips' direction, collaborative research continued in such fields as astrophysics, extraterrestrial materials, planetary geophysics/geochemistry and

planetary imagery.

"Ram Cowsik will build on this great legacy, and we are fortunate to claim his leadership," Macias continued. "He is a highly respected physicist who will work to help strengthen international relationships within the space science community."

Considered one of the world's pre-eminent astrophysicists, Cowsik has made several seminal and lasting contributions to neutrino physics, gravitation and almost every aspect of high-energy astrophysics. He has contributed to the understanding of particle physics, cosmic-ray physics, cosmology, and gamma and X-ray astronomy.

Cowsik, whose relationship with WUSTL began in 1975 when Walker invited him to serve as a distinguished visiting professor at the McDonnell Center, joined the physics faculty in 2002 as a professor.

He earned a bachelor's degree in physics, chemistry and mathematics, with minors in English and Sanskrit, at the University of Mysore in India in 1958. He earned a master's degree in physics at India's Karnatak University in 1960 — at age 19 — and then a doctorate in physics in 1968 from the University of Bombay while working at the Tata Institute of Fundamental Research.

He taught and did research for more than 40 years at the Tata Institute, where he served as director of the Indian Institute of As-

trophysics (IIA) for 11 years.

While the IIA's director, he was instrumental in building the world's highest ground-based observatory in Hanle, Ladakh, in the Himalayas.

Researchers at the McDonnell Center and at the IIA are setting up two telescopes, one in Hanle and the other in Arizona — nearly 180 degrees apart in longitude — for round-the-clock monitoring of active galactic nuclei.

Cowsik, who was inducted into the National Academy of Sciences in 2004, has received numerous awards and honors, including India's Padma Shri Award, equivalent to the National Medal of Science; Vikram Sarabhai Award in Space Sciences; and S.S. Bhatnagar Award in Physical Sciences, India's most prestigious science prize.

Phillips came to Washington University in 1992 after holding a variety of positions at the Jet Propulsion Laboratory in Pasadena, Calif.; serving as director of the Lunar and Planetary Institute in Houston; and holding the Matthews Professorship of Geophysics at Southern Methodist University.

His service to NASA dates to Apollo 17 in 1972, when he served as team leader of the Apollo Lunar Sounder experiment. He is deputy team leader for the SHARAD Sounding Radar Investigation on the Mars Reconnaissance Orbiter mission.

Phillips plans to retire from WUSTL at the end of 2007. He and his wife, Rosanna Ridings, will make their home in Boulder, Colo., where he will continue his research activities in affiliation with the Southwest Research Institute.



Cowsik

Join an interactive television series on The Big Read

The higher education cable station HEC-TV is sponsoring a series of interactive, participatory television programs related to The Big Read, a University-sponsored initiative of the National Endowment for the Arts designed to restore reading to the center of American culture. The station is looking to include literary experts and political and social scientists from the University faculty on the programs' discussion panels.

Through the series — and other events — participants in the community reading project will discuss the provocative themes of Ray Bradbury's 1953 novel "Fahrenheit 451."

Beginning Feb. 20, the television series offers day and evening programming for school students, teachers, parents and the community.

• Politics, Government and "Fahrenheit 451."

Student program, 9-10 a.m. Feb. 20; evening program, 7-7:30 p.m. Feb. 21. This program explores the political and governmental themes of "Fahrenheit 451," including censorship, free speech and governmental power, and how they resonate in modern society.

• Technology, Privacy and "Fahrenheit 451." Student program, 9-10 a.m. Feb. 27; evening program, 7-7:30 p.m. Feb. 28. In discussing the role of technology in the book and in today's society, this program looks at the toll technology can take on privacy. David A. Lawton, Ph.D., professor and chair of the Department of English in Arts & Sciences, will join other panelists during the evening program, which is available via a live video conference at the St. Louis County Library headquarters at 1640 S. Lindbergh Blvd.

Day programs will air live in the St. Louis region on HEC-TV and via video conferences and on the Web at hectv.org. During the programs, viewers can e-mail questions to live@hectv.org.

Evening programs will air live on HEC-TV. Community members also can watch at interactive video conference locations for face-to-face interaction with program participants. E-mail and phone questions will be accepted during evening programs.

For more information on video conference locations or to be part of a live audience, call 531-4455. For more information on The Big Read, visit bigread.wustl.edu.



School of Medicine Update

Nicotine dependence linked to DNA regions, studies show

By JIM DRYDEN

Although Americans are bombarded with anti-smoking messages, at least 65 million continue to light up. Genetic factors play an important role in this continuing addiction to cigarettes, School of Medicine scientists suggest.

In two studies in the January 2007 issue of *Human Molecular Genetics*, the scientists show that certain genetic variations can influence smoking behaviors and contribute to a person's risk for nicotine dependence.

The smoking-related genes identified facilitate communication between nerve cells in the brain. One gene in particular, the alpha-5 nicotinic cholinergic receptor (CHRNA5) gene, was a strong indicator of risk for nicotine dependence. Individuals with a specific variation in the gene seemed to have a two-fold increase of developing nicotine dependence once exposed to cigarette smoking. CHRNA5 is from a class of receptors that plays a role in dopamine pathways in the brain, which are linked to a person's experience of pleasure.

The researchers also identified genes related to gamma aminobutyric acid (GABA) receptors, another set of proteins vital to nerve cell function. Both GABA and nicotinic receptors had been suspected of involvement in nicotine addiction, but these findings strengthen those suspicions.

The studies also identified a gene not previously known to be involved with nicotine dependence. Called the Neurexin 1 gene, it helps regulate the balance between excitatory mechanisms — those that increase communication between nerve cells — and inhibitory mechanisms — those that slow firing between nerve cells.

"An imbalance between excitatory and inhibitory activity in the brain may predispose people to addiction, such as alcoholism, drug dependence or nicotine dependence," said Laura Jean Bierut, M.D., associate professor of psychiatry and principal investigator of both studies. "The Neurexin gene we've identified is really a key factor in the balance between inhibition and excitatory activity in neurons."

Bierut said she suspects many genes are involved in nicotine dependence and said understanding how they work may make it possible to develop new treatments to help people quit smoking.

The research team analyzed data from almost 2,000 participants in two ongoing studies. One, called the Collaborative Genetic Study of Nicotine

"An imbalance between excitatory and inhibitory activity in the brain may predispose people to addiction, such as alcoholism, drug dependence or nicotine dependence. The Neurexin gene we've identified is really a key factor in the balance between inhibition and excitatory activity in neurons."

LAURA JEAN BIERUT



Bierut

Dependence, is a U.S.-based sample that includes both addicted smokers and "social" smokers from St. Louis, Minneapolis and Detroit. The other is an Australian study of smokers of European ancestry called the Nicotine Addiction Genetics study.

The scientists combined two approaches for analyzing genetic information. One approach scanned the entire human genome for suspicious areas of DNA, while the second approach closely examined specific target genes.

"The combination of these two approaches represents the most powerful and extensive study on nicotine dependence to date and is an important step in a large-scale, genetic examination of nicotine dependence," said Elias A. Zerhouni, M.D., director of the National Institutes of Health, which funded the studies. "As more genomic variations are discovered that are associated with substance abuse, we can better understand addictive disorders."

The researchers identified an area of DNA variation that seems to alter the function of a nicotinic receptor protein. That small variation makes a big difference in risk for nicotine dependence.

Current drug treatments for nicotine dependence are only marginally successful, and Bierut said using information about genetic traits to tailor medications to individuals could make them significantly more effective. "The type of variant you have at this particular receptor — the alpha-5 nicotinic receptor — may actually predict whether or not you will do well on nicotine-replacement therapy," she said.

Bierut said it's important to find genetic factors related to nicotine dependence because so much of the population continues to smoke, in spite of the overwhelming evidence that it's harmful. And she said she believes some of the genes her research team has identified will help scientists develop therapies for smokers who just can't seem to quit with existing treatments.



ROBERT BOSTON

Vive le Tango! Herbert Bilinsky practices the tango with Madeleine Hackney, a movement science doctoral student and a former professional dancer, while Gammon Earhart, Ph.D., assistant professor of physical therapy, looks on. Each week Earhart and Hackney offer tango lessons to patients with Parkinson's disease and their partners. The lessons started last summer as part of a pilot study, funded by the American Parkinson Disease Association, examining the effects of tango on walking and balance in people with Parkinson's disease and in those without the disease. The improvements in the Parkinson's patients who took the summer tango lessons were so marked that Earhart has applied for additional grant support to continue the program.

Memorial service to be held for Karls

Michael M. Karl, M.D., and Irene E. Karl, Ph.D., were pioneers in their fields of medicine, mentors to generations of physicians and scientists and among the most influential couples at the School of Medicine.

In honor of their impact on the medical school community, a memorial service will be held at 4:30 p.m. Feb. 23 in Connor Auditori-

um at the Farrell Learning and Teaching Center.

Michael Karl, widely recognized as one of the country's outstanding general internists, died Nov. 22, 2006, at age 91.

Irene Karl, a pioneer in the cause and treatment of sepsis and a trailblazer among women in science, died July 7, 2006, at age 90.

Older adults needed for memory study

By JIM DRYDEN

School of Medicine researchers are conducting a study to investigate factors related to memory in older adults. They are seeking healthy volunteers between 70 and 75 years of age who have siblings also willing to participate.

Study participants will undergo a magnetic resonance imaging scan to determine the structure of the brain and a positron emission tomography scan to analyze amyloid levels in the brain. Amyloid is a protein related to memory and to Alzheimer's disease.

The research team is led by Alison M. Goate, Ph.D., the Samuel and Mae S. Ludwig Professor of

Genetics in Psychiatry and professor of genetics and of neurology, and Mark A. Mintun, M.D., professor of radiology and of psychiatry.

Participants and their sibling volunteers must be within four years of one another's age. The presence of metal in the body, such as pacemakers or prosthetic devices, may exclude some subjects.

Participants will make two visits to the medical center for the testing. Each visit will last two-and-a-half to three hours. Study volunteers will be compensated for their time.

For more information or to volunteer for the study, call Angela at 362-1558.

Kharasch named Shelden Professor

By JIM DRYDEN

Evan D. Kharasch, M.D., Ph.D., has been named the Russell D. and Mary B. Shelden Professor of Anesthesiology.

This is the second anesthesiology professorship established at the School of Medicine through gifts from the Sheldens. The first was endowed in 1998.

Russell Shelden is an anesthesiologist and graduate of the School of Medicine who earned a medical degree in 1949 after completing undergraduate work and two years of medical school at the University of Missouri-Columbia.

Kharasch was installed as the Shelden Professor by Chancellor Mark S. Wrighton and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

"I thank the Sheldens for their continued generosity to Washington University," Wrighton said. "Endowments for professorships provide key support for our mission to recruit and maintain the outstanding researchers and educators who make up our faculty, and the Sheldens have been extraordinarily generous in helping make that possible."

"Evan Kharasch is one of the leading physician-scientists in the field of translational research," Shapiro said. "Endowed professorships like this one allow us to recognize outstanding work by indi-

viduals such as Dr. Kharasch and to support their important contributions to research and education."

Russell Shelden served on the clinical faculty in the Department of Anesthesiology at the University of Missouri from 1958-1983. He spent most of his medical career at Research Medical Center in Kansas City, where he served as president of the staff and received the Medical Staff Distinguished Award.

The Sheldens received the Robert S. Brookings Award at WUSTL's Founder's Day last November.

"I am very interested in medicine in my state," Shelden said. "These endowments are our attempt to further the progress of medical education and research both at Washington University and the University of Missouri-Columbia."

According to Alex S. Evers, M.D., the Henry Elliot Mallinckrodt Professor and head of the anesthesiology department, this second Shelden Professorship will help support the department's efforts to efficiently advance research findings into clinical practice.

"The continued generosity of

the Sheldens enables us to more fully support and maintain Dr. Kharasch's major contributions in translational anesthesiology research and thereby enhance and maintain our department's preeminent position in anesthesiology research," Evers said.

Kharasch directs the anesthesiology department's Division of Clinical and Translational Research. He came to WUSTL in 2005 from the University of Washington, where he was assistant dean for clinical research and vice chair of the Department of Anesthesiology.

His own research interests include clinical pharmacology, drug metabolism, drug interactions, mechanisms of drug toxicity and pharmacogenetics, a recent clinical pursuit that focuses on understanding individual differences in responses to drugs.

"I am privileged and grateful to receive this honor, and I believe it recognizes the entire Department of Anesthesiology; its culture of scholarly inquiry and education; and our clinicians, scientists and leadership," Kharasch said. "These individuals are responsible for making this one of the very best academic anesthesiology departments in the United States, and I am proud to be a member of the team."

Kharasch has written more than 160 scientific articles and a textbook.



Kharasch

University Events

Political satirist Christopher Buckley to speak for Assembly Series Feb. 21

BY KURT MUELLER

Christopher Buckley, novelist, political satirist and editor, will present "Thank You for Smoking: A Conversation With Christopher Buckley," as the ArtSci Council/Neureuther Library Lecture for the Assembly Series.

The talk, which is free and open to the public, will take place at 11 a.m. Feb. 21 in Graham Chapel.

Buckley, who was awarded the 2004 Thurber Prize for American Humor for his novel "No Way to Treat a First Lady," is the author of 11 books. His acclaimed novel, "Thank You for Smoking," was made into a film by the same name in 2006. Its protagonist is a lobbyist for the tobacco industry.

Buckley's 1999 book, "Little Green Men," about a government agency investigating UFO sightings, also will be made into a film with a scheduled 2008 release.

His upcoming novel, "Boomsday," ex-

plores the plight of baby-boomers and generational warfare.

Widely known for his wit and wry humor, Buckley was a speechwriter for Vice President George H.W. Bush.

After graduating with honors from Yale University and a stint with the Merchant Marines, Buckley became managing editor of Esquire Magazine at age 24.

He published his first best-seller, the travelogue "Steaming to Bamboola: The World of a Tramp Freighter," five years later.

In 1989, the late Malcolm Forbes hired Buckley to start a new magazine, Forbes FYI, now known as ForbesLife. It is published bi-monthly and is an irreverent lifestyle magazine chronicling "The Good Life."

Besides his satirical novels, travelogues and short stories, Buckley has written for national newspapers and magazines and has published more than 50 comic essays in The New Yorker.

He is the son of William F. Buckley Jr., renowned novelist, journalist and commentator.

For more information, call 935-4620 or visit assemblyseries.wustl.edu.



Buckley

Lost Tennessee Williams poem published

An unknown poem by famed playwright Tennessee Williams was a fortuitous find for Henry I. Schvey, Ph.D., professor and chair of the Performing Arts Department in Arts & Sciences.

In 2004 in a bookstore in New Orleans, Schvey found the 17-line poem penciled into the back of a blue examination booklet Williams used for a Greek final as a student at WUSTL in 1937.

"It is clearly the work of a young man who doesn't know his next move in life," Schvey said of the poem.

Schvey's find also was fortuitous for Williams' fans, who otherwise might never have known of its existence. Titled "Blue Song," the long-lost work had never been published — and possibly never read — until The New Yorker magazine ran it in December. The blue book now is part of the University Libraries Department of Special Collections.

Blue Song

I am tired
I am tired of speech and of action
If you should meet me upon a street do not question me for
I can tell you only my name
and the name of the town I was born in — But that is enough
It does not matter whether tomorrow arrives anymore. If there is only this night and after it is morning it will not matter now.
I am tired. I am tired of speech and of action. In the heart of me you will find a tiny handful of dust. Take it and blow it out upon the wind. Let the wind have it and it will find its way home.

'Take Care of My Cat' • Jazz Sahara • Respect for Nature

"University Events" lists a portion of the activities taking place Feb. 15-28 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

Annual Graduate Student Art Exhibit. Through Feb. 27. Baseline Workshop, Showroom and Gallery, 1110 Washington Ave. grad.wustl.edu/~gradexhibit/home.

"Eyes on the Prize: Documenting the Civil Rights Movement." Through Feb. 28. Olin Library Grand Staircase Lobby. 935-5495.

"Reality Bites." Feb. 9-April 29. Kemper Art Museum. 935-4523.

School of Medicine Student, Faculty & Staff Art Show '07. Through Feb. 26. Farrell Learning & Teaching Center, First Floor Atrium. wattson@msnotes.wustl.edu.

"Selections from the Black Film Promotional Materials Collection." Through Feb. 28. Olin Library, Lvl. 1, Ginkgo Reading Rm. 935-5495.

"Emancipation: A Celebration of Local Artists with Mental Illness." Opens 7-9 p.m. Feb. 27. Exhibit continues through March 9. Sponsored by the Mental Health Outreach Project. Farrell Learning & Teaching Center. 910-1830.

Film

Friday, Feb. 16

7 p.m. Korean Film Festival: The Varied Colors of Korean Cinema. "Joint Security Area" (2000). Pak Chanwook, dir. Brown Hall, Rm. 100. 935-4448.

Friday, Feb. 23

7 p.m. Korean Film Festival: The Varied Colors of Korean Cinema. "Take Care of My Cat" (2001). Jeong Jaeun, dir. Brown Hall, Rm. 100. 935-4448.

Wednesday, Feb. 28

7 p.m. Japanese Film Series. "Black Rain" (1989). Shohei Imamura, dir. Sponsored by Asian & Near Eastern Languages & Literatures. Busch Hall, Rm. 100. 935-5110.

Lectures

Thursday, Feb. 15

Noon. Genetics Seminar Series. "The BRCA1-BRCA2 Pathway of DNA Repair in Human Cancers." Simon Powell, prof. of radiation oncology. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

2:30 p.m. Center for Materials Innovation & Mechanical & Aerospace Engineering Joint Seminar. "Nanostructured Materials for Efficient Energy Harvesting and

Storage." Guozhong Cao, materials science & engineering, U. of Wash. Cupples II Hall, Rm. 100. 936-6540.

4 p.m. Chemistry Seminar. "Electron-nuclear Interactions in Optically Polarized NMR of GaAs Semiconductors." Sophia Hayes, asst. prof. of chemistry. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Ophthalmology & Visual Sciences Seminar. "GFL Neurotrophic Factors: Biology, Pharmacology and Clinical Development." Eugene Johnson, prof. of molecular biology & pharmacology and of neurology. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. Larry A. Haskin Memorial Colloquium. "The Early Differentiation of Terrestrial Planets." Francis Albarède, prof. and chair, dept. des sciences de la vie et de la terre, Ecole Normale Supérieure, Paris. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

Friday, Feb. 16

9:15 a.m. Pediatric Grand Rounds. "Natural Killers Within." Anthony French, asst. prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Energy, Environmental & Chemical Engineering Seminar. "Addressing Asthma Care in the Community." Mario Castro, assoc. prof. of medicine and of pediatrics. Lopata Hall, Rm. 101. 935-5548.

Saturday, Feb. 17

11 a.m. MLA Saturday Seminar. "Agriculture and Conservation." Barbara Schaal, Spencer T. Olin Professor of Biology. McDonnell Hall, Goldfarb Aud. 935-6700.

Monday, Feb. 19

2:30 p.m. Energy, Environmental & Chemical Engineering Seminar. "Renewable Energy Solutions." John Turner, National Renewable Energy Lab. Lopata Hall, Rm. 101. 935-5548.

4 p.m. Immunology Research Seminar Series. "Inflammation and Immunity Intersect at XBP-1." Laurie Glimcher, Irene Heinz Given Professor of Immunology, Harvard U. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

4 p.m. Physics & Center for Materials Innovation Joint Seminar. "First Principles Investigation of Magnetic Ferroelectrics." Claude Ederer, dept. of physics, Columbia U. (3:30 p.m. coffee, Compton Hall, Rm. 245.) Crow Hall, Rm. 201. 935-6276.

5:30 p.m. Cardiac Bioelectricity & Arrhythmia Center Seminar Series. "Control of Normal Rate and Rhythm by a Widely Distributed, Functionally Differentiated and Integrated System of Atrial Pacemakers: The Pacemaker Complex." John Boineau, prof. of surgery, medicine and biomedical engineering. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

6:30 p.m. Sam Fox School Architecture Lecture Series. "Collective Practice." Bruce Lindsey, dean, College of Architecture and Graduate School of Archi-

ecture & Urban Design. Lab. Sciences Bldg., Rm. 300. 935-9300.

Tuesday, Feb. 20

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "New Insights into Plasmodium Proteolysis." Daniel Goldberg, prof. of internal medicine. Cori Aud., 4565 McKinley Ave. 362-3692.

1 p.m. K12 Multidisciplinary Clinical Research Career Development Program Seminar. Seth Eisen, prof. of medicine. Center for Clinical Research Training, Conference Rm. 1. 454-8960.

Wednesday, Feb. 21

11 a.m. Assembly Series. ArtSci Council/Neureuther Library Lecture. "Thank You for Smoking: A Conversation with Christopher Buckley." Christopher Buckley, author. Graham Chapel. 935-5285.

5 p.m. Surgery Seminar. Eugene M. Bricker Visiting Lecture in Surgery. "Primary Hyperparathyroidism." Robert Udelsman, prof. and chair of surgery, Yale U. Part of the dept. of surgery "Invitation Day." Eric P. Newman Education Center. For costs and to register: 362-6891.

Thursday, Feb. 22

7:30 a.m.-5 p.m. Surgery CME Course. "15th Annual Refresher Course and Update in General Surgery." (Continues 7:30 a.m.-9:30 p.m. Feb. 23; 7:30 a.m.-5 p.m. Feb. 24.) The Ritz-Carlton, St. Louis, 10 Carondelet Plaza. For costs and to register: 362-6891.

Noon. Genetics Seminar Series. "Function and Evolution of Human Cis-regulatory Sequences: From Extreme Conservation to Adaptive Divergence." Shyam Prabhakar, genomics div., Lawrence Berkeley National Lab., Calif. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. Ophthalmology & Visual Sciences Seminar. "GFL Neurotrophic Factors: Biology, Pharmacology and Clinical Development." Eugene Johnson, prof. of molecular biology & pharmacology. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. "Who Constructed the Oldest Fossilized Microbial Mats?" Michael Tice, postdoctoral scholar, geological & planetary science, Calif. Inst. of Technology. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

Friday, Feb. 23

9:15 a.m. Pediatric Grand Rounds. "When Does No Mean No? Assent and Dissent in Pediatric Research." Rebecca Dresser, Daniel Noyes Kirby Professor of Law. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. Glenn Waychunas, Lawrence Berkeley National Lab., Calif. Lopata Hall, Rm. 101. 935-5548.

Noon. Cell Biology & Physiology Seminar. "Emerging New Roles of Potassium Channels in Cardiac Function." Anatoli Lipatin, asst. prof. of molecular & integra-

tive physiology, U. of Mich. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

12:30 p.m. Molecular Biology & Pharmacology Lecture. Annual Oliver H. Lowry Lecture. "Nuclear Cloning, Stem Cells, Therapy: Promise, Problems, Reality." Rudolf Jaenisch, prof. of biology, Mass. Inst. of Technology. Moore Aud., 660 S. Euclid Ave. 362-0198.

1 p.m. Skandalaris Center Innovators & Entrepreneurs Workshop Series. "Examples of Entrepreneurs" and "Promoting Creativity and Innovation." Simon Hall. For information and to register: sc.wustl.edu.

2 p.m. Center for Materials Innovation & Mechanical & Aerospace Engineering Joint Seminar. "Mechanical Response of Pyramidal Truss Core Sandwich Panels." Hilary Bart-Smith, asst. prof. of mechanical & aerospace engineering, U. of Va. Lopata Hall, Rm. 101. 936-6540.

Saturday, Feb. 24

7:30 a.m.-12:40 p.m. Cardiovascular Disease CME Course. "9th Annual Update in Cardiovascular Diseases and Hypertension." Cost: \$75. Eric P. Newman Education Center. To register: 362-6891.

11 a.m. MLA Saturday Seminar. "Respect for Nature." Claude Evans, assoc. prof. of philosophy. McDonnell Hall, Goldfarb Aud. 935-6700.

Monday, Feb. 26

8 a.m.-5 p.m. St. Louis STD/HIV Prevention Training Center Course. "STD Intensive." (Continues 8 a.m.-5 p.m. Feb. 27-28.) Cost: \$125. For location and to register: 747-1522.

2:30 p.m. Energy, Environmental and Chemical Engineering Seminar. Nitin Baliga, asst. prof. of systems biology, U. of Wash. Lopata Hall, Rm. 101. 935-5548.

4 p.m. Immunology Research Seminar Series. "Not Enough Regulation in Innate Immunity." John Atkinson, Samuel Grant Professor of Medicine. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

5:30 p.m. Cardiac Bioelectricity and Arrhythmia Center Seminar Series. "Inflammatory Pathways as Targets for the Treatment and Prevention of Atrial Fibrillation." David Van Wagoner, assoc. prof. of molecular medicine, Case Western Reserve U. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

Tuesday, Feb. 27

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Pathobiology of Prion Diseases: Loss, Gain, of Subversion of Function?" David Harris, prof. of cell biology & physiology. Cori Aud. 4565 McKinley Ave. 747-2132.

Noon. Program in Physical Therapy Research Seminar. 4444 Forest Park Blvd., Lower Lvl., Rm. B108. 286-1404.

1 p.m. K12 Multidisciplinary Clinical Research Career Development Program Seminar. "A Pilot Study to Determine Whether Disability and Disease Activity are Different in African-American and

Caucasian Patients with Rheumatoid Arthritis." Richard Brasington, assoc. prof. of medicine. Center for Clinical Research Training, Conference Rm. 1. 454-8960.

4 p.m. Chemistry Seminar. "Towards Molecular Electronics: Selective Deposition of Metals on Patterned Self-assembled Monolayer Surfaces." Amy Walker, asst. prof. of chemistry. McMillen Lab., Rm. 311. 935-6530.

4:15 p.m. Earth & Planetary Sciences Colloquium. "Microbial Geochemistry at the Edge of the Biosphere: Geocatalysis, Growth and Diagenesis." Matthew Schrenk, NASA postdoctoral fellow, Carnegie Inst. of Washington. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

Wednesday, Feb. 28

4 p.m. Center for the Humanities Lecture. "Jazz Sahara: The Music of Ahmed Abdul-Malik." Robin Kelley, prof. of history and American studies and ethnicity, U. of Southern Calif. (Reception follows.) Music Classroom Bldg., Rm. 102. 935-5576.

4 p.m. Division of Biology & Biomedical Sciences "Frontiers in Human Pathobiology" Lecture Series. Dan Goldberg, prof. of medicine. Farrell Learning & Teaching Center, Holden Aud. 362-4806.

Music

Thursday, Feb. 15

8 p.m. Jazz at Holmes. William Lenihan, guitar. Ridgley Hall, Holmes Lounge. 935-4841.

Sunday, Feb. 18

6 p.m. Voice recital. Tasha Nicholson. Whitaker Hall Aud. 935-4841.

On stage

Friday, Feb. 16

8 p.m. OVATIONS! Series. "1984." The Actors' Gang. In conjunction with The Big Read. (Also 8 p.m. Feb. 17.) Cost: \$30, \$25 for seniors, WUSTL faculty & staff; \$18 for students and children. Edison Theatre. 935-6543.

Friday, Feb. 23

8 p.m. OVATIONS! Series. DanceBrazil. Co-presented by Dance St. Louis. (Also 8 p.m. Feb. 24; 2 p.m. Feb. 25.) Cost: \$30, \$25 for seniors, WUSTL faculty & staff; \$18 for students and children. Edison Theatre. 935-6543.

8 p.m. Performing Arts Dept. Presentation. "civil disobedience" by Carter Lewis. Andrea Urice, dir. (Also 8 p.m. Feb. 24, March 2 & 3; 2 p.m. Feb. 25 & March 4.) Cost: \$15, \$9 for students, children, seniors, WUSTL faculty & staff. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Orwell's '1984' comes to life through The Actors' Gang at Edison Theatre

BY LIAM OTTEN

Imagine a world where people cannot speak freely, where leaders are not held accountable, where constant war rages against an unseen enemy.

Welcome to "1984," George Orwell's prescient portrait of an oppressive, totalitarian society. In February, The Actors' Gang — an experimental Los Angeles troupe led by artistic director and Academy Award-winner Tim Robbins — will present a new stage adaptation of Orwell's dystopic classic at Edison Theatre.

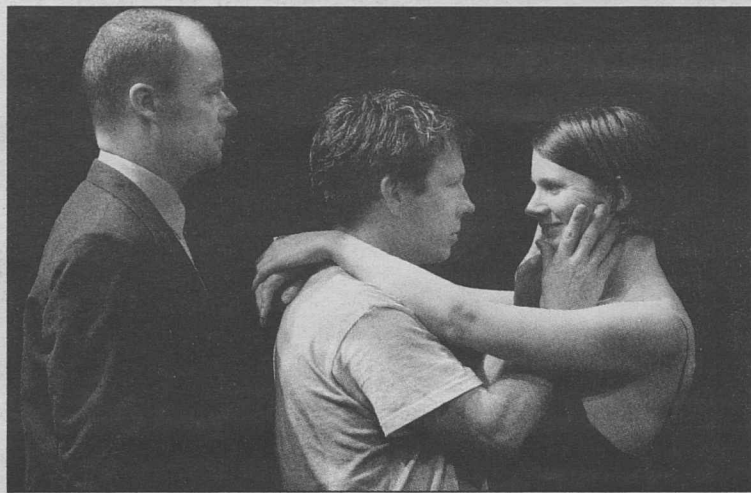
Performances, sponsored as part of the Edison Theatre OVA-TIONS! Series, begin at 8 p.m. Feb. 16-17.

"1984" tells the story of Winston Smith (played by Brent Hinkley), a London functionary for the government of Oceania, one of three sprawling regimes that dominate the globe.

Though Winston works for the tyrannical Ministry of Truth, he secretly flirts with independent thinking.

Even more dangerously, he falls in love with the rebellious, promiscuous Julia (played by Kaili Hollister). Yet the couple's brief affair is soon uncovered and both are sent to the Ministry of Love for "reprogramming."

The Actors' Gang production is directed by Robbins and based on a script by Michael Gene Sullivan, head writer for the Tony Award-winning Mime Troupe in



(From left) Brian T. Finney, Brent Hinkley and Kaili Hollister of The Actors' Gang, led by artistic director Tim Robbins, perform in a new stage adaptation of George Orwell's "1984" Feb. 16-17.

San Francisco.

"I was so excited by his framing of the story, his ability to make the material resonate," Robbins said.

He also was "floored by its relevance, its insight, its warnings, and unfortunately realized that this book was more vibrant and necessary now than it had ever been," he said.

"What Orwell is talking about is totalitarianism of the mind, where free will and free thought is viewed as a threat to the overall safety of the state," Robbins added. "The citizens of all nation-states readily comply with the wishes of the state, however compromising it is to their personal freedom, be-

cause of the danger they perceive that they are in.

"Big Brother rules through fear," Robbins concluded. "Big Brother provides no vision of the future other than a promise of ultimate victory and perpetual war."

Robbins co-founded The Actors' Gang in 1982. The company is dedicated to creating bold, original and socially relevant works for the stage, as well as daring reinterpretations of classic works.

Tickets are \$30; \$25 for seniors, faculty and staff; and \$18 for students and children.

For more information, call 935-6543 or visit edisontheatre.wustl.edu.

Law school 'Access to Justice' speaker series continues Feb. 21

BY JESSICA MARTIN

The New York Times' Supreme Court correspondent is part of the spring lineup for the School of Law's ninth annual Public Interest Law and Policy Speakers Series.

Titled "Access to Justice: The Social Responsibility of Lawyers," the series brings to WUSTL outstanding academics and practitioners in areas such as international human rights, the economics of poverty, civil liberties, racial justice, capital punishment, clinical legal education, and government and private public service.

The goals of the series are to provide a forum for the law school and the wider University community to engage in a discussion of the legal, social and ethical issues that bear upon access to justice; to highlight the professional responsibilities of law students and lawyers to provide access to justice; and to promote scholarship in this area.

The spring series kicked off Jan. 17 with a lecture by Sherrilyn Ifill, J.D., titled "Twenty-first Century Challenges to Racial Justice Lawyering." Ifill, associate professor at the University of Maryland School of Law, was the Black Law Students Association Martin Luther King Jr. Commemorative Speaker.

The remaining presentations, listed below, will be held in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall and are free and open to the public.

• 11 a.m. Feb. 21: Adrienne Davis, J.D., the Reef C. Ivey II Professor of Law at the University of North Carolina, will discuss "Reparations as Transitional Justice."

Davis focuses her scholarship on the interplay of property and contract doctrine with race, gender and sexuality in the 19th century.

Drawing on legal, literary and historical sources, Davis' work shows how property and

contract law incorporate and influence social norms.

Davis is the Webster Society Annual Speaker and a University Distinguished Visiting Scholar.

• 4 p.m. March 7: Linda Greenhouse, Supreme Court correspondent for The New York Times, will speak on "The New Supreme Court: Continuity and Change."

Greenhouse, the annual School of Law Tyrrell Williams Lecturer, began covering the Supreme Court for the Times in 1978. She has served in that role ever since, except for two years in the mid-1980s when she covered the U.S. Congress.

Previously, she covered local and state government and politics for the Times in New York and was chief of the newspaper's legislative bureau in Albany. She has appeared as a panelist on the PBS public affairs program "Washington Week" since 1980.

• 11 a.m. March 28: Robert A. Williams Jr., J.D., the E. Thomas Sullivan Professor of Law and American Indian Studies and director of the Indigenous Peoples Law and Policy Program at the University of Arizona, will present "Like a Loaded Weapon: The Rehnquist Court, Indian Rights and the Legal History of Racism in America."

Williams, a University Distinguished Visiting Professor, is the author of several books and articles on federal Indian law and indigenous peoples' human rights.

An enrolled member of the Lumbee Indian Tribe of North Carolina, he is the judge pro tempore for the Tohono O'odham Indian Nation.

Series coordinators are Karen L. Tokarz, J.D., LL.M., professor of law and executive director of clinical education and alternative dispute resolution programs, and Peter J. Wiedenbeck, J.D., associate dean of faculty and the Joseph H. Zumbalen Professor of the Law of Property.

For more information, call 935-6419.

'Collective Practice' topic of Lindsey's talk for Architecture Lecture Series

Architect Bruce Lindsey — who joined the Sam Fox School of Design & Visual Arts last fall as dean of the College of Architecture and the Graduate School of Architecture & Urban Design — will speak about his work at 6:30 p.m. Feb. 19 as part of the spring Architecture Lecture Series.

The talk, titled "Collective Practice," is free and open to the public and takes place in Brown Hall, Room 118.

A native of Idaho, Lindsey earned a bachelor's degree in art in 1976 and a master's degree in sculpture and photography in 1979, both from the University of Utah.

He earned a master's degree in architecture from Yale University in 1986 and joined the faculty at Carnegie Mellon University the following year.

From 1994-2001, he served as associate head of Carnegie Mellon's School of Architecture and as associate professor of art and architecture.

Lindsey served as head of Auburn University's School of Architecture from 2001-06, dur-

ing which time he helped unite the school's five degree programs — comprising 600 students and 40 faculty — through a series of interdisciplinary and joint-degree offerings.

Lindsey's research long has focused on applying digital tools to design and construction practice. In 1992, his work in digital-aided manufacturing was cited by Engineering News Record as one of the year's 10 most significant contributions to the construction industry.

A practicing architect, Lindsey recently worked with Davis + Gannon Architects to design the Pittsburgh Glass Center, which earned a gold rating under the U.S. Green Building Council's Leadership in Environmental & Energy Design guidelines.

The project also received a Design Honor Award from the American Institute of Architects (AIA) and was chosen as one of 2005's Top 10 green buildings by the AIA's Committee on the Environment.

For more information, call 935-9300 or visit arch.wustl.edu.

Who says engineers don't have fun?

Crazy chemistry demonstrations, a paper airplane competition and sticking a person to a wall with duct tape are part of the campus events planned for En-Week 2007, celebrating National Engineers Week, Feb. 18-24.

EnCouncil, the undergraduate student government for the School of Engineering & Applied Science, is hosting the free activities.

On Feb. 19, crazy chemistry demonstrations will take place from 11 a.m.-1 p.m. in Bowles Plaza.

If you can make a paper airplane that flies across the gallery in Lopata Hall between 11 a.m.-1 p.m. Feb. 21, you could win a prize.

Find out how many rolls of duct tape it takes to stick someone to a wall from 11 a.m.-1 p.m. Feb. 21 in the gallery of Lopata Hall.

During the week, the public also can:

• Join the weeklong "Golden Mouse Hunt," with clues leading to places throughout the engineering school, beginning Feb. 19.

• Add stickers and rhinestones to your calculator at the "Pimp Your Calculator" event from 11 a.m.-1 p.m. Feb. 19 in Mallinckrodt Student Center.

• Watch students take on engineering school faculty in basketball and dodgeball from 7-9 p.m. Feb. 19 at the Athletic Complex.

• See the construction of a swing from Styrofoam and packing tape — and maybe an engineering dean swinging in it — from 11 a.m.-1 p.m. Feb. 20 in Bowles Plaza.

• Watch a tricycle race around the Ann W. Olin Women's Building from 11 a.m.-1 p.m. Feb. 23.

• Bid on a date with a man or woman from the engineering school at the "Date Auction" from 9-11 p.m. Feb. 23 at The Gar-goyle. Proceeds from the event benefit the American Cancer Society.

For more information, visit enweek.net.

Sports

Saturday, Feb. 24

1 p.m. Women's basketball vs. U. of Chicago. Athletic Complex. 935-4705.

3 p.m. Men's basketball vs. U. of Chicago. Athletic Complex. 935-4705.

Worship

Wednesday, Feb. 21

12:05 Ash Wednesday Catholic Mass. St. Louis College of Pharmacy, Whelpley Hall. modde@washucsc.org.

12:15 p.m. Ash Wednesday Ecumenical Ashes Service. Catholic Student Center, 6352 Forsyth Blvd. modde@washucsc.org.

5:15 p.m. Ash Wednesday Catholic Mass. Catholic Student Center, 6352 Forsyth Blvd. modde@washucsc.org.

And more

Thursday, Feb. 15

5 p.m. Skandalaris Center IdeaBounce Event. Simon Hall, May Aud. 935-7668.

Friday, Feb. 16

6:30 p.m. The Big Read Event. Theatrical readings from "Fahrenheit 451" and docent-led tours of "Reality Bites." Kemper Art Museum. 935-4523.

Sunday, Feb. 18

2 p.m. Reading and Book Discussion. "Fahrenheit 451." Part of The Big Read. Kemper Art Museum. 935-4407.

Friday, Feb. 23

4:30 p.m. Memorial Service. In honor of Irene E. and Michael M. Karl. Farrell Learning & Teaching Center, Connor Aud. (Reception follows.) R.S.V.P. to 286-0073.

Community Powwow Meeting Feb. 19

Individuals interested in being part of the 17th annual powwow at WUSTL are invited to attend the Community Powwow Meeting from 5:30-8 p.m. Feb. 19 in Goldfarb Hall, Room 124.

The staff and students of the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work are looking for community input about the powwow,

a festival of American Indian dancing, singing, drumming, arts, crafts and food. They also will discuss event volunteer opportunities. The powwow is scheduled for April 14.

A light dinner will be provided during the meeting. Those interested in attending should R.S.V.P. by calling 935-4510 or by sending an e-mail to bcasis@gwbmail.wustl.edu.

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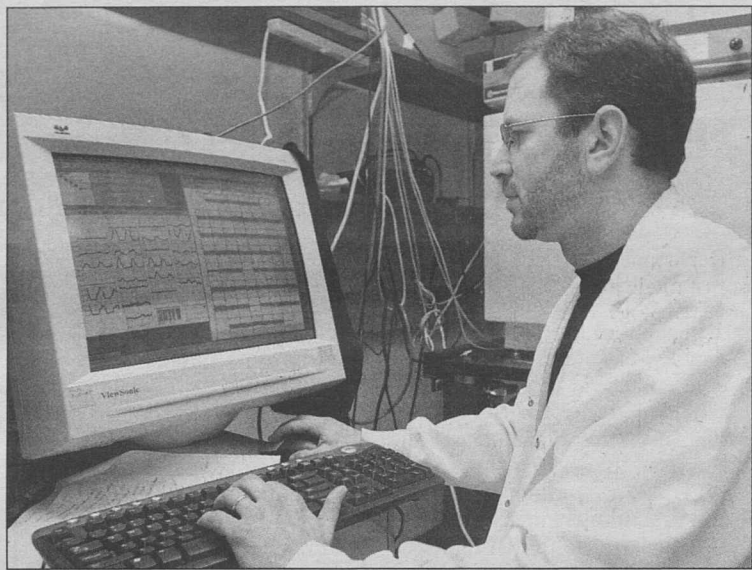
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Erik Herzog, Ph.D., monitors graphs on a computer that represent the electrical firing of neurons in mice brains activated by the odor stimulus cedar oil. The research showed that the neurons are active for several hours at about the same time each day and helped lead to the conclusion that mice have a biological clock for smell.

Clocks

Studying olfactory behavior to follow
— from Page 1

They saw more of those cells light up — thanks to a bioluminescence marker associated with cFOS — in the olfactory bulb at night than in the day.

“The olfactory bulb might be more sensitive at night when the creatures are active than when they are resting in the day,” Herzog speculated. “This might help them find food or mates when they are hungry for food or for love.”

Do the results suggest humans should wear perfume or cologne at night and shun the bottle during the day?

“There are anecdotes in the

literature about humans liking certain perfumes more during the evening than the morning, and there is some evidence that we also have daily rhythms in olfaction,” Herzog said.

Herzog’s next step is to study the olfactory behavior of mice.

“We’ll ask the mice to tell us when they can smell odors of different concentrations, and we hope to learn more about how and how much the clock modulates their sense of smell and which cells and genes are needed,” he said.

A key question raised by the olfactory bulb biological clock study is why multiple clocks exist.

“This idea of multiple biological clocks is new,” Herzog said. “We might need now to consider ourselves a clock shop. It appears that disrupting the coordination between these clocks is bad for our health, like in jet lag or shift work.”

Nerve

Interrupting brain signals is study key
— from Page 1

a novel approach for treating these common metabolic disorders.”

Previously, the research team had shown that a nuclear receptor called PPAR-alpha (Ppara) was necessary for the induction of both diabetes and hypertension when mice were treated with glucocorticoids, also known as steroids.

“Mice that can’t make Ppara don’t develop diabetes or hypertension in response to glucocorticoids,” said Semenkovich, who also is chief of the Division of Endocrinology, Metabolism and Lipid Research.

“The use of steroids is very common in medicine,” he added. “People with asthma, arthritis, organ transplants and others rely on those steroid drugs, and many of them go on to develop insulin resistance that can advance to diabetes and hypertension.”

But in these most recent experiments, the researchers showed that both Ppara and the vagus nerve seem to play important roles in the development of these disorders.

“If the vagus nerve has been surgically removed, the mice won’t develop diabetes or hypertension in response to glucocorticoids, even if they have Ppara,” said first author Carlos Bernal-Mizrachi, M.D., assistant professor of medicine in the endocrinology, metabolism and lipid research division.

“The process seems to be mediated by communication between the liver cells, the liver branch of the vagus nerve and its signals to the brain,” he said.

Actually, the vagus nerve communicates with just about

everything. Its name is taken from the Latin word meaning “wanderer.”

Early neuroanatomists chose the name because it seemed whenever they looked at an organ in the body, they also found fibers from the vagus.

It extends from the base of the brain through the chest, where it innervates part of the heart. It also sends nerve signals to other internal organs, including the liver, and eventually connects to the intestine.

In these studies, however, the researchers were interested mainly in the connection between the vagus nerve coming from the liver and its communication with the brain.

When mice are treated with glucocorticoids, Ppara in the liver communicates with the vagus nerve, which signals the brain.

Then the brain uses the vagal pathway to feed back instructions to the liver and kidneys. The brain instructs the liver to increase glucose production and the kidney to alter fluid metabolism, elevating blood pressure.

The same sort of process can occur in people who are obese. Semenkovich said a modest elevation of glucocorticoids is associated with obesity. Those elevated levels can initiate Ppara activity in the liver, which then will communicate with the vagus nerve to signal the brain, and, in turn, the brain will signal the liver and kidneys, contributing to diabetes and hypertension.

“We think obesity is probably initiating a similar process to the one we’ve interrupted in the mice,” Semenkovich said.

“An environmental influence — such as treatment with glucocorticoids or excess caloric intake that causes obesity — engenders a signal started by Ppara, which then is transmitted from the liver along the vagus nerve.”

That cascade of communication along the vagal nerve pathway has made the investigators

Junior Srikanth named diver of the year

The women’s swimming and diving team placed third and the men took fourth at the 2007 UAA Championships Feb. 8-10 in Cleveland.

The women totaled 10 event titles in three days and were paced by junior Meredith Nordbrock, who posted three individual titles and helped Bears relay squads win three additional events. She swept and 200-yard and 400-yard individual medleys and the 200-yard backstroke; and she swam the second leg of the winning 400- and 800-freestyle relays, while she led off the winning 200-medley relay squad.

Junior Priya Srikanth garnered Women’s Diver of the Year honors by sweeping the one-meter and three-meter diving titles.

On the men’s side, freshman Alex Beyer won the 400-yard IM in 4:03.05 for an NCAA provisional mark; he also swam the second leg of the 800-free relay, which won the UAA title in 6:49.75. For his efforts, Beyer was named the Men’s Rookie of the Year.

Men’s basketball bounces back

Junior Troy Ruths scored a team-high 16 points and grabbed nine rebounds as the No. 11 men’s basketball team defeated visiting Case Western Reserve, 86-65, Feb. 11 in UAA action. Senior Nick Nikitas and sophomore Sean Wallis each chipped in 13 points for the Bears, who improved to 18-3, and 9-2 in the UAA.

On Feb. 9, the Bears defeated Emory University, 74-62, at the Field House. Wallis paced the

think that they may be able to help people with diabetes and hypertension by interrupting normal vagal signaling.

And there may be a ready-made population to study because many people already have surgically implanted devices that alter the signaling of the vagus nerve.

Some people with seizure disorders and treatment-resistant depression have implanted electrodes that stimulate the vagus nerve to help alleviate their symptoms.

Semenkovich said he believes the new mouse study suggests a similar approach might help people with insulin resistance or hypertension. They plan to follow patients who already have stimulators to see if signals from the stimulators affect susceptibility to diabetes, insulin resistance or hypertension.

“We used surgery to interrupt all signaling from the vagal nerve pathway,” Bernal-Mizrachi said. “But it might actually be possible to change very specific signaling patterns to provide benefit to people who are at risk for hypertension or diabetes.”

Some available drugs might be able to attack the problem in other ways. A class of medications called fibrates drugs can modulate the activity of Ppara. Those drugs are used to lower triglycerides and to elevate levels of HDL (good) cholesterol.

Some studies have indicated the drugs provide a modest benefit, but other studies have suggested that such drugs might be harmful. So for now, the researchers are focusing more on the potential of the vagus nerve.

“I would argue that you can clearly produce a major impact by stimulating this nerve because it carries signals to so many organs,” Semenkovich said. “We know the vagal pathway can influence seizures, depression and other disorders. This study suggests it affects diabetes and hypertension, too.”

Sports

Bears with a career-high 27 points and nine assists; he scored 23 of his points in the second half.

Women’s basketball wins pair of UAA games

The women’s basketball team (17-5, 9-2 UAA) picked up two critical home conference wins last weekend at the WUSTL Field House.

The Red and Green defeated Emory, 62-50, Feb. 9 behind senior Sarah Schell’s game-high 19 points.

Freshman Janice Evans added a career-best 13 points.

On Feb. 11, WUSTL upended Case Western Reserve, 67-56, as Schell led the way again. She scored 15 of her 18 points in the second half and hit 16 of 20 free throws; she added two blocked shots and five steals. Senior Rebecca Parker added 17 points and nine rebounds.

Men’s, women’s track and field shine

The men’s and women’s track and field teams turned in impressive performances Feb. 10 at the Illinois College Blue Classic in Jacksonville, Ill., each taking second.

Senior Beth Herndon won the 5,000-meter run; classmate Natalie Badowski took first place in the 400 meters (59.72); and sophomore Alli Alberts did the same in the 800 (2:22.20). In the field events, sophomore Jessica Lane won the pole vault and senior Delaina Martin improved her NCAA provisional mark in the weight throw (15.75m, 51-8).

For the men, freshman Iby Umana and sophomore Nate Koslof finished second and third, respectively, in the 400 meters. Umana posted a team-season-best time of 51.02 and Koslof finished in 51.16.

Students

Law school community lends valued support
— from Page 1

Prior to announcing the winners of the competition, Roberts presented second-year student Toneille Raglan with the Golden Gavel Award, which is given to the best oral advocate in the preliminary rounds.

He also named Derick Albers and Bryan Boyle, both second-year students, winners of the Golden Quill Award, which is presented for the best legal brief.

“The student litigants were outstanding,” said Jo Ellen Lewis, J.D., director of the legal practice program and senior lecturer in law, who served as faculty adviser for the competition along with Bill Dorothy, J.D., senior lecturer in law. “They worked very hard to prepare for the competition, and

their hard work was evident in their performance. What makes their performance and preparation even more impressive is when you consider that they are also taking a full course load and one or more of the students actively participate on other moot court teams and competitions, the trial team and are editors and staff members of law journals.”

Frazier and Rhoads were impressed by the encouragement from the law school community.

“The most amazing thing about preparing for and participating in the finals was the goodness that we saw in people before, during and after the argument,” Rhoads said. “There are some really great people in the law school, and the sharing of good will was in a way as rewarding as the honor of arguing before the chief justice.”

Frazier agreed. “I’ve been overwhelmed by the kindness and genuine moral support of the other students, the faculty and the dean,” he said. “I hope we made them proud.”

Turner

Honor adds to engineer’s distinguished career
— from Page 1

profession and to the University,” said Mary J. Sansalone, Ph.D., dean of the engineering school.

Founded in 1964, the NAE is a private, independent, nonprofit institution that provides engineering leadership in service to the nation.

The NAE advises the federal government and conducts independent studies to examine important topics in engineering and technology. The NAE is a member of the National Academies, which also includes the National Academy of Sciences, the Institute of Medicine and the National Research Council.

In 1998, Turner — with colleagues Jerome R. Cox, Sc.D., senior professor in computer science and engineering, and Guru M. Parulkar, Ph.D., former computer science and engineering professor — founded the WUSTL Applied Research Laboratory. The laboratory developed a series of high-performance networking systems and technologies, including an early metropolitan area testbed using Asynchronous Transfer Mode switches that Turner designed.

Continuing their collaboration, Turner, Cox and Parulkar founded the start-up company Growth Networks, which developed high-performance switching components for Internet routers, and was acquired by Cisco Systems in 2000, becoming a model for technology-transfer

initiatives at WUSTL.

Cox and his wife, Barbara, established the professorship Turner holds.

Turner has been awarded 30 patents for his work on switching systems.

Turner was one of WUSTL’s first dual-degree graduates, earning bachelor’s degrees in computer science and electrical engineering, as well as a bachelor’s degree from Oberlin College in 1977.

Continuing his education at Northwestern University, Turner earned master’s and doctoral degrees in computer science in 1979 and 1982, respectively.

During his graduate studies, Turner worked at AT&T Bell Laboratories in Naperville, Ill. After leaving Bell Laboratories in 1983, Turner returned to WUSTL as an assistant professor of computer science. In 1990, he became a full professor and later served as department chair from 1992-97.

Election to the NAE is one of many honors and awards Turner has received. He has been acknowledged for his technical contributions at the highest levels in the nation, including as the recipient of the Koji Kobayashi Award in Computers and Communications and the Institute of Electrical and Electronics Engineers’ (IEEE) Millennium Medal.

Turner has been elected a fellow of the Association for Computing Machinery, as well as the IEEE. He has received numerous WUSTL honors, including the 1993 Distinguished Faculty Award and the 2004 Arthur Holly Compton Award for Faculty Achievement. This spring, he will receive the Distinguished Alumni Achievement Award from the engineering school.

Notables

Introducing new faculty members

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

Werner Ploberger, Ph.D., joins the department of economics in Arts & Sciences as professor.

He earned a doctorate in applied mathematics at Vienna University of Technology (Austria) in 1981 and a Habilitation in Econometrics there in 1993.

He has been affiliated with Vienna University of Technology, the University of St. Andrews (Scotland) and the University of Rochester.

He was tenured in 1993 (Vienna) and promoted to full professor in 1995 (University of St. Andrews).

He has been at the University of Rochester since 1997.

His research focus is in the areas of statistics, econometric methodology and time-series econometrics.

Stephen Williamson, Ph.D., joins the department of economics in Arts & Sciences as professor.

He earned a doctorate from the University of Wisconsin in 1984 and has since been affiliated with Queen's, Western Ontario, the Federal Reserve Bank of Minneapolis and the University of Iowa.

He was tenured in 1989 (Western Ontario) and promoted to full professor in 1992 (Iowa).

He served as department chair at Iowa (2000-03).

He is co-editor for Economic Theory and associate editor for Journal of Monetary Economics and Review of Economic Dynamics.

His research is mainly on macroeconomics, monetary economics and financial economics.

Jimin Ding, Ph.D., joins the department of mathematics in Arts & Sciences as assistant professor.

Ding earned a doctorate in statistics from the University of California, Davis, under the guidance of Jane-Ling Wang.

She works in a modern form of survival analysis using techniques that will be applicable to many other areas of statistics.

Xiang Tang, Ph.D., joins the department of mathematics in Arts & Sciences as assistant professor.

He was previously a visiting research professor at the University of California, Davis.

He earned a doctorate in mathematics from the University of California, Berkeley, where he worked under Alan Weinstein.

His areas of expertise are noncommutative geometry, symplectic geometry and quantization.

He worked on mathematical problems in statistical thermodynamics while still an undergraduate at Peking University.

Science academy names nine faculty as fellows

BY TONY FITZPATRICK

Nine University faculty members were inducted along with 17 other scientists and engineers as Fellows of the Academy of Science of St. Louis Jan. 22 in a ceremony at the Donald Danforth Plant Science Center.

Fellows attain their status by virtue of selection as members of the National Academies, Outstanding St. Louis Scientist Awards given by the academy or as part of a rigorous nomination by the Academy's Board of Trustees.

The 150-year-old mission of the Academy of Science of St. Louis is to "foster the advancement of science and encouragement of public interest in and understanding of the sciences."

The University inductees are Ramanath Cowsik, Ph.D., professor of physics in Arts & Sciences, for achievement in astroparticle physics; Alex Evers, M.D., the Henry Eliot Mallin-

krodt Professor, head of the Department of Anesthesiology and professor of medicine and of molecular biology and pharmacology, for achievement in medicine; Timothy J. Ley, M.D., associate director for basic science at Siteman Cancer Center and professor of genetics, for medicine in the area of stem cell biology;

Kenneth S. Polonsky, M.D. the Adolphus Busch Professor of Medicine, chair of the Milliken Department of Internal Medicine, professor of cell biology and physiology and physician-in-chief at Barnes-Jewish Hospital, for achievement in medicine; Yoram Rudy, Ph.D., director of the Cardiac Bioelectricity and Arrhythmia Center, the Fred Saigh Distinguished Professor of Engineering and professor of cell biology and physiology, of medicine, of radiology and of pediatrics, for achievement in biomedical engineering;

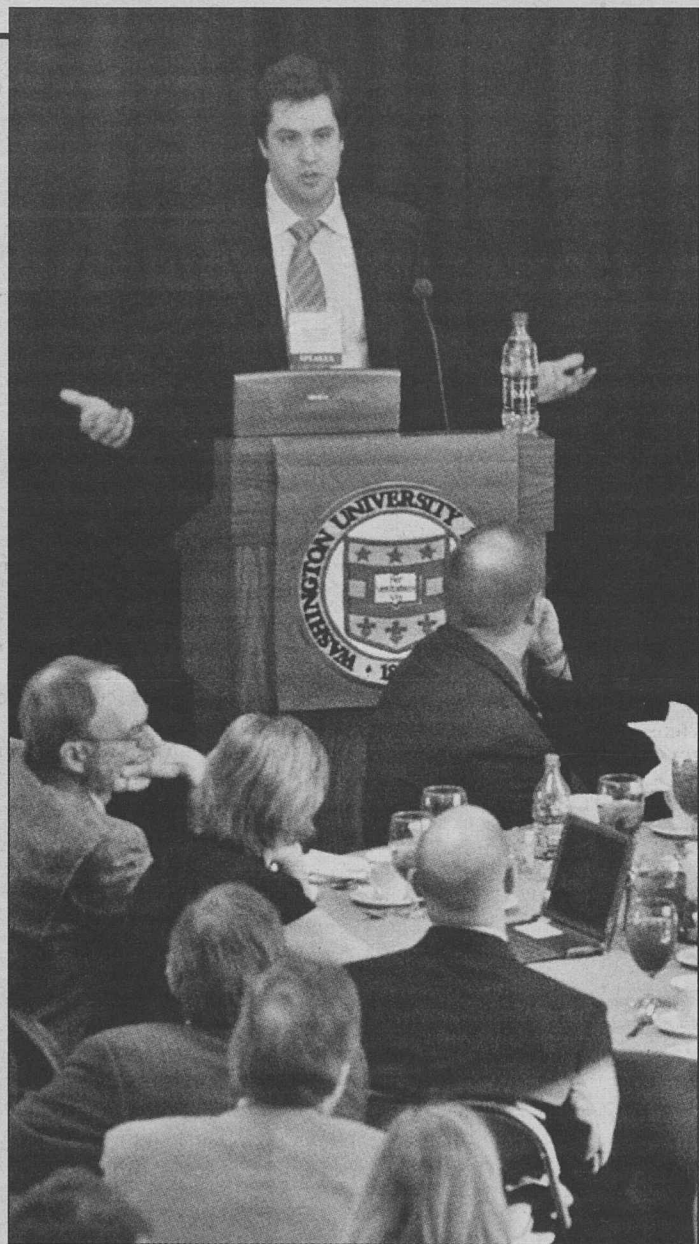
Larry J. Shapiro, M.D., executive vice chancellor for medical affairs, dean of the School of Medicine and the Spencer T. and Ann W. Olin

Distinguished Professor of Pediatrics, for achievement in medicine;

Raymond Arvidson, Ph.D., the James S. McDonnell Distinguished University Professor, chair of earth and planetary sciences in Arts & Sciences and co-principal investigator of the Mars Exploration Rover Mission, for achievement in earth and planetary science for international achievement in planetary science remote sensing;

Graham Colditz, M.D., Dr.P.H., the Niess-Gain Professor in Medicine and associate director of Prevention and Control at Siteman Cancer Center, for groundbreaking research on lifestyle impact on chronic disease prevention and treatment; and

Timothy Eberlein, M.D., the Bixby Professor of Surgery, chair of the Department of Surgery, surgeon-in-chief at Barnes-Jewish Hospital and director of Siteman Cancer Center, for leadership in fostering medical advances in cancer diagnosis and treatment.



Lunchtime lecture Michael Frchetti, Ph.D., assistant professor of anthropology in Arts & Sciences, speaks on "Decoding Eurasian Nomadic Networks: Integrating Social and Scientific Approaches" at the lunch session of the Metropolitan St. Louis Grants Conference Jan. 10 in Whitaker Hall. The jointly hosted conference brought together the University and Southern Illinois University Edwardsville for updates on the latest funding trends from federal agencies and informative sessions for academic researchers on research policies, practices and opportunities. Attendees also explored ways to enhance the success of their individual and collaborative research projects. WUSTL hosted the first day's program.

Sustainability Web site offered

The University became a member of the Association for the Advancement of Sustainability in Higher Education (AASHE), a membership-based association of colleges and universities working to advance sustainability in higher education in the United States and Canada.

As such, everyone on the Danforth and School of Medicine campuses is covered by AASHE membership and may access any of the organization's member's-only resources.

To do this, visit aashe.org; click on a locked resource (or click on "Member Login" in the left column); and at the log-in page, select "Create a new account." Follow the directions to

receive a password. Use your campus e-mail address as your username.

The Web site features resources to assist campus sustainability efforts, including a sustainability policy bank, a campus sustainability professional's page, interest groups, publications, classroom resources and links for virtually every aspect of campus operations.

To help keep up with the rapidly evolving world of campus sustainability, AASHE offers a free weekly e-newsletter called AASHE Bulletin.

It delivers the latest campus sustainability news, resources, opportunities and events from the United States and Canada.

'Rice gone bad': Plant biologist investigates

BY TONY FITZPATRICK

Red rice sounds like a New Orleans dish or a San Francisco treat. But it's a weed, the biggest nuisance to American rice growers, who are the fourth-largest exporters of rice in the world. And rice farmers hate the pest, which, if harvested along with domesticated rice, reduces marketability and contaminates seed stocks.

Complicating matters is the fact that red rice and cultivated rice are exactly the same species, so an herbicide cannot be developed that seeks out only red rice — it would kill cultivated rice, too.

But now a University plant evolutionary biologist has received a two-year, \$1.12 million grant from the National Science Foundation (NSF) to perform genetic studies on red rice.

The studies will help understand molecular differences between the two that someday could provide the basis for a plan to eradicate the weed.

The particular NSF program funding the research is the Plant Genome Comparative Sequencing Program.

Kenneth M. Olsen, Ph.D., assistant professor of biology in Arts & Sciences, believes that gene flow is one factor that has been at work.

"We are looking for candidate genes that underlie particular traits that differ between the two," Olsen said. "Knowing more about the traits could help in potentially controlling the weed. We have a key advantage in this research in that we know the complete cultivated rice genome, so it's fairly easy to target genes of interest."

Olsen and his colleagues, Ana Caicedo, Ph.D., of the University of Massachusetts, and Yulin Jia, Ph.D., of the U.S. Department of Agriculture National Rice Research Center, will test at least two hypotheses.

One is that red rice is rice that's gone feral, or gone bad.

"In this scenario, you have a sort of selection favoring the weedy version of the crop that out-competes the crop itself," he said. "That's called de-domestication."

Another possibility, which is not mutually exclusive, is that weedy rice was introduced into the Americas from Asia, where weedy hybrids of the cultivated species and the wild species occur.

These weedy strains then took hold in U.S. soils and began contaminating the U.S. cultivated species.

Olsen said that the weed has many characteristics of a wild species.

"By looking at candidate genes and those genes surrounding them," Olsen said, "we can test the hypotheses of the origins of traits and see if the traits have been introduced by hybridization of weedy and wild species, or, conversely, we can look at the

molecular level to see if the de-domestication phenomenon is going on."

To control red rice infestations, growers often rotate crops away from rice to soybeans, for instance.

And there are cultivation techniques that can eliminate most of the threat, although another nasty feature of the weed is its dormancy — its seed can lie viable in soils for as long as 20 years.

There also is a great amount of variation in different red rice strains.

Some look remarkably like cultivated rice and behave like cultivated rice.

The plants are as tall as cultivated rice and flower at the same time.

These "crop mimics" are difficult to spot.

Olsen hopes understanding trait differences can lead to eradication of red rice.

"We're looking for anything that exploits the difference between the crop and the weed and the way that the weed grows versus the way that the crop grows," he said. "That's the way to eradicate it."

Washington People

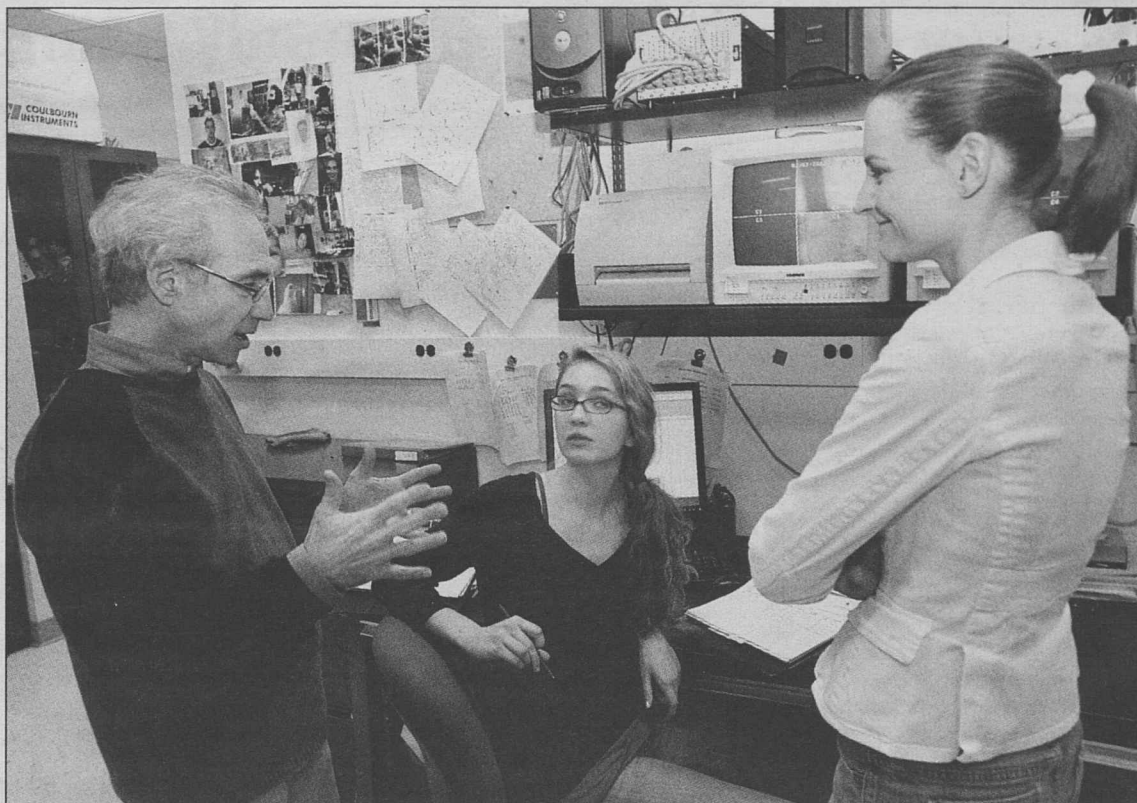
Leonard Green, Ph.D., has spent much of his career exploring the motivations that drive animal and human behavior. Still, he admits with feigned chagrin, it's his own behavior that sometimes defies rational explanation.

"One of the reasons I like working here is that I can get away with saying most anything," he quips, adding that on occasion something he's intended to be funny or instructive has been misunderstood as mean-spirited. "I'm from New York, and in our family we didn't have arguments. We just had lots of very loud discussions, so you're always interrupting people — that's just my style."

"Occasionally I do inhibit, though" he continues. "There seems to be some small inhibitory center in my brain, although it's clearly not fully developed."

Green, professor of psychology in Arts & Sciences, enjoys poking fun at his social shortcomings, but his reputation with colleagues and students leaves little doubt that those who get to know him invariably come to appreciate him —

BY GERRY EVERDING



Leonard Green, Ph.D., talks with Pamela Talley (center), a sophomore double-majoring in psychology and in anthropology, both in Arts & Sciences, and Amanda Calvert, a graduate student in psychology.

The psychology of learning

Leonard Green plays tough with students and leaves a lasting impression

even if they don't always get his sense of humor.

"Green's undergraduate course, 'The Psychology of Learning,' is one of the most rigorous in the department, yet students line up to get into it," says Henry L. "Roddy" Roediger III, Ph.D., the James S. McDonnell Distinguished University Professor and former chair of psychology.

"The waiting list is longer than the number enrolled," he adds. "Len is known to be a superb teacher."

Roediger, now dean of academic planning in Arts & Sciences, credits Green with building student interest in psychology.

"Psychology has more majors than any other department in Arts & Sciences, and Len Green is a big part of the reason," Roediger says. "He works very hard in his role as director of undergraduate studies. He meets with students, sends out frequent newsletters to keep them updated on new developments and works constantly to improve the major."

On faculty here since 1975, Green grew up in the Bronx and attended City College of New York on a Regents Fellowship, riding the subway between campus, home and his part-time job at a camera shop.

At City College, Green took a couple of psychology courses and fell hard for the discipline.

"It just struck me as conceptually rich," he recalls. "There were these intricate theories, but they were well-grounded in empirical research. It wasn't just speculation. There had to be data and the appropriate experimental research, and I found the research intriguing."

Green's undergraduate honors thesis involved learning-related experiments with nursery-school children. He admits spending much of his research time playing with the children and reading them stories, but still managed to earn a bachelor's degree in 1969.

He moved on to graduate school at the State University of New York (SUNY) at

Stony Brook, where he planned to continue his work on human behavior. Instead, he was assigned to the lab of Howard Rachlin, a leading expert on animal behavior and, as Green would soon learn, a "pigeon guy."

"Len and Howie" began cranking out papers on such issues as "Economic and Biological Influences on a Pigeon's Key Peck," "Commodity-Choice Behavior with Pigeons as Subjects" and "Demand Curves for Animal Consumers."

Their work, still influential, has been cited hundreds of times. Their first published paper is the basis for research on the experimental analysis of commitment and self-control, including Green's current work on the psychology of discounting, gambling, risk-taking and delay of gratification.

Green earned a doctorate at SUNY in 1974. He stayed one year as a post-doctoral research associate before taking a cut in pay to join Washington University as assistant professor. He since has published more than 100 articles and book chapters and is editor of his field's most prestigious publication, the *Journal of the Experimental Analysis of Behavior*.

Green's book series, "Advances in Behavioral Economics," co-edited with John Kagel, helped popularize the use of traditional psychology lab experiments to investigate economic theories on individual behavior. The book includes contributions from noted economists and psychologists and argues that economic theories can be scientifically tested in the laboratory, even using animal experimentation.

In addition to his undergraduate advising roles, Green is director of psychology's study abroad program and oversees partner programs at the University of Sussex and Exeter in England and the University of Queensland in Australia. He's the longtime campus adviser to the national honor society in psychology, Psi Chi, and a founding participant in Crossing Forsyth, a campus program that fosters faculty-student interaction on the South 40.

His most rewarding extracurricular activity may be his work on behalf of children with autism. Like so many of his interests, this one came by accident: A distraught mother called Green by mistake, thinking the acronym "ABA" on his resume meant he was certified to work with autistic children.

Green begged off, saying he had no background in clinical work. Eventually, he relented and offered to find students willing to help. This chance phone call has blossomed into whole networks of autism support services and sanctioned practicum work that pairs University students with parents needing autism-related assistance.

Green now serves on the board of Missouri Families for Effective Autism Treatment and as faculty adviser for the student-run Night Off Program, which provides free student babysitters for parents needing a "night off" from demands of caring for a child with autism.

Green shrugs off his involvement, suggesting that he has benefited most from the experience. He mentions a time when he scolded his daughter for wasting time re-reading a silly children's novel in one sitting.

Later, he met with parents of an autistic child and was overwhelmed by the realization of what they would have given to see their child read any book.

"I really don't know that much about autism," Green says. "I don't do that much. The parents do everything. They're incredible. I've learned so much about myself just from being around them."

Green's daughter, Hannah, is 18 and a freshman at New York University. Her mother, Ana Coelho, came here from Portugal to pursue graduate work at WUSTL and is a professor of philosophy at St. Louis Community College at Florissant Valley.

She and Green once conspired on a prank that involved Hannah and Sandra Hale, Ph.D., associate professor of psychology.

Hale, a longtime family friend, recounts the story this way: "Len Green is the kind of colleague who would send his 18-month-old daughter into the middle of a developmental lecture I was giving and have her hand me a note that said: 'You are lecturing about kids. My name is Hannah, and I is one.' Naturally, his daughter was a big hit, and I was touched that Len and Ana would take the time to set this up and pull it off without a hitch."

Hale's husband, Joel Myerson, Ph.D., research professor of psychology, is Len's closest research colleague and his inseparable office sidekick.

Because Len and Joel bear a slight resemblance, students have been known to assume they are twins, and, because their thought processes are so interwoven, they might as well be.

Myerson has published dozens of articles with Green, but has never exchanged a draft.

Instead, they meet almost daily

for a joint writing session. Myerson, who can type with all his fingers, works the keyboard, while Green, a two-fingered typist, is relegated to working the mouse.

"Most researchers love to do experiments, and then they do anything to avoid writing up the research," Myerson says. "Working side-by-side with Len is so much fun that I actually look forward to the writing. It's made us both much more productive."

Sharon Stahl, Ph.D., associate dean of the College of Arts & Sciences, has worked closely with Green since 1988. She credits him with making a huge difference in the campus experience for countless students — engaging them in the classroom, involving them in research, helping them cope with serious academic difficulties and life challenges.

"Len likes to come across as this real tough guy, like this hard-nosed guy from New York, but before it's all over, it's obvious he has a heart of gold," Stahl says. "He's everything this University looks for in its faculty — kind, caring and very generous with his time."

Green admits playing tough with students on occasion, but does so, he says, because he takes them seriously. He wants them to think deeply about their opinions, to be aware of consequences.

"Ideas matter a great deal to me," he says. "You should be passionate about things, because they matter."

Often his influence has a lasting impression, shaping careers long after graduation.

Douglas Johnson, associate dean of psychology and chair of the scientific perspectives program at Colgate University, got his start working in Green's lab as an undergraduate in the mid-1980s.

He went on to earn a doctorate at Johns Hopkins University, followed by a four-year post-doc at the National Institutes of Health. He traces all these accomplishments to the initial excitement for experimental psychology generated by a dynamic and caring teacher.

"Len Green played an enormous role in my academic and personal growth, is directly responsible for my interest in psychology and contributed greatly to my desire to continue my education beyond Washington University," Johnson says.

"Len expressed confidence in my mind and abilities at a time when I was less sure than he of my potential."

"Len Green is the best teacher I have ever interacted with, and I am certain there are hundreds of other graduates who will echo this sentiment."

Leonard Green, Ph.D.

Education: Bachelor's, City College of New York, 1969; doctorate, State University of New York at Stony Brook, 1974

Recent research topics:

- Psychology of tipping, gratuities
- Gambling psychology offers insight into self-control, risk-taking
- Holiday giving season complicated by shifting norms on gratuities
- People willing to wait for money rewards over others



Green's family: Ana Coelho and their daughter, Hannah.