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Record



Washington University in St. Louis

Sept. 17, 2009

record.wustl.edu

Two more genetic risk factors for Alzheimer's found

By JIM DRYDEN

An international team of scientists, including those from the School of Medicine, has identified two more genetic risk factors for Alzheimer's disease.

The group, led by investigators from the School of Medicine at Cardiff University in the United Kingdom, completed the largest genome-wide association study ever involving patients with Alzheimer's disease.

The study pooled DNA samples from more than 19,000 older European and U.S. residents. Seven thousand had Alzheimer's disease, and the others had no clinical symptoms of the disorder.

The findings are reported in the online edition of the journal *Nature Genetics*.

Prior to this study, only four genes had been definitively associated with Alzheimer's disease. Three genetic mutations have been identified as causes of rare, inherited forms of early-onset Alzheimer's. The fourth gene, APOE4, is the only

one previously linked to the more common late-onset form of the disease.

By looking at more than 600,000 common DNA markers, researchers on the current study were able to identify two new genes that appeared to be involved in elevated risk for Alzheimer's and confirmed the importance of APOE4.



Goate

"There's good evidence that these new genes may be novel risk factors, the first discovered since APOE in 1993," said Alison M. Goate, D.Phil., the Samuel and Mae S. Ludwig Professor of Genetics in Psychiatry and professor of neurology.

"So it's a very important observation because this study is the first to provide such significant evidence of novel genetic risk factors for the most common form of Alzheimer's disease."

In 1991, Goate led a team in England that identified the

first early-onset Alzheimer's mutation in the APP gene on chromosome 21. She said the new genes identified in this study are APOJ, also called clustrin, on chromosome 8, and PICALM on chromosome 11.

"The power of the new Genome Wide Association Study methods is that with large datasets we can now identify genes that earlier techniques were unable to confirm," said co-author John C. Morris, M.D., the Harvey A. and Dorismae Hacker Friedman Distinguished Professor of Neurology and director of the Alzheimer's Disease Research Center (ADRC). "These new genes associated with Alzheimer's disease provide new clues about how the illness develops."

Morris said previous ADRC research suggests that in mice, the clustrin gene may be involved in the formation of amyloid deposits in the brain. Amyloid makes up the senile plaques that dot the brains of people with Alzheimer's.

"These genes are both significant, but their effect appears to be much smaller than that of the APOE gene," Goate said.

See *Alzheimer's*, Page 2

Individual cells can keep time but not regular rhythm, study says

By DIANA LUTZ

Alexis Webb enters a small room at Washington University with walls, floor and ceiling painted dark green. She shuts the door, turns off the lights and bends over a microscope in a black box draped with black cloth. Through the microscope, she can see a single nerve cell on a glass cover slip glowing dimly.

The glow tells her the isolated nerve cell is busy keeping time.

Webb is a graduate fellow in the neuroscience doctoral program. Working with Erik Herzog, Ph.D., associate professor of biology in Arts & Sciences; Nikhil Angelo, an undergraduate biology major; and James Huettnner, Ph.D., associate professor of cell biology and physiology in the School of Medicine, Webb has demonstrated that individual cells isolated from the biological clock can keep daily time all by themselves.

However, by themselves, they are unreliable. The neurons get out of synch and capriciously quit or start oscillating again.

The biological clock, a one-square-millimeter area of the brain

called the suprachiasmatic nucleus (SCN) just above the roof of the mouth and atop the crossing of the optic nerves, comprises about 20,000 neurons.

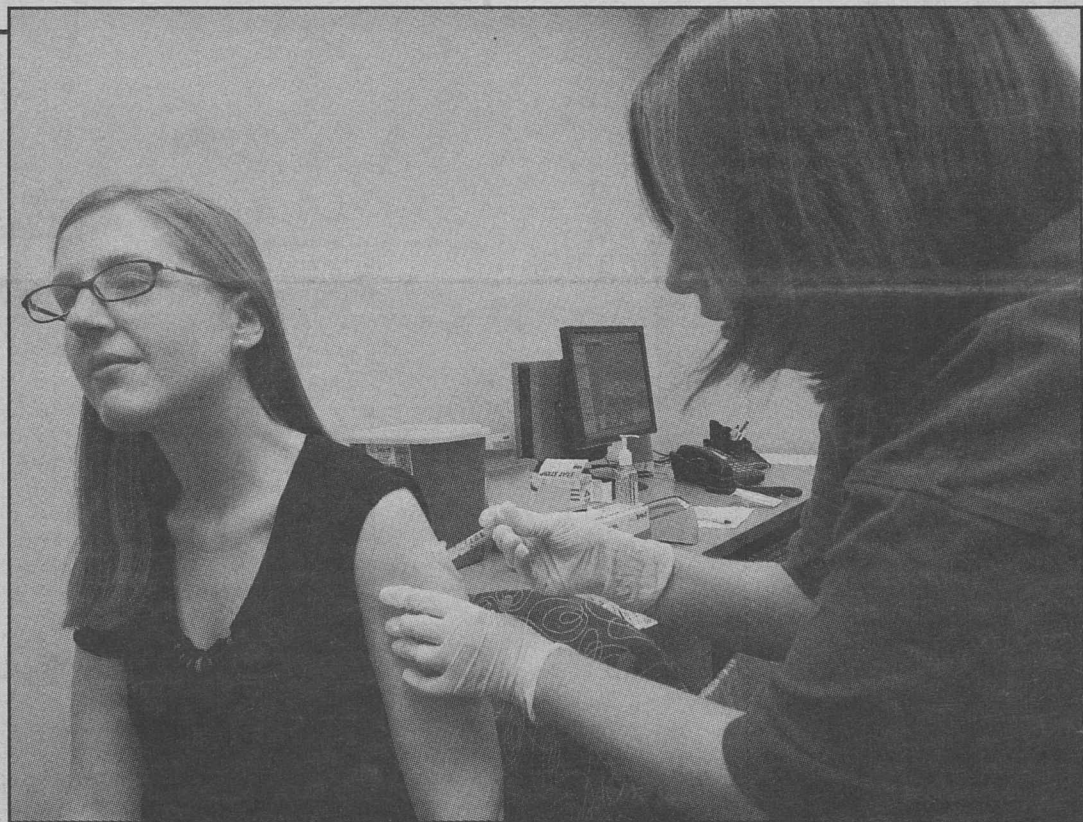
These cells, remarkably, contain the machinery to generate daily, or circadian, rhythms in gene expression and electrical activity. But the individual cells are sloppy and must communicate with one another to establish a coherent 24-hour rhythm, Herzog said.

These features make the SCN a flexible clock that can reset to stay in synch in an ever-changing environment. The underlying sloppiness is probably what allows us to adjust to local time when we cross time zones and to vary our sleep cycles with the season, said the WUSTL researchers.

The research was published this month in the online Early Edition of the *Proceedings of the National Academy of Sciences*.

"We've known for more than 15 years that unicellular organisms like cyanobacteria can keep 24-hour time, and isolated cells from the marine snail eye can as

See *Cells*, Page 2



A pinch of prevention Arts & Sciences graduate student Kelly Theim gets a seasonal flu shot from Stephanie Hultz at the Habib Health & Wellness Center last week. Seasonal flu shots are available now to students at the Habib Center; H1N1 shots also will be distributed to students when the vaccine becomes available. Last week, WUSTL reported its first cases of influenza A in a small number of students. These students were presumed to have novel H1N1 influenza because it is the predominant flu virus circulating. Students have reported only mild to moderate illness and have been recuperating in self-isolation. Some already have recovered and returned to normal activities. To get updated information about the flu and how to obtain flu shots, visit wustl.edu/flu.

Koepnick, Harper new faculty fellows in Danforth House

By NEIL SCHOENHERR

Lutz Koepnick, Ph.D., professor of German in Arts & Sciences, and Jana Harper, senior lecturer in book arts in the Sam Fox School of Design & Visual Arts, are the newest members of the faculty fellows program in the South 40.

The two live in an apartment with Koepnick's daughters in the Danforth House in William Greenleaf Elliot residential college, aiming to interact more informally with students outside the classroom setting.

"I think that having a family in the building where the students live can be quite grounding for them," Harper said. "The fact that there are kids and pets in the students' living environment is fantastic. It softens their transition from home life to living on their own."

The goal of the faculty fellows

program, started in 1998, is to help integrate academic and residential life by having professors live in the residential colleges with students for three-year stints.

The program emerged in response to the realization that there was a growing gap between faculty members and undergraduate students on college campuses. In addition, many faculty members wished to extend their interaction with students outside the academic realm.

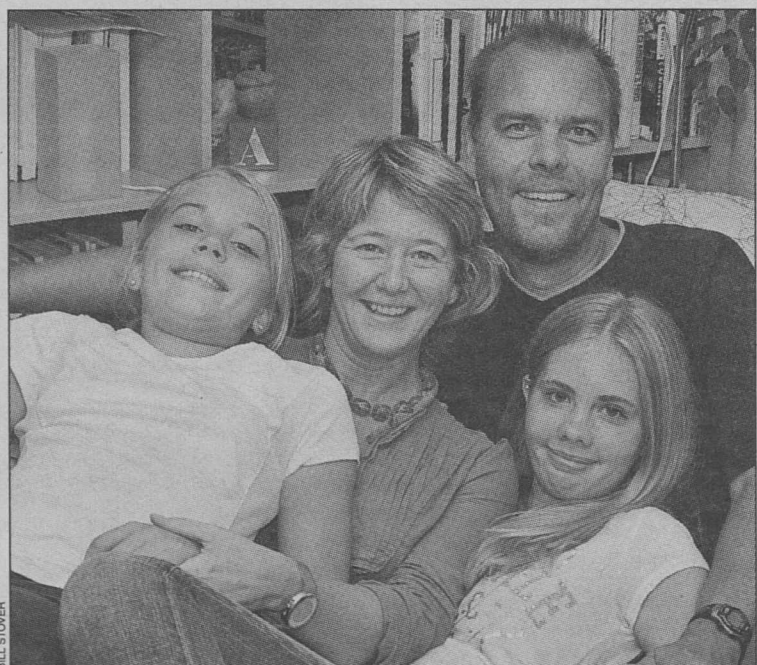
Koepnick and Harper are two of six faculty fellows currently living in the South 40. Joining them are Joseph Thompson, Ph.D., academic coordinator in African and African American studies in Arts & Sciences, who lives in Park/Mudd residential college; Asad Q. Ahmed, Ph.D., assistant professor of Arabic and Islamic studies in Arts & Sciences, in Wayman Crow; Ian MacMullen, Ph.D.,

assistant professor of political science in Arts & Sciences, in Brookings; and Andrew Rehfeld, Ph.D., associate professor of political science, in Liggett/Koenig.

"I think this program provides a very unique opportunity to explore student-faculty relationships beyond the restrictions of the regular seminar room," Koepnick said. "I have been teaching at the University for 15 years both at the graduate and the undergraduate level. But over the years, I have come to realize that we often know only very little about what makes our undergraduates tick and how we can effectively address their needs."

"I very much hope that the program will provide us with the opportunity to bridge the gap between the academic and the residential, the world of the mind and the everyday," Koepnick said.

See *Fellows*, Page 6

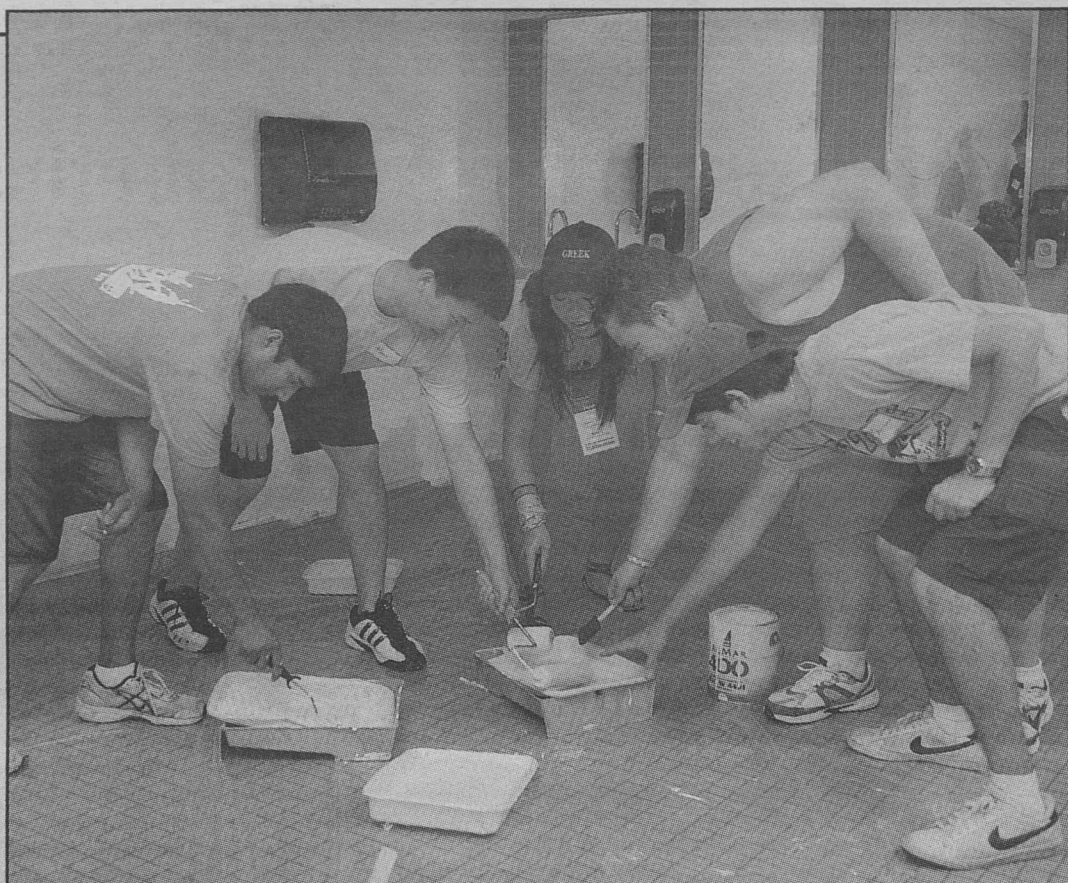


A new family resides in Danforth House on the South 40: (from left) Kirstin Koepnick; Jana Harper, senior lecturer in book arts; Lutz Koepnick, Ph.D., professor of German in Arts & Sciences; and Nicola Koepnick.

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First, service More than 1,000 WUSTL freshmen started the academic year giving back to their new community, volunteering to help clean and paint 12 St. Louis-area schools as part of the 11th annual Service First event Sept. 5. Here, (from left) Suhny Seelamsetty, Hans Zhang, Jenny Guo, Zeke Rutherford and Sherveen Mashayekhi prepare to paint a restroom at Dewey Elementary School in St. Louis. The annual event began in 1999 with about 600 student volunteers helping to clean and beautify scenic trails. It has grown and flourished each year. Afterward, the volunteers returned to campus for a community service fair on the South 40, where they learned more about the myriad community service opportunities in which they can get involved during their time at WUSTL.

Public service fair to feature more than 40 nonprofits

The Gephardt Institute for Public Service is sponsoring a public service fair at 4 p.m. Tuesday, Sept. 22, in the Danforth University Center Commons.

This event, open to students, faculty and staff, will feature more than 40 nonprofit organizations offering a variety of community service and internship opportunities.

"President Barack Obama has encouraged all Americans to dedicate themselves to community service," said Amanda Moore McBride, Ph.D., institute director and assistant professor of social work at the George Warren Brown School of Social Work.

"The Edward M. Kennedy Serve America Act Obama signed into law includes commemoration of Sept. 11 as a National Day of Service and Remembrance," McBride said. "We know our students,

faculty and staff want to keep that spirit alive throughout the academic year and hope the public service fair helps them to do so."

Participating agencies will represent a range of interests from youth to public health and education to the environment.

Agencies such as Forest Park Forever, the National Multiple Sclerosis Society, the Girl Scouts of Eastern Missouri and the American Red Cross will be looking for volunteers to mentor teens, conduct educational workshops, provide manual labor and work with clients, as well as interns to assist with operational functions like marketing and program coordination.

Attendees will be eligible for a raffle drawing for gift certificates and other prizes. For more information on the fair, visit gephardtinstitute.wustl.edu.

Cells

Sloppiness of internal clock makes it precise

— from Page 1

well," Herzog said. "But nobody was sure whether individual cells in vertebrates are circadian pacemakers."

The SCN includes many kinds of neurons that make different neurochemicals and connections within the SCN and to other parts of the brain.

"Some scientists felt that all of the cells in the SCN would be intrinsically rhythmic and that there was nothing special about any of them," Herzog said. "Some thought that none of the cells would be rhythmic and that the rhythm arose instead from their network interactions, and a third group thought specialized SCN neurons would be rhythmic and the others wouldn't be at all capable. Our experiments proved all three hypotheses wrong."

Webb digested slices of mouse SCN with enzymes to isolate individual neurons and then plated the cells sparsely on a dish.

"The neurons will actually attach to the glass and grow," said Webb, who is in the Division of Biology and Biomedical Sciences. "And as long as you give them all of the nutrients they need, they'll live for months."

The cells had been genetically engineered to glow whenever they expressed the time-keeping gene *Period 2*. (The cells came from transgenic mice where the *Period 2* gene had been linked to one

"The SCN is the master clock that synchronizes other biological clocks, like your liver or your lung. Those peripheral clocks can keep 24-hour time, but not for very long. Because the SCN is built differently, it can self-sustain — it can keep on ticking like a good Timex."

ERIK HERZOG

found in firefly tails.)

The rhythmically waxing and waning glow was detected by a camera designed to capture the light from distant stars and so sensitive that it will register the passage of even a single cosmic ray.

The recordings showed that all cells seem to be able to keep a 24-hour rhythm — there are no special pacemaker cells — but they don't seem to do it all the time. Neurons that make different neurochemicals show circadian rhythms in gene expression, and none was more dependable than the others.

"Single cells sometimes will be very robust and rhythmic, but most of the time they quit or lose the rhythm," Webb said. "It appears that the network structure of the SCN is important for stabilizing these sloppy intrinsic rhythms."

To show that different kinds of SCN neurons did not have rigidly defined roles, Webb exposed SCN to the drug TTX, a pufferfish toxin that shuts down cell-to-cell communication. "In a sense, we just isolated the nerve cells again,"

Webb said, "but chemically rather than physically and in a reversible way."

She washed off the TTX and then added it again to see if the second time the cells were exposed to the toxin, they would behave the same way.

"We found cells that changed their behavior," she said. "So the first time they were isolated, or uncoupled, with TTX, they continued to oscillate, but the second time, they stopped oscillating. But we also saw the reverse: cells that were non-oscillatory becoming oscillatory."

Paradoxically, the sloppiness of the clock is what makes it so precise.

"The SCN is the master clock that synchronizes other biological clocks, like your liver or your lung. Those peripheral clocks can keep 24-hour time, but not for very long," Herzog said. "Because the SCN is built differently, it can self-sustain — it can keep on ticking like a good Timex."

The researchers are now focusing on the connections that help synchronize and stabilize these biological oscillators.

Center for violence prevention to be introduced during Brown School Convocation

By JESSICA MARTIN

Breaking the cycle of violence in young families and youth transitioning to adulthood is the focus of the new Center for Violence and Injury Prevention (CVIP) at the George Warren Brown School of Social Work.

Led by Melissa Jonson-Reid, Ph.D., associate professor at the Brown School, the center will provide research expertise on child maltreatment, intimate partner violence, sexual violence and suicide.

Jonson-Reid will introduce the work of the center during the Brown School's Convocation address, "Violence Free Lives for Children and Families — Advancing Evidence and Training" at 3:30 p.m. Sept. 24 in Brown Hall Lounge.

"There are many researchers and agencies in the region doing excellent work related to these issues, but often in isolation," Jonson-Reid said. "A center like this provides a launching ground for new initiatives. It provides the ability to translate findings to education for future practitioners across disciplines, training for existing practitioners and communication with policy makers."

John Constantino, M.D., the Blanche F. Ittleson Professor of Psychiatry and Pediatrics, serves as center co-director.

Current CVIP projects look at violence prevention in adolescent girls and within the veteran community; the impact of savings accounts on preventing maltreatment in relationships; and adapting the "Safe-n-Sound" program to prevent abuse in young families.

Safe-n-Sound uses computer kiosks to provide tailored information to parents in places such as pediatric waiting rooms. Prior versions focused solely on preventing unintentional injury. The CVIP project will see if the same format can be used to deliver tailored information about positive parenting approaches.

"Prevention and intervention research and creating effective training programs requires collaboration," Jonson-Reid says.

CVIP will be working with researchers from across Washington University; the Department of Criminology and Criminal Justice at the University of Missouri-St. Louis; the Saint Louis University School of Public Health; and an advisory board composed of experts from across the nation.

The center also will be partnering with regional agencies to ensure ongoing translation from research to training and practice.

The Centers for Disease Control and Prevention has designated the CVIP as one of its newest Injury Control Research Centers (ICRC). The Brown School is the first school of social work selected to host an ICRC.

ICRCs are located at 11 academic health centers throughout the United States. At each ICRC, scientists from a wide spectrum of disciplines focus on discovering how to prevent and control injuries more effectively.

They also work to identify critical knowledge gaps in injury risk and protection and also conduct research to address these gaps. This network also provides technical assistance to injury prevention and control programs within geographic regions.

Alzheimer's

More genes expected to be involved in risk

— from Page 1

"We've been able to estimate the amount of risk attributable to APOE at about 19 percent or 20 percent. The newly identified genes each come in under 10 percent, so it appears they have a much smaller effect," Goate said.

But not an insignificant one, Goate said, noting that although it isn't yet clear how these new genes influence Alzheimer's disease risk, levels of clustrin tend to rise when brain tissue is injured or becomes inflamed, and some researchers

have noted increased clustrin levels in the brain and cerebrospinal fluid of Alzheimer's patients.

The other gene, PICALM, appears to be involved in the breakdown of synapses, structures that allow neurons in the brain to communicate.

Goate said much more work is required to identify exactly how PICALM elevates Alzheimer's risk.

She expects many more genes also are involved in Alzheimer's risk. In fact, this study identified 13 more gene variants worthy of further investigation.

The consortium of more than 80 scientists was led by Denise Harold, Ph.D., and Julie Williams, Ph.D., and their colleagues at Cardiff University.

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Washington University in St. Louis

School of Medicine Update

Low vitamin D raises heart disease risks in diabetics

By JIM DRYDEN

Low levels of vitamin D are known to nearly double the risk of cardiovascular disease in patients with diabetes, and School of Medicine researchers now say they know why.

They have found that diabetics deficient in vitamin D can't process cholesterol normally, so it builds up in their blood vessels, increasing the risk of heart attack and stroke. The new research has identified a mechanism linking low vitamin D levels to heart disease risk and may lead to ways to fix the problem simply by increasing levels of vitamin D.

"Vitamin D inhibits the uptake of cholesterol by cells called macrophages," said principal investigator Carlos Bernal-Mizrachi, M.D., assistant professor of medicine and of cell biology and physiology. "When people are deficient in vitamin D, the macrophage cells eat more cholesterol, and they can't get rid of it. The macrophages get clogged with cholesterol and become what scientists

call foam cells, one of the earliest markers of atherosclerosis."

Macrophages are dispatched by the immune system in response to inflammation and often are activated by diseases such as diabetes. Bernal-Mizrachi and his colleagues say that in diabetic patients with inadequate vitamin D, macrophages become loaded with cholesterol and eventually stiffen blood vessels and block blood flow.

Bernal-Mizrachi studied macrophage cells taken from people with and without diabetes and with and without vitamin D deficiency. His team, led by research assistants Jisu Oh and Sherry Weng, M.D., exposed the cells to cholesterol and to high or low vitamin D levels. When vitamin D levels were low in the culture dish,

macrophages from diabetic patients were much more likely to become foam cells.

In the Aug. 25 issue of the journal *Circulation*, the team reports that vitamin D regulates signaling pathways linked both to uptake and to clearance of cholesterol in macrophages.

"Cholesterol is transported through the blood attached to lipoproteins such as LDL, the 'bad' cholesterol," Bernal-Mizrachi said. "As it is stimulated by oxygen radicals in the vessel wall, LDL becomes oxidized, and macrophages eat it uncontrollably. LDL cholesterol then clogs the macrophages, and that's how atherosclerosis begins."

That process accelerates when a person is deficient in vitamin D, and people with type 2 diabetes are very likely to have this deficiency. Worldwide, about 1 billion people have insufficient vitamin D levels. Women with type 2 diabetes are about a third more likely to have low vitamin D than women of the same age without diabetes.

When human macrophages are

placed in an environment with plenty of vitamin D, their uptake of cholesterol is suppressed, and they don't become foam cells. Bernal-Mizrachi said it may be possible to slow or reverse the development of atherosclerosis in patients with diabetes by helping them regain adequate vitamin D levels.

He is studying diabetics who are both deficient in vitamin D

and have high blood pressure to learn whether replacing vitamin D will lower blood pressure and improve blood flow. For this study, Bernal-Mizrachi is recruiting patients with type 2 diabetes and high blood pressure ages 30-80 who are not taking insulin to control their blood sugar.

For more information, contact mpetty@DOM.wustl.edu or call 362-0934.



Bernal-Mizrachi

Second cycle of grants supports patient research

By GWEN ERICSON

Twenty-four research groups have received funding through a joint Clinical and Translational Research Funding Program offered by the Washington University Institute of Clinical and Translational Sciences (ICTS) and the Barnes-Jewish Hospital Foundation (BJHF). This initiative combines the former ICTS Pilot and Novel Methodologies Program and the BJHF Clinical/Translational Research Grant Program.

In November 2008, 118 proposals were submitted. Proposals were either planning grants (up to \$25,000) or research grants (up to \$75,000). Twelve were awarded by ICTS and 12 by BJHF for a total of \$1.4 million. Awards began June 1.

ICTS was established in 2007

under a \$50 million, five-year grant from the National Institutes of Health's Clinical and Translational Science Award program. Kenneth S. Polonsky, M.D., the Adolphus Busch Professor and head of the Milliken Department of Medicine, directs the institute.

The programs and services of ICTS are designed to bring together basic research scientists and clinical researchers as well as health-care and commercial institutions in a coordinated system dedicated to improving patient care. Collaborating institutions include WUSTL, BJC HealthCare, Saint Louis University, the University of Missouri-St. Louis College of Nursing, Southern Illinois University Edwardsville School of Nursing, St. Louis College of Pharmacy and others.

Visit icts.wustl.edu for more information.

2009 grant recipients

- Research network for studies of children with unilateral hearing loss, **Judith Lieu**, M.D., assistant professor of otolaryngology
- Causes of fever in children 2-36 months of age, **Gregory Storch**, M.D., the Ruth L. Siteman Professor of Pediatrics
- Structural immunology of hepatitis C virus and generation of epitope diagnostics, **Michael Diamond**, M.D., Ph.D., associate professor of medicine (infectious diseases)
- Human and mouse linked evaluation of cancer core facility, **Matthew Ellis**, M.D., Ph.D., professor of medicine (oncology)
- Clinical research core facility for administrative claims data, **Victoria Fraser**, M.D., the J. William Campbell Professor of Medicine (infectious diseases)
- Community care for croup, **Jane Garbutt**, M.B.Ch.B., research associate professor of medicine (general medical sciences)
- Dissemination and implementation research core, **Enola Proctor**, Ph.D., the Frank J. Bruno Professor of Social Work Research
- Neuropathology of chronic manganese exposure, **Brad Racette**, M.D., professor of neurology
- Characterization of CD34+ stem cells and T cells following AMD3100 mobilization, **Michael Rettig**, Ph.D., research assistant professor of medicine (oncology)
- The role of neurobeachin (NBEA) in multiple myeloma, **Michael Tomasson**, M.D., associate professor of medicine (oncology)
- Improving kidney transplant education to increase living donation rates, **Amy Waterman**, Ph.D., assistant professor of medicine (general medical sciences)
- Nutrient-metabolite responses and arrhythmic outcomes in cardiomyopathy patients, **Peter Crawford**, M.D., Ph.D., assistant professor of medicine (cardiovascular division)
- Environmental moderators of

- diabetes, self-management education, **Michael Elliott**, Ph.D., research assistant professor of social work
- Increased SMN as a therapy for ALS, **Timothy Miller**, M.D., Ph.D., assistant professor of neurology
- Radiologic predictors of functional outcome in newborn brachial plexus injury, **Craig Zaidman**, M.D., instructor in neurology
- Osteomyelitis in diabetic foot infections: Impact of bone biomarkers, **Hilary Babcock**, M.D., assistant professor of medicine (infectious diseases)
- Running the stop in bone marrow failure, **Monica Bessler**, M.D., Ph.D., professor of medicine (hematology)
- Directional diffusivity as a window into the pathology of MS, **Anne Cross**, M.D., professor of neurology
- Role of oculomotor control in Parkinsonian gait: Mechanisms and treatment, **Gammon Earhart**, Ph.D., assistant professor of physical therapy
- Developing virtual environment authoring tools for creating therapy interventions, **Jack Engsborg**, Ph.D., associate professor of occupational therapy
- An interdisciplinary approach to the study of NAFLD, **Robert Gropler**, M.D., professor of radiology
- Multicontrast MRI for improved tumor localization in prostate cancer, **Robert Grubb**, M.D., professor of surgery (neurological surgery)
- Molecular epidemiology of *S. aureus* bacteremia and clinical outcomes, **David Warren**, M.D., assistant professor of medicine (infectious diseases)
- Patterns of prenatal tobacco use and psychiatric disorders, **Louise Flick**, Dr.PH., professor of family health and community health nursing at Southern Illinois University Edwardsville School of Nursing



Celebrating America's women physicians Sarah April (left), a senior anthropology major in Arts & Sciences, talks with Mabel L. Purkerson, M.D., professor emerita of medicine, as they look at the "Changing the Face of Medicine" exhibit at the Bernard Becker Medical Library. Purkerson took part in a panel discussion Sept. 3 on women's careers in medicine. The panel also included Patricia L. Cole, M.D., associate professor of clinical medicine; Dayna S. Early, M.D., associate professor of medicine; and Lisa Moscoso, M.D., Ph.D., assistant professor of pediatrics; and was moderated by Walton O. Schalick III, M.D., Ph.D., assistant professor of medical history at the University of Wisconsin-Madison.

Sleckman named Conan Professor

By MICHAEL C. PURDY

Barry P. Sleckman, M.D., Ph.D., has been named the Conan Professor of Laboratory and Genomic Medicine.

Chancellor Mark S. Wrighton and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, announced the appointment.

Sleckman is the second faculty member to hold the Conan Professorship, which was endowed by Jack Ladenson, Ph.D., the Oree M. Carroll and Lillian B. Ladenson Professor of Clinical Chemistry in Pathology and Immunology. Ladenson established the chair in part from funds earned through the development of blood tests to detect myocardial infarction, or heart attack.

"As an outstanding leader in teaching, research and administration, Barry Sleckman is a fine match for the Conan Professorship," Shapiro said. "He is an outstanding basic scientist interested in DNA damage and repair. He's a regular recipient of teaching awards at the School of Medicine, and his guidance helps to ensure that faculty in his division not only keep pace with the latest rapid advancements but also lead the way in developing new technologies and applying them to patient care."

In July 2008, Sleckman became chief of the Division of Laboratory and Genomic Medicine in the

Department of Pathology and Immunology.

"As Conan professorship donor Jack Ladenson so ably demonstrated with his work on heart attack tests, Laboratory and Genomic Medicine is one of the real foci of our efforts to translate bench results from the laboratory into new bedside diagnostics and treatments for patients," Wrighton said. "I'm confident that Barry Sleckman will help such efforts move forward quickly and effectively as our new Conan Professor."

Sleckman's personal research focuses on DNA repair and the development of the early immune system. To develop properly, immune system cells have to rearrange some of their DNA. If these carefully regulated processes go awry, immune deficiency or cancer can result.

"Barry's research is helping us to understand basic processes that establish the diversity and effectiveness of the immune system. His studies have implications that extend well beyond the immune system into understanding fundamental aspects of gene regulation and mechanisms of cancer induction," said Herbert W. Virgin, M.D., Ph.D., the Edward Mallinckrodt Professor and chair of Pathology and Immunology. "Quite simply, he is a fantastic leader with vision and enthusiasm that will improve the department, the School of Medicine and the University. His commitment to the training of students and residents also stands out as a true strength."



Sleckman

University Events

Dorfman returns to WUSTL and takes dance theater 'underground'

BY LIAM OTTEN

Does what you do make a difference?
Is violence ever justified?
When can activism become terrorism, or vice versa?

Such provocative questions lie at the heart of "underground," an ambitious, evening-length multimedia dance piece by acclaimed choreographer David Dorfman.

Loosely inspired by the Weather Underground, the radical and sometimes violent 1960s militant group, "underground" explores the similarities and connections between physical and political movement as well as the promise and the danger of ideological passion.

At 8 p.m. Sept. 25 and 26, WUSTL alum Dorfman returns to Edison Theatre with his company, David Dorfman Dance, to launch the 2009-10 OVATIONS series.

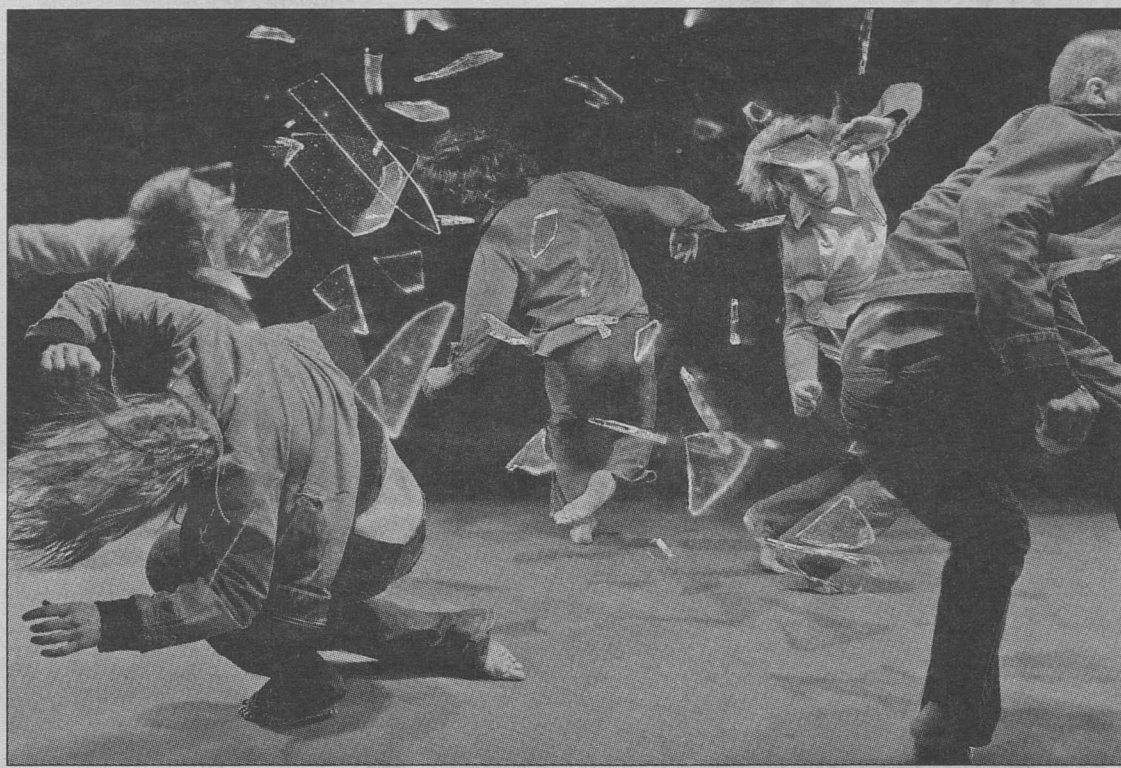
"David is one of the most visceral and exciting choreographers working today," said Charlie Robin, executive director of Edison Theatre. Robin has known Dorfman for more than 15 years.

"He employs a deceptively simple vocabulary of familiar body movements to produce innovative and stunningly dynamic dance," Robin said. "For 'underground,' his professional company will work with a large group of local community members to literally fill the stage with a groundswell of energy and activity."

Dorfman first conceived "underground" after seeing Sam Greene and Bill Seigel's Academy Award-nominated documentary "Weather Underground." Yet, the piece also reflects Dorfman's lifelong fascinations.

As a teenager in Chicago, Dorfman had been riveted by the 1968 Democratic National Convention. The following year, he was deeply impressed by the Days of Rage riots — a protest against the trial of the Chicago Seven — with which the Weather Underground announced its formation.

Yet, in "underground," Dorfman's theme is less political history than political philosophy: In a turbulent world, how does one



A scene from "underground," a multimedia dance performance by acclaimed choreographer and WUSTL alumnus David Dorfman. The show takes place at Edison Theatre Sept. 25 and 26.

fight for justice?

"I try hard to be a good global citizen, and I mourn the needless loss of life," Dorfman told the San Francisco Bay Guardian shortly after the show's premiere. "So I

want my generation and younger people ... to look at the nature of activism and what, if anything, justifies the use of force and violence."

The evening opens with a

subtle prelude. As the audience arrives, Dorfman — casually dressed in baggy street clothes — takes the stage and quietly acts out a string of simple gestures that seem to embody the revolutionary fervor of the 1960s: a lunge forward, a raised fist, an arm cocked and ready to throw.

As Dorfman is joined by the full 10-member company, the simple gestures expand into full-blown vignettes exploring the psychology of rebellion. Moments of cool contemplation are juxtaposed with moments of surging, charismatic physicality. Yet punctuating the action is a succession of difficult and often confrontational questions: "Is your country worth killing for?" "Is your family worth killing for?"

"Uncomfortable honesty courses through 'underground' like an electrical charge," The New York Sun wrote. "This is the rare kind of dance theater that keeps people on the edge of their seats. You can't look away from the powerhouse

Dance with Dorfman

Prior to the Edison Theatre performance of "underground," choreographer and WUSTL alumnus David Dorfman — who has dedicated much of his career to the poetry of untrained dancers — will enlist 15-30 St. Louisans to serve as a kind of dance chorus. Auditions will take place from 10 a.m.-1 p.m. Saturday, Sept. 19, in the Annelise Mertz Dance Studio. (Dancers with scheduling conflicts due to Rosh Hashanah may make separate arrangements.)

For more information about the auditions, call Jen Killion at 935-4478 or e-mail jkillion@wustl.edu.

In addition, Dorfman and company members will lead a series of master classes and other residency activities Sept. 22-25 for the Dance Program in the Performing Arts Department (PAD) in Arts & Sciences.

Dorfman also will present a free public master class at 11 a.m. Sept. 26 in the Annelise Mertz Dance Studio. For more information, contact the PAD at 935-5858 or visit padarts.wustl.edu.

— Liam Otten

The Artist's Book • Utter Chaos • Overpopulation

"University Events" lists a portion of the activities taking place Sept. 17-30 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (news-info.wustl.edu/calendars) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

"Chance Aesthetics." Sept. 18-Jan. 4. Kemper Art Museum. 935-4523.

"Changing the Face of Medicine: Celebrating America's Women Physicians." Through Sept. 18. Bernard Becker Medical Library. 362-7080.

"Double Exposure: Al Parker's Illustrations, From Model to Magazine." Through Sept. 30. Olin Library, Lvl. 1, Grand Staircase Lobby and Ginkgo Rm. 935-7741.

"Edward and Joshua Geltman: A Photographic Journey." Through Sept. 20. Farrell Learning & Teaching Center, Hearsh Gallery. 747-3284.

"Metabolic City." Sept. 18-Jan. 4. Kemper Art Museum. 935-4523.

"My Right Self: Transgender Considerations." Sept. 21-Oct. 9. Farrell Learning &

Teaching Center Atrium. zinterm@wusm.wustl.edu.

Lectures

Thursday, Sept. 17

Noon. Genetics Seminar. "Good at Being Bad: Why Low-Affinity Binding Sites are Optimal for Responding to the Hedgehog Morphogen." Scott Barolo, cell & developmental biology, U. of Mich. Medical School. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

Noon. Siteman Cancer Center Special Seminar. "A Decade of Preclinical Chemopreventive Studies With NSAIDs and COX-2 Inhibitors: What Have We Learned? What Might We Learn?" Ronald A. Lubet, program dir., National Inst. of Health. Farrell Learning & Teaching Center, Connor Aud. 454-8981.

3 p.m. Energy, Environmental & Chemical Engineering Seminar Series. "Overview of Technologies at the Johns Hopkins University Applied Physics Laboratory." Victor McCrary, pres., National Org. of Black Chemists & Chemical Engineering. Co-sponsored by the Chemistry Dept. Louderman Hall, Rm. 458. 935-5548.

4 p.m. Chemistry Seminar. "On the Nature of Electronically Excited and Ionized States of the Anionic Form of the Green Fluorescent Protein Chromophore." Anna I. Krylov, prof. of chemistry, U. of Southern Calif. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Vision Science Seminar Series. "The Role of Neurturin and RET in Retinal

Development and Function." Milam A. Brantley, asst. prof. of ophthalmology. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. "Interaction Between Iron Respiring Bacteria and Iron (Oxy)(Hydr) Oxides." Andrew Stack, asst. prof. of earth & atmospheric sciences, Ga. Inst. of Technology. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

5 p.m. Assembly Series. Jessica Jackley, co-founder, Kiva.org. Simon Hall, May Aud. 935-5285.

5 p.m. University Libraries Visiting Artist Talk. "The Artist's Book." Luis Angel and Parra Eugenia Nino, co-owners, Arte Dos Grafico. Olin Library, Lvl. 1, Ginkgo Rm. 935-5495.

7 p.m. Center for the Study of Ethics & Human Values Constitution Day Panel Discussion. "Did the Japanese American Internment Violate Constitutional Rights ... and Why Do We Care?" Part of "Ethnic Profiling: A Challenge to Democracy" series. Sponsored by Gephart Inst. for Public Service, the Freshman Reading Program and Political Science Student Association. Danforth University Center, Rm. 242. 935-9358.

Friday, Sept. 18

9:15 a.m. Pediatric Grand Rounds. "Yes We Can! Positive Youth Development — A Strategy for Intervention." Katie Plax, asst. prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Computer Science & Engineering Colloquium. "Neurobotics and Walking Machines." M. Anthony Lewis, assoc. prof. of electrical & computer engineering, U. of Ariz. Cupples II Hall, Rm. 217. 935-6160.

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. "Nanoscale Organic Hybrid Materials (NOHMs)." Lynden Archer, prof. of chemical & biomolecular engineering, Cornell U. Lopata Hall, Rm. 101. 935-5548.

Noon. Cell Biology & Physiology Lecture. "Versican — An Extracellular Matrix Molecule that Regulates Cellular Phenotype." Thomas N. Wright, dir., Benaroya Research Inst. at Virginia Mason. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

7:30 p.m. Saint Louis Astronomical Society Meeting. "The Exploration of the Moon Through Time." Ryan Zeigler, research scientist. McDonnell Hall, Rm. 162. 935-4614.

Monday, Sept. 21

4 p.m. Immunology Research Seminar Series. "DNA Damage Responses in Developing Lymphocytes." Barry Sleckman, prof. of pathology & immunology. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

4 p.m. Siteman Cancer Center Breast Cancer Research Group Seminar. "P13 Kinase Inhibition in Estrogen Receptor Positive Breast Cancer." Matthew J. Ellis, prof. of medicine. Farrell Learning & Teaching Center, Holden Aud. 454-8981.

7:30 p.m. Saint Louis Astronomical Society Meeting. "The Formation of the Solar System." Angela Speck, asst. prof. of physics, U. of Mo. McDonnell Hall, Rm. 162. 935-4614.

Tuesday, Sept. 22

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.

Braff rescheduled

The Assembly Series program featuring actor Zach Braff has been rescheduled for 7 p.m. Nov. 12 in Graham Chapel. As always, visit assemblyseries.wustl.edu for last-minute changes to the schedule.

"Listeria Monocytogenes Crossing of Host Barriers." Marc Lecuit, prof. of infectious diseases, Pasteur Inst. Cori Aud., 4565 McKinley Ave. 747-1329.

5 p.m. Freedom From Smoking Class. "Studying Your Habit and Building Motivation." Center for Advanced Medicine, Barnard Health and Cancer Info. Center. To register: 362-7844.

Wednesday, Sept. 23

1 p.m. Institute for Public Health Annual Conference 2009. "Multidisciplinary Approach to Eliminate Disparities." Eric P. Newman Education Center. For more info. & to register: publichealth.wustl.edu.

3:30 p.m. History Colloquium. "Hybrid Institutions/Local Solutions: The Iwakura Colony and Academic Psychiatry in Prewar Japan." Susan Burns, assoc. prof. of history, U. Chicago. (Reception follows.) Co-sponsored by East Asian studies. Busch Hall, Rm. 18. 935-5450.

Thursday, Sept. 24

8:30 a.m.-7 p.m. Energy, Environmental & Chemical Engineering Seminar Series.

Green Your Office

Save boxes and reuse them for later projects or packages.

'Metabolic City' explores visionary architecture of the 1960s

Amidst the cultural and political ferment of the 1960s, avant-garde artists and architects began embracing biological and scientific models as well as the potentials of emerging technologies to explore radical new directions in urban design, developing projects that were at once fanciful, complex and conceptually serious.

Beginning Friday, Sept. 18, the Mildred Lane Kemper Art Museum will present "Metabolic City," an exhibition surveying work by the British collective Archigram; the Japanese Metabolists (whose members include Fumihiko Maki, architect of the Kemper Art Museum); and the Dutch painter Constant Nieuwenhuys, an early member of the Situationist International.

Curated and designed by Heather Woofert, assistant professor of architecture in the Sam Fox School of Design & Visual Arts, "Metabolic City" will feature approximately 70 drawings, plans, models and conceptual projects, including rarely seen materials drawn from private archives and a sampling of work by influential predecessors.

Organized thematically, the exhibition explores theoretical and conceptual overlaps between these groups, all of which came to view the city as a kind of living organism, in which civil infrastructure forms the basis for social interaction and individual liberty.

At the same time, though they articulated their views in explicitly political terms, each pioneered



"Electronic Tomato — Collage" by Warren Chalk and David Greene of the British collective Archigram is one of the many artworks in Kemper's "Metabolic City" exhibit, on display until Jan. 4, 2010.

distinctive — and remarkably prescient — means of architectural representation, often employing techniques and processes that are only now entering main-

stream practice.

Networks of urban circulation were a major area of focus. Mechanical systems, roadways, pedestrian passages and other

built environments frequently were conceived in relation to electronics, media and other immaterial connections. Archigram's "Computer City," for instance, tracks the infrastructures that allow its futuristic "Plug-In City" to operate. Maki's "Golgi Structures" — named for Nobel Prize-winner Camillo Golgi, who developed techniques for visualizing nerve cell bodies — alternate dense urban areas with unstructured open spaces. Encasing the latter are light-absorbing cells that facilitate communication, energy distribution and mechanical systems.

These figures also shared a belief that adaptable habitats could foster unprecedented levels of freedom and mobility. Archigram's "Walking City" consists of mammoth "pods," or cities built as ship-like vessels, capable of traversing the earth. Nieuwenhuys' "New Babylon North" suggests a sprawling serpentine structure that could be shaped and reshaped by inhabitants, their labors supported by factories hidden below ground.

"Wall City," by the Metabolist Kisho Kurokawa, envisions a series of movable plug-in units for living and working, the increased efficiency of which would shorten the workweek and encourage leisure travel.

Growth patterns and life cycles are a part of all living systems, an observation that deeply influenced Kurokawa's "Metamorphosis," which employs techniques derived from biological modeling to represent the transformation of urban spaces. Growth patterns of a media-based variety inform Archigram's

utopian "Instant City," in which large airships descend onto population centers to install infrastructure supporting community events ranging from circuses to political rallies. As the airships move on to other locations, those infrastructural networks remain behind.

Underlying many projects was a hopeful yet critical view of new engineering technologies. Though this generation of artists and architects witnessed the effects of World War II and the mass destruction made possible by technological inventions, the emerging space age nevertheless sparked a sense of optimism and potential.

For his "Marine City," the Metabolist Kiyonori Kikutake collaborated with marine engineers to detail entire metropolises constructed out at sea. Composed of multiple towers connected in a ring, these structures would submerge beneath the waves during inclement weather and return safely to the surface as waters grew calm.

In conjunction with the exhibition, Dennis Crompton, a former member of Archigram, will host a gallery talk at 2 p.m. Saturday, Sept. 19, in the Kemper Art Museum. Crompton spent last fall teaching in the Sam Fox School as the Ruth and Norman Moore Visiting Professor of Architecture.

"Metabolic City" will open with a reception from at 7 p.m. Friday, Sept. 18, and remain on view through Jan. 4, 2010.

Both the reception and exhibition are free and open to the public. For more information, visit kemperartmuseum.wustl.edu or call 935-4523.

Chase, Hellmuth to talk about building 'green'

By BARBARA REA

The Living Learning Center at Tyson Research Center was designed to meet the stringent requirements for becoming one of the greenest buildings in North America. To meet those standards required solutions to environmental, architectural and legal challenges never before experienced by designers.

The two men most instrumental in the successful design of the center — Jonathan M. Chase, Ph.D., director of the Tyson Research Center and associate professor of biology in Arts & Sciences; and Daniel Hellmuth, principal and co-founder of Hellmuth & Bicknese Architects — will discuss the center and its challenges for the Assembly Series at 5 p.m. Sept. 24 in Wilson Hall, Room 214. The program is free and open to the public.

Chase has taught at WUSTL since 2002 and took over the directorship of Tyson in 2007. His research covers broad areas in the study of species diversity in both aquatic and terrestrial ecosystems. A prolific author, his research has been published in a wide range of journals, especially in those devoted to ecology.

Chase earned a bachelor's degree from the University of Michigan; a master's degree from Utah State University; and a doctoral degree from the University of Chicago.

Hellmuth has extensive experience in sustainable design and is a LEED-accredited professional. For more than 25 years, he has worked on government, housing, educational, historic preservation and transit design and planning projects. With more than 28 LEED projects to his firm's credit, Hellmuth can now add the Living Building Challenge Project, a feat that creates a net-zero energy, water, and construction carbon-footprint building.

Hellmuth is devoted to bringing sustainable development to St. Louis. He helped establish the St. Louis chapter of the U.S. Green Building Council and served as its first chair. He is involved with creating a sustainable community development code and a "green streetscape" plan for Euclid Avenue in the Central West End neighborhood of St. Louis.

Tyson Research Center, located 20 miles southwest of the Danforth Campus, contains 2,000 acres of woods, prairie, ponds and savannas for faculty and students to conduct environmental research.

The Living Learning Center is a 2,900-square-foot facility built to meet the Living Building Challenge, currently the most stringent green building rating system in the world. More than 60 design projects are pursuing certification, but the Living Learning Center is one of the first two to meet its rigorous guidelines.

For more information, visit assemblyseries.wustl.edu or call 314-935-4620.

Constitution panel to discuss upcoming Supreme Court cases

In honor of Constitution Day, the American Constitution Society (ACS) at the School of Law will present a panel discussion on upcoming high-profile Supreme Court cases at noon Thursday, Sept. 17, in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

The panel, moderated by Ronald Levin, J.D., the Henry Hitchcock Professor of Law, will feature the following presentations:

- Gregory Magarian, J.D., professor of law, on Citizens United v. Federal Election Commission, a campaign finance law case;
- Mae C. Quinn, J.D., professor of law and co-director of the Civil

Justice Clinic, on Graham v. Florida, an Eighth Amendment juvenile life-imprisonment case; and

- Scott Baker, J.D., professor of law, on Bilski v. Doll, a patent law case.

A question-and-answer session will follow the discussion.

Founded in 2001, ACS is a progressive legal organization composed of law students, lawyers, scholars, judges, policy makers and activists.

The organization works to ensure that the fundamental principles of human dignity, individual rights and liberties; genuine equality; and access to justice have a central place in American law.

"Symposium on Nanotechnology for Public Health, Energy & Environment." (Continues 8:30 a.m.-5 p.m. Sept. 25.) Whitaker Hall Aud. 935-5548.

Noon. Genetics Seminar. "Comparative and Functional Genomics of Stress Defense in Fungi." Audrey P. Gasch, asst. prof. of genetics, U. of Wis.-Madison. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. Chemistry Seminar. "Using Quaternions to Identify and Describe Protein and Nucleic Acid Secondary Structure." Bob Hanson, prof. of chemistry, St. Olaf College. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Vision Science Seminar Series. "AMD and the Complement System." John P. Atkinson, prof. of medicine. Maternity Bldg., Rm. 725. 362-3315.

4:15 p.m. Earth & Planetary Sciences Colloquium. "Constraining Planet Formation Using the Highly Siderophile Elements." James Day, asst. research scientist in geology, U. of Md. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

5 p.m. Assembly Series. Jonathan Chase, dir., Tyson Research Center, and Dan Hellmuth, architect. Wilson Hall, Rm. 214. 935-5285.

6 p.m. Center for the Study of Ethics & Human Values. Ethics Night on Campus.

"Overpopulation." (Food provided.) Seigle Hall, Rm. L006. For information: humanvalues.wustl.edu.

Friday, Sept. 25

9:15 a.m. Pediatric Grand Rounds. Annual Strunk Family Lecture. "Asthma and the Microbiome." Homer Boushey, prof. of medicine, U. of Calif., San Francisco. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Computer Science & Engineering Colloquium. "Intracortical Microsystems for Wireless Biosensing and Visual Microstimulation." Mohamad Sawan, prof. of electrical engineering, Polytechnique Montreal. Cupples II Hall, Rm. 217. 935-6160.

Tuesday, Sept. 29

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Insight Into a Novel Pathway Required for *Mycobacterium tuberculosis* Pathogenesis." Christina Stallings, research fellow in immunology, Sloan-Kettering Inst. Cori Aud., 4565 McKinley Ave. 362-8873.

5 p.m. Freedom From Smoking Class. "Coping With Urges and Making a Plan." Center for Advanced Medicine, Barnard Health and Cancer Info. Center. To register: 362-7844.

Wednesday, Sept. 30

8:15 a.m.-4:30 p.m. St. Louis STD/HIV Prevention Center CME Course. "STD Update." (Continues 8:30 a.m.-noon Oct. 1.) Cost: \$75. For location and to register: 747-1522.

4 p.m. Assembly Series. "State of the LGBT Movement." Matthew Coles, constitutional & civil rights expert. Co-sponsored by the School of Law. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 935-5285.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Transactions at the Replication Fork: Functional, Mechanistic and Chemical Biology Studies." Charles McHenry, prof. of chemistry & biochemistry, U. of Colo. at Boulder. McDonnell Medical Sciences Bldg., Rm. 264. 362-4152.

Music

Thursday, Sept. 17

8 p.m. Jazz at Holmes. Fresh Heir. Ridgley Hall, Holmes Lounge. 862-0274.

Thursday, Sept. 24

8 p.m. Jazz at Holmes. Utter Chaos.

Performing music of Gerry Mulligan. Ridgley Hall, Holmes Lounge. 862-0274.

Sports

Friday, Sept. 18

All day. Men's Tennis. WU Fall Invitational. (Also all day Sept. 19 and 20.) Tao Tennis Courts. 935-4705.

All day. Women's Tennis. WU Invitational. (Also all day Sept. 19 and 20.) Tao Tennis Courts. 935-4705.

2 p.m. Men's Soccer vs. Birmingham Southern College. Francis Field. 935-4705.

7:30 p.m. Volleyball vs. Juniata College. Annual Teri Clemens Invitational. Athletic Complex. 935-4705.

Saturday, Sept. 19

9:30 a.m. Volleyball vs. U. of La Verne. Annual Teri Clemens Invitational. Athletic Complex. 935-4705.

1 p.m. Football vs. Wittenberg U. Francis Field. 935-4705.

5 p.m. Volleyball vs. U. of St. Thomas. Annual Teri Clemens Invitational. Athletic Complex. 935-4705.

Friday, Sept. 25

All day. Men's Tennis. Wilson/ITA Central Regional. (Also all day Sept. 26-28.) Tao Tennis Courts. 935-4705.

7 p.m. Women's Soccer vs. Southeast Missouri U. Francis Field. 935-4705.

On Stage

Friday, Sept. 25

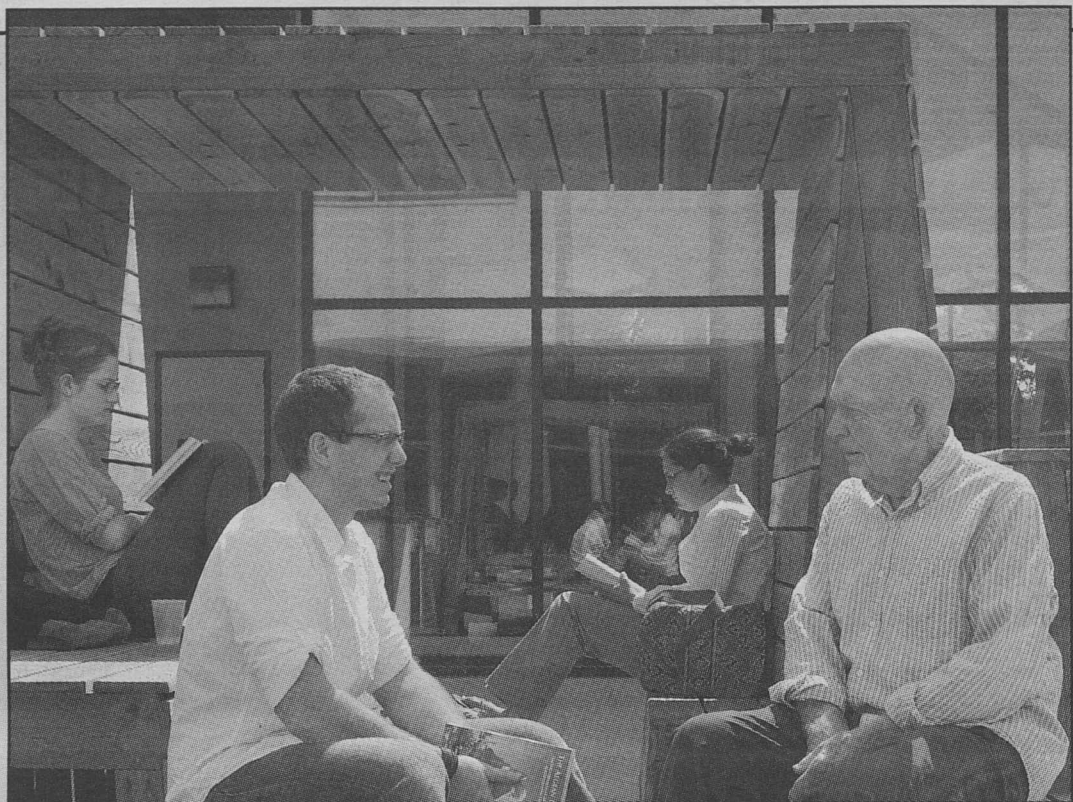
7 p.m. A.E. Hotchner Playwriting Festival Staged Readings. (Also 7 p.m. Sept. 26.) Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

8 p.m. OVATIONS Series. "underground." David Dorfman Dance. (Also 8 p.m. Sept. 26.) Cost: \$32, \$28 for seniors, WUSTL faculty & staff, \$20 for students & children. Edison Theatre. 935-6543.

And More

Saturday, Sept. 19

11 a.m. Football Tailgate Party. Danforth University Center Courtyard. 935-3964.



'Laskey Landscape' Roberto Jaime Deseda (left), a student in the Graduate School of Architecture & Urban Design, chats with Leslie J. Laskey, professor emeritus of architecture, while two students relax in the "Laskey Landscape," a large construction made of wood and metal located in the Sam Fox School of Design & Visual Arts' Dula Foundation Central Courtyard. Combining modern joinery techniques with attention to human ergonomics, the piece was designed and built by Deseda and fellow graduate student Justin Beadle to promote interaction between Sam Fox School students. Construction, which took place over the summer, was funded by the Laskey Award, an annual \$5,000 grant presented by Studio L, an at-large group of Laskey's former students, friends, colleagues and patrons, in conjunction with the architecture school.

Sports

Women's golf wins 22-team invitational

The women's golf team shot a school-record 306 to capture the 2009 Wartburg Fall Invitational Sept. 13 in Waverly, Iowa.

In just its second year as a varsity program, the program opened eyes last weekend as the Bears knocked off two teams ranked in the preseason top 20 poll. After shooting a 325 in the first day, the Bears fired a 306 for a two-day total of 631.

Freshman Hannah Buck continued her consistent play by shooting a 75 on the second day for her fourth consecutive round under 80. Buck shot a 79 the first day and finished in a tie for third place with a 36-hole score of 154. Senior Margaret Manning also had a top 10 individual finish as she finished seventh with a two-day total of 157 (79-78).

WUSTL continues its fall season on Saturday and Sunday, Sept. 19 and 20, at the Illinois Wesleyan University Fall Classic in Normal, Ill.

Men's soccer remains unbeaten

The men's soccer team posted a 1-0-1 week with a 2-1 win at Webster University Sept. 10 and a 1-1 tie with Rhodes College Sept. 13.

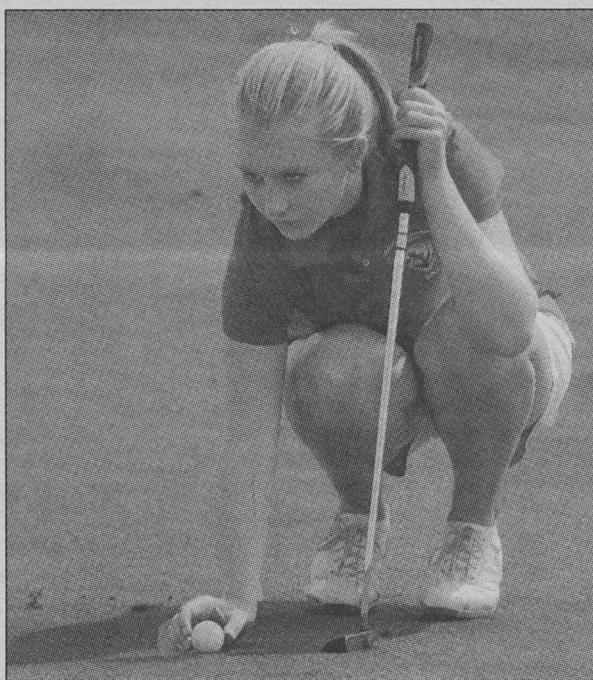
Sophomore Michael Chamberlin headed in a goal with just over four minutes to play against Webster to lift the Bears to a 2-1 victory.

Against Rhodes, the Bears trailed 1-0 for most of the game before junior John Duncan recorded a goal — the first of his WUSTL career — following an indirect kick in the 77th minute.

The Bears (2-0-3) had a pair of home games this week, hosting Westminster College Sept. 16 and Birmingham Southern College Friday, Sept. 18, before hitting the road for three games.

Exciting finish on road for football

Senior Sam Kentor scored from one yard out with 3:41 left in the fourth quarter to break a 35-35 tie as the football team held on for a 41-35 victory at Westminster College Sept. 12.



Freshman Hannah Buck has helped the women's golf team make a splash on the national scene in only its second season as a varsity program.

Trailing 35-14 in the fourth quarter, Westminster scored 21 unanswered points in three minutes and 47 seconds. The home team drove all the way down to the WUSTL 33-yard line with less than two minutes to play, but the Bears' defense slammed the door on a 4th-and-3 to secure the victory.

The Bears totaled 430 yards of total offense in the game.

WUSTL (1-1) returns Saturday, Sept. 19, to host Wittenberg University. Kickoff is 1 p.m. at Francis Field.

Volleyball finishes second in tourney

The No. 8 volleyball team finished second at the WU/Asics National Invitational Tournament Sept. 11 and 12 at the WU Field House.

The Bears (8-2) defeated three ranked teams, topping No. 10 Pacific Lutheran University Sept. 11 and defeating No. 18 Concordia College and No. 17 University of Wisconsin-Whitewater Sept. 12. The lone loss came Sept. 11 to Ohio Northern University, which won the tournament on percentage points.

Two WUSTL players were named to the all-tournament team: sophomore outside hitter Kristen Thomas and sophomore middle hitter Lauren Budde.

The Bears' season continues at 7:30 p.m. Friday, Sept. 18, in the WU Field House against No. 2

Juniata College in the Teri Clemens Invitational.

Women's soccer sweeps in classic

The No. 20-ranked women's soccer team extended its winning streak to three games with a pair of victories at the Washington University Classic.

The Bears scored three unanswered goals en route to a 3-1 victory over No. 21 Claremont-Mudd-Scripps Colleges Sept. 11 and then followed up with a convincing 10-0 win over Grinnell College Sept. 12.

Senior Caryn Rosoff scored the game-winning goal in both victories.

WUSTL (3-2) is back in action at 3 p.m. Friday, Sept. 18, at Alma College in Alma, Mich.

Cross country teams win at Maryville

The men's and women's cross country teams each finished in first place at the Maryville Classic Sept. 12 in St. Louis.

The WUSTL women posted a perfect team score of 15 points as the Bears captured the top six spots in the race and landed eight runners in the top 10.

Both teams return to action Sept. 26 for the Southern Illinois University Saluki Invitational in Carbondale, Ill.

Woman's Club offers 'Meet the Leaders' series

By JESSICA DAUES

Learn more about specific issues faced by women at Washington University, St. Louis and around the world at the "Meet the Leaders" panel discussion series, sponsored by the Woman's Club of Washington University.

The programs give the public an opportunity to meet and hear from community and University leaders and will feature short presentations by speakers followed by opportunities for questions and discussion.

Each session will be held from 8-9:30 a.m. at the Knight Center, Room 211 (unless otherwise indicated), on the Danforth Campus and includes a breakfast buffet.

The schedule:

Sept. 30: David Mutch, M.D., the Ira C. and Judith Gall Professor of Obstetrics and Gynecology and director of the Division of Gynecologic Oncology at the School of Medicine; and Mary Ellen Swatske, clinical nurse specialist, and Teresa Deshields, Ph.D., manager of the Psycho-Oncology Service, both of the Siteman Cancer Center at Barnes-Jewish Hospital, will talk about "Breast Cancer Treatment and New Research."

Nov. 10: Carolbeth True, winner of the 2008 Riverfront Times Best Jazz Artist Award and 2004

St. Louis Magazine Musician of the Year, and William Lenihan, director of jazz performance in the Department of Music in Arts & Sciences, will discuss "Women in Jazz in St. Louis."

April 6, 2010: "Women at Washington University Today" features faculty who will discuss new research in gender from a variety of disciplines: humanities, social sciences and graduate and professional areas. This talk will take place in Room 340 of the Knight Center and is co-sponsored by the Women, Gender & Sexuality Studies Program in Arts & Sciences.

Tickets are \$20 per person or \$55 per person for all three sessions.

The Woman's Club, founded in 1910 by faculty wives, offers its members opportunities to form friendships and grow intellectually through luncheons, lectures, tours and programs. The club also funds scholarships for deserving WUSTL students.

Membership is open and consists of women who are faculty or staff; spouses/partners or widows of faculty or staff; alumnae or spouses/partners of alumni; or friends of the University.

For more information about the "Meet the Leaders" series or to register, e-mail Susan Colangelo at szcola113@gmail.com or visit wustl.edu/womans.

Off-campus safety seminar Sept. 17

Quadrangle Housing will host its annual Neighborhood Safety Meeting at 6 p.m. Thursday, Sept. 17, at the Regional Arts Commission building located at 6128 Delmar Blvd., across from the Pageant theater.

Members of the Washington University Police Department, the St. Louis Metropolitan Police Department and the University City Police Department will discuss and answer questions regarding

safety and security measures for those living in off-campus neighborhoods. Topics to be covered include personal safety measures, vehicle safety and home/apartment security. This event is free of charge and open to members of the WUSTL community and area residents.

For more information, contact WUSTL Police Sergeant Mark Glenn at 935-5084 or mark_glenn@WUSTL.edu.

Fellows

— from Page 1

Koepnick and Harper have numerous programs planned for students in their residential college this year. The first, "Surviving College 101," is a program of practical tips for first-year students on communicating effectively with faculty members. It will be held at 7 p.m. Sunday, Sept. 20, in Danforth House.

In collaboration with the Office of Orientation, they've also started the Danforth Photo Project, an opportunity for Danforth residents to document their transition into the University community.

The couple plans biweekly dinners in their apartment with students. They also are working with the faculty associates of Danforth House to plan a series of food films; a rafting trip on the Meramec River; and a panel discussion on the 20th anniversary of the fall of the Berlin Wall organized by Koepnick, born in what was then West Germany.

"The faculty fellows program has the potential of breaking down barriers between students and faculty and adding new and different dimensions to our relation-

ships," Harper said. "They see firsthand that we are humans and have human needs just like them and the other adults in their lives. We have barbecues in our backyard and take walks and read in the sun and laugh and have a good time."

Koepnick said he hopes living on campus will provide a great opportunity for his two daughters, Kirstin, 10, and Nicola, 13, not

only to meet and interact with students who often miss their own younger siblings but also "to help our kids to think about their own future in a more relaxed fashion, to realize that college kids have normal lives as well and

do all the kinds of things that other people do."

While they certainly are not aiming to become surrogate parents to the undergraduates, Koepnick hopes the family's presence is educational for students.

"What they can hopefully glean from our presence here is the fact that the world of learning stretches all the way from the home to the lecture hall," Koepnick said.

"Teaching and researching, thought and writing, attentive reading and rigorous argumentation are things that do not simply happen in an existential vacuum; we take the lives of our students as seriously as their minds," he said.

"(Students) see firsthand that we are humans and have human needs just like them and the other adults in their lives."

JANA HARPER

Notables

Cowsik receives award for work in cosmic ray physics

By SUSAN
KILLENBERG MCGINN

Ramanath Cowsik, Ph.D., professor of physics and director of the McDonnell Center for the Space Sciences, both in Arts & Sciences, received the 2009 O'Ceallaigh Medal for his "outstanding contributions to cosmic ray physics."

He received the award during the opening ceremony of the 31st biennial International Cosmic Ray Conference, held July 7-15 in Lodz, Poland.

The International Union of Pure and Applied Physics' Cosmic Ray Commission and the Dublin Institute for Advanced Studies sponsored the award, which is named for the late Cormac O'Ceallaigh, a physics professor at the Dublin Institute who made many seminal contributions in the field of cosmic rays. He was considered one of the most distinguished physicists in Ireland.

First awarded in 1999, the O'Ceallaigh Medal recognizes significant contributions to the field of cosmic ray physics over an extended career.

Cowsik's scientific contributions span over four decades. Born in Nagpur, India, he taught and did research for more than 40 years at the Tata Institute of Fundamental Research in Mumbai, India. While at the Tata Institute, he served as director of the Indian

Institute of Astrophysics (IIA) for 11 years prior to joining WUSTL's physics faculty in 2002 as a professor.

Considered one of the world's preeminent astrophysicists, he has made numerous major contributions to cosmic ray astrophysics.

"For many who measure the elemental and isotopic composition of cosmic rays near Earth and use these measurements to infer properties of the cosmic ray source and the cosmic ray transport in the galaxy, Ram's enduring contribution has been the formulation of the 'leaky-box model,'" said Martin H. Israel, Ph.D., professor of physics and a fellow in the McDonnell Center for the Space Sciences.



Cowsik

"Although that model was first put forward in Physical Review 42 years ago, it remains the basis for substantial work today," Israel said.

Considered the father of astroparticle physics, 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, cosmology and gamma and X-ray astronomy.

While the IIA's director for 11 years, he was instrumental in building the world's highest ground-based observatory in Hanle, Ladakh, in the Himalayas.

New hire, promotions in Campus Life

By NEIL SCHOENHERR

The office of Campus Life recently announced staff promotions and a hire.

Mike Hayes has joined the University as executive director of Campus Life and director of Greek Life. Leslie Heusted has been promoted to director of the Danforth University Center. Julia Macias Garcia has been promoted to assistant director of Campus Life and assistant dean in the College of Arts & Sciences.

"I am thrilled to have the opportunity to work with these people," said Jill Carnaghi, Ph.D., associate vice chancellor for students and dean of Campus Life. "They are such competent professionals. With other Campus Life staff, they will work to shape the future direction of how we work with students in their co-curricular activities."

Hayes began working at WUSTL this summer. He previously served as director of fraternity and sorority life at the University of Maryland. He also has worked with graduate and professional students at Cornell University and alumni at Indiana State University and served as assistant dean and acting dean of students at DePauw University and in student activities at Miami



Hayes



Heusted



Garcia

University in Oxford, Ohio.

"By bringing together Campus Life, Student Activities and Greek Life staff, we hope to provide a more seamless structure for students wanting to become engaged with their community and to find and select organizations and leadership positions that complement their curricular pursuits," Carnaghi said. "With Mike's diversity of institutions and experiences, I am excited about the possibilities of conceptualizing our work with students a bit differently."

Working closely with Hayes, Garcia works with the Annika Rodriguez Scholars and serves as a four-year adviser in the College of Arts & Sciences.

She also will be working with Campus Life staff related to topics of diversity and inclusion as well as the advisement of student organizations.

Heusted has been with WUSTL

since last September as assistant director for programming and marketing at the Danforth University Center. Prior to that, she served as director of student involvement at Maryville University of St. Louis.

She also worked with students at the University of Charleston in West Virginia and at Doane College in Crete, Neb. She has served as events manager at the Kansas City Convention Center and the Kansas City Zoo.

Heusted is a member of the board of directors of the National Association for Campus Activities.

"Leslie made significant contributions toward successfully launching the Danforth University Center during its first year of operation, and I look forward to her working with University Center and Event Services staff to create a team that will effectively and efficiently serve the campus community during a challenging financial climate," Carnaghi said. "She brings many years of experience and expertise to this position."

Margo promoted at Olin Business School

By MELODY WALKER

Karen Margo has been promoted to executive director of development for the Olin Business School.

Since joining the alumni and development staff 24 years ago, Margo has succeeded in tripling the annual fund and increasing the alumni annual fund nearly fivefold.

Margo worked closely with Olin leadership and volunteers to lead the business school's participation in the Campaign for Washington University. Contributions to Olin Business School

totalled in excess of \$142 million, far exceeding an initial goal of \$105 million.

Mahendra Gupta, Ph.D., dean and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management, congratulated Margo for her years of service to Olin. "I am very grateful for her leadership, commitment and hard work in engaging our alumni and helping



Margo

us realize our ambitious goals to grow and strengthen the school," Gupta said.

Margo first came to WUSTL as an MBA student. After a successful career in banking, she returned to the University as a director of development for business.

"Karen has also worked hard to identify, mentor and advance an excellent team of staff members — a true testament to her extensive experience and management skills," said Pamela A. Henson, associate vice chancellor for alumni and development programs.

For the Record

Of note

"Tom Huck and the Rebellious Tradition of Printmaking," an exhibition centering on recent woodcuts by **Tom Huck**, senior lecturer in printmaking/drawing, will be on display at the Saint Louis Art Museum Aug. 28-Nov. 15. The exhibition includes Huck's large-scale triptych "The Transformation of Brandy Baghead" — an absurdist response to the contemporary phenomenon of reality television and plastic surgery — as well as more than a dozen works by seven other artists whose works have influenced him. ...

Margaret Lin, a medical student, was chosen to participate in the Fogarty International Clinical Research Scholars Program. Lin is working in Beijing at the Cancer Institute and Hospital, Chinese Academy of Medical Sciences, for about 10 months. ...

Nan Lin, Ph.D., assistant professor of mathematics in Arts & Sciences, has received a two-year, \$119,934 grant from the National Science Foundation for research titled "Statistical Aggregation in Massive Data Environments." ...

Frederic Moynier, Ph.D., assistant professor of earth and planetary sciences in Arts & Sciences, has received a three-year, \$171,183 grant from the National Aeronautics and Space Administration from research titled "The Isotopic Composition of Transition Metals in Lunar Materials: Solar Wind Implantation and Stable Isotopic Fractionations." ...

Kenneth Murphy, M.D., Ph.D., professor of pathology

and immunology and HHMI Investigator in Pathology and Immunology, has received a two-year, \$691,082 grant from the National Institute of Allergy and Infectious Disease for research titled "Analysis of Bidirectional Signaling Mechanisms for BTLA and MVEM in Autoimmunity." This grant is supported by the American Recovery and Reinvestment Act. ...

Wojciech Swat, Ph.D., associate professor of pathology and immunology, has received a two-year, \$760,000 grant from the National Institute of Allergy and Infectious Disease for his research "Mechanisms of Signaling by Activating Receptors in Innate Immune Systems Cells." The grant is supported by the American Recovery and Reinvestment Act. ...

Carol Woods, Ph.D., associate professor of psychology and applied statistics, both in Arts & Sciences, has received a five-year, \$137,747 subaward from the University of Missouri-St. Louis for research titled "Neuropathogenesis of Clade C HIV in South Africa."

Obituary

Wolverson, 91

Sue Wolverson, lecturer at University College from 1976-1982, part-time lecturer in engineering from 1982-1990, and part-time lecturer in the School of Technology and Information Management from 1986-1990, died Sept. 5, 2009, at her home in Webster Groves, Mo. She was 91.

Campus Author

Martin K. Sneider, adjunct professor of marketing at Olin Business School

Toast: How a Leading Retailer Went from Toast of the Town to Just Plain Toast

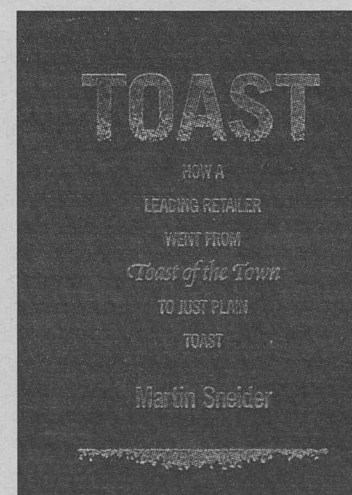
Four Penny Press (2009)

"Retailing is the ultimate Darwinian business," says Martin K. Sneider, adjunct professor of marketing at Olin Business School.

Sneider is author of a new memoir recounting his career in retail. The self-published "Toast: How a Leading Retailer Went from Toast of the Town to Just Plain Toast," chronicles the rise and fall of Edison Brothers Stores, along with Sneider's long affiliation with the company.

Sneider's childhood memories of helping in his grandfather's grocery in Omaha, Neb., to his days as a Washington University undergraduate (A.B. '64) also are recounted in the book. His story from unsuccessful shoe salesman to co-CEO of Edison Brothers is interwoven with the evolution of retail in the last half of 20th-century America.

Sneider's tenure at the helm of Edison Brothers began in



the late 1980s after a successful expansion into the apparel market that peaked with 3,000 stores and sales topping \$1.5 billion. He left the company months before it filed for bankruptcy in 1995.

"A major theme of the book is the challenge of operating a mature business as malls began to lose market share to category

killers and discount stores," Sneider says.

"In the case of Edison Brothers, we had a fabulous run when shopping centers were being built by the dozens and our store brands were fresh and vibrant, but when growth slowed and our concepts became dated, the ability to build shareholder value became ever more difficult," he says.

Sneider majored in history at WUSTL and earned a master's degree in journalism from the University of Missouri and a master's degree in business administration from Harvard University.

He has taught at Olin for the past 16 years and has won numerous teaching awards. Sneider has chaired the Alumni Board of Governors and served on the Arts & Sciences National Council. He received a distinguished alumni award this year.

— Melody Walker

Washington People

Laundromats and community newspapers can be the first line of defense against cancer. What happened to diet, exercise and other healthy behaviors?

"Cancer prevention information is available, but it isn't truly powerful unless it gets to everyone," says Matthew W. Kreuter, Ph.D., professor at the George Warren Brown School of Social Work.

"We have these tremendous gaps in our country between the health status of the wealthiest and the poorest people," Kreuter says. "For me, helping to close the gap is the greatest priority in the work that I lead. It just boils down to the issue of social justice. What it means to be a healthy community and a great society is that you don't have such wide disparities in the health of the population."

Kreuter is the founder and director of the Brown School's Health Communication Research Laboratory (HCRL), which works to increase the reach and effectiveness of health information for low-income and minority populations.

"What we try to do is make information about health every bit as interesting, compelling, personally relevant and easy to understand as anything you might encounter in your everyday life," Kreuter says.

By JESSICA MARTIN

Closing the gap

Kreuter brings health information to key communities

"I think historically 'we' — being health and medical professionals — haven't done a very good job of that," he says. "What we need to do is make health information and healthy living as easy for people as possible — easy to understand and easy to act upon."

The current direction of the HCRL is to use technology to connect people to existing programs and services that can help them.

Kreuter and his team built computer kiosks designed to deliver breast cancer information and put them in beauty salons, Laundromats, health centers, churches, social service agencies and public libraries. Testing revealed that Laundromats offered the best access to women who need this information the most.

"We've had success with the kiosks for the last five years and are constantly striving to improve them," Kreuter says. "The newest version of the kiosks will have telephones connected to cell-phone technology. When a woman using the kiosk indicates that she has never had a mammogram or that she hasn't had one in the last two years, the phone will ring, and on the other end will be a person from a local health center that provides mammograms who



Matthew W. Kreuter, Ph.D., professor at the George Warren Brown School of Social Work, talks with Jennifer Morgan, assistant in the Health Communication Research Laboratory and student in public health. "With his emphasis on impacting vulnerable populations and communities, Matt's work truly exemplifies the intersection of public health and social work," says Edward F. Lawlor, Ph.D., dean and the William E. Gordon Distinguished Professor.

can schedule an appointment for her and come and pick her up if necessary."

Another expanding project is the HCRL's work with African-American newspapers across the country to help them integrate more cancer coverage into their newspapers.

"African-Americans have higher rates of cancer and cancer death than other populations," Kreuter says. "It was important to find a way to get information to this population, and black newspapers provided a way to do that."

The HCRL created a news service that provides cancer stories to these newspapers. Each story is specific to each newspaper's community.

"What we've found in the first five years of doing this project was that offering this news service significantly increased cancer coverage in these black newspapers, and that readers of those papers made some changes as a result of it," Kreuter says.

In a second phase of the project, the HCRL is partnering with the American Cancer Society (ACS) to make the cancer stories even more localized. Local staff members at ACS offices around the country will gather local pictures, quotes and facts for the news service to further customize each story for their community.

Culture shift

The HCRL's Center for Cultural Cancer Communication is one of only five centers of excellence in cancer communication research nationally, as designated by the National Cancer Institute.

"I think there is an increasing awareness among people in health and medical fields that we need to do a better job of communicating with those we serve," Kreuter says.

"There is a growing demand for tools and approaches and resources that can

help us do a better job in interacting with the public and with patients," he says.

Kreuter, who holds a secondary appointment with the School of Medicine, notes that this shift among health professionals is welcomed.

"There are still a lot of folks who think of communication and education as the pamphlet rack outside their waiting room," he says. "They don't think of communications as innovative or scientific or able to change how people think and act — but it can do all of those things."

Coming full circle

Kreuter always has worked in communications but not always in health. In fact, his first job after graduating with a bachelor's degree in English from the University of Utah was at Washington University's Office of Sports Information.

"For five months in 1986, I traveled around the Midwest on team buses covering the University's sports teams," he says.

"After that, I worked in media relations at another university and had some good success there, but I still felt like I wanted to have more social impact, and I didn't quite know how to do that," he says.

Kreuter found his direction while studying health behavior and education at the University of North Carolina at Chapel Hill.

"I was no longer promoting sports teams or university research; instead, I learned how to use the same tools to encourage healthy behaviors and social action," he says. "I've had a real love of the field since I entered it."

Academia called, and Kreuter served on the faculty of Saint Louis University before joining the Brown School in 2008.

"When I was 22, I certainly did not think I would be back here, and certainly not in this capacity," he laughs.

Rather than focusing on athletics, Kreuter now is an integral part of the University's public health initiatives. He currently serves as a member of the Faculty Advisory Council for the University's new Institute for Public Health.

"Being a part of public health at the University has been very

exciting, and I think the most impressive part of it, to me, has been the insistence of University leadership that public health be a campus-wide effort across disciplines," Kreuter says.

"One of the things that really appeals to me about the University's approach is that we're really viewing public health as not just a series of traditional public health disciplines but rather a series of problems that require many disciplines to address them effectively," he says. "It's a unique approach nationally, and it's going to prove to be a very effective approach."

Since joining the Brown School, Kreuter also has played a lead role in the development of the school's new master of public health degree.

"With his emphasis on impacting vulnerable populations and communities, Matt's work truly exemplifies the intersection of public health and social work," says Edward F. Lawlor, Ph.D., dean and the William E. Gordon Distinguished Professor.

"He has helped us create a public-health curriculum that exposes students to perspectives from a wide range of disciplines, including communications," Lawlor says.

Outside the 'U'

In his spare time, Kreuter enjoys the outdoors with his family, working in the yard, and hiking in Montana.

"I've retained my love of sports since leaving the sports information office, but I'm happy to leave the bus rides behind," he jokes.



The Kreuter family: (from left) Charlene; Cal, 4; Matthew; and Will, 2.

Matthew W. Kreuter

Title: Professor, George Warren Brown School of Social Work and School of Medicine

Education: B.A., English, University of Utah; M.P.H. and Ph.D., health behavior and health education, University of North Carolina at Chapel Hill

Family: Wife, Charlene; sons Cal, 4, and Will, 2

Favorite vacation spot: Montana