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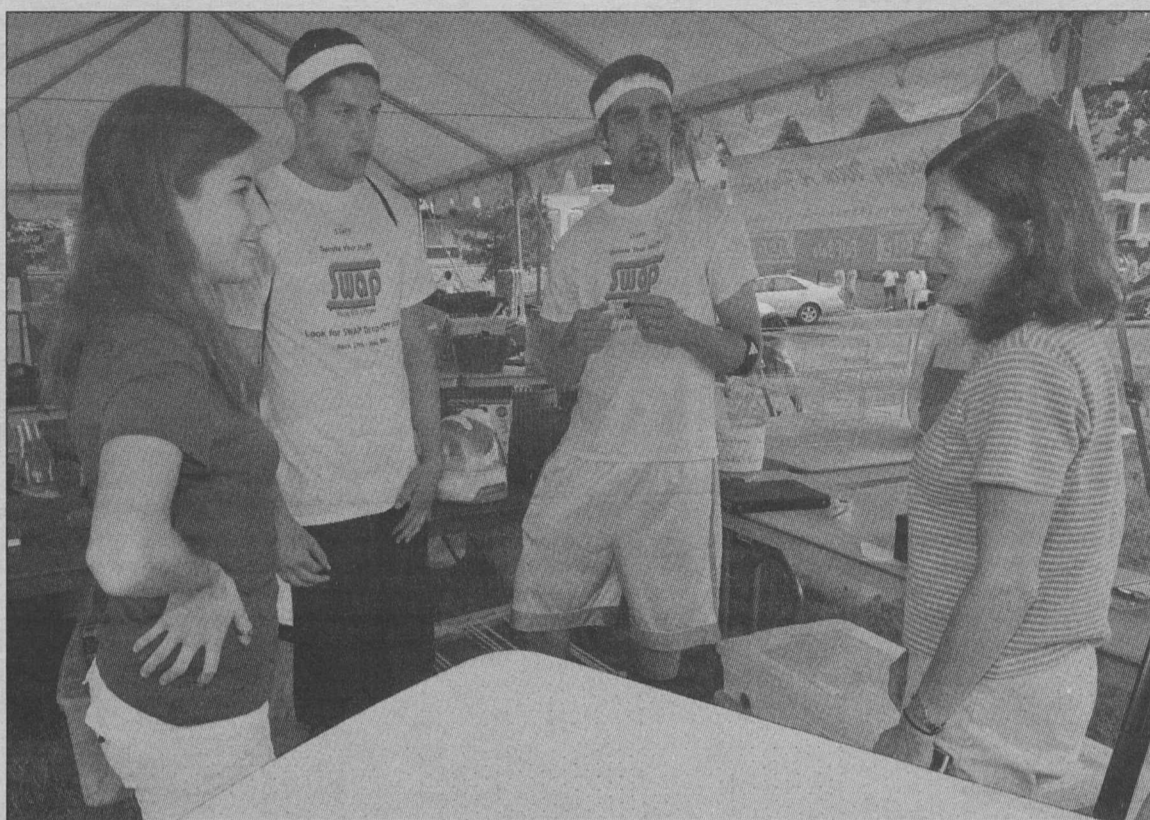
Record



Washington University in St. Louis

Sept. 24, 2009

record.wustl.edu



Nine student-run businesses operate on campus through the Student Entrepreneurial Program, including Sharing With A Purpose (SWAP), a nonprofit that provides used dormitory essentials. Here, SWAP employees Jeff Branz (second from left) and Michael Young help freshman Callan VanHemert (left) and her mother, Stacy Fox, pick out items for her room.

Students gain real-world business experience through StEP program

BY NEIL SCHOENHERR

Historically, the number of new, entrepreneurial ventures rises during periods of recession. If jobs aren't available in the traditional market, the argument goes, why not start your own company?

Thanks to a program on campus, WUSTL students are doing just that, creating, purchasing and selling on-campus businesses as undergraduate students. It's called the Student Entrepreneurial Program (StEP) and it helps uniquely position students to get hands-on experience as entrepreneurs while they still are in school.

The experience of running an actual business gives students a huge advantage when they graduate — years ahead of fledgling entrepreneurs taking their first steps.

"The students see this as an experience that will carry them forward, whether or not they are working in business after graduation," said Mary Zabriskie, coordinator for special projects in Campus Life and chair of the StEP advisory board.

While there are more than 700 entrepreneurship programs in the United States, only a handful of universities offer students the ability to operate businesses with allocated, subsidized storefront locations. Students not only learn valuable business and

entrepreneurial skills in the classroom, but they also learn and gain valuable experience managing their own businesses.

StEP was formed in 1999 to promote and support the entrepreneurial interests of all undergraduate students, not just those enrolled in Olin Business School.

To open a new business, students must present a business plan. Students interested in purchasing an existing StEP business are required to attend a "Buying a Business" workshop, taught by Clifford Hokekamp, senior lecturer in entrepreneurship at Olin and a member of the StEP advisory board. A workshop on selling a business will start this year.

Business owners must be full-time undergraduate students. They must sell their businesses to new owners before they graduate.

Currently, nine student-run businesses operate on the Danforth Campus, seven of which have storefronts in the main level of Gregg House in the South 40. Businesses include a bicycle rental shop, a store for Greek goods and custom apparel, water cooler rental and monthly water delivery, and a laundry service, among others. University Trucking/Res Fridge, the oldest business, has been in operation since 1977.

Sophomore Atima Lui, an Olin student, helped

See **Businesses**, Page 5

Fat in liver, not belly, a better marker for disease risk

BY JIM DRYDEN

New findings from School of Medicine nutrition researchers suggest that it's not whether body fat is stored in the belly that affects metabolic risk factors for diabetes, high blood triglycerides and cardiovascular disease, but whether it collects in the liver.

Having too much liver fat is known as nonalcoholic fatty liver disease. The researchers reported online in the journal PNAS Early Edition that when fat collects in the liver, people experience serious metabolic problems such as insulin resistance. They also have increases in production of fat particles in the liver that are secreted into the bloodstream and increase the level of triglycerides.

For years, scientists have noted that where individuals carried body fat influences their metabolic and cardiovascular risk. Increased fat inside the belly, known as visceral fat, is associated with an increased risk of diabetes and heart disease.

"Data from a large number of studies shows that visceral fat is

associated with metabolic risk, which has led to the belief that visceral fat might even cause metabolic dysfunction," said senior investigator Samuel Klein, M.D., the Danforth Professor of Medicine and Nutritional Science. "However, visceral fat tracks closely with liver fat. We have found that excess fat in the liver, not visceral fat, is a key marker of metabolic dysfunction. Visceral fat might simply be an innocent bystander that is associated with liver fat."

Klein directs the Division of Geriatrics and Nutritional Science, the Center for Applied Research Studies and the University's Center for Human Nutrition. He said most of our body fat is located under our skin. About 10 percent is inside the belly, while much smaller amounts are inside organs such as the liver and muscle.

This study compared obese people with elevated and normal amounts of liver fat. Through careful evaluations of obese people with different amounts of visceral fat or liver fat, Klein's team determined that excess fat inside the

See **Liver**, Page 2

Historical paths that crossed through Japanese camps converge again at WUSTL

BY LIAM OTTEN

In the 1930s, the photographer Ansel Adams struck up a friendship with California painter Chiura Obata. Yet the arrival of World War II would set these two celebrated artists on radically divergent paths — paths that would, in different ways, lead both to the now-infamous "war relocation centers" at which the U.S. government forcibly interred approximately 120,000 Japanese-Americans in the 1940s.

Soon, that path will converge again at Washington University when their sons, Michael Adams, M.D., and Gyo Obata, explore the impact of internment on their

families in a public dialogue at the Mildred Lane Kemper Art Museum.

Held in conjunction with the exhibit "A Challenge to Democracy: Ethnic Profiling of Japanese Americans During World War II," the talk begins at 6 p.m. Oct. 2 in Steinberg Hall Auditorium. A reception will immediately follow.

"The first-person accounts of Michael and Gyo — along with those Japanese-Americans who were interned in the camps that we will hear from later in the semester — bring to life this tumultuous period in American history," said Ira J. Kodner, M.D., director of the Center for the Study of Ethics &

See **Paths**, Page 6

Chancellor outlines financial picture; remains confident about progress

To the Washington University community:

I write to follow up on my last communication regarding the University's finances dated April 14, 2009.

First, a brief update on our new academic year. We have recruited outstanding entering students, and we have welcomed a very talented group of new faculty. Brauer Hall for engineering on the Danforth Campus will be complete before the end of this academic year, and the new BJC Institute of Health on the Medical Campus will be finished by the end of this calendar year.

Programmatic initiatives developed through the Plan for

Excellence effort are being implemented as resources become available. With new support from major corporations, we have launched an international research program to address environmental concerns from use of coal.

Also, the first master of public health degree candidates are now enrolled in the George Warren Brown School of Social Work. Thus, the University remains committed to many important initiatives that build on our strength as one of the world's leading universities. Unfortunately, the financial challenges as set out in my earlier communication persist, and financial and programmatic planning has been

initiated over the summer to address an annual shortfall of about \$30 million per year for central administrative functions and Danforth Campus schools for Fiscal Year (FY) 2011 and beyond.

While a \$30 million annual shortfall is significant, other research universities — public and private — are coping with even larger financial problems. One source of our financial problems is the loss of the value of our endowment. As of June 30, 2009, the market value of our endowment, about \$4.2 billion, is down by 30 percent from its peak value of two years ago.

This downturn is very significant and has resulted in a decrease

in endowment payout of \$9 million. We anticipate additional years of lowered payout and are planning for another \$9 million decrease in FY11. The result is that in FY11, payout will be down by \$18 million compared with FY09.

The Danforth Campus schools and the Central Fiscal Unit, with total operating revenue last year of about \$600 million, are more adversely affected by the endowment downturn than the School of Medicine. The endowment in the last fiscal year provided about 20 percent of the revenue for the Danforth Campus vs. about 5 percent for the School of Medicine.

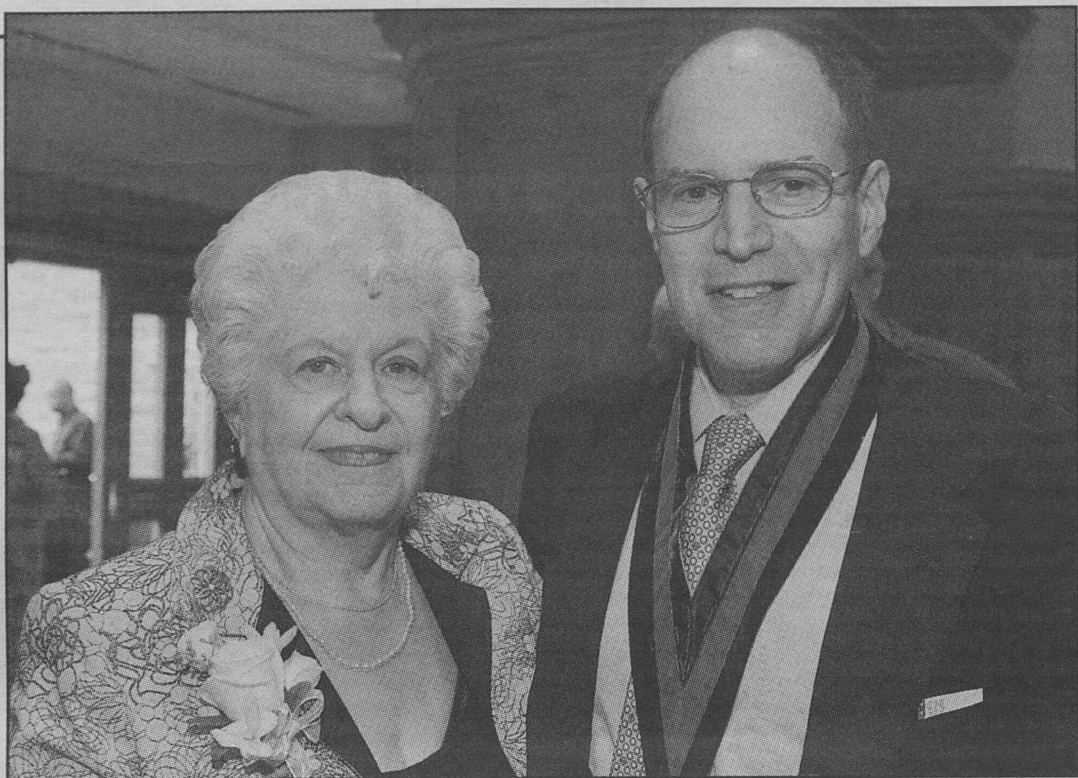
While the School of Medicine

does not face acute financial challenges at this time, uncertainty in clinical and research revenue causes us to be conservative and to prepare for a potential downturn.

Federal "stimulus" funding, in response to a large number of outstanding proposals, for this year and next already totals at least \$34 million, and we anticipate additional research support from this program. Our success in this arena stems from the excellence of our faculty and research staff. The clinical faculty also has excelled, and clinical revenue is strong.

Our teaching hospitals, Barnes Jewish Hospital and St. Louis Children's Hospital, have done

See **Finances**, Page 2



The art of education Gary S. Wihl, Ph.D. (right), dean of the faculty of Arts & Sciences, meets with Phyllis Goldberg, niece of the late Hortense and Tobias Lewin, after the Sept. 16 ceremony in which he was installed as the Hortense and Tobias Lewin Distinguished Professor in the Humanities. His installation address focused on "The Art of Education" and one of his priorities as dean: preserving "the elements of delight in higher education." In his address, he went on to explain, "by which I mean that aspect of higher education that produces delight, pleasure and curiosity. Conversation is an excellent metaphor for education that produces delight. Can you master a very difficult subject, write important papers and articles, attend lectures and conferences, and find delight, humor, pleasure? Emphatically, yes. As educators and custodians of vast stores of knowledge, we need to share more of that delight with our students, our peers and the public."

Liver

— from Page 1

liver identifies those individuals who are at risk for metabolic problems.

"We don't know exactly why some fats, particularly triglycerides, will accumulate inside the liver and muscle in some people but not in others," said first author Elisa Fabbrini, M.D., Ph.D., assistant professor of medicine. "But our data suggest that a protein called CD36, which controls the

transport of fatty acids from the bloodstream into different tissues, is involved."

The researchers found that CD36 levels were lower in fat tissue and higher in muscle tissue among people with elevated liver fat. Changes in CD36 activity could be responsible for diverting circulating fatty acids away from fat tissue and into liver and muscle tissue, where they are converted to triglyceride, researchers said. Increased tissue uptake of fatty acids could be responsible for metabolic dysfunction.

Klein said those who are obese

but don't have high levels of fat in the liver should be encouraged to lose weight, but those with elevated liver fat are at particularly high risk for heart disease and diabetes. He said they need to be treated aggressively to help them lose weight because dropping pounds can make a big difference.

"Fatty liver disease is completely reversible," Klein said. "If you lose a small amount of weight, you can markedly reduce the fat content in your liver. In fact, even two days of calorie restriction can cause a large reduction in liver fat and improvement in liver insulin sensitivity."

Finances

WUSTL has 'underlying financial strength'

— from Page 1

well, too, bringing additional financial resources to the School of Medicine according to the partnership agreement we have with them. But the "stimulus" is only a two-year program. Further, continuing high unemployment and the associated loss of health insurance benefits likely will erode clinical revenue. Therefore, we must plan for a more financially constrained environment in medicine, too.

Despite our financial challenges, we remain committed to supporting our core mission. We have set a priority to meet the financial aid needs of continuing students to enable them to complete their degree programs at WUSTL.

In the past few years, we have added 20 percent to our financial aid budget for undergraduates. Further, we responded to new financial aid requests from students returning this fall with an additional \$2.3 million for the financial aid budget.

To address the critical and growing need for financial aid resources, the Board of Trustees approved a special effort to secure additional scholarship support: "Opening Doors to the Future: The Scholarship Initiative for Washington University." The goal is to secure additional commitments of at least \$150 million by June 30, 2014.

What has been done so far, and what lies ahead in connection with reducing expenses and planning for an era of slower revenue growth?

As most are aware, salaries were constrained very substantially for the fiscal year that started July 1. This constraint has avoided annual expenditures of at least \$20 million. We have also lowered non-compensation administrative expenses for this year in the Central Fiscal Unit, saving another \$3 million annually.

Even with these avoided annual expenditures, we must reduce spending by another \$30 million annually beginning July 1, 2010. Plans that reduce recurring and capital costs will involve administrative and academic functions as well as building projects.

We already have slowed faculty recruiting, and hiring of administrative staff, generally, has been tightly controlled. Danforth Campus libraries in mathematics and biology have been closed, with holdings consolidated in the Olin Library. In the face of increased health insurance costs, health-care benefits have been altered to avoid University expenses of about \$4.5 million annually, but the University will still support about 80 percent of the total health-care insurance premiums of its employees.

A third phase of the renewal of residential facilities on the South 40, as well as the renovation of Mallinckrodt Center, has been postponed. We are striving to reduce energy consumption and continue to seek suggestions regarding how to become more efficient in our work. I am appreciative of the more than 100 individual suggestions for cost savings measures that have been sent to me since April, and many of these are being considered for implementation. Please continue to provide input and suggestions, as your help will be valued.

Looking ahead to the next

several months, our financial and program planning will be intense, but thorough, as we close the \$30 million annual gap for the Danforth Campus.

Central administrative areas and the six schools on the Danforth Campus all will be affected in closing this gap. There will be some opportunities to secure additional revenue through growth in degree programs and through philanthropic support. However, the sobering fact is that we must reset our spending to a lower level in the schools and in central administrative areas, and we also need to prepare for an era of slower growth in revenue.

We will review the overall scope and scale of all that we are doing. Decisions from our review will be made before the end of the calendar year and will be announced early in 2010 to prepare a final program and financial plan for FY11 and beyond.

The review and planning is being led by Edward S. Macias, Ph.D., provost, executive vice chancellor for academic affairs and the Barbara and David Thomas Distinguished Professor in Arts & Sciences, and Henry S. Webber, executive vice chancellor for administration. They will be working closely with David T. Blasingame, executive vice chancellor for alumni & development programs; Michael R. Cannon, J.D., executive vice chancellor and general counsel; Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; and with Barbara A. Feiner, vice chancellor for finance and chief financial officer; and Ann B. Prenatt, vice chancellor for human resources.

School deans will be working with their faculty and with the provost to plan for the individual

Nanotechnology symposium showcases new facility

A two-day nanotechnology symposium will be held Thursday and Friday, Sept. 24 and 25, in the Whitaker Hall auditorium to highlight the opening of Washington University's nano research center.

WUSTL invested \$8 million in the Nano Research Facility and the Center for Materials Innovation after it was invited to join the National Science Foundation's 14-member nanotechnology network, said Dong Qin, Ph.D., associate dean for research in the School of Engineering & Applied Science and research associate professor.

The facility, which Qin calls a "machine shop" for nanotechnologists, brings together the instruments needed to engineer, manipulate and manufacture materials at the nanoscale (in billionths of a meter). It is an open facility available to both academic and corporate scientists that seek to foster interdisciplinary research in the energy, environment and biomedical fields.

Chancellor Mark S. Wrighton and Lawrence S. Goldberg, Ph.D., a WUSTL alumnus and a senior engineering adviser at the National Science Foundation, will welcome participants to the 1st Symposium on Nanotechnology for Public Health, Environment, and Energy. George M. Whitesides, Ph.D., the Woodford L. and Ann A. Flowers University Professor at Harvard University, will deliver the keynote address.

The symposium will focus on the practical issues arising as nanomaterials begin to leave the lab and enter consumer products. An initial session will address cost-effective means of making nanoparticles that exploit the ability of atoms to assemble themselves into useful structures, such as miniature cubes of silver or

tiny cages of gold.

Given the recent discovery that nanoparticles can infiltrate cells, particular attention will be paid to developing toxicological tests that eventually will provide the information for the material safety data sheets that are required for all materials in commercial use. "The facility is committed to make every reasonable effort to anticipate and mitigate adverse effects and unintended consequences (of the new technology)," Qin said.

The new facility comprises four labs — a micro and nano-fabrication lab, a surface characterization lab, a particle technology lab and a bio-imaging lab — located in the Earth & Planetary Sciences Building and Whitaker Hall.

The fabrication lab includes Class 100, Class 1,000 and Class 10,000 clean rooms — the class referring to the level of contamination permitted in the room. A class 100 clean room, for example, may have only 100 particles greater than 0.5 micrometers in size per cubic foot of air. Ordinary room air is approximately class 1 million, nearly a hundred thousand times dirtier.

Among the latest equipment acquisitions is NanoMan, an advanced scanning probe microscope precise enough to move atoms around one by one. The facility offers training sessions on its instruments and is available to both academic and industrial users.

An open house and poster session will be held on the lower level of the Earth & Planetary Sciences Building at 5 p.m. Sept. 24. Visitors will be able to see nanomaterials made in the facility, tour the labs and watch streaming video from the labs in Whitaker Hall.

For more information, visit nano.wustl.edu/symposium.aspx or call 935-8893.

schools. All of our schools will be affected because most of the payout from the endowment directly supports the schools and their programs. Accordingly, I have asked the school deans to work with their faculty to plan for less revenue and for slower growth in the years ahead.

Changes in scope, scale and expenditures will not be uniform across all areas. However, in every area, we will be tightly managing expenses while working to achieve our goals for the University.

While we face an era of constraint in the short term and slower growth in the future, Washington University has

underlying financial strength and talented, creative and dedicated faculty, students and staff. We have exciting aspirations for the future, and I remain confident about the continuing progress of the University as we strive to strengthen our quality and impact.

Thank you in advance for your support and understanding as we move through this era.

Sincerely yours,

Mark S. Wrighton

Mark S. Wrighton

Record

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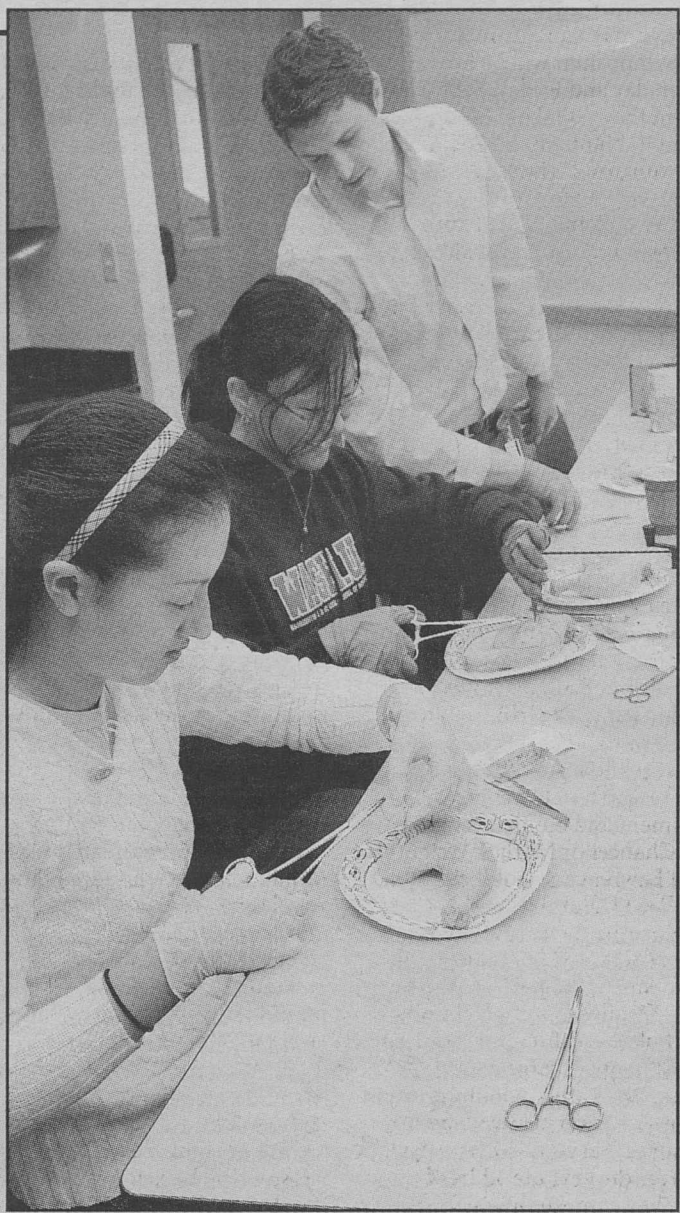
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Washington University in St. Louis

School of Medicine Update



A stitch in time Jon Mitchem, M.D. (standing), a second-year general surgery resident, teaches first-year medical students (from left) Betsy Wan and Stacy Dai how to suture on chicken pieces. The students are members of the medical school's Surgery Interest Group.

Dementia induced and blocked in Parkinson's fruit fly model

By MICHAEL C. PURDY

Parkinson's disease is well known for impairing movement and causing tremors, but many patients also develop other serious problems, including sleep disturbances and dementia.

For the first time, School of Medicine researchers have modeled Parkinson's-associated dementia. They have shown that a single night of sleep loss in genetically altered fruit flies caused long-lasting disruptions in the flies' cognitive abilities comparable to aspects of Parkinson's-associated dementia. Then they blocked this effect by feeding the flies large doses of the spice curcumin, a derivative of the spice turmeric.

Author James Galvin, M.D., associate professor of neurology, of psychiatry and of neurobiology, and senior author Paul Shaw, Ph.D., assistant professor of neurobiology, published their results in a recent issue of the journal *Sleep*.

Galvin is an expert in cognitive impairments in human Parkinson's disease, and Shaw studies sleep and the brain in fruit flies. The researchers collaborated based partly on evidence showing that increased sleep loss in Parkinson's patients can precede or coincide with increased severity in other Parkinsonian symptoms.

More than 74 percent of Parkinson's patients have trouble sleeping, and up to 80 percent of patients over 65 who have Parkinson's disease for seven years will develop dementia, Galvin said.

Shaw's lab has linked sleep loss to changes in the dopaminergic system of the brain, which

produces the neurotransmitter dopamine and is at the center of the damage Parkinson's causes.

"In healthy flies, sleep deprivation decreases dopamine receptor production and causes temporary learning impairments that are fully restored after a two-hour nap," Shaw said.

Shaw and Galvin studied fruit flies genetically modified to make a human protein called alpha-synuclein in their brains. Scientists have shown that it

aggregates in the brains of Parkinson's disease patients and say the processes that cause the aggregations are harming dopamine-producing cells.

Tests showed that flies with alpha-synuclein in their brains could still learn when they were middle aged.

But when deprived of sleep for 12 hours, their ability to remember was more severely impaired than young, healthy, sleep-deprived flies.

Galvin had earlier found that curcumin blocks alpha-synuclein aggregation in cell models of Parkinson's disease. Based on this, researchers fed curcumin to a new batch of flies, repeated the tests and found middle-aged flies with alpha-synuclein retained their ability to learn as well as normal young flies.

"Thanks to this model our labs have created, Dr. Galvin and I can not only quickly test potential new treatments for these symptoms of Parkinson's, we can also move up our treatments in terms of the timeline along which the disorder develops," Shaw said.

"That may give us a real chance to change the course of the disease," he said.



Galvin

Seasonal flu shots begin Sept. 29 for School of Medicine employees

By BETH MILLER

The School of Medicine will offer free seasonal flu and H1N1 vaccines to its faculty, staff and students around its campuses this fall.

Seasonal flu shots will begin Tuesday, Sept. 29, and continue through Oct. 28. The University will provide additional details about H1N1 vaccination schedules for medical center patients and personnel in the coming weeks.

The seasonal flu vaccine protects against the three main flu strains that research indicates will cause the most illness during the flu season — it is not expected to protect against the H1N1 flu.

Anyone who wants to reduce the chances of getting the seasonal flu can get vaccinated. The Centers for Disease Control and Prevention (CDC) has recommended since 1984 that health-care workers be vaccinated annually.

James P. Crane, M.D., associate vice chancellor for clinical affairs and chief executive officer of the Faculty Practice Plan, said vaccination is sound medical policy.

"It protects the health of our employees and their families and also protects our patients from becoming severely ill," Crane said. "This is particularly important when caring for older adults who are at higher risk for dying from seasonal influenza. Seniors account for 30 percent to 40 percent of the patients we treat and are best protected when those working in a health-care setting are immunized, thus creating a defensive shield around them."

Karen Winters, M.D., assistant professor of medicine and director of the Student and Employee Health Service at the medical school, said she anticipates that the supply of seasonal flu vaccine should be adequate.

"We strongly encourage everyone to get vaccinated for their protection and others," she said.

Washington University reported its first case of H1N1 influenza on the Danforth Campus Sept. 8, with several more cases reported in the following days.

The H1N1 flu vaccine has been approved and should be ready for release in October. H1N1 vaccine production will not meet the demand for the general population initially, so H1N1 vaccinations will be given on a priority basis to people identified to be at highest risk. Distribution of the H1N1 vaccine will be implemented through departments of health at the direction of the U.S. government.

School of Medicine infectious disease experts are working with local health departments to understand and develop plans for H1N1 vaccination that will target specific population groups. Based on H1N1 patterns that have emerged worldwide, the vaccine is expected to be made available initially to high-priority groups including:

- pregnant women;
- persons who live with or provide care for children under 6 months of age, such as parents, siblings and day-care providers;
- health-care and emergency medical services personnel who have direct contact with patients or infectious materials;

Michalski named vice chair of radiation oncology, director of clinical programs

By GWEN ERICSON

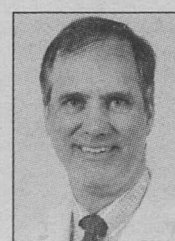
Jeff M. Michalski, M.D., professor of radiation oncology, has been named vice chair and director of clinical programs of the Department of Radiation Oncology.

Dennis E. Hallahan, M.D., the Elizabeth H. and James S. McDonnell III Distinguished Professor and head of the Department of Radiation Oncology and a member of the Mallinckrodt Institute of Radiology, announced Michalski's appointment. The department also is affiliated with the Siteman Cancer Center.

"Dr. Michalski is a consummate physician-scientist — he excels as a clinician, teacher and investigator," Hallahan said. "As interim head of the department, he proved his exceptional leadership capability and dedication. We are fortunate to have someone of his quality for this new position."

Michalski will oversee the

clinical division of the department, which includes clinical operations at all treatment facilities; clinical and translational research; and physician resident, fellow and medical student training and education. He will also oversee the Brachytherapy Center, the Proton Therapy Center, the Gamma Knife Center and community and off-campus programs.



Michalski

"It allows me to focus my energy on the elements of our program that I enjoy and in which I have significant experience and skill. In particular, I look forward to working with our physicians, medical physicists and administration to

grow our clinical activities while maintaining the highest quality of care. I also look forward to growing our interdisciplinary research portfolio with our colleagues in the Mallinckrodt Institute of Radiology."

The Department of Radiation Oncology is a component of the Mallinckrodt Institute of Radiology. Michalski was the department's interim head from 2008-09. He specializes in genitourinary and pediatric oncology.

He also conducts clinical research on the use of radiation therapy for the treatment of prostate and other cancers. In recent years, he also led efforts to adopt two new technologies that increase radiation treatment accuracy to better eradicate tumors and avoid injury to nearby tissues.

Michalski joined the School of Medicine faculty as instructor of radiology in 1991 and was named professor of radiation oncology in 2006.

School of Medicine seasonal flu vaccine schedule

The following locations offer School of Medicine employees a free seasonal flu vaccination. Employees and students must have their badge to obtain the vaccination and be prepared to supply their employee ID number on the consent form.

Sept. 29, 6:30 a.m.-3 p.m., First floor Center for Advanced Medicine (CAM), Barnard Cancer Information Center (only clinical faculty and staff)

Sept. 30, 6:45 a.m.-3 p.m., Northwest Tower, 10th floor, Conference Room 10A

Oct. 6, 7 a.m.-3 p.m., Third floor CAM, Farrell Conference Room 1

Oct. 7, 7 a.m.-3 p.m., Third floor CAM, Farrell Conference Room 1

Oct. 12, noon-3:30 p.m., Barnes-Jewish West County Hospital, MOB No. 3, 2nd floor kitchen

Oct. 13, 7 a.m.-12:30 p.m., First floor CAM, Barnard Cancer Information Center

Oct. 14, 6:45 a.m.-3 p.m., Northwest Tower, 10th floor, Conference Room 10A

Oct. 15, 8-11:30 a.m., Barnes-Jewish West County Hospital, MOB No. 1, Basement, Room G-06

Oct. 16, 7 a.m.-12:30 p.m., First floor CAM, Barnard Cancer Information Center

Oct. 19, 1 p.m.-3:30 p.m., 4444 Forest Park, Second floor, Room E210

Oct. 22, 1-2 p.m., Cortex Building Lobby

Oct. 28, 7:30 a.m.-2 p.m., Health Happening Wellness Fair, McDonnell Pediatrics Research Building Atrium

- children ages 6 months to 4 years;
- children and adolescents ages 5-18 who have medical conditions that put them at higher risk for influenza-related complications, such as asthma, diabetes or suppressed immune systems.

In addition to vaccination, other ways to prevent the flu are getting proper rest, nutrition and exercise; regularly washing hands with soap and water, especially after coughing or sneezing, or using alcohol-based hand sanitizers; covering the mouth or nose with a tissue when sneezing or coughing; coughing or sneezing into the elbow or upper arm; and avoiding touching the eyes, nose and mouth.

It is important for all people who are sick with flu-like symptoms to stay home and recover — this will help to reduce the spread of infection.

Those with suspected or confirmed flu should not return to class or work until they have been free of fever for 24 hours without the aid of fever-reducing medications. Symptoms usually last about seven days.

For more information, visit wustl.edu/flu.

University Events

Dorfman influenced study abroad dance program founder

By LIAM OTTEN

In 1994, dancer Liz Claire, Ph.D., then a junior in the Performing Arts Department (PAD) in Arts & Sciences, won the Bemis Summer Travel Scholarship. The award allowed her to travel to Paris as an intern with David Dorfman Dance, the internationally acclaimed company founded some years before by alumnus David Dorfman.

"I saw David perform several solos, touching on issues of masculinity, Jewish identity, personal faith, human cruelty, human vulnerability, fear and love," Claire said. "I was transformed by those performances."

After graduating in 1995, Claire moved to New York City and continued studying with Dorfman. She also began performing with Pearson Widrig Dance Theater and earned both a master's degree and doctorate in performance studies from New York University.

Today, both Claire and Dorfman, in different ways, continue to make their marks on Washington University.

This weekend, David Dorfman Dance will present "underground," an ambitious evening-length multimedia piece loosely inspired by the Weather Underground, as part of the Edison Theatre OVATIONS Series.

Meanwhile, Claire is founder and director of MADE (Movement Arts & Design in Europe) in France, an immersive summer study abroad program that is



Lauren Talamo (BA '09) works in the Melisey costume studios of MADE in France, a new PAD summer program founded by alumna Liz Claire.

sponsored by the PAD with additional support from Connecticut College, where Dorfman teaches.

Like the PAD's popular Shakespeare's Summer Globe Program, the six-credit course — which recently completed its second year — combines intensive performance training with careful study of history and culture.

"MADE in France offers a hands-on historical survey of European art, dance and costume design," said Claire, who also teaches dance history at the Ecole

des Hautes Etudes en Sciences Sociales in Paris. "Our hope is that students will learn how to move from research in performance history to creative praxis, articulating, rendering and transforming their ideas into concrete inventions."

"We also want students to acquire life skills: about travel and living in a foreign country; about cultural and artistic exchange; about cooperation with peers; about representing their heritage as cultural ambassadors; about

expanding their own creativity; and about how to make decisions in complex and unfamiliar situations," Claire said.

The 2009 studio began last May, when 18 students from across the United States gathered in Paris for two weeks of field research. Led by Claire and designer Bonnie Kruger, senior lecturer and costume director in the PAD, participants attended performances and visited museums and other cultural institutions, including backstage tours of the Paris Opera's Ecole de danse and set and costume design facilities at the Bastille.

"We introduce students to the notion of dramaturgical research for the movement arts," Claire said, which in turn helps strengthen critical and analytic skills.

"We teach basic principles of design and construction for the stage, and we provide the opportunity for students to deepen their own practice in choreography, design and performance," she said.

Following its Paris stay, the class traveled to the rural town of Melisey in the Burgundy region of France for a series of workshops and master classes exploring the ways choreography and visual design combine to form "a total theatrical experience," Claire said.

Faculty consisted of both dancers and designers, including Dorfman and Kruger (who will attend every other year, alternating with the PAD's David Marchant, senior lecturer in dance). Other faculty included Lisa Race, assistant professor of dance at

Connecticut College, and set designer Henri Ogier, who recently worked on Dorfman's "Disavowal," an interactive dance/performance inspired by the abolitionist John Brown.

"It is important for dance students to have training in the visual arts because dance is not only a kinetic form of expression," Claire said, adding that in France, cooperation between visual artists and choreographers dates to the 19th century.

"Questions about line, shape, color, texture, contrast, depth, light, sound, time and movement — the building blocks of visual art and design — also are questions for the choreographer," she said. "Students too rarely have the time to explore these questions in both the static and the live dimensions. In our program, the collaboration between designers and dancers aims for such depth in the research."

"Ultimately, the performing arts are collaborative. MADE in France, inspired by the French tradition, puts this collaboration between the visual and movement arts at the core of the learning process," Claire said.

For more information about the study abroad program, visit made-in-france.us or padarts.wustl.edu.

"underground" will be performed at 8 p.m. Friday and Saturday, Sept. 25 and 26, at Edison Theatre. For more information, call the box office at 935-6543 or visit edisontheatre.wustl.edu.

Princess Mononoka • Brain Function • The Art of India

"University Events" lists a portion of the activities taking place Sept. 24-Oct. 7 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (news-info.wustl.edu/calendars) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

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

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

"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.

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

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

Film

Thursday, Oct. 1

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

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

Lectures

Thursday, Sept. 24

8:30 a.m.-7 p.m. Energy, Environmental & Chemical Engineering Seminar Series. "1st Symposium on Nanotechnology for Public Health, Environment, and Energy." (Continues 8:30 a.m.-5 p.m. Sept. 25.) Whitaker Hall Aud. 935-8893.

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. McMillan 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. Clifton 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.

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. "Microalgal Biofuels — Big Potential, Big Challenges." Kenneth F. Reardon, prof. of chemical engineering, Colo. State U. Lopata Hall, Rm. 101. 935-5548.

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.

How to submit 'University Events'

Submit "University Events" items to Angela Hall of the Record staff via:

e-mail — recordcalendar@wustl.edu

campus mail — Campus Box 1070

fax — 935-4259

Upon request, forms for submitting events will be e-mailed, mailed or faxed to departments to be filled out and returned.

Deadline for submissions is noon the Thursday prior to publication date.

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. "The 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.

4 p.m. Energy, Environmental & Chemical Engineering Seminar Series. "Micro-Granular Adsorptive Membrane Filtration: A Whole New World of Treatment Technologies?" Mark Benjamin, lecturer, Assoc. of Environmental Engineering & Science Professors. (Reception follows.) Danforth University Center, Rm. 276. 935-5548.

Thursday, Oct. 1

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

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

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

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

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

Friday, Oct. 2

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

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

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

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

Noon. Cell Biology & Physiology Lecture. "Huntington Disease: ROCK, Profilin, Aggregation ... and Cancer?" Marc Diamond, assoc. prof. of neurology.

McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

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

Saturday, Oct. 3

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

Sunday, Oct. 4

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

Monday, Oct. 5

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

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

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

Tuesday, Oct. 6

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

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

Student playwrights take center stage at Hotchner festival

Four aspiring playwrights will present staged readings of their works Friday and Saturday, Sept. 25 and 26, as part of the 2009 A.E. Hotchner Playwriting Festival, sponsored by the Performing Arts Department (PAD) in Arts & Sciences.

Named in honor of alumnus A.E. Hotchner, the festival consists of an intensive two-week workshop culminating in the staged readings.

This year's workshop is led by Liz Engelman, a former president and current board chair of Literary Managers and Dramaturgs of the Americas (LMDA).

The readings begin at 7 p.m. Sept. 25 with a pair of one-act plays. "Razor Love," by Max Rissman, follows Perry, a young man juggling musical aspirations, a new infatuation and responsibilities to his failing mother.

"Steps," by Margaret Stamell, centers on Aubrey, who sets out — with wit and very rickety morals — to solve the problem of an abusive stepfather.

The festival will continue at

7 p.m. Sept. 26 with Jonathan Baudé's "Match or Kasparov Never Played Black." This short work focuses on Garrett and Tanya, a pair of smart, funny chess players whose strategies collide when it comes to personal matters.

Next up will be the festival's final work, "What Will You Tell Your Children?" It is a full-length play by Jessica Atkin and tells the story of a writer who survived the anti-Semitism in her own youth, only to relive it — along with a ghost from the past — through her son's experiences at school.

Hotchner, an acclaimed novelist, playwright and biographer, is perhaps best known for his memoirs "Papa Hemingway," about his close friendship with Ernest Hemingway; and "King of the Hill," about growing up in Depression-era St. Louis. (The latter was adapted to film by Steven Soderbergh in 1993.)

As a student, Hotchner participated in a similar playwriting competition led by then-professor William Carson, famously

placing ahead of classmate Tennessee Williams.

Engelman, a freelance dramaturg living in Minneapolis, currently serves as chair of the LMDA board and as a member of the advisory Board of the National New Play Network.

She previously served as the literary director of the McCarter Theatre; director of new play development at ACT Theatre in Seattle; literary manager/dramaturg at Seattle's Intiman Theatre; and as assistant literary manager at Actors Theatre of Louisville.

She also has worked on the development of new plays at The Playwrights' Center in Minneapolis, Bay Area Playwrights Festival, ASK Theatre Projects, New York Theatre Workshop, the O'Neill Playwrights Conference, Denver Center, Florida Stage and South Coast Rep.

All readings are free and open to the public and take place in the A.E. Hotchner Studio Theatre. For more information, call 935-5858 or visit ascc.artsci.wustl.edu/~pad/.

Work, Families and Public Policy series continues Oct. 5

By JESSICA MARTIN

Faculty and graduate students from St. Louis-area universities with an interest in labor, households, health care, law and social welfare are being invited to take part in a series of Monday brown bag luncheon seminars to be held on campus biweekly through Nov. 30.

In its 14th year, the Work, Families and Public Policy series features one-hour presentations on research interests of faculty from local and national universities. The series is designed to promote interdisciplinary research.

Unless otherwise noted, presentations will be from noon-1 p.m. in Seigle Hall, Room 348.

The series began Sept. 21 with a lecture by Shelly Lundberg, Ph.D., the Castor Professor of Economics at the University of Washington, on "Personality and Marital Surplus."

The remaining presentations:

• **Oct. 5.** Laurence Kotlikoff, Ph.D., professor of economics at Boston University, will discuss

"Should Economists Start Practicing Economics?"

• **Oct. 19.** David Neumark, Ph.D., professor of economics at the University of California, Irvine, will speak about "Neighbors and Co-Workers: The Importance of Residential Labor Market Networks."

• **Nov. 2.** Robert A. Pollak, Ph.D., the Hernreich Distinguished Professor of Economics in Arts & Sciences and at Olin Business School, will discuss "The Proximity of Adult Children to their Parents: Description, Correlates, and Some Theory."

• **Nov. 16.** James Heckman, Ph.D., the Henry Schultz Distinguished Service Professor of Economics at the University of Chicago, will speak about "Understanding the Sources of and Solutions to Human Inequality." This talk will be held from noon-1 p.m. in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall.

• **Nov. 30.** Barton H. Hamilton, Ph.D., the Robert Brookings Smith Distinguished Professor of Entrepreneurship at Olin Business

School, will present on "AIDS and the Economics of Risky Behavior."

Pollak has been the lead organizer of the series for the past 13 years. Co-organizer is Michael W. Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development and director of the Center for Social Development in the George Warren Brown School of Social Work.

The series is sponsored by Olin Business School; the George Warren Brown School of Social Work and the Center for Social Development; the Center for Interdisciplinary Studies in the School of Law; the Department of Economics in Arts & Sciences; the Center for Health Policy; and the College of Arts & Sciences.

The classroom is courtesy of the Department of Economics.

For more information, contact Pollak at 935-4918 or at pollak@wustl.edu; Sherraden at 935-6691 or at sherrad@wustl.edu; or visit olin.wustl.edu/links and click on the "Academic Seminars" dropdown menu.

Law's Public Interest Law & Policy series begins with Matthew Coles

By JESSICA MARTIN

The School of Law's 12th annual Public Interest Law & Policy Speakers Series kicks off Wednesday, Sept. 30, with nationally prominent speaker Matthew Coles, director of the American Civil Liberties Union's Lesbian Gay Bisexual Transgender & AIDS Project in New York.

The yearlong series Access to Justice: The Social Responsibility of Lawyers brings to WUSTL prominent experts in such areas as racial justice, civil rights, international human rights, the economics of poverty, clinical legal education, public service and pro bono legal practice. The law school's Clinical Education Program sponsors the series.

Karen L. Tokarz, J.D., the Charles Nagel Professor of Public Interest Law & Public Service and director of the Alternative Dispute Resolution Program, coordinates the series in conjunction with Pauline Kim, J.D., associate dean for research and faculty development and professor of law, and Annette Appell, J.D., associate dean of clinical affairs and professor of law.

All lectures will be in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall and are free and open to the public.

The schedule:

• **4 p.m. Sept. 30.** Coles, a leader in the lesbian and gay civil rights movement, will speak on "The State of the LGBT Movement." He has assisted on many campaigns to pass gay rights laws, such as the nation's first domestic partnership law and the first domestic partnership law to allow couples to register their relationships.

He is the author of "Try This At Home!" It is a practical guide on how to pass nondiscrimination and domestic partnership laws.

Coles' lecture is co-sponsored by the Assembly Series,

the Office of Student Activities, Pride Alliance, OUTLAW, American Constitution Society and ACLU-Eastern Missouri Student Chapter. A reception will follow.

• **4 p.m. Oct. 8.** Kevin Johnson, J.D., dean of the University of California, Davis, School of Law and the Mabie-Apalla Public Interest Law Chair, will present "Opening the Floodgates: Why America Needs to Rethink Its Borders and Immigration Laws."

Johnson is one of the country's top experts on immigration, race and civil rights law. He is the author of "Opening the Floodgates: Why America Needs to Rethink Its Borders and Immigration Laws" and "How Did You Get to Be Mexican? A White/Brown Man's Search for Identity," nominated for the Robert F. Kennedy Book Award in 2000.

Johnson's lecture is co-sponsored by the Immigration Law Society and the Latin American Law Students Association. A book signing will precede the lecture.

• **Noon Nov. 11.** Jeff Giddings, professor at Griffith University in Queensland, Australia, will speak about "Advancing Justice in Australia through Alternative Dispute Resolution: From Indigenous Culture to Modern-Day Court Ordered Process."

Giddings also holds the title of convenor of the graduate program in dispute resolution at Griffith. He is an internationally recognized expert on conflict resolution and clinical education. This lecture is co-sponsored by the Alternative Dispute Resolution Program, the Whitney R. Harris World Law Institute and the International Law Students Association.

The series will continue in the spring with seven more lectures.

For more information, call Shelly Ford at 935-8598.

Businesses

Program gives students edge in tough job market — from Page 1

found Salon Four Zero last year when lack of a car made it difficult to get off campus to get her hair and nails done. The salon offers hair and skin care for people of all skin and hair types as well as sunless tanning services.

Lui said running the business allows her to apply the skills she learns in class and forces her to think creatively and critically, which she knows will be helpful when she leaves the University.

"Being involved with StEP gives owners a distinct advantage when entering the job market," Lui said. "Given the current economic downturn, when I graduate in three years, I know that the competition for jobs will be fierce. I see Salon Four Zero as one of the key ways that I can differentiate myself and my skills from my peers."

Senior Olin student Ross Kelley founded Sharing With A Purpose (SWAP) last year with five of his friends.

SWAP is WUSTL's first and only nonprofit student-run business. It aims to provide affordable and convenient dormitory essentials to students during fall move-in week. All items are slightly used and recycled from students during the previous year's move-out. All profits are donated to Lydia's House, a local nonprofit organiza-

"Students can read as many cases and listen to as many lectures as they want, but there are some things that a classroom just can't teach. Being an entrepreneur and running your own business is one of those things."

ROSS KELLEY

tion that helps victims of domestic abuse.

"Students can read as many cases and listen to as many lectures as they want, but there are some things that a classroom just can't teach," Kelley said. "Being an entrepreneur and running your own business is one of those things."

"Making your own decisions and bearing all the responsibility for a real business is a very unique and powerful experience," Kelley said. "It teaches accountability, resolve, competition, leadership and, of course, some humility. I think that the Student Entrepreneurial Program is an incredible opportunity."

Zabriskie said applications for new businesses always are welcome.

For more information, call 935-7199 or visit step.wustl.edu.

5 p.m. Women, Gender and Sexuality Studies Lecture and Panel Discussion. "A Legacy Ignored? Virginia Johnson and Sex Therapy at WU." Thomas Maier, author, and other panelists. McMillan Cafe. 935-5102.

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

Wednesday, Oct. 7

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

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

Music

Thursday, Sept. 24

8 p.m. Jazz at Holmes. Utter Chaos. Performing music of Gerry Mulligan. Ridgley Hall, Holmes Lounge. 862-0274.

Thursday, Oct. 1

8 p.m. Jazz at Holmes. Scott Alberici, clarinet, and his group. Performing music

of the swing era. Ridgley Hall, Holmes Lounge. 862-0274.

Sunday, Oct. 4

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

Wednesday, Oct. 7

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

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

Sports

Friday, Sept. 25

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

Green Your Office

Recycle only clean containers. Food and clean containers can affect the quality of recycled plastic by attracting vermin. Rinse containers used for food and drink, or at a minimum, empty liquids and use a napkin to wipe visible food residue.

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

Saturday, Oct. 3

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

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

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. 935-5858.

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.

Friday, Oct. 2

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

Saturday, Oct. 3

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

Class of 2013 settles into life on WUSTL campus

By JESSICA DAUES

Since arriving on campus in August, first-year students have participated in service projects, joined student organizations and forayed into academic studies.

In all, the Class of 2013 has embraced the opportunity to become active members of the Washington University community, said Eric Ajieren, a first-year student from Houston.

"I've seen so many of us going out to explore new things, to try things that we think sound interesting, and to meet new people," said Ajieren, who plans to double-major in computer science in the School of Engineering and Spanish in Arts & Sciences.

"I'm really looking forward to exploring even more of what the campus has to offer," he said.

The approximately 1,500 members of the freshman class were selected from more than 23,000 applicants, and approximately half are female and half male.

Nearly all the freshmen graduated in the top 10 percent of their

high-school class, and more than 60 percent traveled at least 500 miles from their hometowns to WUSTL.

"It's great to welcome these incredibly talented students to campus after working with them through the admissions process," said Julie Shimabukuro, director of admissions.

"Many of our admissions officers attended convocation, and we were impressed by the energy and enthusiasm these freshmen have for the University," Shimabukuro said. "It was really fun to see, and they will make great contributions to our community."

Ajieren, who also plans to minor in creative writing, said others in the WUSTL community — especially upperclass students — have "gone out of their way" to offer assistance and guidance during the freshman class' first month at the University.

"So many of them have awesome open-door policies to offer advice or give support," Ajieren said, "and it really solidifies the community feeling."



A WUSTL Woman's Club welcome Risa Zwerling Wrighton (left) laughs with Shelley Wetsch (center) and Lorraine Gnecco during the Woman's Club of Washington University's Fall Welcome Lunch at Harbison House Sept. 10. Wrighton hosted the luncheon to introduce women new to the University to the Woman's Club. The club, founded in 1910 by faculty wives, offers members opportunities to form friendships and grow intellectually through luncheons, lectures, tours and programs. The club also funds scholarships for deserving WUSTL students. The club is open to all. Members include 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 information about the club, contact Pat Sarantites at 862-6615 or sarantites@gmail.com, or Margaret Israel at 997-0431 or meisrael@sbcglobal.net.

Paths

Exhibit opens at Kemper following Adams, Obata
— from Page 1

Human Values, which organized both events as part of the semester-long series "Ethnic Profiling: A Challenge to Democracy."

"Events from this past summer — when grade-school children were ejected from a swimming pool in Philadelphia and Harvard professor (Henry Louis) Gates was arrested at his home — demonstrate the need for continued vigilance against ethnic and racial profiling in our own time," Kodner said.

Michael Adams, an alumnus of the School of Medicine, was born and raised in the Yosemite Valley, site and subject of many of his father's most famous photographs. There, his parents ran a small gallery, Best's Studio, which also showed paintings and prints of the park by Chiura Obata. Both Ansel Adams and Chiura Obata taught summer classes through the gallery and often spent evenings together, sitting and talking over drinks.

"The Obata and Adams families were good friends long before the war," Adams said. "The Obatas camped in Yosemite Valley each year, and we stored their camping equipment for them in our garage over the winter."

Though just a child at the time, Michael Adams remembers summer visits by the teenage Gyo and his sister. "I am sure we all had meals together," he said.

At the start of the war, Gyo Obata had just begun classes at the University of California, Berkeley, where his father taught painting.

However, to avoid internment, he transferred to Washington University's School of Architecture, which, as an inland institution, was allowed to accept Japanese-American students.

"I left Berkeley the night before my whole family was interred," Obata said. "Washington University was one of the few colleges that accepted Japanese-Americans."

He said that had the telegram announcing his acceptance arrived one day later, "I'd have been sent to the camps, too."

Instead, Obata finished his education in St. Louis. In 1955, he joined with fellow



Ansel Adams' "Young girl smiling (Oriental type)" is one of the photographs from Manzanar that will be on display at Kemper.

architecture alumni George Hellmuth and George Kassabaum to form Hellmuth, Obata & Kassabaum. The firm, which remains based in St. Louis, is among the largest in the world today.

The rest of the Obata family, unable to avoid internment, was sent first to the Tanforan detention center and then to the Topaz Relocation Center in Utah.

There, Chiura Obata made the best of a bad situation by establishing an art school.

Meanwhile, Ansel Adams departed from his characteristic landscapes to document life in another of the camps — images he then collected in the book "Born Free and Equal: Photographs of the Loyal Japanese-Americans at Manzanar Relocation Center in Inyo County, California," which he published in 1944.

"We, as citizens, can agitate for tolerance and fair play, but our agitation must be dynamic and persistent," Adams wrote in his accompanying essay.

"It is easy for a 'fair-weather lover of the Constitution' to 'favor' tolerance, and mouth the principles of democracy, but it is quite another thing to stand up against opposition and fight for principles," Adams wrote.

Several of Adams' Manzanar photographs, along with paintings by Chiura Obata, will be featured in the "A Challenge to Democracy" exhibition, which opens immediately after the talk.

Jointly curated by Angela L. Miller, Ph.D., professor of art history and archaeology in Arts & Sciences, and doctoral students Elissa Weichbrodt and Anna Warbelow, the exhibit will explore the pervasive nature of ethnic profiling through a variety of visual records and materials.

The exhibition's first section, "Profile of the Enemy," consists of popular materials, including political cartoons, magazine covers and a government-issued handbook, that depict ethnically Japanese people as villainous.

By contrast, the second section, "Profile of the Patriot," features images by Ansel Adams, Dorothea Lange, Clem

Albers and others who portrayed Japanese-Americans as loyal citizens.

The final section, "Resisting Profiles," examines how Japanese-American artists, including Chiura Obata, Toyo Miyatake, Mine Okubo and Gene Sogioka, responded to their own internment — responses that ranged from subtle forms of resistance to outright protest.

Other events will include a lecture and slideshow by Michael Adams, titled "Ansel Adams: Photographs of Manzanar and the West," at 2 p.m. Oct. 3 in the Kemper Art Museum.

Two performances of Rick Foster's one-man-play "Dust Storm: Art and Survival in a Time of Paranoia," which uses the art of Chiura Obata as background, will star actor Zachary Drake. The shows will begin at 8 p.m. Oct. 3 and at 4 p.m. Oct. 4 in Steinberg Hall.

Finally, Kimi Kodani Hill, Chiura's granddaughter, will lecture on "The Art and Life of Chiura Obata" at 2 p.m. Oct. 4 in the Kemper Art Museum. Hill is the author of "Topaz Moon: Chiura Obata's Art of the Internment."

Copies will be available for sale in the museum bookshop, with a book-signing to follow.

All events are free and open to the public.

For more information about the ethnic profiling series, call 935-9358 or visit humanvalues.wustl.edu.

Sports

Volleyball wins sixth Teri Clemens invite

The No. 7 volleyball team turned in three of its best performances of the year as it captured the Sixth Annual Teri Clemens Invitational.

The Bears opened the tournament with a 3-0 win over No. 1 and previously unbeaten Juniata College Sept. 18. WUSTL had not beaten its rival since the 2005 season, losing four straight matches with the Eagles.

The next day, the Bears earned another sweep, defeating No. 18 University of La Verne, 3-0, and then captured the title with a 3-2 win over No. 6 University of St. Thomas.

WUSTL (11-2) had two games earlier this week. It hits the road Oct. 3 and 4 to play in the University Athletic Association Round Robin in Rochester, N.Y.

Women's golf claims IWU fall classic

Playing in a field that included six nationally ranked teams, the women's golf team established itself as a national contender by winning the 2009 Illinois Wesleyan University Fall Classic Sept. 20.

The 36-hole, two-day tourney was played at Ironwood Golf Course in Normal, Ill. WUSTL shot a 329 on Day 2 to finish the two-day tournament with a score of 644. Freshman Melanie Walsh finished second after completing the 36-hole event with a 153. Freshman Hannah Buck also continued her consistent play as she placed fifth with a two-day total of 156.

WUSTL continues its fall season Saturday and Sunday,

Sept. 26 and 27, at the Millikin University Fall Classic in Decatur, Ill.

Women's soccer wins pair of road games

The No. 18 women's soccer team won a pair of road games in Michigan last weekend to extend its winning streak to five games.

Freshman goalkeeper Clara Jaques picked up the shutout in each win and has not allowed a goal in 302 minutes.

WUSTL (5-2) hosts Division I Southeast Missouri State University Friday, Sept. 25, at 7 p.m.

Men's soccer still undefeated at 4-0-3

The men's soccer team ran its unbeaten record to 4-0-3 with a pair of victories last week.

WUSTL defeated Westminster College Sept. 16, 1-0, and Birmingham Southern College Sept. 18, 2-1.

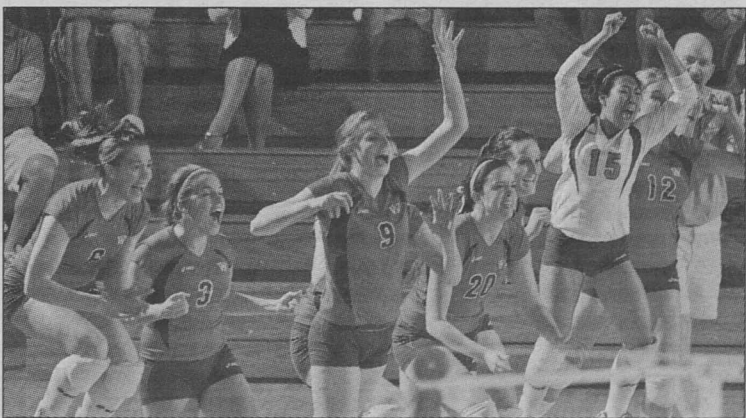
WUSTL returns to action Friday, Sept. 25, at Greenville College in Greenville, Ill.

Football suffers 46-0 loss to Wittenberg

Wittenberg University busted open a 7-0 first-quarter lead with 36 unanswered points in the second quarter to post a 46-0 victory at Washington University Sept. 19.

Wittenberg piled up 445 yards of total offense and held the Bears to 99. The rushing attack was held to minus-7 yards on 24 carries.

The Bears (1-2) have a week off before returning to action at 1 p.m. Oct. 3 at home against Rhodes College.



The volleyball team celebrates victory over Juniata College.

Notables

Introducing new faculty members

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

Kunal Agrawal, Ph.D., joins the School of Engineering & Applied Science as assistant professor of computer science and engineering. Agrawal earned a doctorate from the Massachusetts Institute of Technology, where she worked with Charles Leiserson, Ph.D., in the Supercomputing Technologies Group. Her research interests include both theoretical and practical aspects of parallel computing, and she has worked on various topics such as scheduling, resource allocation, transactional memory, cache-aware and cache-oblivious streaming.

Jung-Tsung Shen, Ph.D., joins the School of Engineering & Applied Science as assistant professor of electrical and systems engineering. Shen earned a doctorate in physics in 2003 from the Massachusetts Institute of Technology, where he worked on theoretical and computational investigation on electron-hole plasma, laser gain profile and metamaterials. Since 2003, Shen has worked at Stanford University in the Ginzton Laboratory, focusing on photon transport in nanophotonics, metamaterials, plasmonics, and thermal and energy transport in nanostructures. His primary research interest is in exploiting device potential and new material concepts enabled by the capability of manipulating light at subwavelength scales.

Three Arts & Sciences faculty receive inaugural awards

By SUSAN KILLENBERG MCGINN

A new tradition was started at the Arts & Sciences' annual faculty reception, which was held Sept. 10 in Holmes Lounge.

In addition to the usual introduction of new faculty at the beginning of the fall semester, two new awards that recognize the contributions of tenured faculty were presented to three faculty members during the reception.

Gary S. Wihl, Ph.D., dean of the faculty of Arts & Sciences and the Lewin Distinguished Professor in the Humanities — presiding at his first Arts & Sciences Faculty Reception since becoming dean July 1 — introduced the new faculty and presented the inaugural awards.

Mary Ann Dzuback, Ph.D., associate professor and director of women, gender, and sexuality studies and associate professor of education and adjunct associate professor of history; and Elzbieta Sklodowska, Ph.D., the Randolph Family Professor in Arts & Sciences and chair of the Department of Romance Languages and Literatures, received the Arts & Sciences Distinguished Leadership Award.

Thomas J. Bernatowicz, Ph.D., professor of physics, received the David Hadas Teaching Award.

"I'm pleased to start a new academic year, and my term as dean, by recognizing three outstanding colleagues, whose dedication to the University enriches the work of our students and faculty," Wihl said. "I look forward to welcoming back Pamela Hadas in future years, a distinguished poet in her own right, as we continue to identify outstanding teachers for the David Hadas award."

Ralph S. Quatrano, Ph.D., the Spencer T. Olin Professor in Arts & Sciences, established the Distinguished Leadership Award last academic year while he was interim dean of the faculty of Arts & Sciences.

The leadership award, which will be presented annually to two recipients, recognizes faculty who dedicate their time, energy and expertise to the advancement of Arts & Sciences and the University, above and beyond a commitment to research and teaching.

Dzuback, who has been director of the Women, Gender and Sexuality Studies Program since 2006, was nominated for this award by a group in her program who referred to her as having "strengthened our program in untold ways."

"In the current economic climate, when women's studies programs are being eliminated nationwide and where women are still under-represented among university faculty and administrators, Mary Ann Dzuback offers a

model of the potential for women as both scholars and administrators in academe," the nominating group wrote.

"Through her inspired leadership, creative problem solving and indefatigable administration, Washington University now enjoys a thriving, energetic Women, Gender and Sexuality Studies Program that attracts a growing number of graduate and undergraduate students who have available unparalleled opportunities for intellectual, professional and personal growth."

Dzuback, who received special recognition for excellence in mentoring from the Graduate Student Senate in spring 2008, serves on a number of University committees, including the Provost's Diversity Work Group, for which she chairs the subcommittee on mentoring, and the Advisory Committee on Sexual Assault, for which she is chair of the search committee for the assistant director for sexual assault prevention and community health position.

She also served on the Advisory Committee on the Appointment of the Dean of the Faculty of Arts & Sciences and chaired the Arts & Sciences Curriculum Committee, among many others.

As chair of Romance languages and literatures for six years, Sklodowska leads a department as diverse as the four languages that are housed there — French, Italian, Portuguese and Spanish.

Sklodowska, a professor of Spanish, works with some 40 full-time faculty and 30 graduate students. There are more than 200 undergraduate majors and minors in the department.

Her peers describe her as a "superb chair," who is "dedicated, principled and fair-minded."

Sklodowska's main area of study and research is Spanish-American culture and literature. Her regional focus is on the Caribbean and Cuba, and she works extensively on contemporary Cuban literature and culture.

Sklodowska and Joseph Schraibman, Ph.D., professor of Spanish, developed and taught the first seminar for the freshman FOCUS Program on Cuba in Arts & Sciences in 2001.

She described creating the still-popular program, which includes a study trip to Havana that provides firsthand experience of Cuban everyday life, as one of her "most personally rewarding experiences."

She has served on numerous University committees, including as co-chair of the Advisory Committee on the Appointment of the Dean of the Faculty of Arts & Sciences; a member of the Arts & Sciences Master Planning Committee; and chair of

departmental search committees. She is a member of the Provost's Diversity Work Group, the Academic Planning Committee and a faculty fellow in the provost's office.

The David Hadas Teaching Award recognizes an outstanding tenured faculty member in Arts & Sciences who demonstrates commitment and excellence in teaching first-year undergraduates.

Pamela W. Hadas, Ph.D., widow of David Hadas, a beloved Arts & Sciences professor known for his warm personality and Socratic teaching style, established the award in his memory.

David Hadas, Ph.D., was a renowned professor of both English and of religious studies for nearly 40 years until his death in 2004. His courses were legendary, especially his "Bible as Literature" class. Many students say he changed their lives. He continued teaching, even while battling cancer.

Pamela Hadas, who earned a bachelor of arts, master of arts and doctorate from Washington University and who recently retired from teaching at the University of Colorado, attended the faculty reception.

Bernatowicz, a member of the physics faculty since 1998, earned a doctorate from WUSTL in 1980. His research focuses on detailed laboratory observations of presolar grains from meteorites to draw inferences about the physical conditions in ancient circumstellar environments and about the formation of dust in the galaxy.

In 2004, Bernatowicz introduced "Physics 197/198," a calculus-based physics sequence based on the innovative teaching methods of Thomas A. Moore of Pomona College and set forth in Moore's textbook "Six Ideas That Shaped Physics."

Rather than being a traditional lecture-based science course, "Physics 197/198" uses interactive learning techniques typically found in language and literature classes. Students are trained to think and to address problems the way that physicists do.

Kenneth F. Kelton, Ph.D., the Arthur Holly Compton Professor in Arts & Sciences and chair of the Department of Physics, nominated Bernatowicz for the award.

In his nomination letter, Kelton referred to Bernatowicz as "the most popular teacher in our introductory physics course that I have seen in the 24 years that I have been on the faculty of Washington University, almost always receiving standing ovations on the last day of class. He is also by far the most innovative. ... Tom is a leader, helping to lay paths for new ways to teach science that reach far beyond the introductory physics course."

Labov to discuss inquiry-based learning

If test scores are anything to go by, Americans have long since recovered from Sputnik shock and the enthusiasm for science it engendered. Reports of lackluster scores on national and international tests of science literacy have become an annual ritual, depressing a generation of science teachers.

But many of these teachers never gave up. In the best traditions of their discipline, they continued to experiment with new ways of teaching science, founding their experiments in research about learning and measuring the results by the yardstick of effectiveness.

Enough has been done now that we have good data on many innovative teaching methods, says Barbara A. Schaal, Ph.D., the Mary-Dell Chilton Distinguished Professor of Biology in Arts & Sciences, professor of genetics at the School of Medicine, and a member of the Committee on Undergraduate Education in the Life Sciences. "The data show that some of these teaching methods are very effective: Students come to class more, retain more and learn more."

To explore this body of research with the University community, the committee, together with the provost's office and Arts & Sciences, are sponsoring a four-part seminar series on inquiry-based methods of teaching.

The speaker at the first seminar, to be held at 4:30 p.m.

Wednesday, Sept. 30, will be Jay Labov, Ph.D., a senior staff member of the National Research Council's Center for Education. His talk, titled "Science Teaching and Learning Reconsidered: Evidence and National Needs," will be held in the Whitaker Hall Auditorium.

The seminar series is free and open to the public.

"Education is a way of dealing with a lot of national issues," said Schaal, who recently was re-elected vice president of the National Academy of Sciences (NAS) and appointed a member of the President's Council of Advisors on Science and Technology, an advisory group of 20 of the nation's leading scientists and engineers who advise the president on areas of science that are key to strengthening the nation's economy and forming its policy.

"Almost everything we're worried about as a nation," Schaal said, "could be addressed by having better K-12 or college education."

Labov, who began his career as a biology professor at Colby College in Maine, has served as study director for many National Research Council reports on education research, including "Evaluating and Improving

Undergraduate Teaching in Science, Mathematics, Engineering, and Technology," and "Learning and Understanding: Improving Advanced Study of Mathematics and Science in U.S. High Schools."

He also oversees the NAS' efforts to improve the teaching of evolution in public schools.

He worked closely with Bruce Alberts, Ph.D., the former president of the NAS, who made science education one of the academy's top priorities, Schaal said.

"Change will not be appropriate for every department or for every course," Schaal said. "But I think it is important for this community to look at the data coming from recent research on science teaching."

All the more so, she said, because Washington University has always valued teaching as much as research.

"We're not at all like some places where you have an elite cadre of researchers, and the teaching is left to lecturers. Washington University has many great scholars, scientists, humanists, social scientists — and they're the ones standing in front of the students and teaching the introductory as well as the advanced courses," Schaal said.

For more information, contact Kirsten Smith at 935-3359 or kirstensmith@artsci.wustl.edu.

For the Record

Of note

Ursula W. Goodenough, Ph.D., professor of biology in Arts & Sciences, has received a four-year, \$430,000 grant from the National Science Foundation for research titled "Development of Sexual Cycles in Marine Picoprasinophytes Based on Molecular Homologies with Chlamydomonas Sexual Cycles." Receiving \$300,000 of the \$730,000 total grant was Alexandra Z. Worden, Ph.D., of the Monterey Bay Aquarium Research Institute. ...

Alexander Meshik, Ph.D., research professor in physics in Arts & Sciences, has received a four-year, \$751,834 grant from the National Aeronautics and Space Administration for research titled "Analysis and Interpretation of Genesis Mission Noble Gases." These samples came from NASA's Genesis mission, which launched in 2001 and orbited the sun for more than two years collecting samples of solar wind. ...

James G. Miller, Ph.D., the Albert Gordon Hill Professor of Physics in Arts & Sciences and professor of medicine and of biomedical engineering, has received a four-year, \$1,306,757

grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases for research titled "Enhancing Bone Quality Assessment Using Quantitative Ultrasound." ...

Kenneth Olsen, Ph.D., assistant professor of biology in Arts & Sciences, has received a five-year, \$915,000 CAREER award from the National Science Foundation for research titled "Clover Cyanogenesis: Integrating Ecological and Molecular Genetics in the Study of Adaptation." This grant is supported by the American Recovery and Reinvestment Act. ...

Yoram Rudy, Ph.D., the Fred Saigh Distinguished Professor of Engineering, has received a three-year, \$294,621 grant from the National Science Foundation for research titled "Modeling Spatial Organization of Cardiac Cell Function: Application to Calcium Waves and Arrhythmia." ...

Jonathan S. Turner, Ph.D., the Barbara J. and Jerome R. Cox Jr. Professor of Computer Science, and **Patrick Crowley, Ph.D.**, associate professor of computer science and engineering, have received a two-year, \$692,556 grant from the National Science Foundation for research titled "A Testbed for Advanced Network Systems Research and Education."

Washington People

By DIANE DUKE WILLIAMS

As a child, Rosanne S. Naunheim, M.D., had her nose broken three times. Her father, a retired Marine and third-generation barber who liked to box, often hosted matches in the ring tucked in the back of his barbershop. Boxing, he decided, also was the best way for his five children to settle their differences.

Her mother, an executive secretary who strongly believed in education, often roused her children out of bed as the sun rose for Spanish lessons on a local TV station.

Naunheim also learned to hunt quail and grouse on the family's farm, perched 500 feet above the Mississippi River Valley in southern Minnesota.

"We were always doing something, and we were big outdoors people," says Naunheim, now associate professor of emergency medicine.

Naunheim's parents' varied influences fueled her natural curiosity. Her colleagues now describe her as unique, prolific and someone who knows a great deal on almost any subject. Her boss also says he's fairly certain Naunheim is a genius.

"She has an amazing ability to multitask," says Brent Ruoff, M.D., associate professor and chief of the Division of Emergency Medicine. "She can see multiple

Conductor of caregivers

Naunheim's dedication ensures excellent care in the emergency room

patients in the Emergency Department, catch time here and there to read a journal article and still identify patients for her research projects and enroll them. She also picks up disease processes that most of us vaguely remember reading about but apparently miss."

Timothy Buchman, M.D., Ph.D., founding director of the new Emory Center for Critical Care at Emory University in Atlanta, attended the University of Chicago Pritzker School of Medicine with Naunheim and her husband, Keith Naunheim, M.D., now a professor of surgery at Saint Louis University School of Medicine. Buchman says she is precisely the kind of doctor anyone would want when they're sick.

"She's smart, has common sense by the bucketload and gets the job done right the first time, every time," Buchman says.

After earning a degree in biology in 1970 at Carleton College in Northfield, Minn., Naunheim decided to apply to medical school. A number of her friends were applying, and she



Rosanne S. Naunheim, M.D., listens to the heart of Tammika Morgan, a patient in the Barnes-Jewish Hospital Emergency Department. "You should see Rosanne Naunheim, M.D., on Friday evenings in the trauma/critical care area," says Timothy Buchman, M.D., Ph.D., director of the new Emory Center for Critical Care at Emory University in Atlanta. "She's conducting an orchestra of caregivers, making sure that some very sick St. Louisans get to see the next sunrise."

had been inspired by the Mayo Clinic physicians who cared for her father, who had leukemia. He died when Naunheim was in high school.

Before her move to attend the University of Chicago, Naunheim had never been in a big city. She enjoyed the ethnic diversity and the many museums and cultural institutions.

She also thrived in medical school.

"It was fantastic," she says. "The teachers were very excited about what they taught."

Finding her niche

During medical school, Naunheim decided to specialize in emergency medicine because she liked the variety of cases. She also had the opportunity to work with Peter Rosen, M.D., one of the founding fathers of emergency medicine.

The first patient she took care of as an emergency medicine resident at the University of Chicago Hospitals was a man who, in a drunken stupor, had frozen to death in a block of ice. Her job was to sit with him until he thawed enough so that he could be declared dead.

Naunheim has cared for patients in moments of joy — telling a woman she's having twins — and for patients who still bring tears to her eyes. She treated a young woman with metastatic breast cancer who wanted to hold the hands of her 2-year-old and 3-year-old as she died.

Working in the Emergency Department (ED), she says, makes one accept that death is a natural part of life, but Naunheim believes that many of her patients' fates are determined by luck.

"What makes someone become paralyzed in a fall or have a rare genetic disorder?" she says. "Some people simply can't get a break."

Research focus

Naunheim was recruited to WUSTL's emergency medicine division by Lawrence Lewis, M.D., when he became head of the division in 1994. The two had worked together for nine years at Saint Louis University School of Medicine.

Through the years, Naunheim and Lewis became interested in head injuries and how to prevent them. They studied accelerometers in high-school hockey and football players' helmets to measure the

force of blows to the head.

They also researched playground surfaces and concluded that various surfaces have different impact-dampening properties, depending on geographic location and weather conditions. In St. Louis, the safest surface is wood chips, but loose-filled gravel also works well.

Their study, along with political pressure from a number of local groups, prompted the City of St. Louis to change its playground surfaces from asphalt to wood chips or gravel.

Additionally, Naunheim has studied various types of football fields to determine whether new playing surfaces lower the risk of concussions and other head injuries. She and her colleagues determined that the older, foam-padded surface was just as soft as the newer, shredded rubber-based surface. They also found that the parts of the shredded rubber surface that got the most traffic tended to get compacted and harder.

Recently, she has investigated neurocognitive testing in the ED to determine if patients with head injuries have concussions. Only a small percentage of concussions show up on CT scans. "Many of these patients have no short-term memory in addition to other cognitive problems," Naunheim says. "Identifying these problems is important because they may indicate that a patient should take a break from sports or from school and might need therapy to improve short-term memory."

Naunheim hopes that coaches can be trained to administer this simple test on the sidelines to determine if players can return to a game or if they need treatment.

Lewis says Naunheim is tireless, has the most prodigious curiosity of anyone he knows and is not deterred by even the largest of obstacles.

"She also is a great cook, raised four children who have all become very successful in their own right and always brings a unique gift to commemorate any occasion," he says. "She is an amazing person."

Naunheim's daughter Kate works for an agency that reviews government contracts in Washington, D.C.; her son Theo attends law school at the University of Missouri-Columbia; her other son, Matt, is enrolled in

Harvard Medical School; and her daughter Molly started at the University of Chicago Pritzker School of Medicine this fall.

A rewarding field

Since she started practicing emergency medicine, Naunheim says the field has changed dramatically. In the late 1970s, emergency medicine physicians followed patients into the Intensive Care Unit (ICU) and continued to care for them. Today, physicians transfer the care of their emergency room patients to an ICU team. Also, doctors formerly relied more on physical exams for diagnoses because they didn't have ultrasound machines, electrocardiography or CT scans.

"But patients have always been grateful for whatever you do," she says. "It's a very rewarding field."

Naunheim says she can't believe she gets paid to do something she enjoys so much. Her colleagues also are quick to point out how much she likes her job and the resulting benefits to her patients.

"You should see Rosanne Naunheim, M.D., on Friday evenings in the trauma/critical care area," Buchman says. "She's conducting an orchestra of caregivers, making sure that some very sick St. Louisans get to see the next sunrise."

Rosanne S. Naunheim

Education: B.A. in biology, Carleton College; M.D., University of Chicago

Title: Associate professor of emergency medicine

Family: Husband, Keith Naunheim, M.D., professor of surgery at Saint Louis University School of Medicine; daughters Kate, senior analyst for an agency that reviews government contracts in Washington, D.C., and Molly, a student at the University of Chicago Pritzker School of Medicine; sons Theo, a student at the University of Missouri School of Law, and Matt, a student at Harvard Medical School

Hobbies: Playing accordion, skeet shooting, birding, gardening and traveling. She also enjoys quilting and cooking, which she learned from her grandmother.

Fascinated with: Botany. She reads agricultural journals.



Rosanne S. Naunheim plays her accordion at home while one of her dogs, Leonidas, howls in harmony. Naunheim has played accordion for 16 years and continues with lessons.