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Record

Dec. 6, 2007

record.wustl.edu



Washington University in St. Louis



December degrees James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences, congratulates Vanessa L. Brown at a Dec. 2 reception in the Mallinckrodt Student Center following the December Degree Candidate Recognition Ceremony in Graham Chapel. Brown, an economics major, is a bachelor of arts degree candidate from the College of Arts & Sciences. An Enterprise Rent-A-Car Scholar and an Ervin Scholar, she is among 740 students who are December degree candidates. Chancellor Mark S. Wrighton and Jeffrey P. Bonner, president and chief executive officer of the Saint Louis Zoo, delivered remarks during the ceremony. McLeod and Robert E. Thach, Ph.D., dean of the Graduate School of Arts & Sciences, assisted Wrighton in recognizing the degree candidates on stage.

Cervical cancer patients receive new follow-up: post-treatment PET scans

By GWEN ERICSON

Whole-body PET (positron emission tomography) scans done three months after completion of cervical cancer therapy can ensure that patients are disease-free or warn that further interventions are needed, according to a School of Medicine study. "This is the first time we can say that we have a reliable test to follow cervical cancer patients after therapy," said Julie K. Schwarz, M.D., Ph.D., a Barnes-Jewish Hospital resident in the Department of Radiation Oncology. "We ask them to come back for a follow-up visit about three months after treatment is finished, and we perform a PET scan. If the scan shows a complete response to treatment, we can say with confidence that they are going to do extremely well. That's really powerful."

Schwarz and colleagues pub-

lished their study in the Nov. 21, 2007, issue of the Journal of the American Medical Association (JAMA).

Without a test like PET, it can be difficult to tell whether treatment has eliminated cervical tumors, Schwarz said. That's because small tumors are hard to detect with pelvic exams, and overt symptoms, such as leg swelling, don't occur until tumors grow quite large. Furthermore, CT and MRI scans often don't differentiate tumor tissue from surrounding tissues. Pap tests can be inaccurate because of tissue changes induced

by radiation therapy, and no blood test exists to detect the presence of cervical cancer.

Cancerous tumors glow brightly in the PET scans used in the study, called FDG-PET scans, which detect emissions from radioactively tagged blood sugar, or glucose. Tumor tissue traps more

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Schwarz

ITeach 2008 to help faculty focus on the classroom

By JESSICA DAUES

At research universities such as Washington University, faculty members constantly are creating, uncovering and discussing new theories, discoveries and ways of thinking about important and complex questions. Finding ways to integrate this scholarship into the classroom experience can be an opportunity for distinction and academic excellence. It also can be a challenge — a challenge not often discussed among faculty.

"Most faculty at research universities are interested in teaching and develop innovative teaching methods, but they do it in isolation," said Regina Frey, Ph.D., director of The Teaching Center and senior lecturer in chemistry in Arts & Sciences. "They don't necessarily talk to their colleagues

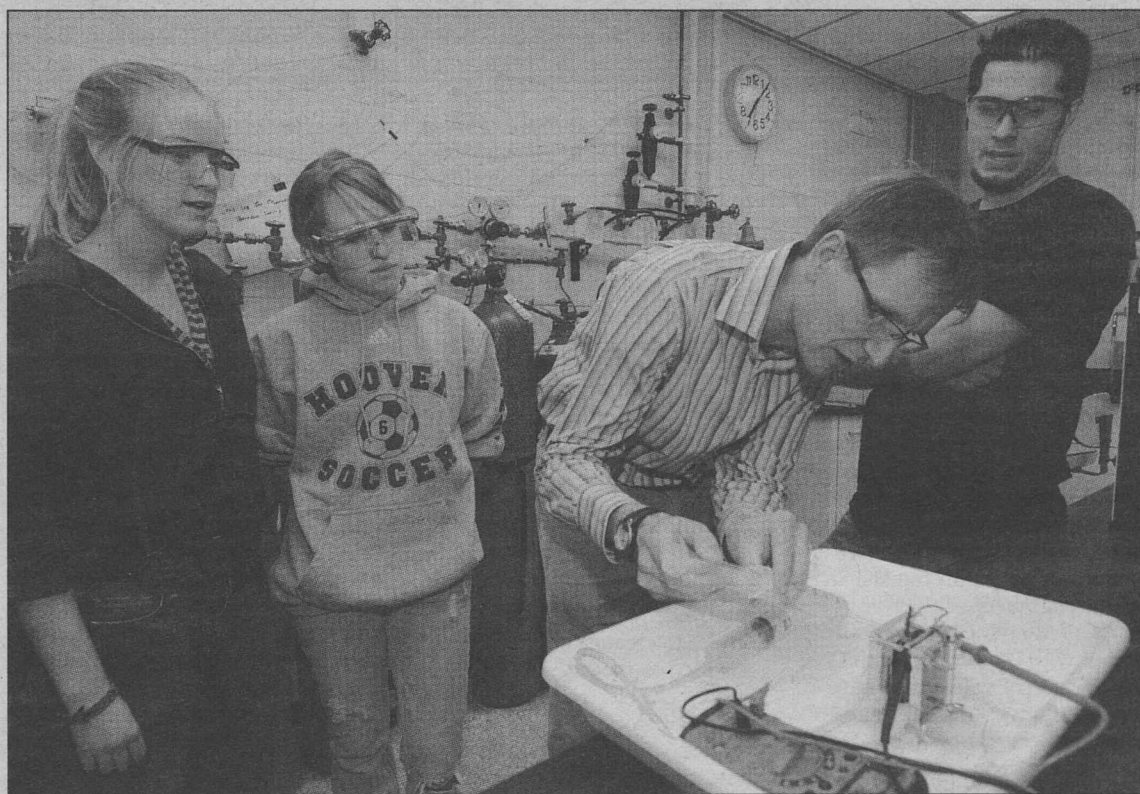
about what they're doing."

That's why, on Jan. 10, The Teaching Center, University Libraries and the College of Arts & Sciences will host ITeach 2008, an event at which faculty can gather to talk specifically about their teaching experiences and learn about new teaching methods and technology that can help students learn more quickly and easily.

The symposium, which will take place from 8:45 a.m.-4:30 p.m. at Eads and Ridgely Halls, is free and open to all University faculty members. The Teaching Center requests that those planning to attend register by Jan. 4.

ITeach 2008 will feature 16 separate sessions about topics ranging from "Improving Student

See ITeach, Page 6



Lars Angenent, Ph.D., shows students (from left) Emily Wesson, Bethany McDearmon and Jeffrey Brombolich how to feed catholyte solution into the cathode of a microbial fuel cell. The students are in Angenent's introduction to energy, environmental and chemical engineering class.

Create one, teach one

WUSTL researcher receives grant to develop microbial fuel cell kits for students

By TONY FITZPATRICK

The combination of beer, wastewater, microbes, fuel cells, high-school students and teachers sounds like a witches' brew for an old-fashioned, illicit 1960s beach party.

Instead, these are the components that constitute the heart and soul of a new high-school science curriculum being developed by researchers at Washington University and two St. Louis area high-school teachers.

Lars Angenent, Ph.D., assistant professor of energy, environmental & chemical engineering, has received a \$400,000 Career Grant from the National Science Foundation to develop microbial fuel cell

(MFC) kits and an accompanying book of physics, chemistry and biology lessons. Eventually, he hopes to make them available to high-school science teachers as an exciting, visual, hands-on way to teach science.

As part of the grant, he will be working with Victoria L. May, assistant dean for Science Outreach in Arts & Sciences and director of the University's Science Outreach program.

Using MFC technology, Angenent is treating wastewater donated by local brewery Anheuser-Busch Cos. Inc. and creating electricity in a six-liter device a bit bigger than a thermos. He uses a mixed medium containing thousands of organisms and op-

See Fuel cells, Page 2

First Faculty Creative Activity Research Grants awarded by Sam Fox School

Five art, architecture professors receive \$5K awards

By LIAM OTTEN

The Sam Fox School of Design & Visual Arts has announced the recipients of its first annual Faculty Creative Activity Research Grants.

Five faculty members from the College of Art and the College of Architecture will each receive \$5,000 to support a variety of projects from publications and video documentary to large-scale public sculpture.

Recipients were chosen from

19 submissions, representing almost half of the Sam Fox School's 39 tenured and tenure-track faculty.

The faculty jury included Sarah Birdsall, associate professor of art; Paul J. Donnelly, the Rebecca and John Voyles Professor of Architecture; Ron Leax, the Halsey C. Ives Professor of Art; William Wallace, Ph.D., the Barbara Murphy Bryant Distinguished Professor of Art History in Arts & Sciences; and Jane

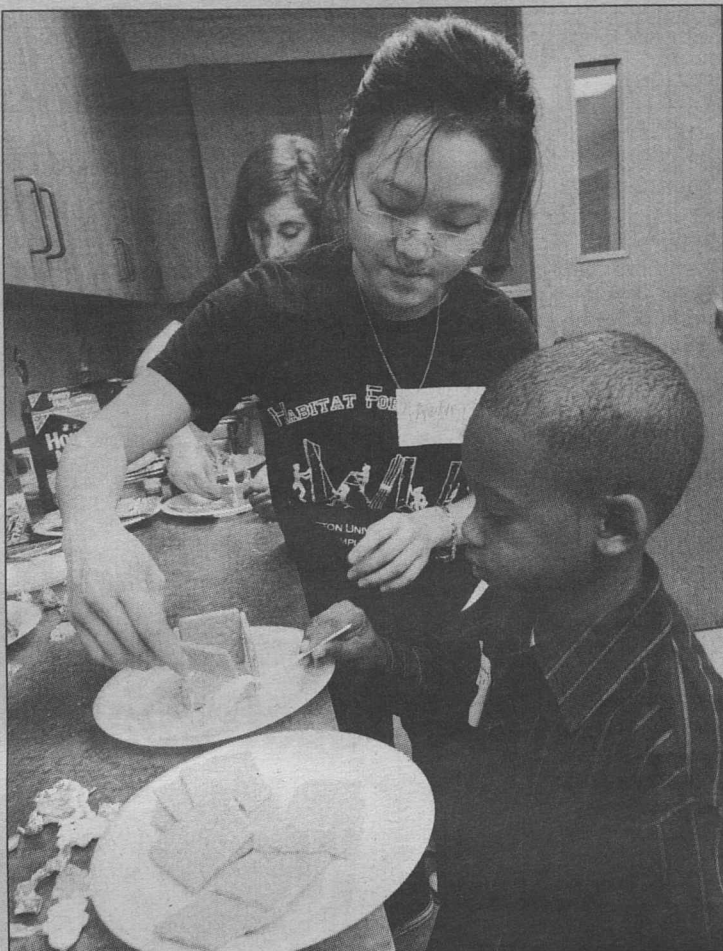
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Habitat holiday Junior Audrey Ye (right) helps a child build a gingerbread house Dec. 2 during the WUSTL chapter of Habitat for Humanity holiday party at Mudd House. The party was hosted entirely by students, and the attendees were home buyers and their families whom the WUSTL group has helped over the past year. Below, sophomore Carley Kadlec helps children decorate Christmas tree ornaments during the party.

Habitat for Humanity is a nonprofit organization whose goal is to eliminate poverty housing worldwide. Habitat brings families and communities in need together with volunteers and resources to build decent, affordable housing. The WUSTL chapter encourages students to make a positive difference in the St. Louis community. Its main focus is to raise funds for building Habitat homes, raise awareness about the need for affordable housing and to actually build alongside future Habitat homeowners at Habitat construction sites.



KEVIN LONDER



KEVIN LONDER

Fuel cells

WUSTL works with Hazelwood district

— from Page 1

timizes environmental conditions to select for a bacterial community with improved electron transfer in anode biofilms, thereby increasing the electron transfer rate.

In addition, he plans to work with a single-culture biofilm to allow a full understanding of how to use operating conditions to manipulate electron transfer in anode chambers.

"Anheuser-Busch is supporting us not with money, but with wastewater, of which they have an ample supply," Angenent said. "They're very happy to be working with us because they have a keen interest in biofuels and bioenergy."

Angenent also is working with teachers from the Hazelwood School District in north St. Louis County, one of the districts in the University's Science Outreach program, to develop a curriculum using MFC.

"As a teaching tool, the MFC can enable the teaching of physics, chemistry and biology, all the while making the science exciting," Angenent says.

"Students will actually be able to see the electricity their MFC is creating. If their MFC is being fed bacteria and sugars correctly, it will turn a light-emitting diode on. Imagine the excitement of that," he said.

Angenent said that MFC technology offers advantages for converting waste to energy because

the microbial fuel cells can operate using the dilute organic waste streams typical of domestic wastewater treatment plants and at low operating temperatures.

Angenent uses a carbon-based fiber on which biofilm grows, allowing him to connect two electrodes in the anode and cathode chambers with a conductive wire.

In contrast, in a hydrogen fuel cell, a membrane separates the anode and cathode chambers.

When hydrogen meets the anode electrode, it splits into protons and electrons, with protons going across the membrane to the cathode chamber and electrons passing over the wire between electrodes to create a current. Oxygen is added to the cathode chamber, and on the electrode there is a reaction of electron plus proton plus oxygen to form water. Catalysts, such as platinum, are needed on both electrodes to promote the reactions.

"We are doing basically the same thing as is done in a hydrogen fuel cell with our microbial fuel cell," Angenent said. "We've found that the bacteria on the anode electrode can act as the catalyst instead of platinum."

With the Career Grant funding, Angenent intends to advance the conversion to electricity by predicting the power output of various configurations of microbial fuel cells by ascertaining the selection process for the microbial community in the cathode, thereby enhancing the electron flow, and by understanding how operating conditions can affect the biofilm at the anode.

The research will be integrated with an educational component that will engage students from the

Hazelwood district and encourage them to consider careers in science and engineering.

The educational component will include the development of two new courses. One will be in bioprocess engineering for undergraduate and graduate students and will focus on how to transform waste into useful products. The second will be a molecular biology techniques laboratory class.

In addition to the two new courses, a program that engages high-school students in the science and engineering of microbial fuel cells has been established. Erin Roades and Brett Barron, chemistry/biology teachers at Hazelwood Central High School, are working on MFC kits.

They will bring their classes of 100-120 students onto campus once or twice each academic year to teach them using MFC lessons. Over the next two summers, Roades and Barron will compile a curriculum with the MFC as the centerpiece.

The lab classes will be conducted on the University campus, providing high-school students who might not have the opportunity a chance to learn about MFC and experience higher education. And from what Angenent and the teachers learn during the on-campus classes, teaching kits will be developed and refined that will allow extension of the hands-on learning to other high schools.

"We want to make the kits and curriculum available to a larger network beyond our Outreach connections," Angenent said. "This way a rural school miles away from a University can still use the kits and concepts."

Habif Center offers online parking passes, e-mail communication

By NEIL SCHOENHERR

Student Health Services, in conjunction with Parking and Transportation Services, has announced the introduction of a new, printable temporary parking pass available online for students to use during their visits.

Students can print a pass from the health service student portal available at shs.wustl.edu. The pass is good for 15 minutes before and after the scheduled appointment time.

It is only good for Lot 54, the metered parking lot between Lee and Umrath Houses. When using the pass, there is no need to feed the meter.

"We're excited to offer these passes to students," said Alan I. Glass, M.D., director of the Habif Health and Wellness Center. "It's more convenient for them and is quick and easy since it's online."

The health center also is offering a new program that provides

for secure e-mailing between students and health providers they have seen. The secure e-mail system is a feature of the center's electronic medical record called Open Communicator and also can be accessed through the student portal on the center's Web site.

Students receive notification through their WUSTL e-mail accounts that they have a message from their clinician and then can access the portal to retrieve the message.

"This system was a direct response to student needs," Glass said. "Students are very comfortable with e-mail communication, and this system has eliminated a lot of phone tag. However, it does not completely eliminate the need for face-to-face and telephone communication between students and their health providers. Messages of an urgent or emergent nature will not be communicated by e-mail."

Chemical inventory reports due to University by Jan. 4

The U.S. Department of Homeland Security (DHS) issued a new rule called the Chemical Facility Anti-Terrorism Standard. The rule impacts all institutions that store or use chemicals, including universities.

The regulation requires all facilities to immediately inventory specific "Chemicals of Interest" that could attract terrorists. The DHS has given a very short time period in which to accomplish this inventory. All University departments must complete their inventories of these chemicals and

submit this information to the Department of Environmental Health & Safety by Jan. 4, 2008.

The rule applies to all areas within Washington University that possess chemicals, including but not limited to laboratories, art studios, shops, theaters, clinics and athletics.

For more information about the rule, the list of the 325 "Chemicals of Interest," requirements for University personnel and a tool for reporting inventories, visit ehs.wustl.edu/cfatsrule.htm.

Construction Update

Construction Update is published periodically and provides information about the progress of major building and renovation projects. Information is provided to the *Record* by Facilities Management.

Harry and Susan Seigle Hall

The stone masonry on the south face of the building is seven-eighths complete. The stone masonry has begun on the northern half of the east elevation and is to the window head of Level 2. The mechanical, electrical and plumbing systems rough-ins continue on all floors. Drywall is about 75 percent complete with taping under way on the lower levels. Installation continues on both elevators. The terrazzo installation has begun on the lower levels. Tarlton Corp. is preparing to start the building heating system. Construction should be completed by June 2008.

Danforth University Center

The mason is setting granite at the east elevation at the northeast courtyard. The granite at the west and north walls is almost complete. The window installation is 80 percent complete. The angled roof decking is complete. Nail base is 99 percent complete. The slate is under way on the north elevation. Framing on the first floor continues with focus on kitchen/food areas and is 60 percent complete. The stair installation is ongoing (two stairs

remaining). Second floor framing is 99 percent complete; installation of the drywall will begin Dec. 7. Third-floor spray fireproofing is 70 percent complete. The third-floor framing is under way. Installation of mechanical, electric, plumbing and fire protection systems distribution continues on all three levels. Air-handling units were turned on for temporary heat Dec. 3. The project is on schedule to be completed by July 2008.

Village East

Construction of the Village East Residence Hall at the corner of Forest Park Parkway and Throop Drive is progressing. Floor slabs at all levels are complete. Mechanical/electrical rough-ins on Levels 1 and 2 are proceeding. Trusses were delivered Nov. 29 and windows were delivered Dec. 3. Tyvek insulation closure of the building proceeds. This project is scheduled for completion in August 2008.

School of Medicine

For updates at the medical school, go to medfacilities.wustl.edu and click on "What's New." That will take you to updates on various projects as well as a live Web cam of the progress of the BJC Institute of Health at Washington University.

Record hiatus

This is the final issue of the *Record* this calendar year. We will resume publication Jan. 17, 2008. The *Record* staff wishes everyone a safe and happy holiday season.

School of Medicine Update

Wireless network being installed at School of Medicine, BJC HealthCare

BY BETH MILLER

The School of Medicine and BJC HealthCare are going wireless to allow students, faculty, staff, patients and visitors to connect to either network without plugging in.

Phase I of implementing the joint wireless network, called MedFi, is under way with expected completion in summer 2008. When complete, 33 buildings covering 9 million square feet at the Washington University Medical Center will have wireless accessibility with 800 access points at the School of Medicine and 1,000 access points at BJC buildings.

Telecommunications Facility Corp., the joint School of Medicine- and BJC-operated company that supports phone services at the medical center, will be funding and overseeing the work.

The School of Medicine work will be done in four stages with each stage taking about three months. Stage 1, which covers the Bernard Becker Medical Library, the Clinical Sciences Research Building and its North Tower, Wohl Clinic and Hospital and the Northwest Tower, is expected to be completed in January. The service is already available in Becker Library.

Stage 2 includes the McDonnell Pediatric Research Building, Renard, Mallinckrodt Institute of Radiology, Wohl Hospital and Barnard. It is scheduled to begin this month and be completed in March.

Stage 3, which includes the Eric P. Newman Education Center (EPNEC), Farrell Learning and Teaching Center, and the North Medical, Maternity, McMillan, IWJ and West buildings, is on track to begin in March 2008.

Stage 4, set to begin in June 2008, includes the Cancer Research, South Medical, McDonnell Medical Sciences, East, East-Imag-

ing buildings and the Biotechnology Center.

Work on 14 BJC buildings will be done in three stages to be completed by next July. Some stairways and elevators may not be covered initially in some locations.

"We recognize that the level of technology available to our faculty, staff and students is moving more toward mobility," said Michael Caputo, assistant dean and chief information officer for the School of Medicine. "The new infrastructure will improve wireless access throughout the medical center and provide our users the opportunity to stay connected to their home network as they move between the medical school and the rest of the medical center."

MedFi will directly benefit those at EPNEC for conferences, said Sonia Francis, project management director in Central Information Technology Services at the School of Medicine.

The network is being rolled out to augment, not to replace, the existing wired networks at the School of Medicine and BJC, said John Roman, manager, network services in Central Information Technology Services.

"The advantage of the wireless network is the flexibility to roam among all medical center buildings without having to change networks," Roman said. "The existing 'wired' network will continue to offer the highest performance and reliability."

The network will be accessible using Windows XP, Windows Vista and Macintosh platforms. Web-based applications such as e-mail and browsers will automatically work with MedFi, said John Barenkamp, BJC director of information services.

Those interested in the wireless network should contact Central Information Technology Services or go online to mscitsprojects.wustl.edu.



Caputo



Top teacher Linda J. Pike, M.D. (left), associate professor of biochemistry and molecular biophysics, and Shirley Silbert, M.D. (right), present Michael C. Montana, a student in the School of Medicine's Medical Scientist Training Program, with the David F. Silbert Outstanding Teaching Award Nov. 28. The award is given to a teaching assistant in a medical school course in recognition of a commitment to teaching and was established in memory of David F. Silbert, M.D., a former professor of biochemistry and molecular biophysics at the School of Medicine. In all, 37 second-, third- and fourth-year students were recognized with awards at the Student Awards luncheon at the Eric P. Newman Education Center.

Malaria drug may prevent or delay atherosclerosis

BY JIM DRYDEN

School of Medicine researchers want to see whether it's possible to reduce the progression of atherosclerosis in healthy people by giving low doses of the malaria drug chloroquine. They are seeking volunteers who are slightly overweight or who have elevated blood pressure.

The human study follows a mouse study that found chloroquine could blunt the progression of plaque buildup in mice that had a genetic predisposition to atherosclerosis.

"Vascular events such as heart attack and stroke are the biggest health risk facing Americans today," said Janet B. McGill, M.D., associate professor of medicine in the Division of Endocrinology, Metabolism and Lipid Research. "Healthy adults with modest ele-

vations in blood pressure or cholesterol or with an abundant waistline are often at higher-than-normal risk due to the silent buildup of atherosclerotic plaque in their arteries. That's an indicator of higher risk for vascular events in the future."

McGill is looking for healthy adults between 18 and 70 years old with some of those risk factors to participate in a National Institutes of Health-funded clinical trial. They'll receive a low dose of chloroquine or an inactive placebo for one year. At the start of the study and again after drug therapy, McGill and her colleagues will

conduct an ultrasound test on the carotid blood vessel and an MRI to examine the thickness of the vessels.

"In people at risk, we would expect to see a very slight thickening of these vessels," said Clay F. Semenkovich, M.D., the Herbert S. Gasser Professor and chief of the Division of Endocrinology, Metabolism and Lipid Research. "We want to learn whether chloroquine can slow that thickening."

Semenkovich and colleagues at St. Jude Hospital for Children in Memphis, Tenn., found that a small dose of chloroquine given to mice reduced blood pressure, decreased hardening and narrowing of the arteries and improved glucose tolerance. Those mice had been genetically engineered without a gene that makes an enzyme called ATM (ataxia telangiectasia mutated). Children without the gene develop a serious disorder called ataxia telangiectasia. In addition to many other problems, children with AT develop an unusual type of diabetes.

Mice without ATM develop atherosclerosis, but when Semenkovich and his colleagues at St. Jude treated the mice with chloroquine, they no longer got atherosclerosis.

"This is an early proof-of-concept study," she said. "If the concept works, we can then figure out the best doses of chloroquine and someday conduct a long-term study where we don't just use ultrasounds to look at the thickness of blood vessels but actually follow people to see whether they have fewer heart attacks and strokes following chloroquine therapy."

The study, called the Atheroma Reduction with Chloroquine in the Metabolic Syndrome (ARCH-MS) study, will screen healthy adults to find those with mildly elevated blood glucose, blood pressure or triglycerides. In addition to ultrasound and MRI tests, some blood tests will be performed, and those who complete the one-year study and two-year follow-up visit will be eligible for up to \$1,000 in compensation. Tests and study-related medications are provided free of charge.

For more information about the study, call 362-8681 or contact study coordinator Stacy Hurst at 747-3294 or shurst@im.wustl.edu.



McGill

Volunteers needed for Parkinson's disease studies

BY JIM DRYDEN

School of Medicine researchers are seeking volunteers with Parkinson's disease for two studies. One is investigating the effects of antidepressant drugs on depression and motor function. The second study is assessing the safety and effectiveness of a drug for Parkinson's patients who also have psychotic symptoms.

In the National Institutes of Health-funded depression study, investigators are evaluating paroxetine (Paxil) and venlafaxine XR (Effexor) for alleviating depression and for their potential effect on motor function in patients with Parkinson's.

"Depression is very common

in patients with Parkinson's disease," said Kevin J. Black, M.D., associate professor of psychiatry, of neurology, of neurobiology and of radiology and the study's principal investigator. "Doctors frequently prescribe a class of drugs called selective serotonin reuptake inhibitors for these patients. But we don't really know how well these drugs work in this population."

The study will monitor depression levels in participants who receive one of the drugs for 12 weeks. Investigators also will monitor motor function. Neither the researchers nor the study volunteers will know which drug subjects have received or whether they have been given a placebo

until the end of the study.

"There have been concerns that this class of drugs, known as SSRIs, might affect motor function," Black said.

"They are known to alleviate depression in otherwise healthy people, but because the drugs interact with some of the same brain structures affected by Parkinson's disease, it is important that we take a closer look at their effects in this population to ensure that in attempting to alleviate depression, we aren't creating other problems," Black said.

The second study, supported by Ovation Pharmaceuticals, is testing varying doses of a drug called melperone to treat psychosis in patients with Parkinson's

disease. Currently, there are no drugs approved specifically for the treatment of psychosis in patients with Parkinson's. Typical antipsychotic drugs often cannot be used because they can exacerbate Parkinsonian symptoms, such as stiffness and tremors.

"Because melperone seems to work through different mechanisms than other antipsychotic drugs, we want to see whether it can alleviate symptoms of psychosis without exacerbating motor problems," Black said.

Patients in the 10-week study will receive melperone syrup or a placebo in syrup. Neither the investigators nor the participants will know whether an individual receives an active drug or a placebo until the study's completion. The study will require seven in-person visits during a 10-week period.

Certain health problems may exclude some people from participating. All screening tests, study medications and research-related procedures for these studies are free of charge.

For more information, contact Mary Creech at 362-7651 or maryc@npg.wustl.edu or Elda Shipley at 362-6514 or shipleye@npg.wustl.edu.

Kingshighway bridge to be demolished for new I-64 work

Demolition of the old Kingshighway Boulevard bridge Dec. 7-10 and Dec. 14-17 will require closure of Highway 40/Interstate 64 at Kingshighway over the two weekends from 10 p.m. Friday to 5:30 a.m. Monday.

Drivers will be able to access the Medical Center from I-64 at Kingshighway, but employees are encouraged to use alternate routes such as Forest Park Park-

way to the north and Manchester to Taylor or Newstead to the south.

Following demolition of the Kingshighway overpass, crews will take down the westbound I-64 to northbound Kingshighway exit ramp that passes over Clayton Avenue the weekend of Dec. 14-17.

While traffic will continue to flow during the transition, em-

ployees may consider alternate routes including:

- Using the Metrolink Central West End station;
- From the southeast, Taylor, Newstead, Boyle and Tower Grove overpasses;
- From the southwest, Hampton and McCausland/Skinker;
- From the west or east, Forest Park Parkway and Delmar Avenue.

University Events

'me me me' kicks off ovations! for young people series

By LIAM OTTEN

Montreal's acclaimed DynamO Théâtre will launch Edison Theatre's popular ovations! for young people series with "me me me," a whirling mix of gymnastics, theater, juggling and mime that tackles perhaps the toughest of all political arenas: grade school.

The special one-day-only performance begins at 11 a.m. Jan. 12 in Edison Theatre.

Written by the playwright and novelist Lies Vaillancourt, "me me me" opens with four longtime friends — Mathilde (Mariflore Véronneau), Nathan (Frédéric Nadeau), Suzanna (Kim Henry) and Stanley (Oliver Koomsatira) — arriving for a hectic day at school. As the students turn to their assignments, Mathilde enthusiastically answers the teacher's queries, her hand shooting skyward as she yells "Me me me!" and wins a classroom prize.

Yet Mathilde's enthusiasm triggers a hostile reaction from her friends, who soon begin to ostracize her from the group. As the day goes on, Mathilde grows more and more isolated but eventually attempts to overcome that rejection with an unexpected move that takes an entire school by surprise.

"(DynamO Théâtre) tells sto-



Montreal's DynamO Théâtre Company tackles what could be the toughest of all political arenas — elementary school — in the rollicking, energetic 'furiously theatrical' romp 'me me me.' The show comes to Edison Theatre Jan. 12.

ries using bodies and few words," notes Quebec City's daily newspaper Le Soleil. "Evocation and suggestion are key to its art while poetry and images give it wings. ...

Their muscles are eloquent and their precise movements and actions bring up striking images."

DynamO Théâtre was founded in 1981 by a group of Montreal

artists whose varying backgrounds included gymnastics, mime and juggling. The group's vision was to create a dynamic theatrical experience that com-

bined all of these movements with the emotional depth of drama — a style they now call the "Theatre of Acrobatic Movement."

"This furiously theatrical production, varied and rich in references of all kind, instantly imposes its meaning," adds Le Soleil. "It is geared for kids 7 to 12, but adults should find as much entertainment and lessons as the youngsters."

The ovations! for young people series offers specially priced Saturday matinee performances for audiences of all ages. Following DynamO Théâtre, the series will continue Feb. 16 with the Campbell Brothers, grand masters of Sacred Steel, a vital yet little-known African-American Gospel tradition centered on the pedal steel guitar.

The series will conclude May 10 with Grammy Award-winning roots-rockers Dan Zanes & Friends.

Tickets for the Jan. 12 performance of "me me me" are \$8, though subscriptions to all three ovations! for young people events are available at \$5 per ticket.

Tickets are available at the Edison Theatre Box Office and through all MetroTix outlets.

For more information, call 935-6543 or e-mail Edison@wustl.edu.

Expanding Universe • What a Rubber Band Tells Us • Messiah Sing-Along

"University Events" lists a portion of the activities taking place Dec. 6-Jan. 16 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (webevent.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

"Beauty and the Blonde: An Exploration of American Art and Popular Culture." Nov. 16 through Jan. 28. Kemper Art Museum. 935-4523.

"Carmon Colangelo: Prints." A body of work by Carmon Colangelo, dean of the Sam Fox School of Design & Visual Arts and the E. Desmond Lee Professor for Collaboration in the Arts. Through January. Farrell Learning and Teaching Center, 520 S. Euclid Ave., Lvl. 2. 747-3284.

"Ephemeral Beauty: Al Parker & The Women's Magazine, 1940-1960." Nov. 16 through Jan. 28. Kemper Art Museum. 935-4523.

Film

Thursday, Dec. 6

7 p.m. Iconic Blonde Film Festival. "Bonnie and Clyde." Tivoli Theatre, 6350 Delmar Blvd. 935-4523.

Lectures

Thursday, Dec. 6

Noon. Genetics Seminar. "Maternal Effects and the BMPs of Vertebrate Development." Mary C. Mullins, assoc. prof. of cell & developmental biology, U. of Pa. School of Medicine. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. History Colloquium. "The Strange Career of Evolutionary Anthropology." Howard Brick, prof. of history. (Reception follows.) Duncker Hall, Rm. 201, Hurst Lounge. 935-5450.

4 p.m. Ophthalmology & Visual Sciences Seminar Series. "Transcriptional Regulatory Networks Controlling Cell Fate, Proliferation and Differentiation in the Developing Vertebrate Nervous System." Kristen L. Kroll, assoc. prof. of molecular biology & pharmacology. Maternity Bldg., Rm. 725. 362-3315.

Friday, Dec. 7

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. "13C-Based Metabolic Flux Analysis of Environmental Microorganisms." Y. Tang, postdoctoral fellow, U. of Calif., Berkeley. Lopata Hall, Rm. 101. 935-5548.

11 a.m. School of Business Seminar. "Agent Heterogeneity and its Impact on Workforce Management." Noah Gans, assoc. prof. of operations and information management, U. of Pa. Simon Hall, Rm. 241. 935-5577.

Noon. Cell Biology & Physiology Seminar. "Reverse Interactomics: Decoding Protein-Protein Interaction Through Combinatorial Chemistry." Dehua Pei, prof. of chemistry, The Ohio State U. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

Monday, Dec. 10

Noon. Molecular Biology & Pharmacology Seminar. "Role of the Gastrointestinal Microbiota in Cardiovascular Physiology." Peter Crawford, asst. prof. of medicine. South Bldg., Rm. 3907, Philip Needleman Library. 747-3339.

1 p.m. Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Guest Lecture. "Ethics and Epidemics." Matthew K. Wynia, dir., Inst. for Ethics, American Medical Association. Farrell Learning & Teaching Center, Holden Case Study Rm. 286-0432.

3 p.m. Siteman Cancer Center Seminar Series. "Controlling Translation in Neurofibromatosis." Jason Weber, asst. prof. of medicine. South Bldg., Rm. 3907, Philip Needleman Library. 454-8981.

4 p.m. Immunology Seminar. "Calcium Signaling in Cells of the Immune System: Therapeutic Implications." Jean-Pierre Kinet, Beth Israel Deaconess Medical Center. Farrell Learning and Teaching Center, Connor Auditorium. 362-2763.

4 p.m. Physics Seminar. "Simulations of Clathrate Hydrate Structure and Dynamics with Applications to Hydrogen Storage and Carbon Dioxide Sequestration." Saman Alavi, U. of Ottawa. (3:45 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

4 p.m. Siteman Cancer Center Breast Cancer Research Group Seminar. "The Sigma-2 Receptor: A Ki-67 Like Protein for Imaging Cell Proliferation." Robert H. Mach, prof. of radiology. Farrell Learning and Teaching Center, Conference Rm. 2. 454-8981.

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.

5:30 p.m. Cardiac Bioelectricity & Arrhythmia Center Seminar. "Medical Imaging: Past, Present and Future." R. Gilbert Jost, prof. of radiology. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

Tuesday, Dec. 11

8:30 a.m.-4 p.m. Center for the Application of Information Technology Workshop. "The Politics of IT Project Management." Cost: \$1,210; reduced fees available for CAIT member organizations. (Also Dec. 12, 8:30 a.m.-4 p.m.) CAIT, 5 N. Jackson Ave. To register: 935-4444.

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "The Genes That Were Missed: An Expanding Universe of Small RNAs and Small ORFs." Gisela Storz, prof. of cell biology and metabolism branch, National Institutes of Health. Cori Aud., 4565 McKinley Ave. 362-3692.

Wednesday, Dec. 12

8:15 a.m.-10:30 a.m. Center for the Application of Information Technology Forum. "Taking a User-Centered Approach to Customer Self-Service." Features Carol Righi, dir. of user experience, Perficient. Eric P. Newman Education Center. To register: 935-4444.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Force-induced DNA-ligand Interactions: From Small Molecule Binding to HIV Replication." Mark C. Williams, assoc. prof. of physics, Northeastern U. Cori Aud., 4565 McKinley Ave. 362-4152.

5:30 p.m. Kemper Art Museum Gallery Talk. "Spotlight: Eliasson." Meredith Malone, asst. curator. Kemper Art Museum, Rm. 104. 935-4523.

Thursday, Dec. 13

Noon. Genetics Seminar. "Genomic Analysis of Transcription Factors and cis Regulatory Elements: Regulatory Codes in DNA." Martha L. Bulyk, asst. prof. of medicine, Harvard Medical School. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

3 p.m. Siteman Cancer Center Basic Science Seminar Series. Joe E. Gray, division dir., life sciences, Lawrence Berkeley National Laboratory. Eric P. Newman Education Center. 454-7029.

Friday, Dec. 14

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. "What a Rubber Band Tells Us: Multiscale Modeling of Macromolecular Dynamics in Concentrated Environments." Jay D. Schieber, prof. of chemical and biological engineering, Ill. Inst. of Technology. Lopata Hall, Rm. 101. 935-5548.

Monday, Dec. 17

4 p.m. Immunology Seminar. Kenneth Murphy, prof. of pathology and immunology. Farrell Learning and Teaching Center, Connor Auditorium. 362-2763.

Wednesday, Dec. 19

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Single Molecule Mechanics of Motor Proteins In Vitro and In Vivo." Paul R. Selvin, prof. of cell and developmental biology, U. of Ill. at Urbana-Champaign. Cori Aud., 4565 McKinley Ave. 362-4152.

Tuesday, Jan. 8

4:30 p.m. Freedom From Smoking Class. (Continues twice weekly through Feb. 13.) Farrell Learning & Teaching Center, Rm. 213 A&B. To register: 362-8279.

Thursday, Jan. 10

8:45 a.m.-4:30 p.m. 2008 iTeach Symposium. Co-sponsored by Arts & Sciences, The Teaching Center and University Libraries. Ridgley Hall, Holmes Lounge & Eads Hall. To register: 935-6692.

Thursday, Jan. 17

4 p.m. Ophthalmology & Visual Sciences Seminar Series. "Computational and Experimental Studies of DNA-Protein Interactions and Gene Regulation." Joseph Erlanger, prof. of genetics. Maternity Bldg., Rm. 725. 362-3315.

Music

Thursday, Dec. 6

8 p.m. Concert. Guitar Gala. Graham Chapel. 935-4841.

8 p.m. Jazz at Holmes. Kim Portnoy, piano. Ridgley Hall, Holmes Lounge. 935-4841.

Saturday, Dec. 8

3 p.m. Concert. Charlotte Fong, piano. E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-4841.

7:30 p.m. Concert. Concert Choir. Graham Chapel. 935-4841.

Sunday, Dec. 9

3 p.m. Concert. Messiah Sing-Along. Graham Chapel. 935-4841.

8 p.m. Faculty Recital. Bill Lenihan, guitar. E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-4841.

Monday, Dec. 10

8 p.m. Concert. Flute Choir. Graham Chapel. 935-4841.

Tuesday, Dec. 11

8 p.m. Concert. Chamber Ensembles. Graham Chapel. 935-4841.

Wednesday, Dec. 12

8 p.m. Concert. Jazz Band. Ridgley Hall, Holmes Lounge. 935-4841.

Thursday, Dec. 13

8 p.m. Jazz at Holmes. Tom Byrne, guitar. Ridgley Hall, Holmes Lounge. 935-4841.

Friday, Dec. 14

8 p.m. Opera Scenes. (Also 8 p.m. Dec. 15.) Umrrath Hall Lounge. 935-4841.

On Stage

Saturday, Jan. 12

11 a.m. ovations! for young people series. Montreal's DynamO Théâtre presents "me me me." Cost: \$8. Edison Theatre. 935-6543.

Friday, Jan. 18

8 p.m. OVATIONS! Series. "Quintet for New Tango with Claudia Acuña." Cost: \$30, \$25 for seniors, WUSTL faculty & staff, \$18 for students & children. Edison Theatre. 935-6543.

Music for the season: Series of concerts on tap for December

The Department of Music in Arts & Sciences will conclude its fall season with a series of December concerts.

Events begin at 8 p.m. Thursday, Dec. 6, when classical guitar students present the evening-length concert "Guitar Gala" in Graham Chapel. At 3 p.m. Saturday, Dec. 8, graduate student Charlotte Fong will present a piano recital in the E. Desmond Lee Concert Hall, located in the 560 Music Center, 560 Trinity Ave. Events continue at 7:30 p.m. that day when WUSTL's Concert Choir performs a concert under the direction of John Stewart, director of vocal activities, also in Graham Chapel.

The department will host its annual sing-along of George Frideric Handel's oratorio "Messiah" at 3 p.m. Sunday, Dec. 9, in Graham Chapel. The performance, which lasts about an hour, will include the Christmas portion of "Messiah" as well as the "Hallelujah Chorus." Those who wish to participate in the sing-along may sit in special sections arranged according to voice type (soprano, alto, tenor, baritone), though those who choose not to sing also are welcome to attend.

Copies of the music will be available for those who do not bring their own scores.

Stewart directs the performance. William Partridge is organist. Soloists are all current students, faculty or alumni from Music's Vocal Performance program and include sopranos Courtney Dey and Cecily Stewart; mezzo soprano Debra Hillabrand; tenors Jay O'Brien and Joshua Stanton; and baritone Nathan Ruggles.

Also on Sunday, Dec. 9, Jazz guitarist Bill Lenihan, lecturer in music, will present a recital at 8 p.m.

The Washington University Flute Choir will perform at 8 p.m. Monday, Dec. 10, followed by a recital featuring campus chamber ensembles at 8 p.m. Tuesday, Dec. 11; both concerts take place in Graham Chapel.

The Washington University Jazz Band will perform at 8 p.m. Wednesday, Dec. 12, in Holmes Lounge, located in Ridgley Hall.

Finally, the Washington University Opera, directed by Jolly Stewart and conducted by John Stewart, will present an abridged version of Jules Massenet's "Manon" at 8 p.m., Dec. 14 and 15, in Umrath Hall Lounge.

All concerts are free and open to the public. For more information, call 935-5566 or e-mail kschultz@artsci.wustl.edu.

Register to win a season PassPort to The Black Rep

In celebration of The Black Rep's 31st season, Washington University's Diversity Initiative is giving away 31 season PassPorts to University faculty and staff. Each season PassPort consists of five ticket vouchers redeemable at any time during the 2008 season.

The drawing, which for the second consecutive year is sponsored by Chancellor Mark S. Wrighton and the WUSTL Diversity Initiative, will be random, and entries must be submitted by Dec. 17.

Only one entry per person is allowed. To enter, visit diversity.wustl.edu/blackrep.htm.

Katherine McCabe of the Office of Technology Management

was one of last year's lucky recipients. "It was very exciting to receive the season PassPort package," she said. "The St. Louis Black Rep is a top-notch theatre troupe, and all of the performances were great."

The 31st season begins Jan. 2 with "Othello" on the Main Stage at the Grandel Theatre. Other Main Stage shows this season include "Radio Golf," "Death & The King's Horseman," "Harlem Duet" and "Sarafina."

For more information about the diversity initiative, visit diversity.wustl.edu.

For more information about The Black Rep, visit theblackrep.org.

Author, teacher Oh to give annual Martin Luther King Jr. lecture at medical school

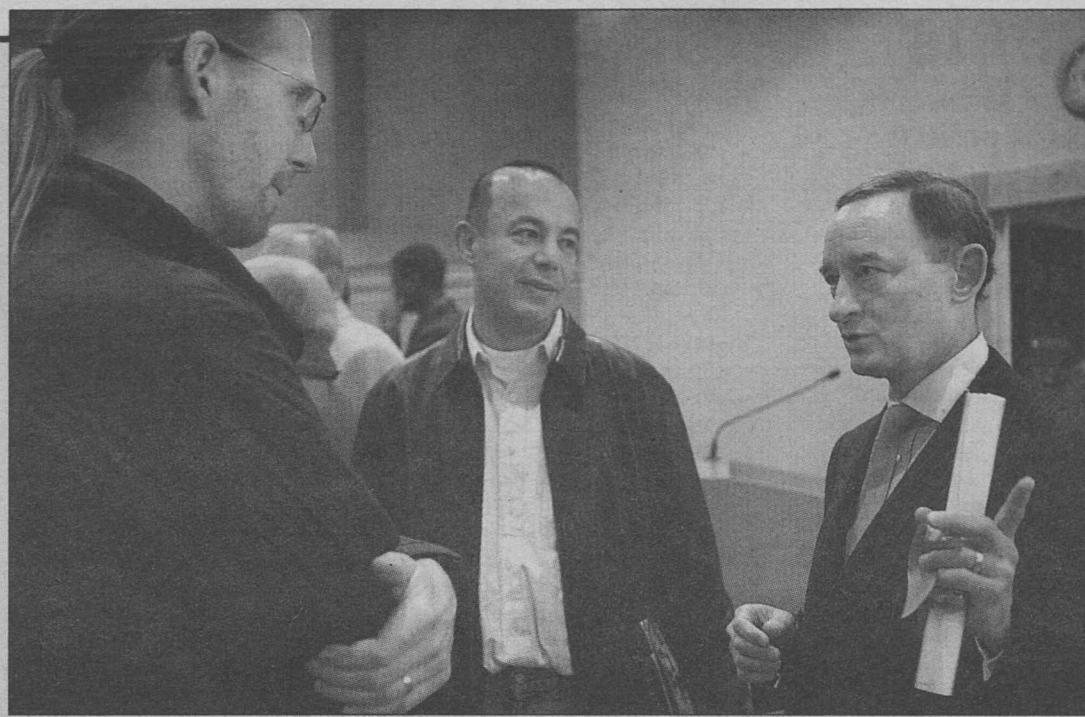
The Washington University School of Medicine's Office of Diversity Programs will present its annual Martin Luther King Jr. celebration lecture at 4 p.m. Jan. 21 in the Eric P. Newman Education Center.

Angela E. Oh, internationally recognized author, teacher and public lecturer, will speak. Appointed by President Bill Clinton in June 1997 to the President's Initiative on Race, Oh was part of a seven-member advisory board

to the president in an effort directed at creating a national dialogue and examination of race relations in the United States.

For more information, call 362-6854.

The Danforth Campus also will have numerous activities surrounding the holiday, including the 21st annual celebration honoring King's legacy at 7 p.m. in Graham Chapel. Check the Jan. 14 eRecord for a complete listing of campus activities.



Welcome, neighbors Chancellor Mark S. Wrighton speaks with Nasri Saleh (center) and Chip Houser (left) at the University's Nov. 29 "Report to the Neighbors" meeting at Whitaker Hall. The meeting provided Wrighton an opportunity to inform local community members about the latest University happenings, such as the announcement of the upcoming vice presidential debate in October 2008, the volleyball team's national championship and the groundbreaking of the BJC Institute of Health at Washington University. Wrighton; Arthur J. Ackermann, associate vice chancellor for facilities planning and management; James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences; Steven P. Hoffner, assistant vice chancellor for real estate and president of Quadrangle Housing; and Cheryl L. Adelstein, director of community relations and local government affairs, also took part in a question-and-answer session, which gave neighbors a chance to voice questions and concerns to University administrators.

Sports

Luenemann named coach of the year

Volleyball head coach Rich Luenemann was named the American Volleyball Coaches Association (AVCA) Coach of the Year Nov. 26. The Bears finished the season with a 33-5 overall record and won the ninth Div. III volleyball title in school history.

It is the second time in nine seasons at WUSTL that Luenemann has earned the recognition. He also garnered AVCA Coach of the Year honors in 2003, the other year he led the Bears to the national championship.

Luenemann recorded two other milestone victories in 2007: He won his 300th match at WUSTL with a 3-0 win against New York University Oct. 14, and he won the 900th match of his career in the Bears' 3-2 win against the University of Wisconsin-Oshkosh in the NCAA tournament Nov. 9.

Luenemann's career record stands at 904-303 (.749), and he is 314-41 (.885) as the Bears' head coach.

The volleyball team will be recognized Saturday, Dec. 8, at halftime of the men's basketball game against Illinois Wesleyan University, which begins at 3 p.m. Festivities will include the unveiling of the championship banner and a presentation of the national championship trophy.

Men's basketball wins Lopata Classic

The No. 8 Bears captured the 24th Annual Lopata Classic championship with a 68-66 win against Babson College Dec. 1 at the Field House. Junior Tyler Nading earned the Robert L. Burnes Most Valuable Player honors for the second straight season, scoring 25 points on 10-of-14 shooting from the field.

The Bears hosts Illinois Wesleyan University Saturday, Dec. 8, at 3 p.m. That day, the Department of Athletics will team up with the Siteman Cancer Center and Coaches vs. Cancer to bring awareness to the fight against cancer and to help raise money for cancer research. Donations will be encouraged (admission is free), and there will be information about both organizations and how to help in this ongoing battle.

Women's basketball splits Ohio games

The No. 9 women's basketball team played two road games in Ohio last week, defeating Denison University, 87-76, Dec. 1, but falling to Capital University, 66-58, Dec. 2.

Junior forward Jaimie McFarlin led the Bears in their win against Denison, scoring a career-high 29 points and grabbing nine rebounds. The Bears had their

most efficient scoring game of the year in the win, shooting a season-best 50.0 percent from the field as a team.

A long second-half scoring drought doomed the Bears against Capital. WUSTL led the Crusaders, 36-31, at halftime and stretched the lead to 53-45, but Capital went on an 11-0 scoring run to take the lead, 56-53.

Swimming second, sixth at invitational

The Bears competed at the seven-team Wheaton Invitational in Wheaton, Ill., from Nov. 30-Dec. 1. The men's team placed second with 662 points, and the women's team was sixth with 468 points.

The men's team was led by junior Kevin Leckey, who finished first in three freestyle events: the 50-yard freestyle (20.97), the 100-yard freestyle (45.86) and the 200-yard freestyle (1:41.71). All three of Leckey's times met NCAA "B" cut qualifying standards, which will be counted toward qualifying for the NCAA postseason.

Senior Meredith Nordbrock won three events for the women's team, and she set a new school record in the 400-yard IM. Nordbrock's time of 4:30.16 in the 400-IM was an NCAA "A" cut time. Her other victories came in the 200-yard IM (2:06.94) and the 200-yard back (2:06.20), both "B" qualifying times.



Rich Luenemann talks strategy during a timeout in the Bears' national championship game. The coach just finished his ninth season at WUSTL and picked up a national title, two career milestones and coach-of-the-year honors along the way.

Sports

Saturday, Dec. 8

3 p.m. Men's Basketball vs. Ill. Wesleyan U. Athletic Complex. 935-4705.

Saturday, Dec. 15

1 p.m. Women's Basketball vs. Maryville U. Athletic Complex. 935-4705.

3 p.m. Men's Basketball vs. Coe College. Athletic Complex. 935-4705.

Thursday, Jan. 3

7 p.m. Women's Basketball vs. Webster U. Athletic Complex. 935-4705.

Monday, Jan. 7

8 p.m. Men's Basketball vs. Webster U. Athletic Complex. 935-4705.

Friday, Jan. 11

6 p.m. Swimming & Diving vs. Lindenwood U. Millstone Pool. 935-4705.

Saturday, Jan. 12

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

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

Grants

Goal is to encourage creative projects
— from Page 1

Wolff, assistant professor of architecture.

"The Faculty Creative Activity Research Grants are designed to support the professional and creative activities that are distinctive to architecture, design and art," said Carmon Colangelo, dean of the Sam Fox School and the E. Desmond Lee Professor for Collaboration in the Arts.

"The goal was to encourage creative projects and scholarship that assist faculty in pursuing their research interests, whether that results in a book, a film, a building design, a new work of art or a significant exhibition," Colangelo said.

"These grants are intended to promote faculty research and to help build a culture of support and recognition for creative activity."

Recipients for 2007 are:

D.B. Dowd, professor of visual communications. The grant will fund preliminary research for "The Graphic Sensibility: A Theoretical Foundation for the Study of Commercial Images." The book will seek to chart and articulate a new disciplinary approach to images of cultural significance — including illustration, animation, comics and pictorial information design — that are resistant to traditional art historical methodologies.

Zeuler Lima, Ph.D., assistant professor of architecture. The grant will fund the use of new digital media as an analytic tool for studying significant built and unbuilt works by the pioneering yet often overlooked Italian-Brazilian architect Lina Bo Bardi.

The final materials will be organized into boards for an exhibition at the Sam Fox School in fall 2008.

Igor Marjanovic, assistant professor of architecture. The grant will fund a portion of production costs and image copyrights for "Bertrand Goldberg's Marina City." The book — co-authored by Marjanovic and Katerina Ruedi Ray, Ph.D., director of the School of Art at Bowling Green State University in Ohio — examines the history and impact of Marina City, a pioneering modernist development that has become an icon of mid-century Chicago architecture. Publication by Princeton Architectural Press is scheduled for 2009 and will coincide with a major Goldberg retrospective at the Art Institute of Chicago.

Arny Nadler, assistant professor of sculpture. Nadler's recent works hover in scale between monuments and small buildings and typically consist of hundreds of pieces of steel cut and pieced together. The grant will fund fabrication of large-scaled work inspired by the engineering support structures — such as bridges and highway systems — that sustain the contemporary-built environment.

Franklin Oros, associate professor of visual communications. The grant will help fund production of a video documenting St. Louis' recently announced "10-Year Plan to End Chronic Homelessness." The initiative was launched by Mayor Francis Slay and is supported by the city's Homeless Continuum, a system of more than 50 human-service agencies.

The video will include interviews with Slay and other community leaders as well as with both chronically homeless and formerly homeless individuals now in supportive housing.

ITeach

An opportunity to talk about teaching
— from Page 1

Writing" to "Using Digital Research Materials for Teaching." Other offerings include "Web-Based Homework in Large Courses," "Engaging Students in Large, Introductory Courses" and "Teaching with GIS."

Since the first biennial ITeach symposium in 2002, which focused exclusively on incorporating new technology into the classroom, subsequent symposiums have added increasingly more sessions about teaching methods that have little or nothing to do with technology. At ITeach 2008, just 65 percent of the sessions offered will be technology-related.

"Technology was the initial impetus, but what we found is that this becomes a great occasion for faculty to talk to one other about the art of teaching," said Dennis Martin, associate vice chancellor and associate dean of Arts & Sciences. "There really isn't another forum for that on a campus-wide basis."

Still, the majority of sessions offered at ITeach 2008 are centered on the use of new technology in teaching, including the use of Geospatial Information Systems (GIS), currently a hot topic in education and research. WUSTL recently invested in a campus-wide site license and is developing staff expertise and infrastructure that has helped make GIS available to faculty across the University.

"The focus is not on technology for technology's sake" Martin said, "but instead on discovering how technology can allow a teacher to present information in a different, more compelling way that will allow students to learn

more effectively."

In addition to the learning sessions, ITeach 2008 features a plenary address, "Capturing the Visible Evidence of Invisible Learning," led by Randy Bass, executive director of Georgetown University's Center for New Designs in Learning and Scholarship.

The lecture will aim to help faculty determine whether students are truly mastering the material they are being taught and how teaching methods can be changed to better engage students.

ITeach 2008 also will provide an environment where faculty members can discuss how those areas that aim to support teaching, such as University Libraries, can best serve them, said Judith Fox, associate dean of University Libraries. "The library is always looking for ways we can assist faculty in teaching and research," she said.

According to Frey, faculty of all ages and all disciplines likely will benefit from attending ITeach — not only because of the learning sessions, but also because of the opportunity to discuss teaching with other faculty members during breaks, meals and the reception.

"I think that's the real usefulness of ITeach," Frey said. "Faculty are not just speaking to colleagues in their department, but to colleagues throughout the University, so there is an interdisciplinary conversation about how to improve teaching and enhance student learning."

"Along those same lines, the young faculty are talking to older faculty, who have more experience. Older faculty are talking to younger faculty, who have new ideas. Therefore, just as we have an interdisciplinary connection, we have an intergenerational connection as well," she said.

For more information about ITeach 2008 or to register, visit iteach.wustl.edu or call Liz Peterson at 935-6810.



Historical site John S. Rigden, Ph.D., adjunct professor of physics in Arts & Sciences, reviews the recently hung Eads Hall display recognizing physicist Arthur Holly Compton, Ph.D., the University's first faculty member to receive a Nobel Prize (1927), and his groundbreaking research. The American Physical Society (APS) named WUSTL — where Compton did his Nobel Prize-winning research on X-rays — to its Register of Historic Sites. An APS plaque now hangs just inside Eads Hall's main entrance alongside a University plaque that marks the building in which Compton discovered the X-ray scattering effect; a photo and biography of Compton; and his early X-ray research that he started in 1920 on the RMS Aquitania while sailing from England to the United States to begin his WUSTL appointment as the Wayman Crow Professor of Physics and chair of the physics department.

Petersen directs alumni relations

BY BARBARA REA

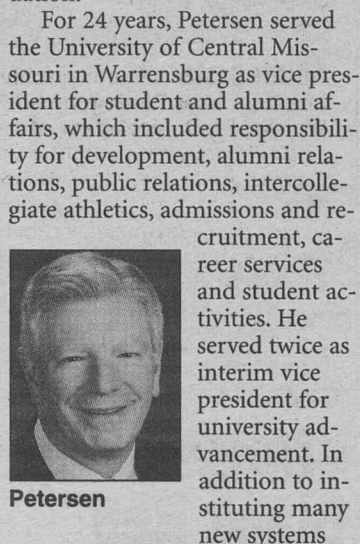
Stephen H. Petersen, Ph.D., has been appointed assistant vice chancellor for alumni relations in Alumni & Development Programs.

"Steve brings a wealth of experience in many facets of student and alumni relations, as well as administrative leadership, to Washington University," said Pamela Henson, associate vice chancellor of Alumni & Development Programs.

Petersen's responsibilities at Washington University include class reunions, Founders Day, WUSTL alumni clubs and programs, the travel lecture series, the alumni travel program, special programs for current students and young alumni, the Alumni Board of Governors, working with development to encourage alumni support for the University and partnering with numerous offices on campus to provide services and support for WUSTL alumni.

Since 1971, when he became assistant to the dean of students at Indiana University, Petersen has forged a career in academia devoted to improving the college experience for students and strengthening their connection after graduation.

For 24 years, Petersen served the University of Central Missouri in Warrensburg as vice president for student and alumni affairs, which included responsibility for development, alumni relations, public relations, intercollegiate athletics, admissions and recruitment, career services and student activities. He served twice as interim vice president for university advancement. In addition to instituting many new systems



Petersen

and increasing its programs, under his guidance, Central Missouri received the largest gift in its history up to that point in time.

In 2004, he accepted the position of associate vice president for alumni relations at St. Louis University; two years later, the responsibilities for annual giving were added.

During Petersen's tenure at SLU, he served for nine months as

interim vice president for university advancement and oversaw three major departments: development, alumni relations and marketing and communications.

Petersen earned a bachelor's degree in French, a master's degree in college student personnel administration and a doctorate in higher education administration, all from Indiana University. He also received a Fulbright Scholar award.

In addition to his administrative career, Petersen has taught a variety of undergraduate- and graduate-level courses and was an assistant professor of education at the University of Vermont (Burlington) and an associate professor of education at the University of Central Missouri.

His professional memberships include the American College Personnel Association, the American Council on Education, the National Association of Student Personnel Administrators, the Missouri College Personnel Association and the Kansas City Regional Council for Higher Education. In addition, Petersen is active in many community leadership and educational organizations.

Scans

Growing database will help future patients
— from Page 1

of the glucose than does normal tissue, making tumors readily discernable.

Not only can post-treatment PET scans reassure those patients whose tumors respond well to therapy, they also can identify those patients whose tumors have not responded so that their physicians can explore other treatment options before the cancer advances further. These options can include surgery to remove tissue, standard chemotherapy or experimental therapies available through clinical trials.

"Follow-up PET scans can also be very useful tools for physicians conducting clinical trials of new therapies," Schwarz said. "Our study has shown that the scans are predictive of long-term survival. Using PET scans, clinical researchers can get an early readout of how effective experimental treatments might be."

Schwarz and her colleagues also have a project to compare follow-up PET results with tumor biology to find out why some tumors don't respond well to therapy. In a study that won her a Resident Clinical Basic Science Research Award from the American Society for Therapeutic Radiation and Oncology, an organization of

medical professionals, Schwarz found differences in gene activity between tumors from patients that responded well and those that had persistent disease. Ongoing research will look for the significance of these differences.

The study's senior author, Perry Grigsby, M.D., professor of radiation oncology, of nuclear medicine and of obstetrics and gynecology and a radiation oncologist with the Siteman Cancer Center, has overseen a patient

database that now has PET images and tumor samples from hundreds of cervical cancer patients.

"We have a tremendous database of PET images collected from patients in the department since 1998," Schwarz said. "We want to combine these results with analyses of tumor biopsies so that we can more effectively choose additional therapies for patients who haven't responded to the initial treatment."

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Associate Vice Chancellor Steven J. Givens
Executive Editor Susan Killenberg McGinn
Editor Leslie Gibson McCarthy
Associate Editor Neil Schoenherr
Assistant Editor Jessica Davies
Medical News Editor Beth Miller
Calendar Coordinator Angela Hall
Print Production Carl Jacobs
Online Production Chris Soer

News & Comments

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

Medical News

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

Calendar Submissions

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

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Notables

Introducing new faculty members

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

Haluk Ergin, Ph.D., joins the Department of Economics in Arts & Sciences as associate professor. Ergin earned a doctorate at Princeton University in 2003 and afterward joined Massachusetts Institute of Technology's faculty as assistant professor. Ergin's research is on decision theory and matching theory. In his work on decision theory, he focuses on models in which economic agents' choices do not obey the standard rationality principles. In his work on matching, he has worked on mechanism design issues in school choice models.

Young-Shin Jun, Ph.D., will join the School of Engineering in January 2008 as assistant professor of energy, environmental & chemical engineering. She comes from the University of California, Berkeley, where she is completing her work as a postdoctoral fellow. She brings expertise in molecular scale experimentation of environmental systems to the Aquatic Processes Cluster. Before going to Berkeley, she earned a doctorate in environmental sciences and engineering from Harvard University.

Ian MacMullen, Ph.D., joins the Department of Political Science in Arts & Sciences as assistant professor. He earned a doctorate in political science from Harvard University in 2004 and then served for three years as assistant dean in WUSTL's College of Arts & Sciences. A political theorist whose primary research and teaching interests lie in the politics of education and of religious and cultural pluralism, MacMullen's first book, "Faith in Schools? Autonomy, Citizenship, and Religious Education in the Liberal State" (Princeton University Press, 2007), articulates a vision of liberal government in a pluralist society through a consideration of the fundamental principles of public education policy.

Jamie Newhard, Ph.D., joins the Department of Asian and Near Eastern Languages and Literatures in Arts & Sciences as assistant professor of Japanese. She previously was an assistant professor in the Department of Languages and Literatures at Arizona State University. She earned a master's degree and doctorate in Japanese literature from Columbia University and a bachelor of arts degree in comparative literature from Brown University. Her research interests include the history of literary scholarship, medieval and early modern reception of classical literature, history of reading, book and publishing history, gender issues in premodern Japanese literature and classical Japanese language.



Shining stars Faculty achievement award winners Carl M. Bender, Ph.D., the Wilfred R. and Ann Lee Konneker Distinguished Professor of Physics in Arts & Sciences, and Helen M. Pivnick-Worms, Ph.D., professor of cell biology and physiology and of internal medicine at the School of Medicine, share a light moment during the award ceremony Dec. 1 at the Bryan Cave Moot Courtroom in Anheuser-Busch Hall. Bender received the Arthur Holly Compton Faculty Achievement Award, and Pivnick-Worms was presented with the Carl and Gerty Cori Faculty Achievement Award. Both professors received plaques and gave presentations of their scholarly work during the program, which was followed by the Chancellor's Gala at the Charles F. Knight Executive Education Center.

Association for Student Judicial Affairs names King president-elect for 2008

By NEIL SCHOENHERR

Tamara L. King, J.D., director of Judicial Programs, has been named president-elect of the Association for Student Judicial Affairs (ASJA), an international organization that helps to promote, encourage and support student development professionals who have responsibility for student judicial affairs.

King will be the organization's first African-American president.

"Being elected to ASJA, the premiere authority in higher education for student conduct administration, will provide me with a wonderful professional experience," King said.

"I have been able to devote time to ASJA due to the encour-

agement and support I have received from Justin Carroll, assistant vice chancellor for students and dean of students, and the entire University community. I am excited to be in a position to shape the future of student conduct administration on an international level," King said.



King

King will serve as president-elect in 2008 for one year before becoming president in 2009 for one year.

At the University since 1999, King is responsible for working with students, faculty and staff to

establish and promote community expectations for University students.

As a part of this role, she manages the process of working with students who do not meet expectations.

She also serves as the primary interface between the residential colleges and other University programs and services.

King earned a law degree from the New York University School of Law in 1988 and a bachelor of arts degree in political science from Pennsylvania State University in 1985.

ASJA has more than 1,200 members in the United States and Canada, representing more than 750 institutions of higher education.

For the Record

Of note

Pratim Biswas, Ph.D., the Stifel and Quinette Jens Professor and chair of the Department of Energy, Environmental & Chemical Engineering, has received a one-year, \$26,880 grant from Aginova Inc. for research titled "Networked Portable Personal Aerosol Sensors." ...

Kim A. Carmichael, M.D., associate professor of medicine in the Division of Endocrinology, Metabolism and Lipid Research, has been elected to the board of the American Diabetes Association (ADA) in St. Louis. He sees patients at the Washington University Diabetes Center at Barnes-Jewish Hospital. He will serve a three-year term on the ADA board. ...

Douglas A. Wiens, Ph.D., professor of earth and planetary sciences, has received a four-year, \$441,000 grant from the National

Science Foundation for research titled "Collaborative Research: A Broadband Seismic Experiment to Image the Lithosphere Beneath the Gamburtsev Mountains and Surrounding Areas, East Antarctica."

Speaking of

John Drobak, J.D., the George Alexander Madill Professor of Law, professor of economics in Arts & Sciences and director of the Center for Interdisciplinary Studies, and **John O. Haley**, J.D., the Wiley B. Rutledge Professor of Law, spoke at the Conference of the Global Economic History Network in Utrecht, The Netherlands, on Sept. 20-22. Drobak was the discussant for the first panel of the conference. Haley's presentation was titled "Law's Evolution: Why Private Law Thrives in Western Europe and Japan." ...

Carter C. Revard, Ph.D., professor emeritus of English in Arts & Sciences, gave a paper titled "Translating (or Pixelating) an Anglo-Norman Misogynist's Monologue Into Modern English (Hip-Hop) Verse" at the The Tenth Cardiff Conference on the Theory and Practice of Translation in the Middle Ages. The conference — titled "Lost in Translation?" — was hosted by the Université de Lausanne, Switzerland, July 17-22. Revard did further research on medieval manuscripts in July and August at the British Library in London and at the Bodleian Library in Oxford.

Notables policy

To submit Notables for publication in the *Record*, e-mail items to Jessica Daues at jessica_daues@wustl.edu or fax to 935-4259.

HP grant supports expansion of tablet PCs into humanities, social sciences

The Teaching Center, in collaboration with faculty in the Departments of Education and History, both in Arts & Sciences, and Geospatial Information Systems (GIS), has received an educational grant from Hewlett-Packard (HP) that will provide 40 tablet PCs to assist WUSTL instructors in teaching.

The grant supports the expansion into the humanities and social sciences of teaching methods developed by the Department of Chemistry in Arts & Sciences and The Teaching Center with the help of a 2005 HP grant.

The most recent grant includes \$15,000 in cash, plus HP technology — including the 40 wireless tablet PCs — valued at approximately \$107,000.

The project supported by the grant — led by Aaron Addison, University GIS coordinator; Regina Frey, Ph.D., director of The Teaching Center and senior lecturer in chemistry in Arts & Sciences; Tim Parsons, Ph.D., professor of history and of African and African American Studies, both in Arts & Sciences; and R. Keith Sawyer, Ph.D., associate professor of education and of psychology, both in Arts & Sciences — will enable the students to use tablet PCs to perform active-learning exercises that can improve their learning and group work and that can help them develop skills essential to effective collaboration.

"From our previous grant in chemistry, we found that students' scores on homework improved and in-class student participation increased when specialized software was introduced via in-class exercises versus outside use only," Frey said.

"We want to apply this teaching methodology to our application of GIS in many disciplines and computer-supported collaborative-learning software in education," she said.

The 2007 HP grant plays a significant role in the GIS initiative. One set of the tablet PCs is being used as a mobile GIS lab for in-class GIS training.

This fall, faculty in the Department of Earth and Planetary Sciences in Arts & Sciences used this cart to teach students how flood maps are created.

The second set of tablet PCs will be used in the 2008 spring semester by Parsons, who is incorporating a GIS unit in his course "International and Area Studies 180: International Development" — a core, freshman-focus course in the International Leadership Program.

Washington University was one of 10 U.S. institutions of higher education that received the grant this past year.

Faculty interested in using the HP tablet PCs in their classrooms should contact Frey at 935-7474.

Faculty interested in using the mobile GIS lab should contact Addison at 935-6198.

Obituary

Perkins, 91

Howard Joseph Perkins, Washington University police officer from 1973-1981, died Saturday, Nov. 24. He was 91.

Washington People

What started as preparation for a worst-case scenario has evolved into a varied and distinguished legal career for Peter Joy, J.D., professor of law.

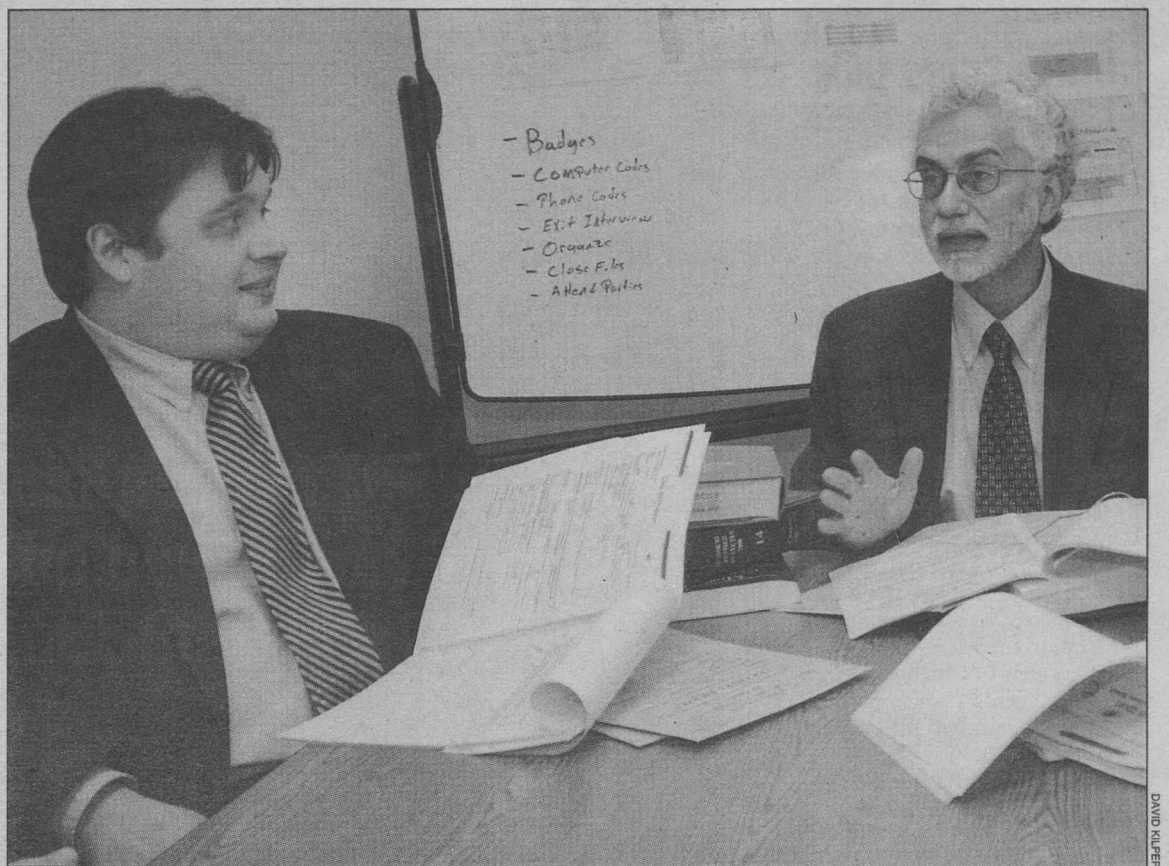
Joy originally began thinking about his future after seeing his father lose a job that he had for nearly 19 years at a pipe-wrapping plant outside of Youngstown, Ohio.

"I knew I wanted to do something where I felt that I could make a difference in people's lives but also some kind of a profession where, if needed, I could do it on my own," said Joy. "Watching my father go through a job loss in his early 50s due to a plant closure made me look for a career where I wouldn't have to rely on someone else for a paycheck."

Law ended up being the perfect path for Joy.

Clinical pioneer

During law school at Case Western Reserve University, Joy was part of the first group of students that participated in an in-house clinical law program. After working with a nonprofit civil rights organization in Atlanta, Joy returned to teach and work in the clinical program at the Case



Third-year law student Sam Rodriguez (left) discusses a case with Peter Joy, J.D., professor of law and director of the Criminal Justice Clinic, at the St. Louis County Public Defender's Office in Clayton, Mo. The clinic provides students an opportunity to put into practice what they are learning in the classroom. Says Emily Hughes, J.D., associate professor of law and a colleague at the Criminal Justice Clinic, Joy "is committed to helping students develop into top-notch professional, ethical attorneys."

Man of the people

Peter Joy's dedication and experience benefit both students and those in need

Western Reserve University School of Law.

"I was interested in the position because the clinical program was the course in law school that I enjoyed the most," he says.

After teaching in the clinic at Case Western for a few years, Joy developed an interest in legal ethics and started teaching that course as well.

In 1998, Joy joined the Washington University School of Law faculty, where he teaches clinical courses in the clinical program as well as "Trial Practice" and legal ethics courses. He is past president of the Clinical Legal Education Association and past chair of the Association of American Law Schools' Section on Clinical Legal Education.

"Peter Joy is an internationally recognized clinical lawyer, teacher and scholar," says Karen Tokarz, J.D., professor of law and director of the law school's Clinical Education and Alternative Dispute Resolution Programs.

"He is widely acclaimed for his expertise in clinical theory, ethics, trial practice and criminal justice," Tokarz says. "Peter is passionate about his clients, his students and his research. He is a prince of a guy and one of the best colleagues anybody could ask for. Washington University is so lucky to have him. Our law school's clinical program is consistently ranked in the top five in the country, in no small part be-

cause Peter is a member of our faculty."

Joy heads the law school's Criminal Justice Clinic, which is based in a suite of offices in the St. Louis County Public Defender's Office in Clayton, Mo. Clinic students represent indigent persons charged with crimes who are being represented through the Public Defender's Office. Students handle bond hearings and preliminary hearings on felony cases and all aspects of misdemeanor cases.

"Clinical education is something I really enjoy," he says. "It's very time-consuming and can be a very intense experience. It's like doctors in medical schools working with interns or residents. You see students really put the theory they are learning into practice and grapple within the ethical dimensions of legal practice."

"This is really the most satisfying work that I could be doing," he says. "I get the benefits of working with students who are seeing cases for the first time and seeing how to put together a case for a client. It blends what I enjoy about the practice of law with the personal satisfaction of being a teacher."

Emily Hughes, J.D., associate professor of law and Joy's colleague at the Criminal Justice Clinic, says that Joy "is committed to helping students develop into top-notch professional, ethical attorneys."

"By teaching students the self-reflective process of learning from their experiences, he empowers students to continue learning long after they have graduated from law school," she says.

Joy also engages in international clinical work. He has collaborated with law faculty in Japan about clinical legal education and legal ethics issues and has lectured for a number of law schools around Japan.

Broad impact

At the law school, Joy says he does every type of teaching there is.

"Simulation, live client, clinic, large classroom and small seminar classes — I enjoy the variety," he says.

Joy's positive impact on the school is reflected in the response from students.

"I read the teaching evaluations that students fill out in the law school," says Kent D. Syverud, J.D., dean of the School of Law and the Ethan A.H. Shepley Uni-

versity Professor. "Peter Joy's evaluations always make me proud of the work our faculty does with students inside and outside the classroom. He is a gentle, wise and firm mentor who helps students exceed what they thought was their potential."

Joy enjoys seeing students acquire knowledge and skills over the course of the semester.

"I see the most professional development in my students in the clinic, where students provide actual representation to clients, and also in the 'Trial Practice' class, where they learn how to try a case to a jury," he says. "This development also happens in classroom courses, too, where by the end of the semester, students are proficient in the subject studied."

Equal justice

The driving force behind Joy's broad experience, whether in clinical or private practice, is access to equal justice.

"I've had the great fortune to work on so many cases that I've really enjoyed," he says. "It's funny; in this era of specialization, I think I am probably one of the last lawyers who enjoys handling a diverse range of cases."

Joy has worked on interesting adoptions, including the adoption of a 61-year-old woman, as well as political asylum cases, cases with battered women, foreclosures, consumer cases, first amendment cases and landlord/tenant issues.

Recently he has done pro bono work regarding academic freedom as it relates to law school clinical programs across the country.

"The latest victory involved a law school environmental law clinic that came under attack from the logging industry to the point where the university was considering shutting down the clinic," Joy says. "Fortunately, a combination of public opinion and the funders for the environmental law clinic basically said that the clinic work was important, and the university did not buckle under to the big-business interests."

Joy notes that the Washington University clinical law program has a real access-to-justice focus.

"Every one of the clinics provides legal representation to persons unable to afford to hire lawyers, and scores of clients each year are helped on a variety of issues," he says. "Without the clinical students and faculty handling their cases, many clients would find the courthouse doors closed

to them."

Joy also appreciates the interdisciplinary efforts of the law school on both the clinical and nonclinical fronts.

"It's wonderful that we have such close contact with other schools on the Danforth Campus," he says. "It's not unusual to see collaborative work being done with faculty members from outside schools and departments like engineering, social work and political science."

Outside the University and the courtroom, Joy enjoys reading, hiking and traveling.

"I switch off between reading what at least a lot of people would say is real literature and then mystery books, but I think good mystery books qualify as real literature as well," he says.

"I really like and was delighted to find the Detective Chen series of books by St. Louis-based crime novelist Qiu Xiaolong, a University alum," he says. "The last book of his that I read is called 'A Case of Two Cities.' It's set in Shanghai and in St. Louis, and Detective Chen is an Eliot scholar, so there is an interesting connection to the University."

Joy's planning and preparation has landed him in an ideal position.

"Of course, I've now been relying on someone else for a paycheck for the majority of the time that I've been a lawyer," he laughs. "But I've been able to work with an exciting group of colleagues and students while helping others."

Peter Joy

Family: Partner is Rebecca Dresser, J.D., the Daniel Noyes Kirby Professor of Law and Professor of Ethics in Medicine

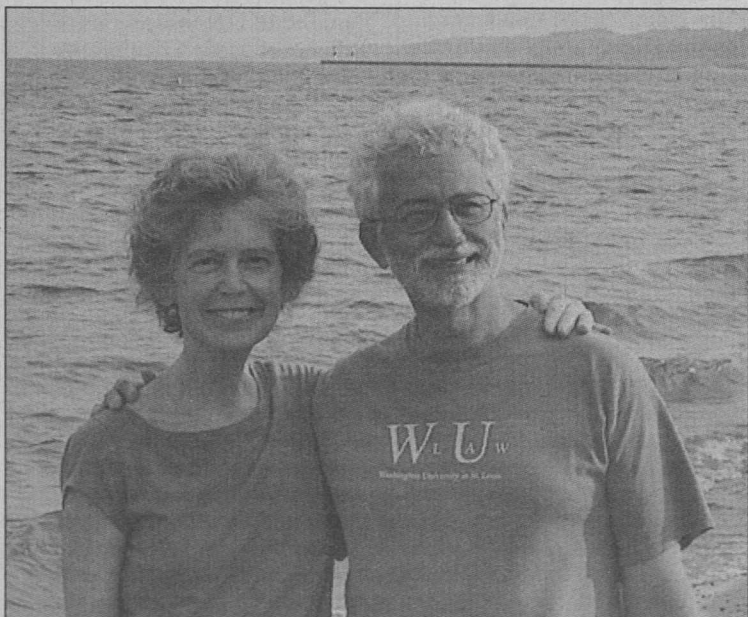
Education: A.B., education, 1974, Youngstown State University; J.D., 1977, Case Western Reserve University

Favorite travel experience: A walk-about in Australia. Joy also enjoys traveling through Japan and Europe.

Currently reading: "Shadow Family," a Japanese mystery by Miyuki Miyabe

Item of interest: Joy writes a legal ethics column for the American Bar Association's Criminal Justice magazine.

Clinical award: The Association of American Law Schools recognized Joy as the top clinical law faculty member in the United States in 2001.



Peter Joy and his partner, Rebecca Dresser, at Lake Michigan.