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Record

April 7, 2006

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Washington University in St. Louis

John Major to deliver 145th Commencement address

By ANDY CLENDENNEN

The Right Honorable Sir John Major, former prime minister of Great Britain and Northern Ireland and a leading authority on the changing global landscape, has been selected to give the 2006 Commencement address, according to Chancellor Mark S. Wrighton.

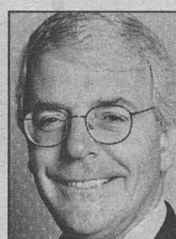
The University's 145th Commencement will begin at 8:30 a.m. May 19 in Brookings Quadrangle. Major's talk is titled "The Changing World."

"We are fortunate to have an international leader as this year's Commencement speaker," Wrighton said. "Sir John led one of

the world's great countries, and he has an extremely important perspective on international issues. I am just delighted that he has accepted our invitation to speak this year at our most important academic event."

Commencement will mark Major's second visit to campus. On April 20, 2005, he was a keynote speaker at an Olin School of Business conference exploring the international business environment.

Major was appointed prime minister on Nov. 28, 1990, and re-elected when the Conservative Party won an unprecedented fourth term in office at the general election of April 1992.



Major

Major was born in 1943 and grew up in Brixton, south London. He attended the Rutlish Grammar School but left at 16 to help support his family. He had a variety of jobs before joining Standard Chartered Bank (1965-1979), rising to the rank of bank executive.

Major became interested in politics as a teen, joining the Young Conservatives, and in 1968, won his first election to a local authority, the Lambeth Borough Council. He stood for the British Parliament twice in the

1970s, before securing election to Parliament for Huntingdon in 1979.

In Parliament, Major served in the government for 16 years, 10 of which were in the Cabinet. Commenting on his rapid rise through the ranks to prime minister, Major noted that he had only once done a government job for more than a year: he was chief secretary to the treasury from 1987-89.

His one-year positions were junior whip in 1983; senior whip in 1984; parliamentary secretary 1985; and minister of state for social security and the disabled 1986.

In July 1989, he was appointed secretary of state for Foreign and Commonwealth Affairs. See Major, Page 6

Researchers study effects of adolescent weight loss

By JIM DRYDEN

School of Medicine researchers are studying how fatty liver disease affects sugar and fat metabolism in overweight adolescents and how losing weight affects the condition.

In the past 30 years, the number of overweight children has doubled in the United States, and overweight children are at increased risk for the problem.

In fatty liver disease, fat accumulates in liver cells. A patient is diagnosed with fatty liver when there is more than 5 percent fat in the liver.

In children and adolescents, fatty liver is most common in those who are overweight, but it also can occur in young people with diabetes or, less commonly, with other conditions.

Those with fatty liver disease may have an enlarged liver or elevations in liver enzymes. Most do not have obvious symptoms, but some may complain of fatigue, malaise or vague abdominal pain

that can bring them to the attention of a physician. If fatty liver goes untreated and risk factors are not controlled, a small percentage of young people may progress to liver scarring or even liver failure.

Fatty liver disease is thought to affect about 20 percent of the population in the developed world, but like type 2 diabetes, it has been uncommon in young people until recently.

"The prevalence of fatty liver disease is increasing in children because of the marked increase in childhood obesity," said Samuel Klein, M.D., the Danforth Professor of Medicine and Nutritional Science, director of the Center for Human Nutrition and chief of the Division of Geriatrics and Nutritional Sciences at the School of Medicine. "We are evaluating how excess fat in the liver impairs liver function and can contribute to high blood sugar and abnormal blood lipids."

Klein and his colleagues are studying children ages 13-17. Participants in the study cannot have diabetes or weigh more than 300 pounds; liver disease and a history of excessive alcohol use also make a person ineligible.

See Liver, Page 6



Klein



Honoring Ibby A student chats with (from right) Justin X. Carroll, assistant vice chancellor for students and director of residential life, and William H. Danforth, Life Trustee and chancellor emeritus, at a tree-planting ceremony April 4. Students from the William Greenleaf Eliot College Council planted a Katsura tree (foreground, left) in honor of Elizabeth "Ibby" Gray Danforth in front of Elizabeth Gray Danforth House on the South 40. The tree replaces one that blew over a couple of years ago. Andrew O'Connell, a junior resident adviser in William Greenleaf Eliot Residential College, and A.J. Singletary, president of the council and a Danforth Scholar, each delivered remarks at the ceremony, which was attended by several staff and students. "When you had the chance to meet with (Ibby), you not only knew you were in the presence of great person, but she made you leave feeling that you were a great person yourself," Singletary says. "I like to think that this tree will symbolize these same characteristics to students, providing a bright greeting or a haven for reflection. Just as this tree shall continue to grow in our residential college, the legacy of Elizabeth Danforth will continue to grow and benefit our University community well into the future."

Pollinators especially needed in areas of high plant diversity, biologists say

By TONY FITZPATRICK

Mother Nature could use a few more good pollinators, especially in species-rich biodiversity hotspots, according to a recent study in the *Proceedings of the National Academy of Science*.

Tiffany Knight, Ph.D., assistant professor of biology in Arts & Sciences, Jana Vamosi, Ph.D., postdoctoral associate at the University of Calgary, and their collaborators have performed an exhaustive global analysis of more than 1,000 pollination studies that included 166 different plant species.

They found that, in areas where there is a great deal of plant diversity, plants suffer lower pollination and reproductive success. For some plant species, this reduction in fruit and seed production could push them toward extinction.

One reason that pollen becomes limiting to plants in re-

gions of high diversity may be increased competition between the plants — there are more plant species vying for the services of pollinators.

Also, when there are a lot of species around, plants become more separated from other individuals of the same species, causing pollinators to have to fly long distances to deliver pollen. When pollinators do arrive, they may deliver lots of unusable pollen from other plant species.

Knight and her colleagues found this pattern to be especially true for species that rely heavily on pollinators for reproduction — those that require out-crossing — and for trees, in relation to herbs or shrubs, because individuals of the same species tend to be separated by large distances when species diversity is high.

To test for pollen limitation of each plant species, scientists added pollen to a number of

plants and compared them with control plants that were pollinated naturally. Vamosi, Knight and their colleagues created a database of more than 1,000 worldwide pollination experiments.

"If pollinators are doing a good job, you wouldn't expect a treatment effect," Knight said. "But for some of our plants, we saw a huge treatment effect. We saw that a lot of the plants are incredibly pollen-limited."

"Biodiversity hotspots, such as tropical rainforests, are a global resource — they are home to many of the known plants used for medicine and may be a source for future cures, and they absorb huge amounts of carbon dioxide and generate volumes of clean oxygen."

"Our research suggests that plants in these areas are also very fragile. They already suffer from low pollen receipt, and future

See Pollinators, Page 6

Truman Scholarship goes to Arts & Sciences junior

By NEIL SCHOENHERR

Arts & Sciences junior Laura Kleinman has been awarded a 2006 Harry S. Truman Scholarship.

Each scholarship provides \$30,000 — \$3,000 for the student's senior year and \$27,000 for two or three years of graduate study. The program is open to juniors interested in public-service careers.

Truman Scholars are selected based on academic performance, leadership and dedication to public service.

Seventy-five scholars were selected this year from 598 candidates, who were nominated by 311 universities.

Scholars also receive priority admission and supplemental fi-



Kleinman

nancial aid at some premier graduate institutions, along with leadership training, career and graduate-school counseling and special intern-

ship opportunities within the federal government.

Kleinman said she is honored to have been awarded such a prestigious scholarship.

"I feel privileged to become part of a community of such exceptional students," she said.

"The kids I met when I interviewed as a finalist are not only academically motivated, but also

See Kleinman, Page 6

Academic Year Highlights: A Letter From Chancellor Wrighton

Dear Colleagues:

As this academic year comes to an end I want to share with you plans the University is initiating shortly after Commencement, and I also want to review with you some of the achievements and milestones of the past academic year.

As always, I am proud to work with such an exceptional group of faculty, staff, and students. All of you are working hard so that we might all enjoy the benefits of our diverse campus community, our academic accomplishments, and the knowledge that we are expanding the intellectual resources of the world. Each and every one of us makes a contribution to the benefit of this community, and we strive to create and maintain an atmosphere in which all of us can be productive contributors to the process of learning, discovery, and service.

The strength of Washington University is built from the work and creative efforts of our faculty and students, and I am proud that we now have more than 20 departments and academic areas that are ranked by external validators in the top ten in the nation. But the continuing improvement of our research and scholarly activities goes beyond academic honors as measured in rankings, prizes, and memberships in national and international academies.

Throughout the past year many of our students have been recipients of scholarly honors and awards that will carry them forward into graduate study and postdoctoral activities. In the last few days, for example, Laura Kleinman was awarded a Truman Scholarship for graduate study toward promising careers in public service and Jessica Friedman was named a Udall Scholar for her commitment to and previous work on the environment. Both are juniors in Arts & Sciences. Outcomes like these are the result of a dedicated community that works toward success for all of its members, and that is why I treasure the opportunity to lead this University and to see us collaborate with one another to make such good things happen.

We continue to grow in strength and quality. While there are 25,000 members

in our community — faculty, students, and staff — we put great emphasis on the individual and on the development of each person's capabilities and contributions to the University as a whole.

It is for all of these reasons that I am pleased that we have decided to especially recognize one long-standing member of the community, his family, and the family foundation. Bill Danforth in particular embodies the very qualities I honor here. The renaming of the Hilltop as the Danforth Campus will serve as a testament to the ability of individuals to affect meaningful and significant change. The Danforth legacy has enabled us to create extraordinary scholarships, facilities, and operating resources to build on our century-and-a-half of momentum and the half-century legacy represented by Bill Danforth as a teacher, scholar, researcher, administrator, and visionary.

Just last week we unveiled a "Benefits Plan for the Future," which will provide a more flexible and complete benefits program for all of our faculty and staff. We continue to address the nationwide pressures faced by institutions regarding cost containment, while remaining competitive in our compensation, tuition and fees, and our overall benefits package. Specifically, we are addressing retirement savings plans, tuition assistance, the rising costs of health insurance, health savings accounts, and retiree health insurance.

At a time when the news media report challenges to retirement and pension funds, as well as dramatic reductions in health benefits and downsizing, Washington University continues to have a healthy and strong enterprise that must continue to serve all those who work here, from those devoted to support and administrative functions to those who are rewarded for exceptional skills and talents providing life-saving healthcare, cutting-edge technological discoveries, and great teaching and scholarship. Every member of the community can make a positive contribution to enhance our quality and impact, and all should share in the benefits that stem from our collective efforts. That said, we also are pledged to the careful and prudent stewardship of the resources that

are provided to us through tuition paid by students and their families, research support from government and foundations, gifts from alumni and friends, and support from clinical services derived from our physicians and partner hospitals. Our wise use of these resources assures our continuing strength as we look to the future and meet the challenges of the era ahead.

The University remains committed to environmental responsibility and to finding ways to conserve energy while providing greater service. Starting this summer we will be providing qualifying faculty, students and staff with all-points Metro passes that will allow them free access to MetroLink and MetroBus on both sides of the river in urban and suburban Illinois and Missouri. Five MetroLink stops will serve our campuses so that everyone from our lower-paid workers to distinguished faculty can now opt for public transportation paid for by the University. We are especially pleased that we are able to make these passes available to employees of our contracted companies — a group of workers to whom we have made commitments to help improve wages and to provide greater access to benefits.

This past year I am proud that we were able to develop a generous entry-level wage that is well above starting average hourly compensation levels in the St. Louis region. We also are working hard to provide access to healthcare for contracted company workers who are such a vital part of the University's operation. In the coming year we will provide additional significant funds toward continuing the improvement of circumstances for lower-paid workers. To this end we are committed to fair labor practices respecting those who work for the University, as well as those who work for contractors providing services to our community.

As we make progress in serving our community, we are mindful of the challenges presented by improving the University's infrastructure. I am pleased that we are going to initiate several important construction projects following commencement, including the first stage in our longer-term plans to construct a

much-needed University Center. Before we are able to start construction of a University Center in about two years, we must first construct an underground garage for up to 500 cars. Construction on this project will begin after Commencement and will represent a half-year of excavation and removal of materials to make this possible. This will be a temporary challenge, and I ask for our community's patience in this first step toward constructing the University Center for our students. And as always, there will be continuing smaller projects, such as an extension to The Village parking facility and improvements to heating and cooling delivery systems.

Over the summer we will see the completion of our long-awaited Mildred Lane Kemper Art Museum and Earl E. and Myrtle E. Walker Hall at the Sam Fox School of Design & Visual Arts. We will be announcing dedication plans soon as we anticipate the important contribution these facilities will make not only to arts and design education, but also as a resource for the entire St. Louis region through the University's exceptional collection of fine art — much of which has not been exhibited because of limited gallery space.

Most importantly, I want to thank each member of this community for the role that you play in making this such a fine place to study, live and work. The accomplishments of the past year and the promise of the next embody the rich tradition of more than 150 years and a future filled with discovery of the unknown, new interpretations of what is known, creative achievements, basic understanding of the human organism and cures for its afflictions. This is why our enterprise is so important and why I personally thank you for your engagement and commitment to the future of Washington University.

Sincerely,

Mark S. Wrighton

Mark S. Wrighton
Chancellor

Biological sciences jumps into top 10 in U.S. News rankings

By ANDY CLENDENNEN

For the first time, biological sciences at Washington University has cracked the top 10 of the *U.S. News & World Report* rankings of graduate and professional programs, to be released April 3.

Biological sciences — which includes biology in Arts & Sciences, biomedical sciences in the School of Medicine and biomedical engineering in the School of Engineering & Applied Science — jumped five places, from a tie for 14th to a ninth-place tie with Princeton University and the University of California, San Francisco.

Ralph S. Quatrano, Ph.D., chair of the executive council of the Division of Biology and Biomedical Sciences and chair of biology, said: "We are glad to see recognition of our strong programs across the whole University in biology and biomedical science, medicine and engineering."

Twenty WUSTL schools, academic areas and departments at the graduate and professional level now hold top-10 rankings by *U.S. News*. For a complete list of these rankings, go online to news-info.wustl.edu/rankings.

The School of Medicine had several academic areas rise significantly in the rankings. The *U.S. News* areas of immunology/infectious diseases and molecular biology both tied for fifth; genetics/genomics/bioinformatics and microbiology both tied for sixth, and pediatrics remained at sixth in the nation. Internal medicine ranked seventh, cell biology ninth, and drug and alcohol abuse and women's health both ranked 10th.

In addition, the School of Medicine ranked fourth overall among research-oriented medical schools and continues to rank No. 1 in the nation in selectivity, based on both college grade-point averages and MCAT scores.

"We are pleased and gratified that these rankings continue to place us

among the top few medical schools in the country," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "We take especially great pride in our medical students, who again this year achieved the highest scholastic ranking in the country."

Within the School of Law, trial advocacy was ranked in a tie for seventh, while clinical training was ranked No. 4. The School of Law entered the top 20 for the first time, climbing from a tie for 24th last year to a tie for 19th this year.

The M.B.A. program in the Olin School of Business climbed six places, from a tie for 32nd last year to a tie for 26th this year.

"We are pleased about the improvement in the rankings, but we don't feel the numbers accurately reflect the value of Olin," said Mahendra K. Gupta, Ph.D., dean of the Olin School of Business and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management.

"We are on a fast trajectory to be a world leader in management education and research. Our goal is to consistently bring innovation and new ideas into the classroom and to the M.B.A. marketplace as a whole."

The School of Engineering & Applied Science rose one place to a tie for 33rd, while earth sciences in Arts & Sciences was ranked No. 25 in a first-time ranking.

Overall, 40 graduate and professional academic areas at the University are ranked by *U.S. News* in its top 25.

The newsstand book *America's Best Graduate Schools* will hit newsstands April 3.

The *U.S. News* rankings can also be found online at www.usnews.com/usnews/rankguide/rghome.htm.

Many of the 2006 rankings are in the April 10 *U.S. News* magazine, also available at newsstands April 3.



Radhika Regmi Pokharel (left), coordinator and trainer for the Community Mediation Program of the U.N. Development Program's Mainstreaming Gender Equity Programme in Kathmandu, meets with students during a recent alternative dispute-resolution class.

Nepali lawyers visit School of Law to help foster mediation programs

A delegation of law faculty and public-interest lawyers from Kathmandu, Nepal, recently visited the School of Law for two weeks through a U.S. State Department exchange designed to develop mediation programs in Nepal.

The visitors made presentations to law school faculty and students on community mediation, legal education and the legal profession in Nepal.

In turn, the delegation received advanced mediation training and met dispute-resolution providers in the St. Louis area, including private mediators and those with the family and juvenile courts. The delegation also networked with University faculty, participated in law school classes and special events, and attended the American Bar Association Alternative Dispute Resolution Conference in Atlanta.

"In Nepal, we have been successfully implementing community mediation programs," said Yubaraj Sangroula, executive director of the Kathmandu School of Law. "However, we

gained many new ideas from the mediation programs in the U.S., which focus on consumers, juveniles and victims.

"The partnership with Washington University will bear fruits for both countries in the future."

In addition to Sangroula, members of the delegation were:

- Sudeep Gautam, coordinator of the LL.M. Business and International Trade Law Program for Kathmandu School of Law and program coordinator of the Community Mediation Program at the Center for Legal Research and Resource Development;

- Radhika Regmi Pokharel, coordinator and trainer for the Community Mediation Program of the United Nations Development Program's Mainstreaming Gender Equity Programme in Kathmandu; and

- Ratna Kaji Shrestha, human rights lawyer and mediation trainer for the Forum for Women, Law and Development in Kathmandu.

"The program design for our exchange

See Nepal, Page 6

School of Medicine Update

Vitamin D may ease joint pain in breast cancer patients taking Arimidex

BY GWEN ERICSON

Giving vitamin D supplements to breast cancer patients taking the drug Arimidex to prevent recurrence of their disease may ease bone, muscle or joint pains that they sometimes suffer, according to WUSTL physicians.

Now these physicians, who treat patients at the Siteman Cancer Center and Barnes-Jewish Hospital, are seeking to confirm their clinical observations in a controlled study, and they are calling for participation by women taking Arimidex (whose chemical name is anastrozole) who have musculoskeletal pain.

Arimidex is an aromatase inhibitor, which completely blocks production of estrogen, the hormone implicated in the growth of many breast tumors.

"Arimidex has been shown to be even better than tamoxifen (whose brand name is Nolvadex) in protecting breast cancer patients from recurrence of cancer, so now most patients with estrogen-receptor-positive breast cancer receive Arimidex," said Antonella Rastelli, M.D., instructor in medicine. "Unfortunately, about one-third of patients on Arimidex will experience significant joint tenderness, stiffness or muscle or skeletal pain."

Rastelli's colleague, Marie Taylor, M.D., assistant professor in radiation oncology, has found that many patients with these symptoms also have below-optimal levels of vitamin D in their blood, and when given vitamin D supplements, these patients often have a complete resolution of their pain.

Rastelli and Taylor are initiating a double-blind, placebo-controlled study of Arimidex takers with muscle and bone pain to try to confirm the connection between vitamin D supplementation and pain relief. Half of the study participants will receive a high-

dose vitamin D supplement once a week while the other half will receive a placebo. Questionnaires that the patients fill out before and during the six-month study will allow the researchers to assess the effect of high-dose vitamin D on patients' musculoskeletal pain.

"We aren't certain why Arimidex would be associated with low levels of vitamin D, but scientists theorize that the drug depletes the body's stores of vitamin D by interfering with enzymes in the liver that process the vitamin," Rastelli said. "It's also interesting to note that vitamin D is scarce in most people's diets, coming mainly from whole milk, liver and fatty fish. The majority of vitamin D is produced in the skin in reaction to sunshine, but increasing avoidance of the sun and the use of sunscreens reduce that source, so it is relatively easy to become vitamin D-deficient."

Vitamin D has wide-ranging effects in the body, including regulating cell growth, immune function, blood pressure and insulin secretion. It also is essential for calcium absorption and so is involved in maintaining bone health.

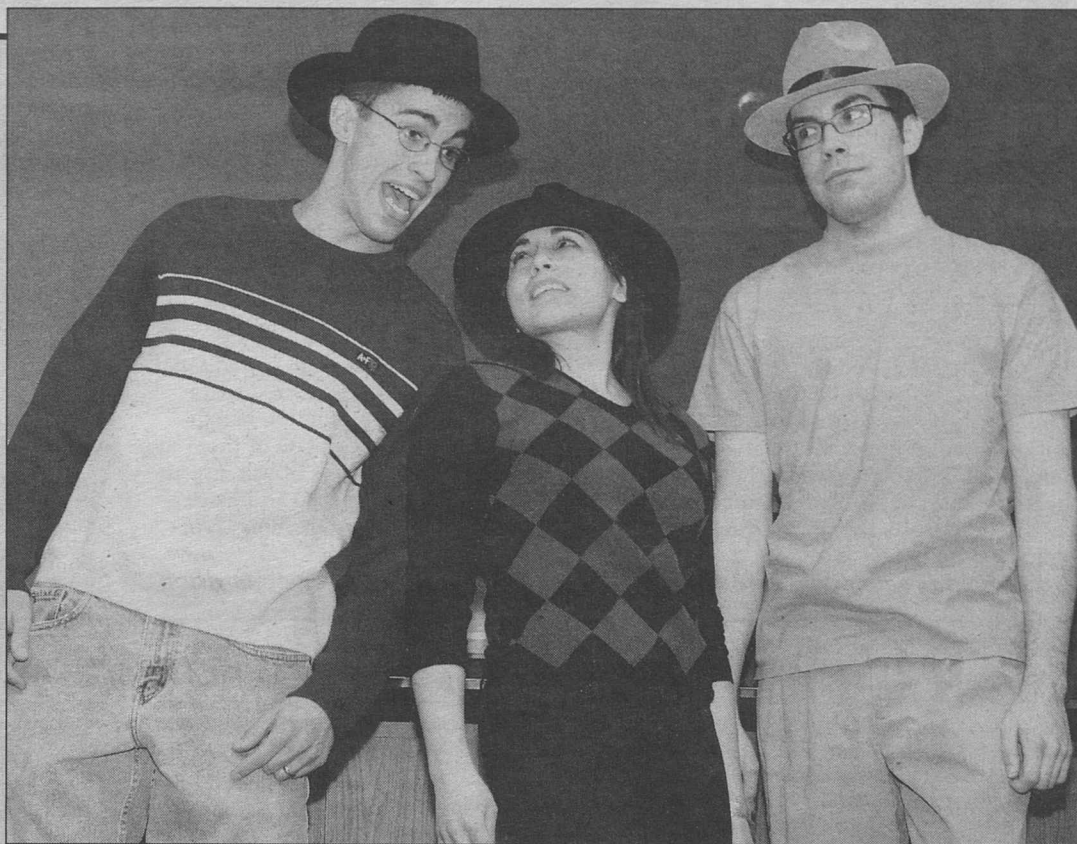
All patients participating in the study will receive daily calcium and low-dose vitamin D supplements equivalent to the recommended daily allowances in addition to their weekly vitamin D supplement or placebo. All participants will also receive a bone density scan.

Women are eligible to participate in the study if they have completed at least eight weeks of Arimidex therapy and have generalized musculoskeletal pain with or without localized areas of discomfort that have developed or worsened since starting Arimidex therapy.

To participate or to obtain more information, call 362-2529 or 747-3056.



Rastelli



Luck be a lady Medical students (from left) Chris Sumey, Michelle Moniz and Andy Zimolzak rehearse *Guys and Dolls*, which runs at 8 p.m. April 7-8 and at 2 p.m. and 8 p.m. April 15 at Moore Auditorium in the North Building at 4580 Scott Ave. For more information, e-mail Dana Sacco with the School of Medicine Arts Commission at saccod@msnotes.wustl.edu.

Kelle Moley is named vice chair for research in obstetrics and gynecology

BY DIANE DUKE WILLIAMS

Kelle H. Moley, M.D., associate professor of obstetrics and gynecology, has been named vice chair for basic science research and director of the Division of Basic Science Research in the



Moley

Department of Obstetrics and Gynecology at the School of Medicine. George A. Macones, M.D., the Mitchell and Elaine Yanow Professor and head of the Department of Obstetrics and Gynecology at the School of Medicine and chief of obstetrics-gynecology at Barnes-Jewish Hospital, made the announcement.

"Dr. Moley is one of the finest reproductive biologists in the world and is well-positioned to lead this critical effort in the department."

GEORGE A. MACONES

"Dr. Moley is one of the finest reproductive biologists in the world and is well-positioned to lead this critical effort in the department," Macones said. "The University community will benefit from Dr. Moley's leadership and vision in her new position."

Moley will be responsible for developing a strategic plan and direction for the new division and enhancing the current program in reproductive science.

Moley, who also is associate professor of cell biology and physiology, is one of a handful of people in the world studying the effects of maternal type 1 and type 2 diabetes on the implantation and development of mice embryos. Her work has established that short-term exposure to high concentrations of glucose or insulin during the first 72 hours after fertilization is enough to alter the embryos and result in the increase in congenital malformations and miscarriages, as seen in women with diabetes and other metabolic disorders.

She also is known for cloning and characterizing two novel glucose transporters, GLUT8 and GLUT9, the latter of which she

discovered in collaboration with her husband, Jeffrey Moley, M.D., professor of surgery. Her work on these proteins demonstrates altered location and expression of these transporters in response to insulin exposure and diabetes, respectively.

Her research has impacted the understanding of reproductive performance and glucose utilization in diabetic animal models and how this may be applicable to the pathophysiology of diabetes in humans.

Moley is director of the Fellowship Program in Reproductive Endocrinology and the Clinical Mentorship Program for the University's Markey Pathway, a graduate program that provides students with a deeper understanding of the nature of disease. She also is co-principal investigator on a National Institutes of Health grant to train future reproductive biologists.

She joined the University faculty in 1992 as an instructor in obstetrics and gynecology and as a postdoctoral fellow in cell biology and physiology after a residency and fellowship at the School of Medicine.

Cervical tumors can be detected using PET scans

BY GWEN ERICSON

Cervical cancers that take up a lot of blood sugar, or glucose, are more resistant to treatment than those that are less glucose-hungry, according to School of Medicine research.

Scientists also found that the high glucose-uptake tumors can be identified with PET scans, which are already routinely used to determine tumor size and lymph-node involvement in cervical cancer patients.

PET scans monitor the amount of a radioactive glucose tracer absorbed by cells, so the brightness of the image reveals how much glucose a tumor takes up. The research team's analysis indicates PET scans can be used to better determine prognosis in cervical cancer patients.

"Cervical tumors vary more in their glucose uptake than other kinds of cancer, making glucose uptake a very useful indicator for cervical cancers," said Perry W. Grigsby, M.D., professor of radiation oncology, of nuclear medicine and of obstetrics and gynecology. "We found that the tumors with higher uptake were associated with lower survival rates and lower disease-free survival rates."

In a report published in the April issue of *Gynecological Oncology*, the researchers summarized their findings for 96 cervical cancer patients who underwent PET scans before radiation and chemotherapy were initiated.

Analysis showed that 71 percent of patients whose tumors had a glucose uptake value below the median value of 10.2 survived five years without a recurrence of their disease. In contrast, 52 percent of those whose glucose uptake measured above 10.2 went for five years without a recurrence.

Since submitting their findings, the team has continued its investigation with nearly 250 additional patients. The trend of lower five-year disease-free survival with higher tumor glucose uptake has been born out in the additional patients.

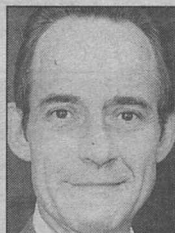
Further, the continuing study has clearly demonstrated that the overall (disease-free and disease-recurring) five-year survival rate was lower in the group of patients whose tumor glucose uptake was above the median of 10.2.

"Our clinical experience has taught us that standard therapy, which includes both chemotherapy with cisplatin and radiation treatments, doesn't seem to be able to cure these cancers if their glucose metabolism is high," said Grigsby, a radiation oncologist with the Siteman Cancer Center. "We don't yet know what therapy will be more effective in these cases. For the time being, we're closely watching the response of the tumor to treatment and surgically removing the tumor and surrounding tissue when necessary."

To improve treatment options in the future, Grigsby is initiating a study to uncover the cellular mechanisms that are altered in tumors that uptake a lot of glucose.

"I've looked at the proteins that transport glucose into tumor cells, and I haven't seen any significant differences between the glucose transporters in tumors with high glucose uptake and those with low glucose uptake," Grigsby said. "So we're taking a different approach."

"We're going to biopsy tumors over the course of treatment," Grigsby said. "Then we'll look for which genes change activity during treatment. If we can find predictable changes, they may lead us to better treatments for the more-resistant cervical tumors."



Grigsby

Diabetes Research and Training Center provides grant funding

The Diabetes Research and Training Center in the School of Medicine is offering grant funding to faculty members who conduct research in diabetes and endocrinology.

Applicants from the basic sciences, epidemiological and behavioral science departments are especially encouraged to apply.

Researchers at the Hilltop Campus also are eligible to apply for funding, which will begin Dec. 1.

The grants range from \$20,000-\$50,000 annually and

run for a two-year period, based on an approved progress report.

The center's pilot and feasibility program fosters projects required to develop preliminary data, which could lead to independent research supported by the National Institutes of Health.

Applicants must submit letters of intent to the Diabetes Research and Training Center by June 9; proposals are due Aug. 11. Both should be sent to Joan Harrison at Campus Box 8127.

For more information and application forms, call 362-7754.

University Events

Fields to deliver Assembly Series talk on rhetoric

BY NADEE GUNASENA

Distinguished professor and writer Wayne Fields will present the Interdisciplinary Project in the Humanities/Phi Beta Kappa/Sigma Xi Lecture for the Assembly Series at 11 a.m. April 12 in Graham Chapel. The talk, on "Love and Seduction: Our Anxiety About Rhetoric," is free and open to the public.

Fields, Ph.D., is the Lynne Cooper Harvey Distinguished Professor of English and director of the American Culture Studies Program, both in Arts & Sciences. His areas of scholarly focus include American literature, nonfiction prose, rhetoric and American political argument.

During times of national political de-



Fields

bate, he is frequently called on by the national media to provide expert commentary regarding the use of rhetoric as a political or social tool. His book *Union of Words: A History of Presidential Eloquence* (1996) examines the use of rhetoric in presidential speeches, from declarations of candidacy to nomination acceptances, inaugural addresses, State of the Union speeches, declarations of war, executive farewells and other special addresses.

Fields' other books include *James Fenimore Cooper: A Collection of Critical Essays* (1979); *What the River Knows: An Angler in*

Midstream (1990), a highly acclaimed memoir; and *The Past Leads a Life of Its Own* (1992), a collection of stories that capture a simpler life of growing up in the American heartland.

Fields joined WUSTL's Department of English in 1968. Throughout his career, he has served the University in a number of academic and administrative ways, most notably as chair of the English department. He has also served as the dean of University College in Arts & Sciences and as director of its Master of Liberal Arts Program.

In 1996, he helped establish the American Culture Studies Program and became its first director.

A popular teacher, Fields has received numerous teaching accolades, including the

Faculty Award for Excellence in Teaching and the Interfraternity Council's Excellence in Teaching Award. In addition, he has been awarded fellowships from the Woodrow Wilson Institute, the Ford Foundation and the National Humanities Institute.

He has served as a commentator for National Public Radio, Radio Free Europe and various television and radio network programs. For five years, he wrote a column called "Close to Home" for *St. Louis Magazine*.

He earned a bachelor's degree in English and philosophy from Augustana College and master's and doctoral degrees from the University of Chicago.

For more information, call 935-4620 or go online to assemblyseries.wustl.edu.

Dental Potpourri • Jesus in America • The Beast and the Beauty

"University Events" lists a portion of the activities taking place April 7-20 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

Friday, April 7

Visual Poetry. Olin Library, Grand Staircase Lobby and Ginkgo Reading Rm. 935-5495.

5-7 p.m. Sam Fox School Core Show Opening Reception. Bixby Hall. 935-9347.

6-8 p.m. Sam Fox School Digital Imaging & Photography Exhibition. Des Lee Gallery, 1627 Washington Ave. 935-9347.

Friday, April 14

6-8 p.m. Sam Fox School First-Year M.F.A. Exhibition Opening Reception. Des Lee Gallery, 1627 Washington Ave. 935-9347.

Film

Friday, April 7

6 & 8:30 p.m. Travel Lecture Series. *Fiji*. Rick Howard, dir. Graham Chapel. 935-5212.

8 p.m. Italian Film Festival. *Il Fuggiasco* (*The Fugitive*). Andrea Manni, dir. Brown Hall, Rm. 100. 422-3102.

Saturday, April 8

8 p.m. Italian Film Festival. *La Vita Che Vorrei* (*The Life That I Want*). Guiseppe Piccioni, dir. Brown Hall, Rm. 100. 422-3102.

Wednesday, April 12

7 p.m. Japanese Film Series. *The Beast and the Beauty*. Lee Gye Byeok, dir. Sponsored by Asian & Near Eastern languages & literatures. Busch Hall, Rm. 100. 935-5110.

Lectures

Friday, April 7

Noon. Cell Biology & Physiology Seminar. "Arresting Developments in Receptor Signaling." Jeffrey Benovic, prof. and chair of biochemistry & molecular biology, Thomas Jefferson U. Co-sponsored by molecular biology & pharmacology. McDonnell Medical Sciences Bldg., Rm. 426. 362-1668.

Monday, April 10

Noon. Molecular Biology & Pharmacology Seminar. "How Eukaryotic Cells Adapt to Metal Nutrient Deficiency: Lessons Learned From *Saccharomyces Cerevisiae*." David Elide, prof. of nutritional sciences, U. of Wis. South Bldg., Rm. 3907, Philip Needleman Library. 747-3339.

3 p.m. Neuro-oncology Research Group Seminar Series. "Advanced MR Imaging of CNS Neoplasms." Robert C. McKinstry III, assoc. prof. of radiology. McDonnell Medical Sciences Bldg., Rm. 928. 454-7029.

3:30 p.m. Harris Inst. for Global Legal Studies Seminar. "Pre-emptive Use of Force: Legalities and Realities in Today's World." Walter Slocumbe, attorney, former U.S. undersecretary of defense. Anheuser-Busch Hall, Rm. 310. 935-7988.

4 p.m. Anatomy & Neurobiology Lecture. Annual Robert J. Terry Lecture. "It Is All in the Eye of the Beholder." Amiram Grinvald, prof. and dir., Grodzky Center for Research of Higher Brain Functions, Weiz-

man Inst. of Science, Rehovot, Israel. Eric P. Newman Education Center. 362-7043.

4 p.m. Immunology Research Seminar Series. "Immunity, Cognition and Behavior: Lessons From SLE." Betty Diamond, prof. of medicine and of microbiology, Columbia U. Moore Aud., 660 S. Euclid. 362-2763.

5:30 p.m. Cardiac Bioelectricity & Arrhythmia Center Seminar. "Arrhythmogenic Calcium Release From Cardiac Myofilaments." Henk E.D.J. ter Keurs, prof. of physiology & biophysics, U. of Calgary. (5 p.m. refreshments.) Whitaker Hall, Rm. 218. 935-7887.

7 p.m. Sam Fox School Architecture Lecture Series. Marcelo Carvalho Ferraz, Brasil Arquitetura Studio, São Paulo. Steinberg Hall Aud. 935-9347.

Tuesday, April 11

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Natural Killer Cell Control of Viral Infections." Wayne Yokoyama, Levin Professor of Medicine. Cori Aud., 4565 McKinley Ave. 747-2132.

Wednesday, April 12

11 a.m. Assembly Series. Interdisciplinary Project in the Humanities, Phi Beta Kappa and Sigma Xi Lecture. Wayne Fields, Lynne Cooper Harvey Distinguished Professor in English and dir., American Culture Studies Program. Graham Chapel. 935-4620.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Single Molecular Dynamics of RecA Filament and SSBs." Taekjip Ha, assoc. prof. of physics, U. of Ill. Cori Aud., 4565 McKinley Ave. 362-4152.

Thursday, April 13

4 p.m. Foreign Language Learning Colloquium Series. "Findings and Implications From Second Language Acquisition Research." Richard Schmidt, prof. of second language studies, U. of Hawaii. Lab Sciences Bldg., Rm. 300. 935-5175.

4 p.m. Ophthalmology & Visual Sciences Seminar. "Molecular Insights Into Myelination and Axonal Degeneration." Jeffrey Milbrandt, David Clayton Professor of Neurology. Maternity Bldg., Rm. 725. 362-1006.

Friday, April 14

4 p.m. East Asian Studies Lecture. Annual Stanley Spector Memorial Lecture on East Asian History & Civilization. "Why Weren't Women a Problem in 19th Century Chinese Thought?" Susan Mann, prof. and chair of history, U. of Calif.-Davis. (Reception follows.) McDonnell Hall, Rm. 162. 935-4448.

Monday, April 17

8:30 a.m.-4:30 p.m. Center for the Application of Information Technology Two-day Workshop. "Take Action: Contribute to Your Firm as a High-Impact IT Professional." (Continues 8:30 a.m.-4 p.m. April 18.) Cost: \$1,195, reduced fees available for CAIT member organizations. CAIT, 5 N. Jackson Ave. To register: 935-4444.

11 a.m. Midwest Center of Excellence for Biodefense and Emerging Infectious Diseases Research Guest Lecture. "Pandemic Influenza Vaccines." Robert Belshie, prof. and dir. of infectious diseases and immunology, St. Louis U. Eric P. Newman Education Center. 286-0432.

Noon. Work, Families, and Public Policy Brown Bag Seminar Series. "Did Reform of Prudent Trust Investment Laws Change Trust Portfolio Allocation?" Robert Sitkoff, asst. prof. of law, Northwestern U. Eliot Hall, Rm. 300. 935-4918.

4 p.m. Immunology Research Seminar Series. "The Role of SLP-76 in Hematopoietic Cell Development and Function." Gary Koretzky, dept. of pathology & lab medicine, U. of Penn. Moore Aud., 660 S. Euclid Ave. 362-2763.

How to submit 'University Events'

Submit "University Events" items to Genevieve Posey via:

(1) e-mail — recordcalendar@wustl.edu;

(2) campus mail — Campus Box 1070; or

(3) fax — 935-4259. Upon request to the *Record* office, forms for submitting events may be e-mailed, mailed or faxed. Deadline for submissions is noon on the Thursday eight days prior to the publication date.

7 p.m. Center for the Humanities Faculty Fellows' Lecture. "Narrative Transgression in Contemporary German-Jewish Holocaust Literature." Erin McGlothlin, asst. prof. of Germanic languages & literatures. McMillan Hall, Rm. 115. 935-5576.

7 p.m. Sam Fox School Architecture Lecture Series. Robert McCarter, prof. of architecture, U. of Fla. Steinberg Hall Aud. 935-9347.

Tuesday, April 18

Noon. Law School Jewish Lunch & Learn. "Examining Secular Issues and Jewish Law." Rabbi Hershey Novack, Chabad on Campus. Anheuser-Busch Hall, Rm. 307. 721-2884.

Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Transcriptional Silencing and Adherence in the Yeast Pathogen *Candida Glabrata*." Brendan Cormack, assoc. prof. of molecular biology & genetics, Johns Hopkins U. Cori Aud., 4565 McKinley Ave. 747-5597.

Noon. Program in Physical Therapy Research Seminar. 4444 Forest Park Blvd., Lower Lvl., Rm. B112. 286-1404.

Wednesday, April 19

8:30-11 a.m. Shepard Memorial Dental/Otolaryngology Lecture. "Dental Potpourri." Phillip J. Sheridan, asst. prof. of dentistry, Mayo Clinic, Minn. Eric P. Newman Education Center. 935-5419.

11 a.m. Assembly Series. Libraries' Neureuther Lecture. "Stand Up for Children Now." Marian Wright Edelman, civil rights leader and children's advocate. Co-presented as the George Warren Brown School of Social Work's Benjamin E. Youngdahl Lecture and Women's Society Adele Starbird Lecture. Graham Chapel. 935-4620.

Sagartz K's 26 in two games to lead 19th-ranked softball team

On March 30, WUSTL swept a doubleheader from Westminster College. The Bears won Game 1, 8-0, in five innings, and then took the nightcap, 4-0. Junior Laurel Sagartz pitched a shutout in the opener, allowing two hits while striking out 13. In Game 2, freshman Susan Gray pitched five scoreless innings allowing four hits while striking out three as she picked up her third win.

On March 31, the Bears (18-3) extended their winning streak to five games with a pair of victories over Blackburn College. The Bears captured Game 1, 14-0, in five innings, and then posted an 8-0 win in five innings in the nightcap. Sagartz improved to 9-1 with a one-hit shutout and 13 strikeouts.

Thursday, April 20

Noon. Center for New Institutional Social Sciences Lecture. Mary Beth Combs, prof. of economics, Fordham U. Eliot Hall, Rm. 300. 935-5068.

3 p.m. Siteman Cancer Center Basic Science Seminar Series. Michelle Le Beau, prof. of medicine, U. of Chicago Cancer Research Center. Eric P. Newman Education Center. 454-7029.

4 p.m. History Colloquium. "Jesus in America: Personal Savior as Cultural Hero." Richard W. Fox, prof. of history, U. of Southern Calif. Duncker Hall, Rm. 201, Hurst Lounge. 935-5450.

Music

Saturday, April 8

8 p.m. Graduate Voice Recital. Philip Touchette, tenor. Whitaker Hall Aud. 935-4841.

Sunday, April 9

8 p.m. Recital. Chamber works of Martin Kennedy, asst. prof. of theory & composition. Steinberg Hall Aud. 935-4851.

Thursday, April 13

8 p.m. Jazz at Holmes. Adam Mannes, piano. Ridgley Hall, Holmes Lounge. 935-4841.

Thursday, April 20

8 p.m. Jazz at Holmes. Mike Karpowicz, saxophone. Ridgley Hall, Holmes Lounge. 935-4841.

On stage

Friday, April 7

8 p.m. School of Medicine Arts Commission Presentation. *Guys and Dolls*. (Also 8 p.m. April 8 & 15, 2 p.m. April 15.) Cost: \$10, \$8 for students. Moore Aud., 660 S. Euclid Ave. For tickets: saccod@msnotes.wustl.edu.

Sports

Saturday, April 8

All day. Track & Field WUSTL Select Meet. Francis Field. 935-4705.

All day. Track & Field WUSTL Multi-event.

(Continues April 9.) Francis Field. 935-4705.

Tuesday, April 11

3 p.m. Women's Tennis vs. McKendree College. Dwight Davis Tennis Center. 935-4705.

4 p.m. Men's Tennis vs. Lindenwood U. Tao Tennis Center. 935-4705.

Wednesday, April 12

4 p.m. Men's Tennis vs. McKendree College. Tao Tennis Center. 935-4705.

Friday, April 14

4 p.m. Softball vs. Central College. WUSTL Field. 935-4705.

Saturday, April 15

All day. Track and Field WU Quad. Francis Field. 935-4705.

1 p.m. Baseball vs. DePauw U. Kelly Field. 935-4705.

Monday, April 17

4:30 p.m. Men's Tennis vs. U. of Mo.-St. Louis. Tao Tennis Center. 935-4705.

Tuesday, April 18

4 p.m. Softball vs. Greenville College. WUSTL Field. 935-4705.

4:30 p.m. Men's Tennis vs. Southern Ill. U.-Edwardsville. Tao Tennis Center. 935-4705.

Wednesday, April 19

4:30 p.m. Men's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

4:30 p.m. Women's Tennis vs. Principia College. Tao Tennis Center. 935-4705.

Worship

Wednesday, April 12

7:45 p.m. Passover Seder. Hosted by Chabad on Campus. (Also 7:45 p.m. April 13.) 7420 Forsyth Blvd. 721-2884.

And more...

Thursday, April 13

8 p.m. Writing Program Reading Series. Jon Cook, prof. of literature, U. of East Anglia. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

Sports

Baseball team wins five of six, now 22-5 behind unbeaten Buffa

WUSTL opened the week by sweeping Maryville University, 7-4 and 3-1, March 28. In the second game, junior Andy Shields pitched a one-hitter with nine strikeouts.

On April 1, the Red and Green rolled past Knox College, 15-3 and 12-0. Junior Brent Buffa picked up the win in the first game to move to 6-0 on the season and 16-2 for his career. The next day, the Bears dropped Game 1, 4-2, to Knox before rebounding with an 18-5 win in the second game.

Women's tennis team suffers tough week

The women's tennis team (8-5) went 1-2 last

week. WUSTL opened a tough 6-3 loss to Division I ranked team in Division I Bears defeated Coe College junior Erin Fleming's singles. On April 2, the Bears lost to the University of

Men's tennis undefeated week

The No. 8 men's tennis team went on a winning streak to four matches over Coe College and April 1 at Shaw Park.

With the six victories, WUSTL improved its record to 26-4 (.86

Life insurance open enrollment coming; investment seminars set

There will be an open enrollment period for optional term life insurance from April 17-May 5.

During this period, if an employee is currently enrolled and not maxed (four times base salary) in the optional term life plan, he or she may purchase one additional times base annual salary without completing a health questionnaire, or purchase two or more additional times base annual salary by completing five medical questions on an enrollment form.

As long as an employee doesn't answer "yes" to any of the questions, he or she will not be required to submit any additional medical information.

Employees enrolled in the optional term life insurance plan will receive a special bonus — a will-preparation service at no additional cost. Through a special Met Life service, employees can consult with an experienced attorney who will complete a will for them and for their spouse at no charge.

Enrollment kits will be sent to the homes of benefits-eligible faculty and staff during the week of April 10. Additional information will be provided at the "Benefits Plan for the Future" employee meetings from April 18-27.

Roth option

The Roth option will be added to the retirement savings plan effective July 1. This provision will allow faculty and staff to make any combination of employee pre-tax deferrals and after-tax contributions from the minimum required plan contribution up to the maximum IRS contribution.

Regardless of whether employees make pre-tax or after-tax contributions, they will receive the same University contribution based on their age and satisfying the two-year service requirement.

Additional information will

be provided at the "Benefits Plan for the Future" employee meetings from April 18-27, and an announcement letter and enrollment form will be sent to the campus boxes of all benefits-eligible faculty and staff during the week of May 1.

There is no deadline like other plan enrollments like health insurance and flex spending, but if employees wish to begin the after-tax contribution by July 1, they will need to send their enrollment forms to the benefits office by June 15.

(Special note: Vanguard will be able to accept employee Roth contributions on July 1, but TIAA-CREF will not be able to accept employee Roth contributions until this fall.)

Investment seminars

A retirement investment-education seminar conducted by consultants from TIAA-CREF and Vanguard is being offered to University faculty and staff. At each session, there will be a discussion of basic investment choices and a review of simple strategies and concepts needed to make sound investment decisions.

Topics will include:

- Assessing your current financial situation;
- Forming a financial plan;
- Understanding basic types of investments; and
- Asset allocation and maintaining diversification.

The seminars are scheduled as follows:

• **April 18** — Hilltop Campus, Simon Hall, Room 109, 1:30-3 p.m.;

• **April 19** — Medical Campus, McDonnell Science Building, Cori Auditorium, 1-2:30 p.m.; and

• **April 20** — West Campus, Library Conference Center, Room A/B, 9-10:30 a.m.

Reservations are not required to attend a seminar.

For more information, contact your benefits department.

Jon Cook to speak on craft of poetry

Jon Cook, the visiting Fannie Hurst Professor of Creative Literature in the Writing Program in Arts & Sciences, will speak on the craft of poetry at 8 p.m. April 13.

The event — part of the Writing Program's spring Reading Series — is free and open to the public and will take place in Hurst Lounge, Duncker Hall, Room 201.

Cook is the author of several books, including *Romanticism and Ideology* (1981) and *William Hazlitt: Selected Writings* (1991). His most recent volume, *Poetry in Theory* (2004), reflects a long-standing interest in modern poetry and poetics.

Current projects include the forthcoming *Hazlitt in Love*, a biographical work on writing and

love, as well as a volume on 20th-century poetry and poetics.

Cook is a professor of literature at the University of East Anglia in Norwich, England, where he directs the Centre for Creative and Performing Arts. He also serves as editor of the literary journal *Pre-text* and on the international advisory board of the Amsterdam School for Cultural Analysis.

Cook has published numerous essays on romantic poetry, cultural analysis and the relation between theory and practice in creative writing. These include, most recently, essays on British national identity and on the idea of creative writing as a form of research.

For more information, call 935-7130.

Operation Food Search exhibit at Weitman Gallery

At right is "Girl With Cornflakes" by Sylvia Hardy, from the exhibition *Faces of Operation Food Search*, on view through April 19 in the Sam Fox School of Design & Visual Arts' Weitman Gallery. Hardy was one of seven juniors from the Digital Imaging & Photography Program who recently spent a month documenting the work of Operation Food Search, the largest food bank in the St. Louis region. Each month, Operation Food Search distributes more than 1 million pounds of food and household items to 300 local food pantries and soup kitchens, feeding nearly 100,000 people, about half of whom are children. Other photographers were Sarita Dan, Sarah Greene, Rachel Hillery, Rebecca Massie, Cody Rinaldo and Jacqueline Schon. The Weitman Gallery is located in the University's Lewis Center, 725 Kingsland Ave. Hours are 9 a.m.-5 p.m. Monday-Friday. For more information, call 935-8406.



11 trees planned for Earth Day

By ANDY CLENDENNEN

A collaborative effort between students, staff and the University administration has resulted in the planned planting of 11 trees on the Hilltop Campus to mark Earth Day 2006.

A ceremony will be held at 2 p.m. April 14 in Brookings Quadrangle, the site of one of the plantings.

"I am pleased with the proactive leadership shown by some of our students on this important environmental issue," Chancellor Mark S. Wrighton said, "and I'm grateful to our horticulturist Paul Norman for his expertise and wisdom in helping us select trees that will grace our beautiful campus for the next hundred years. This is a wonderful way to mark Earth Day 2006."

All of the trees to be planted were grown by the University in the property just east of the Brookings Hall parking lot, between Lindell Boulevard and Forest Park Parkway.

Ten Northern Red Oaks will be planted along Forsyth Boulevard, from Olympian Way to the Sam Fox School of Design & Visual Arts. These plantings will occur throughout the day, and signs proclaiming that the trees were planted to mark Earth Day 2006 will be included.

"These are trees that grow well in an urban envi-

ronment," Norman said. "They grow to perhaps 60 or 75 feet tall, much like the oaks on the rest of campus.

"And in an urban environment, we can expect them to live about 100 years."

The Northern Red Oak is easy to recognize by its bark, which features ridges that appear to have shiny stripes down the center. A few other oaks have bark with this kind of appearance in the upper tree, but the Northern Red Oak is the only tree with the striping all the way down the trunk.

One more tree, a Valley Forge Elm, will be planted in the Quad, near a location in several people's memory.

"The Valley Forge Elm is a disease-resistant elm tree," Norman said, "and that one will probably go where the other elm tree died."

"This is a hybrid elm tree and resistant to Dutch elm disease. We got it when it was a seedling about as big around as your finger. Now it has about a 3-inch caliper, so it's ready to be moved."

An American elm variety, the Valley Forge Elm was released by the U.S.D.A. National Arboretum in 1995 after 20 years of research. In the past 70 years, Dutch elm disease has killed more than 70 million elm trees (95 percent) in the United States.

The tree culminates 60 years of government research, involving three generations of scientists and tests on 60,000 elm trees.

Kennedy to present original chamber works

By LIAM OTTEN

Martin Kennedy, D.M.A., assistant professor of theory & composition in the Department of Music in Arts & Sciences, will present a concert of original chamber music at 8 p.m. April 9 in Steinberg Auditorium.

Kennedy was born in England in 1978 and moved to America as a child. He earned bachelor of music degrees in both piano performance and composition from the Indiana University School of Music, as well as a master of music degree in composition.

Kennedy went on to earn a doctorate from the Juilliard School in 2005 and joined WUSTL's music department last fall.

The program will open with *These Parting Gifts* (1997), a composition for two violins (Nicolae Bica and Shawn Weil, both of the Saint Louis Symphony Orchestra) and piano (Kennedy) written during the composer's freshman year at Indiana.

"The work is in four movements," Kennedy said. "Each one depicts an episode in the life of two people who now are left with only memories — consola-

tion prizes, perhaps — of one another."

The program will continue with *Distraction* (2003), a short piece for guitar (undergraduate Rosaline Moussa), violin (Bica) and viola (Mike Chen of the Saint Louis Symphony Orchestra), which was originally commissioned by the group Duo46.

Next is *The Touch of Dreams* (2000), a song-cycle for piano (Kennedy), tenor and clarinet (the music department's James Harr and Paul Garritson, respectively) based on five poems from Carl Sandburg's *Fogs and Fires*.

"*Touch of Dreams* is cyclical in design, with motifs recurring throughout the work," Kennedy said. "Most notably, a lullaby theme that is heard in the first song, 'I Sang,' returns frequently throughout the piece to reinforce the 'nighttime story' theme of the poems."

The program will conclude

with Kennedy performing his *Piano Sonata* (2004), originally written for pianist Soheil Nasserli's 2003-04 concert season at Lincoln Center in New York.

Kennedy has received several prestigious composition honors, including five ASCAP Morton Gould Young Composer Awards. His work has been performed by the American Composers Orchestra, the Bloomington Camerata Orchestra, the Polish National Chamber Orchestra of Slupsk, the Haddonfield Symphony and the Shenandoah Symphony Orchestra, among others.

Kennedy's music is published by Theodore Presser Co., the oldest — and among the most distinguished — music publishers in the United States. Kennedy also remains active as a pianist, performing both as a soloist and in collaboration with such distinguished artists as violinist Lara St. John and flutist Thomas Robertello, recording a CD with the latter, *Souvenir: Works by Fauré and Kennedy* (1999).

The concert is free and open to the public. For more information, call 935-4841 or e-mail staylor@wustl.edu.



Kennedy

Women runners win WUSTL Invitational

The women's track and field team won the WUSTL Invitational April 1-2 at Bushyhead Track, and the men took fifth. The women tallied 209 points; the men posted 85 points.

Men swimmers tops academically in D-III

As announced by the College Swimming Coaches Association of America, Washington U.'s men registered the No. 1 team grade-point average in NCAA Division III for the fall 2005 semester; the women posted the seventh-best mark in the country.

The men combined for a 3.49 grade-point average; the women tallied a GPA of 3.43.

ed the week March 31 with Prury University, the 25th- sion II. On April 1, the College, 5-4, sparked by s comeback win at No. 2 the Red and Green fell, 5-0, Chicago.

has week

his team extended its win- matches with 7-0 victories Maryville University

ries in doubles April 1, s overall record in dual 7).

Major

Continues his work to secure peace
— from Page 1

fairs, a position he held for 94 days before being appointed chancellor of the Exchequer in October that same year.

Upon becoming prime minister in 1990, Major followed in the footsteps of Margaret Thatcher and the legacy of her government. He moved into 10 Downing Street facing a weakened party, disagreements over Europe, economic recession, violence in Northern Ireland and the likelihood of war in the Persian Gulf.

Continuing the United Kingdom's strong ties with the United States, Major gave full support to the United States in the Gulf War of 1991, and thereafter to the U.S. position on Iraq in the United Nations. The British commitment to the Gulf War was second in size only to the United States.

Major's seven years as prime minister were not easy ones. Unlike Thatcher, his party only had slim parliamentary majorities. Nevertheless, on May 1, 1997, he handed over one of the strongest economies any incoming government had inherited, with *The Daily Telegraph* in London observing that "John Major leaves a richer legacy than any of his predecessors."

While prime minister, he also instituted public-sector reforms that became international models, and he initiated an unprecedented effort to secure lasting peace in Northern Ireland.

Since leaving office, Major continues working to secure peace in Northern Ireland, lending his support to Prime Minister Tony Blair. On New Year's Day

1999, Major was awarded one of the United Kingdom's greatest honors: The Companion of Honour, bestowed on him by Queen Elizabeth in recognition of his initiation of the Northern Ireland Peace Process.

He discusses his leadership triumphs and defeats in *John Major: The Autobiography*, published in 1999. Major stepped down as a member of Parliament when the British general election was called in May 2001.

His business interests today include serving as senior adviser to Credit Suisse and chairman of the European Advisory Council of Emerson. He is chairman of the council of the Ditchley Foundations and a member of the international advisory board of The Peres Center for Peace in Israel. He is also a patron of the Atlantic Partnership.

His charitable interests include the presidency of Asthma UK and patron of the Prostate Cancer Charity, Wavemakers (formerly Child of Achievement Awards), Mercy Ships and Support for Africa. He also takes an active interest in the work of the Royal National Institute of the Blind, the National Society for the Protection of Cruelty to Children and the Consortium for Street Children.

Major was president of the Surrey County Cricket Club at The Oval — where his lifetime passion for cricket was born — in London from 2000-02.

On the death of Diana, Princess of Wales, Major was appointed legal guardian to Their Royal Highnesses Princes William and Harry.

Major has been married to Dame Norma Major since 1970 (she was made a dame of the British Empire by Queen Elizabeth in June 1999).

They have two children, Elizabeth and James.

Kleinman

To pursue joint degree in law, public policy
— from Page 1

they are committed to using their integrity and strong sense of citizenship to making this world a better place."

Kleinman is majoring in philosophy in Arts & Sciences. After graduating, she hopes to pursue a joint degree in law and public policy.

"I'd like to work my way into the government through the court system and some day become an elected official so that I can promote positive social changes by speaking for people whose voices aren't being heard," Kleinman said.

A Danforth Scholar and residential adviser in the South 40, she tutors inner-city children and children of food-service workers. She also teaches classes on economic literacy, language skills, preventing adolescent pregnancy

"Laura Kleinman is a model citizen of Washington University, a superb young scholar ... We are enormously proud of her."
IAN MACMULLEN

and other fundamental components of a foundation for a healthy and well-rounded education.

"Laura Kleinman is a model citizen of Washington University, a superb young scholar with a deep concern for the plight of the disadvantaged residents of America's inner cities," said Ian MacMullen, Ph.D., assistant dean in the College of Arts & Sciences. "The Truman Scholarship both recognizes and will help to realize Laura's remarkable potential to be a leader in the quest for justice in this country."

"We are enormously proud of her."

Pollinators

— from Page 1

perturbations of the habitat may exacerbate the situation."

According to Knight, there is no doubt that a reduced number of pollinating species — bees, flies, birds, even bats — is one contributor to pollen limitation. But it's not the only one. Habitat fragmentation is a proven cause of pollen limitation, as well as development.

"The concern is that we are losing habitats really rapidly globally, especially in tropical areas, and losing pollinators there as well," Knight said. "We show that these areas are sensitive to pollen limitation just because they are diverse. Any perturbation in the tropical areas — and there are lots

right now — is going to hurt the situation even more than we think and perhaps drive certain species to extinction."

Collaborator Tia-Lynn Ashman, Ph.D., of the University of Pittsburgh, said: "These findings have global implications given the importance of biodiversity hotspots for medicine, food, nutrient cycling, and alternative resources for pollinators of domesticated crops worldwide."

The study performed by Knight, Vamosi, Ashman and their other collaborators — Janette A. Steets of the University of Alaska Fairbanks; Susan J. Mazer of the University of California, Santa Barbara; and Martin Burd of Monash University in Melbourne, Australia — was supported by the National Science Foundation's National Center for Ecological Analysis and Synthesis.

Moral psychology conference to be held April 8-9

By NEIL SCHOENHERR

Do you consider yourself a moral person? Most of us do. But what is it exactly that makes us moral beings?

The Department of Philosophy in Arts & Sciences is sponsoring a conference on moral psychology April 8-9 at Clayton on the Park hotel, 8025 Bonhomme Ave.

Twenty philosophy and psychology professors from schools around the country will discuss evolution's impact on morality, motivation and sociopathy, the relationship between language capacity and moral capacity, moral reasoning and the psychology of happiness.

John M. Doris, Ph.D., associate professor of philosophy and a member of the Philosophy-Neuroscience-Psychology Program in Arts & Sciences, is the conference organizer. He defines moral psychology as "the factors that influence behavior in contexts we consider to be morally significant," such as witnessing someone in need.

"Think about your friends," Doris said. "If someone dropped a file of papers all over the street, would one of your friends stop to help?"

You might base your answer on your own perceived morality level of your friend.

But many factors, including whether your friend is happy having just found some money or in a sour mood having stepped in a wad of bubblegum, will affect his or her willingness to help, regardless of an innate or a perceived morality level.

"We tend to look to the properties of the person as we imagine them in order to gauge their moral compass," Doris said. "It turns out, however, that something as seemingly insignificant as finding a quarter in a phone booth can have a big impact on

whether a person will help or not."

Trivial factors play role

In his 2002 book *Lack of Character: Personality and Moral Behavior*, Doris argues that behavior is extraordinarily sensitive to variation in circumstance.

He became interested in moral psychology in the mid-1990s after reading some groundbreaking studies by John M. Darley, Ph.D., the Warren Professor of Psychology at Princeton University.

Darley's research indicated that absurdly trivial-seeming factors influence what people do morally.

"For instance," Doris said, "you may be more likely to get help in the paper-dropping scenario above if ambient noise is at normal levels than if there's a lawnmower in the background."

Darley also examined the Catherine Genovese case, in which a woman was attacked and brutally murdered on the doorstep of her apartment building in Queens in the mid-1960s. There were more than three dozen people in the area who witnessed the crime, but no one intervened. One person called the police only after asking a friend what he should do.

"The result of the experimental work inspired by the Genovese case is that there are several psychological mechanisms at work in determining morality in a situation like this," Doris said. "One common mechanism is called 'diffusion of responsibility,' where everyone thinks someone else will call the police and ultimately no one does."

"Another mechanism is the 'interpretation effect.' If we are all watching something happen but we're not sure what's going on and you look at me and I appear unconcerned, you then conclude that there's nothing to be worked up about."

schools and between University and civil society nongovernmental organizations in Nepal.

C.J. Larkin, J.D., administrative director of the Alternative Dispute Resolution Program, provided mediation training to the delegation and coordinated the visit. Larkin and other representatives from the School of Law will visit Nepal in June.

The State Department grant provides funding for the law school's Alternative Dispute Resolution Program to offer intermediate and advanced conflict resolution training to Nepali faculty, students and organizations involved in community mediation. The training will be conducted both at WUSTL and in Nepal.

University faculty and students will observe Nepali mediators and receive training while in Nepal. Additionally, the law school will develop Internet dispute resolution resources for

Another example of this mechanism at work would be that of a nervous flyer.

"When it gets turbulent, he looks around at the people near him," Doris said. "If he sees them acting unconcerned, he assumes there's no problem, but if he sees them clutching the armrests, he thinks the worst. We interpret our world socially since we are intensely social organisms."

If you want to bet on whether your friends will help someone in need, Doris argues, it's necessary to know the "little proximate" impacts on their mood, such as finding money on the street or the number of other people around at the time.

"Some studies even suggest that if you need change for a dollar, you are more likely to get it if you ask in front of a bakery or a coffee shop that smells good instead of asking in front of a smelly tire store, for example," he said. "The hypothesis is that you get a slight mood bump from the aroma, which makes you more likely to help."

Of course, other research shows that people in a good mood are less likely to help if it's an unpleasant activity because it will ruin their mood.

"It's all variable," Doris said. "The one constant I've found is that circumstance and mood can have a direct effect on morality in a given situation."

The papers presented at the conference will be gathered into a *Handbook of Moral Psychology*, co-edited by Doris, to be published by Massachusetts Institute of Technology.

The conference, with the exception of the business meeting and meals, is open to the WUSTL community, but participants must read the related papers of the conference presenters prior to attending.

For more information, call 935-6670.

Nepal

School of Law reps to go there in June
— from Page 2

visit was excellent because it gave us opportunities to both enhance our general conflict resolution skills and increase our understanding of mediation and dispute resolution in the U.S.," Pokharel said.

"We've had the opportunity to visit an amazing number of agencies and programs and learn about multiple program designs and models."

The law school's Alternative Dispute Resolution Program, directed by Karen Tokarz, J.D., professor of law, received a three-year, \$244,000 grant from the State Department to establish exchanges between the University and Kathmandu law

Nepali mediators.

The law school and the George Warren Brown School of Social Work have been developing partnerships with universities and nongovernmental organizations in Nepal for several years. Gautam Yadama, Ph.D., director of international programs and associate professor in the School of Social Work, began the collaborations through his U.S. Agency for International Development-funded project with Nepal Law School in 1999-2001. Yadama served as a Fulbright professor in Nepal in 2000-01.

Jane Aiken, J.D., the William M. Van Cleve Professor of Law, also served as a Fulbright senior scholar at Tribhuvan Law Campus during fall 2001. For three summers, WUSTL law students worked in Kathmandu through the public-interest stipend program, with placement assistance from Aiken and Larkin.

Liver

Study participants to lose 10% of their body weight
— from Page 1

Study participants will receive medical screenings and imaging tests to determine fat levels in the body and fat in the liver. They will also receive a detailed metabolism study to determine how their bodies process fat, protein and sugar and how insulin interacts with those substances.

When baseline studies are complete, participants will begin a weight-loss program involving a reduced-calorie diet. The weight-loss program includes regular meetings with

trained behaviorists and dieticians to help participants keep track of what they are eating and to identify and try to change problem behaviors and cues for overeating.

Some study participants also may take a weight-loss drug called Orlistat. To help young people in the study adopt a healthier lifestyle, the whole family is encouraged to become involved.

Participants will remain on the diet until they lose about 10 percent of their body weight. After maintaining that weight loss for three weeks, they will return for repeat body composition tests and metabolic studies.

The second round of tests allows researchers to compare fat in the body and in the liver before and after weight loss and to identify changes in the metabolism of fat, protein and sugar.

"We believe losing weight will reverse, if not completely normalize, some of the changes we see in children with fatty liver disease," said Sheela Deivanayagam, M.D., study investigator and a clinical fellow in the Division of Pediatric Gastroenterology and the Center for Human Nutrition.

Most study volunteers will remain in the program 5-6 months, depending upon how long it takes them to reach their weight-loss goal.

All screening tests and research-related procedures for the study are provided free. Those who complete the entire study will receive a combination of money and gift cards totaling \$500.

For more information or to volunteer, call Deivanayagam at 362-8144.

Notables

Sam Fox School honors distinguished architecture alumni

The Sam Fox School of Design & Visual Arts honored four outstanding architecture alumni at its 13th annual Distinguished Alumni Awards Dinner April 6 at the Lindell Pavilion in Forest Park, 5595 Grand Drive.

The Distinguished Alumni Awards recognize architecture graduates who have demonstrated creativity, innovation, leadership and vision through their contributions to both the practice of architecture and the school.

Recipients for 2006 were Soo K. Chan, Eric Haesloop, Sandra Ford Mendler and Jimmie E. Tucker.

In addition, Corinna Cotsen, a former Ethan A.H. Shepley Trustee at the University and a longtime member of the Architecture National Council, received the 2006 Dean's Medal, which honors exceptional dedication and advocacy on behalf of the school and the profession.

And Brian Vitale, a senior designer at the Chicago office of Gensler, received the Young Alumni Award.

Chan is founding principal and design director of SCDA Architects in Singapore. Born in Penang, Malaysia, he earned a bachelor of arts degree in architecture from WUSTL in 1984 and a master of architecture degree from Yale University in 1987.

SCDA has completed major commercial, residential and master-planning projects in Southeast Asia, China, India, Australia, Africa and the United States.

The firm's numerous honors include the Royal Institute of British Architects' Worldwide Award (2005); the Gold Award at the Miami Biennale 2005 International Competition; the Gold Award for the ARCASIA Awards for Architecture (2005-06); and the *Architectural Review* Merit award for emerging architecture (2002). In 2003, *Architectural Record* named SCDA as one of the 10 Design Vanguard firms reshaping the globe.

Haesloop is principal of Turnbull Griffin Haesloop in Berkeley, Calif. Raised in Indiana, he graduated from WUSTL in 1977 with a

bachelor of architecture degree and earned a master of architecture degree from Yale University in 1981. In 1985, he joined William Turnbull Associates — the small yet prestigious firm founded in the 1960s by the renowned Bay Area modernist — overseeing many of the firm's residential projects.

Prior to Turnbull's 1997 death, Haesloop became a partner in the firm, which he continues to direct with Turnbull's widow, Mary Griffin. He has also taught undergraduate and graduate design studios at the University of California, Berkeley.

He has received 18 American Institute of Architects (AIA) design awards, including a National Honor Award and four awards from the AIA/California Council.

Mendler is vice president and sustainable-design principal for the San Francisco office of Hellmuth Obata & Kassabaum (HOK). She earned a bachelor of arts degree in architecture from WUSTL in 1981 and a bachelor of architecture degree from New York's Pratt Institute in 1986.

Mendler has been integrally involved with the development and implementation of the HOK sustainable-design program. She led the development of the firm's in-house resources for energy efficiency, indoor air quality, mate-

rials selection and low impact site development.

This work formed the foundation for *The HOK Guidebook to Sustainable Design* (co-authored with William Odell and Mary Ann Lazarus), now in its second edition. Major projects include headquarters facilities for The Nature Conservancy, National Wildlife Federation and the World Resources Institute.

Tucker is founding principal of Self Tucker Architects Inc. in his native Memphis. He earned a bachelor of architecture and urban planning degree from Princeton University in 1977 and a master of architecture degree from WUSTL in 1981.

Since launching Self Tucker in 1995, Tucker has developed numerous commercial, educational, religious, civic and residential projects throughout the mid-South, including the STAX Museum of American Soul Music and STAX Music Academy; and the 2001 expansion of the National Civil Rights Museum, located on the site of Memphis' Lorraine Motel, where the Rev. Martin Luther King Jr. was assassinated.

Cotsen has served on WUSTL's Architecture National Council since 1996 and recently concluded a four-year term on the University's Board of Trustees. Born in Boston and raised in Los Angeles,

she earned a bachelor's degree in art history from the University of California, Berkeley, in 1978.

In 1983, she earned a master of architecture degree from the WUSTL School of Architecture while simultaneously earning a master of science in civil engineering from the School of Engineering & Applied Science.

After graduation, Cotsen began practicing architecture in Los Angeles and later moved into the field of construction management, founding Edifice Complex, a building-contracting firm based in Santa Monica, Calif.

Vitale is a senior architectural designer at the Chicago office of Gensler, an adjunct professor for the University of Illinois at Chicago School of Architecture, and on the design faculty at the University of Illinois at Urbana-Champaign. Born and raised in Chicago, Vitale earned a bachelor of science degree in architectural studies from the University of Illinois in 1993 and a master of architecture degree from WUSTL in 1995.

A founding member of the award-winning boutique firm von Weise Associates, and later 4240 Architecture, he was recently appointed to the Art Institute of Chicago's Committee on Architecture and is president of the board of directors for the Chicago Architectural Club.

Campus Watch

The following incidents were reported to University Police March 28-April 4. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

Crime alert

On March 28, University Police released the following alert:

A resident in the 700 block of Westgate Avenue in University City reported leaving her residence for a short time and returning to find a subject inside. The subject asked, "Don't you know me from Washington University?" The resident did not know the subject, and he pushed her as she tried to call 911. The suspect fled, and the resident did not suffer serious physical injuries. There was no sign of forced entry to the residence.

The suspect is described as a white male, late 30s, 5'10", heavy build, brown hair, brown eyes and a balding or receding hairline. Police have information to suggest this subject may visit a computer lab on campus.

University Police recommends taking the following precautions:

- Immediately report suspicious persons or activity to police at 911 or go to the nearest emergency telephone.
- Lock your apartment door, even when you are at home.
- Lock the windows to your apartment. If you have a sliding glass door, secure it further by placing a piece of wood in the track to prevent it from opening.

- Never prop open exterior doors or gates. If you see a door propped, close it.
- Don't allow people you do not know to "tailgate" behind you into the building.
- When someone knocks at your door, don't open it unless you know the person.
- If the person is a maintenance person, ask that identification be slipped under the door or through the mail slot. Call the employer to verify that maintenance work was scheduled. Refuse to deal with anyone who won't comply with this request.
- If an unknown person knocks on your door to use the telephone, never open the door. Take the message and make the call for the person.
- If you arrive home to find your door ajar, hear unusual sounds or believe your residence has been broken into, don't go in. Call the police.
- When you are away from your residence, leave your interior lights on.

Additionally, University Police responded to four reports of property damage and injury, three lost articles, two auto accidents and one report each of larceny and suspicious person.

Allen named assistant vice chancellor, senior counsel

BY ANDY CLENDENNEN

Monica J. Allen, J.D., can count exactly on one hand the number of ways she's been associated with the University.

She earned a bachelor's degree, a master's degree and a law degree here. She was an adjunct professor in the School of Law.

And now, to complete the quintet, Allen has been brought back as assistant vice chancellor and senior counsel in the Office of Executive Vice Chancellor & General Counsel. She has been a partner at the St. Louis law firm Haar & Woods since 2002.

"Monica offers Washington University a marvelous array of legal and administrative talents," said Michael R. Cannon, J.D., executive vice chancellor and general counsel. "She's a remarkably astute and thoughtful negotiator, a consummate and cool-headed strategist, and she brings an exceptional and especially welcome depth to the University's important litigation efforts."

"As her 'prior lives' here at the University reflect, she's already made a deep commitment to the multiple missions of the University, and we are very fortunate indeed to have her sage counsel and outstanding expertise 'just down the hall.'"

Allen earned bachelor's (1980) and master's (1985) degrees, both in comparative literature in Arts & Sciences, from the University. After earning the master's, she started working at the St. Louis Science Center as an outreach coordinator from 1986-89, where she coordinated the center's education outreach program, including program development, staff supervision and budget management.

She earned a juris doctoris in 1992, after serving as the primary articles editor for the *Law Quarterly* and graduating second in the class of 223.

Allen clerked for Judge Jean C. Hamilton in the U.S. District Court for the Eastern District of Missouri from 1992-94, where she

drafted district court opinions and bench memoranda and managed a court docket of approximately 250 cases.

That was followed by stints in St. Louis with the law firm Kohn, Shands, Elbert, Gianoulakis and Giljum (1994-95) and the Federal Reserve Bank (1995-97), where she was responsible for litigation management, personnel issues, contract negotiation and providing guidance to the Department of Supervision and Regulation regarding banking laws and regulations.

In 1997, she joined Haar & Woods as an associate before becoming partner in January 2002. There Allen served as senior counsel in a wide array of commercial, regulatory, criminal defense and employment litigation matters.

She also became an adjunct professor at the School of Law, where she taught "Comparative Professional Ethics: Law and Medicine" and "Pretrial Practice and Procedure."

Manchanda appointed Kemper Art Museum curator

BY LIAM OTTEN

Catharina Manchanda, Ph.D., has been appointed curator of the Mildred Lane Kemper Art Museum, part of the Sam Fox School of Design & Visual Arts.

Manchanda succeeds Sabine Eckmann, Ph.D., who was named director of the Kemper Art Museum last year.

Manchanda's appointment comes at a critical time for the museum, which will open a 65,000-square-foot facility, designed by Pritzker Prize-winning Japanese architect Fumihiko Maki, this fall.

"Catharina is an innovative and dynamic scholar with a broad range of theoretical interests," Eckmann said. "She also has a great deal of practical experience developing and implementing exhibitions in a variety of media for some of the nation's most important institutions."

"I am thrilled that she is joining us."

A specialist in modern and

contemporary art, conceptual art and photography, Manchanda has served in various curatorial capacities at the Museum of Modern Art (MoMA) and the Solomon R. Guggenheim Museum, both in New York, and at the Philadelphia Museum of Art and the Busch-Reisinger Museum, part of the Harvard University Art Museums.

Manchanda said she looks forward to developing a range of challenging exhibits and programs for the Kemper Art Museum.

"Many art museums have a tendency to show contemporary art snapshot-like, with little historical context," Manchanda said. "I am particularly interested in connecting contemporary developments to a broader cultural and historical context, because the dialogue between old and new — as well as our expanding theoretical vocabulary — offers fascinating insights."

Manchanda earned bachelor's degrees in art history, English and German from the University of Stuttgart in Germany (1990); and

a master's in art history from the University of Delaware (1993). In 2005, she earned a doctorate from the City University of New York, writing her dissertation on the crucial role of photography in German art of the 1960s and early 1970s.

As a curatorial assistant at MoMA from 1999-2002, Manchanda worked with Robert Storr on *Gerhard Richter: Forty Years of Painting*, among other projects, and previously conducted research for the Guggenheim's *Robert Rauschenberg: A Retrospective* (1997).

In Philadelphia, where she served as a curatorial fellow from 1993-95, Manchanda organized *Between War and Utopia: Prints and Drawings of the German Avant-Garde, 1905-1933*. At Harvard, in 1992-93, she co-curated *The Sketchbooks of George Grosz With Peter Nisbet*. It was the first time Grosz's sketchbooks were exhibited as a group and the accompanying catalogue fully documented the artist's prolific drawing activity.

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Washington People

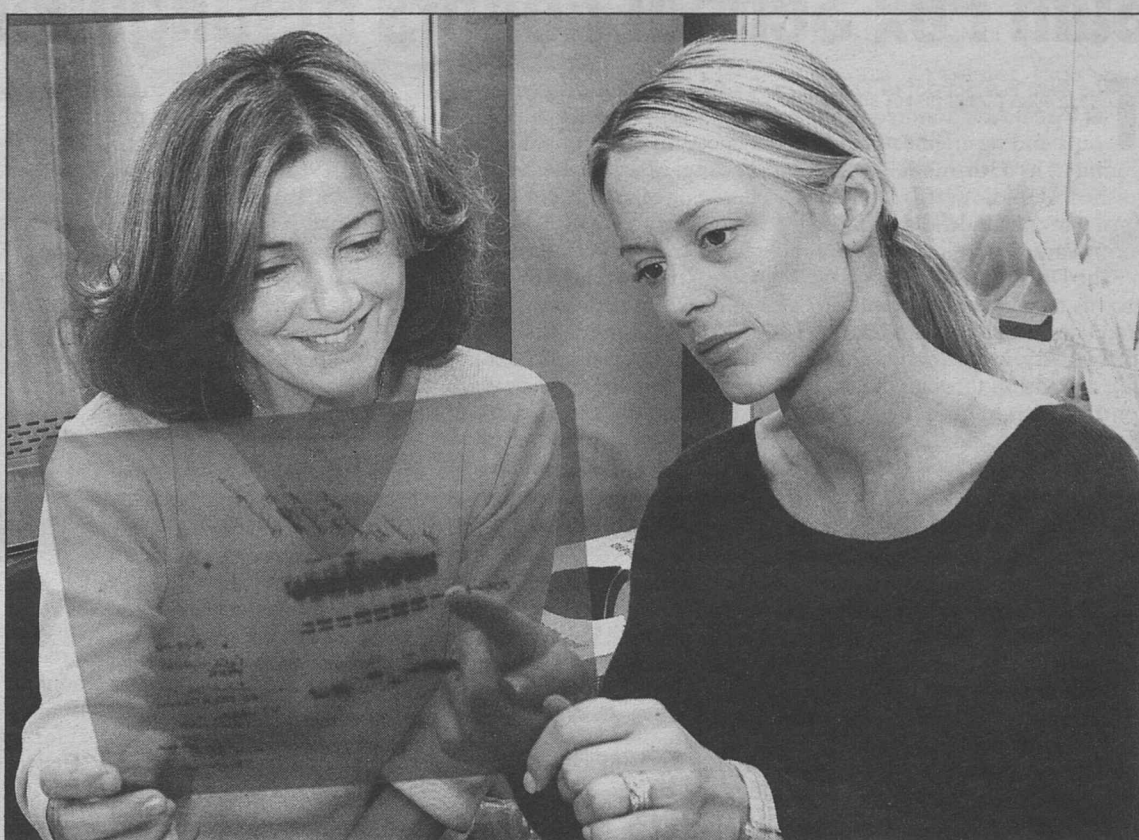
Fatty acids play important roles in health and disease. Scientists used to think cells just kind of passively absorbed those fatty acids, but in the early 1990s, Nada A. Abumrad, Ph.D., helped change all that.

She proposed that cells must use receptor proteins to import fatty acids. At the time, it was a very controversial idea, and it's almost certainly an idea she never would have come up with if her parents hadn't been pushy.

"I didn't want to go into science, actually," Abumrad explains. "I wanted to be a writer, a journalist, but my parents kept pushing me towards medicine."

Abumrad, now the Dr. Robert C. Atkins Professor of Medicine and Obesity Research, decided to split the difference. She wasn't interested in becoming a doctor, but to appease her parents, she studied biology in college while still taking some literature courses "on the side." Eventually, she dropped literature and stuck with biology, not that her mother was completely happy.

Abumrad's mother was a math teacher. She had five children, so eventually she stopped working to



Nada Abumrad, Ph.D. (left), and postdoctoral fellow Jill Smith-McMillin, Ph.D., look at a culture of muscle cells. "Nada exhibits both the perseverance and curiosity necessary to be a really good scientist," says former colleague Roger Johnson. "And she continues not to be persuaded by conventional thinking, but rather displays a willingness to explore totally new approaches."

The long and winding road

A lengthy journey to medicine leads Nada Abumrad to some novel ideas about fatty proteins

BY JIM DRYDEN

take care of the family. Abumrad's father did various jobs when she was growing up in Beirut. He worked for an airline and later represented a casino. So although neither of her parents had a real background in science, they certainly wanted their daughter to go in that direction.

"They would just keep insisting and wear you out," Abumrad recalls. "Even though I went into science and enjoyed it and did pretty well, until about five or six years ago, my mother still would tell me I should go back to school and get a medical degree. She just thought medicine was more secure in the long term."

Abumrad earned degrees in natural science and nutrition from the Faculté Des Sciences and the American University of Beirut in Lebanon. Then she got married and came to the United States with her husband, who was doing a residency in surgery at the State University of New York Upstate Medical University (SUNY) in Syracuse. She worked in a lab for about a year before deciding to pursue her doctorate.

As it happened, she also had a baby, so she worked toward the degree on a part-time basis for about two years before finally going back full time and completing her doctorate in pharmacology.

"That whole period was extremely, extremely busy," she says. "I would take care of my son, Jad, during the day and then spend half of the night getting my work done. Luckily, I had a wonderful neighbor who was super helpful in taking care of the baby when I got

overwhelmed."

Soon Jad was in day care, and Abumrad was working full-time.

"For the longest time, I felt guilty about that," she recalls. "But I think, looking back, it was a great thing for both of us. I think he gained a lot of confidence and independence."

Jad grew up to make his mother very proud. He works in New York for National Public Radio and produces the Edward R. Murrow Award-winning program *Radio Lab*.

"I'm very proud of him, and I just love the fact that he's working in journalism, a profession that I also love," she says.

After completing her doctorate, Abumrad went to work as a research associate in the Department of Cell Biology at Syracuse University, but not long after taking that job, her young family was off to Nashville, Tenn., where she began a postdoctoral fellowship in Vanderbilt's physiology department. That's where she began to study fatty acid transport. That's also where her family life suddenly changed.

The first of five children, Abumrad's siblings include two sisters, Huda, a painter and manager of a line of beauty products, and Randa, who has a public relations agency and also likes to renovate homes. A brother Roger, who she says "doesn't have any creative genes and collects degrees," is a mechanical engineer and has a consulting firm for energy management.

Her youngest brother, Rafik, earned a degree in psychology. As they had done with her, Abumrad's parents pushed Rafik to continue his education and become a doctor rather than remain a psychologist. But he never got the chance. As he was finishing up his master's degree in psychology at Vanderbilt, Abumrad's brother suffered a ruptured brain aneurysm and died.

That changed her life in two big ways. First, she lost her baby brother. Then, because Rafik's wife also was having health problems, Abumrad took in their 6-year-old son, Ramzi. Now 22, Abumrad considers Ramzi her second son. Ramzi just graduated from Vassar College with a degree in psychology.

During her years at Vanderbilt, Abumrad published a couple of papers arguing it wasn't possible to explain fatty acid transport

with the accepted theory that fatty acids moved across cell membranes in a passive manner. She proposed that a protein receptor was facilitating fatty acid entry into cells, and that went against the grain of what most of her colleagues believed.

That began to change when she reached her next destination at SUNY Stony Brook. The main reason was that she identified a protein. Called CD36, the protein did the things Abumrad had argued were necessary to facilitate transport and metabolism of fatty acids.

"When you have a protein, you have something you can work with," she says. "I think people started believing more in the work when we had mouse models and could demonstrate that CD36 did have a role in fatty acid uptake and utilization in vivo."

One of her colleagues at both Vanderbilt and Stony Brook, Roger Johnson, says Abumrad was very persistent in winning others over to her way of thinking.

"Her quietly persevering manner clearly won the day against brasher and more outspoken investigators in this field who initially and vociferously discounted her ideas," he says. "Nada exhibits both the perseverance and curiosity necessary to be a really good scientist. And she continues not to be persuaded by conventional thinking, but rather displays a willingness to explore totally new approaches."

The thing that pushed her to continue advancing her work with CD36 was the fact that she just couldn't accept the idea that fatty acids just passively showed up in cells.

"Why would a cell be very fastidious and picky about which sugars and which amino acids it lets into its cytoplasm while just being completely open to any fatty acid any time?" she asks. "It just has to regulate fatty acids the way it regulates other nutrients."

Because changes in fatty acid metabolism had been linked to diseases such as obesity, atherosclerosis and type 2 diabetes, Abumrad's work was of great interest to Samuel Klein, M.D., director of the Center for Human Nutrition and chief of the Division of Geriatrics and Nutritional Sciences at the School of Medicine.

"Nada is an outstanding scientist and a world-class fat cell physiologist," he says. "She provides us with the ability to evaluate the cellular mechanisms responsible for the metabolic abnormalities associated with obesity. She also

has been able to translate her discoveries in animals to humans, which will eventually help us provide better care for patients."

Eventually, he was able to recruit Abumrad to come to St. Louis as the first Atkins Professor. And Abumrad says she was excited to come because of the strong research environment here and the opportunities here to participate in research into so many diseases related to fatty acid metabolism.

"When I visited, I kept thinking, 'Wow! My work would interface well with this person's work!'" she recalls. "There are so many outstanding people here working in the fatty acid area, and the ability to collaborate was a very important thing for me."

The downside of coming to St. Louis was that her son and nephew stayed behind in New York. But there is an advantage to having family out of town if you like to take trips.

"I like to go for weekends in New York to see my son and my nephew," she says. "And we pack in a lot of theater, opera and restaurants during those visits."

Nada A. Abumrad

Born: Beirut, Lebanon

Education: Science Naturelles, B.S., 1972, Faculté Des Sciences, Beirut; Nutrition, 1972, American University of Beirut (M.S. not completed, left for United States); Pharmacology, Ph.D., 1978, from SUNY Medical Center, Syracuse

University position: Dr. Robert C. Atkins Professor of Medicine and Obesity Research

Family: Mother: Marie Rose Hatem; father: Camille Awn (passed away in 1990); sisters: Randa and Huda; brothers: Roger and Rafik (passed away in 1990); son: Jad; nephew: Ramzi

Hobbies/Interests: Travel, theater, opera, movies, books, food/wine, yoga and biking. She's traveled through Burgundy in France a couple of times, and once through California's Napa Valley.

Favorite recent play: *Bridge and Tunnel* by "the awesome" Sarah Jones

Favorite recent opera: *Orfeo ed Euridice* by Gluck at the Chicago Lyric Opera

Favorite recent movie: *Good Night and Good Luck*

Favorite recent book: *The Year of Magical Thinking* by Joan Didion



(From left) Nada Abumrad's nephew, Ramzi, an event coordinator at the Brooklyn Academy of Music; her son, Jad, who produces National Public Radio's *Radio Lab*; and Karla, Jad's fiancée, who is a producer for the PBS show *Now*.