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## Washington University Record, February 26, 2009

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# Record



Washington University in St. Louis

Feb. 26, 2009

record.wustl.edu



**Investment in science** Missouri Sen. Claire McCaskill speaks to reporters about the American Recovery and Reinvestment Act's impact on Missouri in the lobby of Whitaker Hall Feb. 21. The act, among other features, provides more than \$10 billion in additional federal grant money for science research. Chancellor Mark S. Wrighton (left) said WUSTL was "well positioned to compete for the additional funds and to put them to work immediately and wisely." Also speaking were (from second from left) Pat Sullivan of the Home Builders Association; Betty Van Uum, assistant to the provost for public affairs and economic development at the University of Missouri-St. Louis; Anthony Thompson, president and CEO of Kwame Building Group Inc.; Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; and Marcia Mellitz, president and CEO of the Center for Emerging Technologies.

## Spector named dean of art in Sam Fox School of Design & Visual Arts

By CYNTHIA GEORGES

Franklin "Buzz" Spector, professor and former chair of the Department of Art at Cornell University in Ithaca, N.Y., has been named dean of the College and Graduate School of Art in the Sam Fox School of Design & Visual Arts. Spector also will hold the Jane Reuter Hitzeman and Herbert F. Hitzeman, Jr. Professorship of Art.

The appointment, effective July 1, was announced by Carmon Colangelo, dean of the Sam Fox School and the E. Desmond Lee Professor for Collaboration in the Arts.

An internationally recognized artist and critical writer, Spector works in a wide range of mediums including sculpture, photography, printmaking, book arts and installation. He joined the Department of Art in the College of Architecture, Art



Spector

and Planning at Cornell University in 2001 and served as chair of the department until 2007.

Prior to that, he taught at the University of Illinois at Urbana-Champaign, joining the faculty as professor of art in 1994 and serving as head of the painting program from 1997-2001.

Spector has held visiting professorships and lectureships at a number of universities and schools of art, including the University of California's campuses at Los Angeles, Riverside and Santa Barbara; California State University, Fullerton; Art Center College of Design in Pasadena, Calif.; and the School of the Art Institute of Chicago.

"Buzz brings great energy and breadth of experience to Washington University as an academic leader and an internationally recognized artist, writer and art critic," Colangelo said.

See Spector, Page 2

## Less invasive glaucoma surgery allows faster return to normal activity

By JIM DRYDEN

Surgeons at the Washington University Eye Center and Barnes-Jewish Hospital are among the first to use a new surgical device to treat glaucoma.

Surgery with the device, called a Trabectome, is an outpatient procedure that takes less time to perform and offers a shorter recovery than traditional glaucoma surgery.

The device reduces pressure in the eye without the need for the filtration or shunts used in traditional glaucoma surgery by allowing surgeons to remove tissue so fluid more easily drains out of the eye.

"Glaucoma surgery typically redirects fluid so that it no longer builds up inside the eye," said Carla J. Siegfried, M.D., associate professor of ophthalmology and visual sciences. "The surgeon creates a new space where fluid can flow, and then it is slowly reabsorbed by the eye. Less fluid building up in the eye means lower pressure in the eye."

But traditional glaucoma surgery has meant several weeks before a patient fully recovers. During this time, the patient can't do any heavy lifting or bending, and there are long-term risks of infection. With the new procedure, patients usually resume normal activity after about a week.

"The benefit of the new procedure is that we're draining fluid from the eye in a more physiological way," Siegfried said. "Rather than creating a new drainage pathway, we're utilizing what nature gave us, and, in that way, it has less risk, takes less time and offers quicker recovery."

In glaucoma patients, the optic nerve is damaged — that's the nerve that brings information from the eye to the brain. In most cases, pressure from fluid inside the eye is the main culprit in that damage. Lowering eye pressure is



Siegfried



Barnett

the focus of treatment.

That can be done in a number of ways: topical medications such as eye drops; laser treatment; or surgery. Candidates for surgery are those patients who either don't respond to other therapies or can't tolerate them.

"Anyone who does not reach treatment targets with medications or laser therapy can be a candidate for surgery," said Edward M. Barnett, M.D., Ph.D., associate professor of ophthalmology and visual sciences. "A patient doesn't need to have severe damage before traditional glaucoma surgery is considered, but often, those who undergo surgery have more advanced damage."

Glaucoma affects more than 4 million Americans, but according to the Glaucoma Research Foundation, only half are aware of it. It typically has no symptoms and left undiagnosed can lead to severe vision loss and blindness. A comprehensive eye exam is the best way to screen for glaucoma.

Siegfried and Barnett began using the Trabectome in 2007. Now they train other glaucoma specialists how to use the device.

Not all glaucoma patients are good candidates for the device. Those with more advanced disease and patients with certain subtypes of glaucoma will benefit from more traditional types of surgery, Siegfried said. She said patients in the early-to-moderate stages of the disease are the best candidates. The new procedure also is an option for glaucoma

See Surgery, Page 2

## EST celebrates 30 years of helping campus

By NEIL SCHOENHERR

Started in 1979 by a handful of students carrying first-aid equipment in their backpacks, the University's Emergency Support Team (EST) now boasts 53 members, a fully loaded Ford Explorer, several trained emergency medical technicians and a long list of satisfied patients.

EST, a student-run volunteer organization operated under the auspices of the Habif Health & Wellness Center, is celebrating its 30th year on the Danforth Campus.

What began as a humble attempt to assuage concerns over the response time of emergency medical crews from the St. Louis metropolitan region has turned into a 24-hour, seven-days-a-week

emergency medical squad capable of assisting in cases from sprained ankles to heart attacks and stroke.

EST began in 1979 as SHOUT (Student Helping OUT) and consisted of 20 students and staff with varying amounts of emergency medical training. They were dispatched via University Police and responded in a golf cart equipped with trauma kits, oxygen tanks and ice packs.

Over the years, the group has evolved into a well-organized and well-trained group of dedicated students. With a home office in Lien House in the South 40, EST offers CPR classes to the community at a reduced cost and uses a Ford Explorer to respond to calls.

Senior Andrew Mullin, a biology major in Arts & Sciences, has enjoyed working with EST during

his college career.

"Over the past two years, I've been able to teach and train younger, newer medics, which is a lot of fun," Mullin said. "It's great to be able to pass along the knowledge I've gained as part of this team. I think that's a reason we've been so successful. The older medics love taking time to mentor the younger class, so we are able to maintain high-quality service year after year."

The responding crew consists of at least two Missouri EMTs and a third member who is at least CPR- and standard-first-aid-certified. In becoming an EMT, students receive 168 hours of classroom instruction and approximately 50 hours of hands-on training in ambulances and the

See EST, Page 6



Senior Andrew Mullin practices applying a splint on the arm of sophomore Stephanie Higgins during an Emergency Support Team training session Feb. 20.

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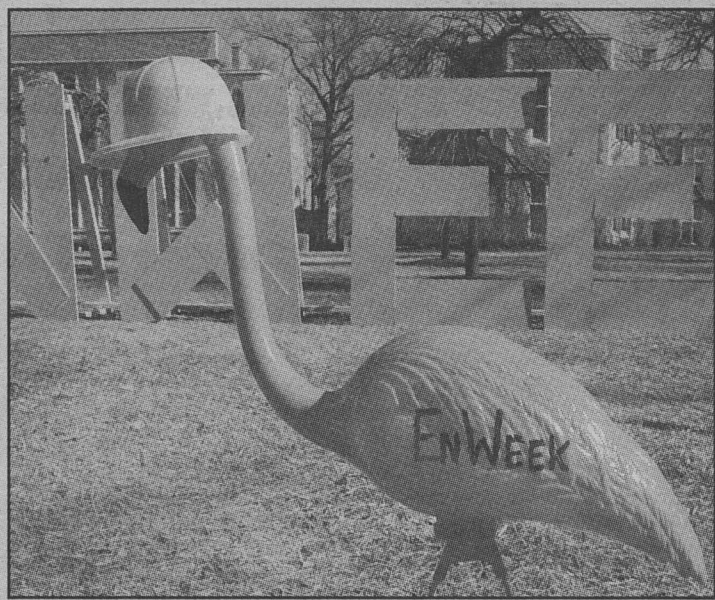
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### EnWeek on campus

Engineering student Justin Char (above, left) assists Zach Marine in the care of his bicycle at the Bike Maintenance Clinic Feb. 17, one of the many activities of Engineering Week Feb. 16-20. The annual week, sponsored by the School of Engineering & Applied Science and designed to raise awareness of the profession, also included a scavenger "golden mouse" hunt throughout the engineering school, pocket bike racing, an undergraduate student research fair, laser tag in Lopata Gallery and an address by WUSTL alum and NASA astronaut Robert Behnken, Ph.D.



## Spector

Will lead 'pre-eminent center for arts education'  
— from Page 1

"He is an outstanding and dedicated teacher who will make substantial contributions to the new curriculum and provide leadership in the development of both the studio art and design programs at the undergraduate and graduate levels," Colangelo said.

Spector said he looked forward to joining the University.

"I've admired the commitment to the arts at Washington University in St. Louis for many years and have lectured and critiqued student work there in the past," Spector said.

"Indeed, several undergraduate students of mine later received their MFAs from Washington University, where the rigor of the design and art studios helped them to significantly expand their critical and creative horizons. I look forward to expanding my own sense of the field, and its multiple contexts, as a colleague at Washington University," Spector said.

Spector's appointment follows from the work of an advisory committee co-chaired by Patricia Olynk, the Florence and Frank Bush Professor of Art and director of the Graduate School of Art, and William Wallace, Ph.D., the Barbara Murphy Bryant Distinguished Professor of Art History in the Department of Art History and Archaeology in Arts & Sciences.

"I am particularly enthused about Buzz Spector's appointment," Olynk said. "His creative work integrates practice with intellectual inquiry, positioning him well to help guide a critically engaged studio-based program — one that is advancing 21st-

century contemporary creative practices and culture through new and innovative educational paradigms."

"With the Sam Fox School, Washington University is creating a pre-eminent center for arts education in the country," Wallace said. "Buzz Spector, with his distinguished track record of interdisciplinary collaboration, has the vision to lead the College of Art in this exciting endeavor."

Spector succeeds Ron Leax, the Halsey Cooley Ives Professor of Art, who will have completed his one-year appointment as dean June 30. Prior to Leax, Jeff Pike, professor of art, served as dean from 1999-2008.

"We are deeply grateful to Ron for serving so effectively as dean of art following Jeff Pike's tenure," Colangelo said. "His steadfast work on the accreditation process of the National Association of Schools of Art and Design and in all areas of the program has been phenomenal."

A native of Chicago, Spector earned a bachelor's degree in art from Southern Illinois University Carbondale in 1972 and a master of fine arts degree from the Committee of Art and Design at the University of Chicago in 1978, combining studies in art and philosophy.

Spector's work makes frequent use of the book, both as subject and as object, and concerns the relationships among public history, individual memory and perception.

He has issued a number of artists' books and editions since the mid-1970s, including "Time Square," a letterpress limited-edition book published in 2007 at Arizona State University in Tempe.

Other publications include "Details: closed to open" (2001), an artist's book of photographic details from images in the Swarthmore College Peace Collection, an archive of historical and con-

temporary information related to peace and social justice, and "Beautiful Scenes: Selections from the Cranbrook Archives" (1998).

Spector's work has been shown in numerous museums and galleries, among them the Art Institute of Chicago, the Los Angeles County Museum of Art, the Museum of Contemporary Art Chicago, the Corcoran Gallery of Art in Washington, D.C., the Mattress Factory in Pittsburgh, and the Luigi Pecci Center for Contemporary Art in Prato, Italy.

Spector is a co-founder of WhiteWalls, a journal of art and language first published in 1977 at the University of Chicago.

He served as the journal's editor until 1987 and since then has written extensively on topics in contemporary art and culture for American Craft, Artforum, Art Issues, Dialogue, Exposure, New Art Examiner and Visions.

He is the author of "The Book Maker's Desire" (1995), critical essays on topics in contemporary art and artists' books, and numerous exhibition catalogue essays, including "Dieter Roth" (1999, University of Iowa Museum of Art) and "Ann Hamilton: Sao Paulo — Seattle" (1992, University of Washington Press).

The recipient of several awards and fellowships, Spector was honored with an Artist's Fellowship from the New York Foundation for the Arts (2005), a Louis Comfort Tiffany Foundation Award (1991), a Visual Artist's Fellowship from the Illinois Arts Council (1988) and three fellowship awards from the National Endowment for the Arts (1991, 1985 and 1982).

"Buzz will make an excellent dean who will lead the College and Graduate School of Art to achieve even greater success and distinction and will help the Sam Fox School realize our vision and goals," Colangelo said.

## Justice conference to feature Jane Spinak

By JESSICA MARTIN

The School of Law's Clinical Affairs Program will host its ninth annual "Access to Equal Justice Colloquium: Critical Perspectives on Court and Law Reform" on March 27 in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

The goal of the conference is to provide a forum for University faculty and students, lawyers, judges, community leaders and government officials to discuss and critique law, court and related systems reform efforts. Organizers hope that the information about how these reforms succeed and fail shared at the conference will drive future reform efforts.

The colloquium is free and open to the public; registration however, is required.

The conference begins at 9 a.m. with a keynote address by Jane M. Spinak, J.D., the Edward Ross Aranow Clinical Professor of Law at Columbia University, on "Court Reform: Rhetoric and Experience."

Spinak is the co-founder of the

Child Advocacy Clinic at Columbia University, where law students work collaboratively with lawyers representing children at the Juvenile Rights Division of The Legal Aid Society of New York City, the oldest and largest law office dedicated to child advocacy in the country.

Conference discussion panel topics are:

- Domestic Violence Legal Processes: Changing Theory and Practice;
- Pursuing Environmental Justice: Obstacles and Opportunities;
- Using Intellectual Property to Preserve Access to Justice;
- Using Mitigation Specialists in State and Federal Cases; and
- Ethical Considerations in Working with Other Professions.

The colloquium also will introduce Annette Appell, J.D., professor of law and associate dean for clinical affairs, who joined the faculty in 2008.

To view the complete conference agenda and register, visit [law.wustl.edu/clinicaled/AccessEqualJustice](http://law.wustl.edu/clinicaled/AccessEqualJustice).

## Urban historian Gordon to speak on St. Louis' transformation

By JESSICA MARTIN

Colin Gordon, Ph.D., professor of history at the University of Iowa, will speak on the "Transformation of Metropolitan St. Louis in the 20th Century," at 4 p.m. Thursday, Feb. 26, in Brown Hall Lounge.

Gordon is the author of the 2008 book, "Mapping Decline: St. Louis and the Fate of the American City." Using both conventional archival research and digital mapping of a range

of archival, demographic and political data, the book traces the transformation of metropolitan St. Louis in the 20th century.

Gordon's lecture is part of the George Warren Brown School of Social Work's ongoing lecture series, which brings speakers from around the world to discuss a range of social policy issues.

The talk is free and open to the public. For more information, call Terri Behr at 935-6630.

## Surgery

Recovery is rapid with this procedure  
— from Page 1

patients having cataract surgery who want to reduce the number of glaucoma medications they use.

"It's the level of the disease that allows us to use this procedure in certain patients," Siegfried said.

"Those who get this procedure are often very happy because the recovery is so rapid, but it's not for everyone, and it doesn't cure glaucoma. At this time, there is no cure. Our goal is to control it, to preserve vision and to prevent further damage."

For more information about the procedure, contact Siegfried or Barnett at the Washington University Eye Center at 362-3937.

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 Washington University in St. Louis



## School of Medicine Update

# People who exercise lower their risk of colon cancer

By GWEN ERICSON

**A**n ambitious new study has added considerable weight to the claim that exercise can lower the risk for colon cancer.

Researchers at the School of Medicine and Harvard University combined and analyzed several decades worth of data from past studies on how exercise affects colon cancer risk. They found that people who exercised the most were 24 percent less likely to develop the disease than those who exercised the least.

"What's really compelling is that we see the association between exercise and lower colon cancer risk regardless of how physical activity was measured in the studies," said lead study author Kathleen Y. Wolin, Sc.D., assistant professor of surgery. "That indicates that this is a robust association and

gives all the more evidence that physical activity is truly protective against colon cancer."

Colorectal cancer is the third most common type of cancer. Each year more than 100,000 people in the United States are diagnosed with colon cancer, and about 40,000 are diagnosed with rectal cancer. The study suggests that if the American population became significantly more physically active, up to 24 percent, or more than 24,000, fewer cases of colon cancer would occur each year.

Wolin's report was published Feb. 10 through advance online publication in the

British Journal of Cancer. In the study, she and her colleagues gathered the results from all relevant studies published in English on the effect of physical activity on colon cancer risk.

They eliminated from consideration any studies that combined both colon and rectal cancer because exercise has not been shown to affect rectal cancer risk — including such studies would have led to an underestimation of the effect of exercise on colon cancer risk. In all, they analyzed 52 studies going back as far as 1984, making their analysis the most comprehensive to date.

They found that the protective effect of exercise held for all types of physical activity, whether that activity was recreational, such as jogging, biking or swimming, or job-related, such as walking, lifting or digging.

"The beneficial effect of exercise holds across all sorts of activities," said Wolin, a

cancer prevention and control expert with the Siteman Cancer Center.

"And it holds for both men and women. There is an ever-growing body of evidence that the behavior choices we make affect our cancer risk. Physical activity is at the top of the list of ways that you can reduce your risk of colon cancer," Wolin said.

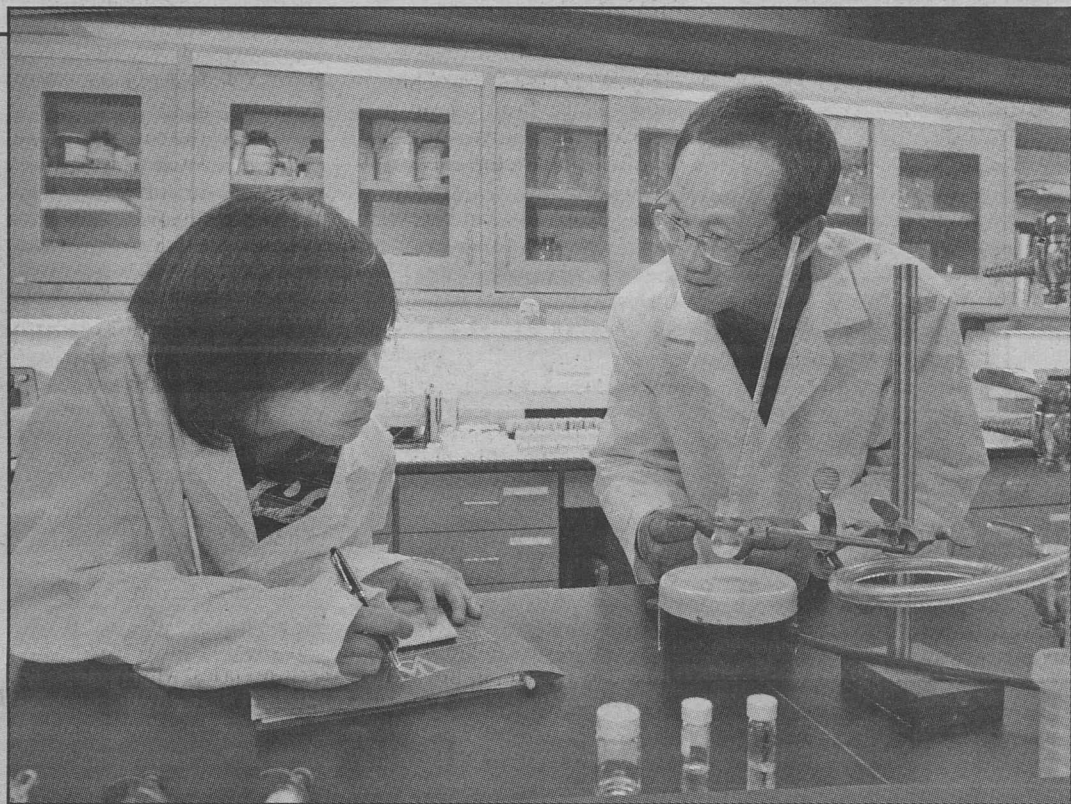
The difference between people who were the most physically active and those who were the least varied from study to study in Wolin's analysis.

As an example, in a 2007 study by Wolin and colleagues, women who walked the most realized a 23 percent reduction in their risk of colon cancer.

Those highly active women walked briskly for five to six hours each week. By comparison, the women in that study who walked the least walked only a half hour each week.



Wolin



**Science guys** John Ordone (left), a seventh grader at McKinley Classical Junior Academy middle school in St. Louis, conducts an experiment in a lab with Hongwei Du, Ph.D., a postdoctoral research associate in the Department of Ophthalmology and Visual Sciences, as part of the 2009 Junior Scientist Institute sponsored by the Association of Black Biomedical Graduate Students. The experiment was an exercise to synthesize nanomaterials through chemistry methods and used transmission electron microscopy pictures to show what nanomaterials look like. Twenty students from McKinley and Marian Middle School came to the School of Medicine Feb. 17 for a full scientific research immersion and worked one-on-one with doctoral and M.D./Ph.D. students and postdoctoral researchers in an effort to ignite the spark of science appreciation and create a pipeline for future scientific researchers.

## Grad student's kidney gives life to stranger

By DIANE DUKE WILLIAMS

**L**ast year, Chuck Rickert, a fifth-year student in the M.D./Ph.D. program at the School of Medicine, heard a show about kidney donation on National Public Radio's "Talk of the Nation." One of the callers, a man in his 50s on dialysis, said his blood type did not match any friends or family, and his only option for a new kidney was to wait for something bad to happen to a younger person.

The distressed man's call stuck with Rickert.

"I guess it really put a face on the issue for me," he said. "I started researching the risks of donating a kidney and realized that they were small compared to the great need for donation."

Rickert determined that the risks, such as bleeding and infection, are similar to those involved with any major surgery. He also found that kidney donation does not change life expectancy or increase a person's risks of developing kidney disease or other health problems.

Rickert's parents and sister were a little taken aback when he brought up donating, but they soon became supportive of his decision. He then underwent medical and psychological testing through Mid-America Transplant Services and the Second Chance Program, both in St. Louis.

Six months later, in July 2008, Rickert donated a kidney to a 10-year-old girl who lives in Montana. She was born with hyperoxaluria, a disease that eventually causes kidney failure. Rickert was a nondirected donor, someone who donates anonymously and doesn't know the recipient.

His surgery and recovery went smoothly, and Rickert was back at work in the laboratory of Robert D. Schreiber, Ph.D., the Alumni Endowed Professor of Pathology and Immunology,

a week-and-a-half later.

He said he has no regrets about donating a kidney.

"But it's a decision people need to come to on their own after discussing the donation with the important people in their lives," Rickert said. "In talking about my experience, I'd love for people to think more seriously about donating."

Kidney donation is not the first act of altruism for Rickert. He volunteered with emergency medical services in New Orleans

and Paris while in school at Tulane University and the Sorbonne. And between graduating from New York University with a degree in philosophy and beginning at Washington University School of Medicine, Rickert spent most of a year working at a children's health clinic in Port Au Prince, Haiti.

The home is run by an order of nuns started by Mother Teresa.

"Service to the community was a major aspect of my childhood, and my parents led by example," Rickert said. "Service to others also was important to me in choosing a career."

Rickert's father is an administrative law judge with the Social Security Administration in Peoria, Ill., and his mother is director of family preservation and support services at the Children's Home Association of Illinois.

Rickert also is a teaching assistant in the first-year physiology course. Coursemaster Robert S. Wilkinson, Ph.D., recently asked him to deliver a full lecture about kidney transplantation in his class.

"Chuck is the first student to whom I've entrusted a lecture presentation to the entire medical school class, and he did a great job," Wilkinson said.

"I can't say enough good things about Chuck. He is one of those rare students who's so mature and exceptional that he seems more like a colleague than a student," he said.



Rickert

## School, College of Pharmacy to swap land

**T**he School of Medicine and St. Louis College of Pharmacy (STLCOP) are swapping about 1.2 acres of land.

According to the agreement, the School of Medicine will take ownership of the Rabe Hall property at 4520 Forest Park Ave., and STLCOP will acquire two separate parking lots, on the southwest and northwest corners of Parkview Place and Taylor Avenue.

STLCOP will tear down Rabe Hall, an apartment building, after

**Through this land transfer, both institutions gain a land footprint that is better for long-range growth and development.**



Rabe Hall at 4520 Forest Park Ave. is part of the land swap with the St. Louis College of Pharmacy.

STLCOP begins any construction, which is not expected until at least 2010.

Through this land transfer, both institutions gain a land footprint that is better for long-range growth and development, although within the School of Medicine there are no immediate plans for developing the Rabe Hall site and the other University property adjacent to it.

May 15, when all current student leases from the 2008-09 school year have expired. Once demolition is complete and the site is cleared, ownership of the lot will be transferred to the School of Medicine.

The School of Medicine will retain access to the two surface parking lots along Parkview Place after the sale through a lease agreement. School employees may continue to use these parking lots until

## Hampton/Wells intersection in Forest Park to close

**G**ateway Constructors will be closing the Hampton Avenue at Wells Drive intersection in Forest Park for reconstruction starting March 2.

It will remain closed for up to 2½ months and will reopen when the Hampton bridge reopens May 22.

Vehicles will no longer be permitted at that intersection as crews complete the bike path tunnel

and construct the new roundabout.

Vehicles coming eastbound on Wells in the park will be detoured across the Tamm Avenue bridge to Oakland Avenue. Westbound vehicles from the Medical Center will not be able to proceed west of the roundabout near the Jewel Box. Bicyclists will be detoured through the work zone until the new tunnel is complete.



# University Events

## Kingsbury Ensemble to feature natural horn player R.J. Kelley

The Kingsbury Ensemble, one of the Midwest's premier early music ensembles, will present a concert of Classical and early Romantic works for natural horn, soprano and fortepiano at 8 p.m. March 5 in the Ballroom Theater of the 560 Music Center.

Harpischordist Maryse Carlin, instructor in the Department of Music in Arts & Sciences, directs the ensemble, which frequently draws early music specialists from across the United States.

The program will feature lieder (typically for one singer and piano) by Franz Schubert and sonatas by Ludwig van Beethoven and Nikolaus Freiherr von Krufft.

Appearing as special guest artist will be renowned natural horn player R.J. Kelley. Kelley will be joined by soprano Jennifer Jakob and fortepianist Seth Carlin, professor of music and head of WUSTL's piano program in the Department of Music.

On Wednesday, March 4, the Department of Music and the Kingsbury Ensemble will co-sponsor a lecture-demonstration on the natural horn by Kelley. The event, free and open to the public, will take place at 5 p.m. in the Recital Hall of the 560 Music Center and will present a unique

opportunity to learn more about this instrument and its rich repertoire, Maryse Carlin said.

Praised as one of the great masters of the natural horn, Kelley is in international demand as soloist and chamber artist. He has appeared as soloist with New York's acclaimed Aulos Ensemble, the American Classical Orchestra, the San Francisco Philharmonia Baroque and the Freiburg Barock Orchestra (Germany). Equally adept on modern horn, Kelley also has performed with the New York Philharmonic and on Broadway.

The valveless horn, or Waldhorn, has been used for signaling since antiquity and was first used for musical entertainment in Europe in the late 17th century at events centered on court life and the royal hunt. The horn was equipped with a modern valve system in the 19th century.

Seth Carlin will join Kelley in sonatas by Beethoven and von Krufft. Carlin has performed with orchestras around the world and with conductors including Nicholas McGegan, Leonard Slatkin and Roger Norrington. He has appeared in recitals at major international festivals and with Pinchas Zukerman, Anner Bylisma and Malcolm Bilson, among

others, and recorded music of Mozart, Beethoven and Schubert on fortepiano.

For the past two years, Jakob has been a Leigh Gerdine Young Artist for Opera Theatre of St. Louis. She has performed at the Sheldon Auditorium and in Washington University's Liederabend.

A native of Germany and a graduate of Oberlin College, she is a recipient of a prestigious Sara Tucker Study Grant awarded by the Richard Tucker Music Foundation in New York and will be making her debut at the Sante Fe Opera this summer.

A highlight of the program will be a performance of Schubert's "Auf dem Strom (On the River)" for fortepiano, soprano and horn.

Tickets are \$10 at the door and free for WUSTL students with a valid ID.

The Kingsbury Ensemble's next concert is April 4 at Trinity Presbyterian Church in University City.

The program, "Folias from Spain, Italy and France," will feature Brazilian recorder player Clea Galhano.

For more information, call 862-2675 or visit [kingsburyensemble.org](http://kingsburyensemble.org).

## Poet Shaughnessy to speak for Writing Program Reading Series

Poet Brenda Shaughnessy will read from her work at 8 p.m. March 5, in Duncker Hall, Room 201, Hurst Lounge for the Writing Program Reading Series.

Shaughnessy is the author of "Human Dark with Sugar" (2008), winner of the James Laughlin Award from the Academy of American Poets and one of five finalists for the 2008 National Book Critics Circle award in poetry.

Her earlier collection, "Interior with Sudden Joy" (1999), was nominated for the PEN/Joyce Osterweil Award for Poetry, a Lambda Literary Award and the Norma Farber First Book Award.

"Sassy, tough-girl humor ... Shaughnessy's voice is smart, sexy, self-aware, hip ... consistently wry, and ever savvy," noted the Harvard Review.

Shaughnessy's poems have appeared in Best American Poetry, Bomb, Boston Review, Conjunctions, McSweeney's, The New Yorker, The Paris Review and The Yale Review, among other journals.

A frequent visiting writer and lecturer, Shaughnessy also is the poetry editor of Tin House magazine.

Born in Okinawa, Japan, and raised in Southern California, Shaughnessy earned a bachelor's degree in literature and women's studies at the University of California, Santa Cruz, and a master of fine arts degree at Columbia University in New York.

She is lecturer in creative writing in the Lewis Center for the Arts at Princeton University. She also teaches at Eugene Lang College, the undergraduate liberal arts division of The New School in New York City.

Shaughnessy is the recipient of a Bunting Fellowship from the Radcliffe Institute for Advanced Study at Harvard University. She has received additional fellowships from the Japan-U.S. Friendship Commission, the Greenwall Foundation and the MacDowell Colony and Yaddo, artists' communities in New Hampshire and New York, respectively.

The talk is free and open to the public. A reception and book signing will follow.

For more information, call 935-7130 or e-mail David Schuman at [dschuman@wustl.edu](mailto:dschuman@wustl.edu).

## Jewish Spain • The Bologna Reforms • The Taiping Rebellion

"University Events" lists a portion of the activities taking place Feb. 26-March 11 at Washington University. Visit the Web for expanded calendars for the Danforth Campus ([news-info.wustl.edu/calendars](http://news-info.wustl.edu/calendars)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

**"Eero Saarinen: Shaping the Future."** Through April 27. Mildred Lane Kemper Art Museum. 935-4523.

**"On the Riverfront: St. Louis and the Gateway Arch."** Through March 9. Steinberg Hall Architecture Gallery. 935-4523.

**"Paris — From the Commune of 1871 to the Exposition of 1900: Images From the Russell Sturgis Photograph Collection."** Through March 30. Olin Library, Lvl. 1, Ginkgo Rm. 935-9730.

### Lectures

#### Thursday, Feb. 26

**7:30 a.m.-5 p.m. Surgery CME Course.** "Annual Refresher Course and Update in General Surgery." (Continues 7:30 a.m.-9:30 p.m. Feb. 27, 7:30-11:40 a.m. Feb. 28.) Four Seasons Hotel, Lumiere Place Casino & Hotels, 999 Second St. For costs and to register: 362-6891.

**Noon. Genetics Seminar.** "The Complex Genetic Causes of a Trivial Morphological Difference Between *Drosophila* Species." David Stern, assoc. prof. of ecology & evolutionary biology, Princeton U. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**4 p.m. Chemistry Seminar.** "Atomic-Resolution Studies of Protein Structure and Dynamics by Magic-Angle Spinning Solid-State NMR Spectroscopy." Christopher Jaroszewicz, asst. prof. of chemistry, Ohio State U. McMillen Lab., Rm. 311. 935-6530.

**4 p.m. Vision Science Seminar Series.** "From Man to Mouse and Back to Man: Amyloid-beta Metabolism and its Role in Alzheimer's Disease." Shin-ichiro Imai, assoc. prof. of developmental biology. Maternity Bldg., Rm. 725. 362-3315.

#### Friday, Feb. 27

**All Day. Romance Languages and Literatures Symposium.** "Jewish Spain." Danforth University Center, Rm. 276. 935-5175.

**9:15 a.m. Pediatric Grand Rounds.** Donald Thurston Memorial Lecture. "Mitochondrial

Fatty Acid Oxidation in the Era of Expanded Newborn Screening." Arnold W. Strauss, prof. of pediatrics, U. of Cincinnati College of Medicine. Clifton Aud., 4950 Children's Place. 454-6006.

**11 a.m. Energy, Environmental and Chemical Engineering Seminar.** "The Health Hazards and Possible Benefits of Environmental Endotoxin Exposure." Harvey Checkoway, prof. of environmental health, U. of Wash. Lopata Hall, Rm. 101. 935-5548.

#### Saturday, Feb. 28

**10 a.m. Conversations in Biology Speaker Series.** "Darwin, Eugenics and the Self-Direction of Human Evolution: What Can We Learn From the Past?" Rebstock Hall, Rm. 215. 935-6871.

**11 a.m. MLA Saturday Seminar Series.** "The Legal Idea of a University in a Democratic Society." Kent Syverud, dean, School of Law. McDonnell Hall, Goldfarb Aud. 935-6700.

#### Monday, March 2

**10 a.m. Electrical & Systems Engineering Seminar.** "Functional Data Analysis Methods for Actigraphy in Sleep Medicine." William Shannon, assoc. prof. of biostatistics in medicine. Bryan Hall, Rm. 305. 935-5565.

**4 p.m. Energy, Environmental and Chemical Engineering Seminar.** "The Energy Challenge for Membrane Technology in the Water Industry." Tony Fane, prof. of chemical sciences and engineering, U. of New South Wales, Sydney, Australia. Cupples II Hall, Rm. 101. 935-5548.

**4 p.m. Immunology Research Seminar Series.** "Regional Regulations of CNS Inflammation by Cytokines and Chemokines." John Russell, prof. of developmental biology, Farrell Learning & Teaching Center, Connor Aud. 362-2763.

**5:30 p.m. Cardiac Bioelectricity and Arrhythmia Center Seminar.** "Developmental Aspects of Atrioventricular Node Reentry." George F. Van Hare, prof. of pediatrics. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

**6:30 p.m. Sam Fox School Spring Lecture Series.** "The Future of the Image." W.J.T. Mitchell, prof. of English and art history, U. of Chicago. (Reception 6 p.m.) Steinberg Aud. 935-9300.

#### Tuesday, March 3

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Metagenomics: From Corals to Cystic Fibrosis Lungs." Forest Rohwer, assoc. prof. of biology, San Diego State U. Cori Aud., 4565 McKinley Ave. 362-7243.

### How to submit 'University Events'

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

**e-mail** — [recordcalendar@wustl.edu](mailto:recordcalendar@wustl.edu)

**campus mail** — Campus Box 1070

**fax** — 935-4259

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

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

#### Wednesday, March 4

**11 a.m. Assembly Series.** Compton Science Lecture. "The Development of New Nanocrystal Molecules for Biological Sensing and Detecting." A. Paul Alivisatos, prof. of chemistry and materials science, U. of Calif., Berkeley. Graham Chapel. 935-5285.

**6:15 p.m. Germanic Languages & Literatures Panel Discussion.** "The

Bologna Reforms and the Future of the German University: German and American Perspectives." Mallinckrodt Student Center, Lambert Lounge. 935-5106.

**2 p.m. NIH/ORWH National Conference.** "Moving Into the Future — New Dimensions and Strategies for Women's Health Research for the National Institutes of Health." (Continues 7 a.m. March 5 and 6.) Sponsored by the Office of the Vice Chancellor for Research. Eric P. Newman Education Center. Registration required: [research.wustl.edu/womenshealth](http://research.wustl.edu/womenshealth).

**4 p.m. East Asian Studies Lecture.** "A Confucian Great Awakening: Religious Responses to the Taiping Rebellion in Jiangnan." Tobie Meyer-Fong, assoc. prof. of history, Johns Hopkins U. Duncker Hall, Rm. 201, Hurst Lounge. 935-4448.

**4 p.m. Institute for Public Health Faculty Seminar Series.** "The Changing Face of Big Tobacco and New Public Health Predicaments." Peter Benson, asst. prof. of anthropology. Steinberg Aud. 454-7998.

**5 p.m. Dept. of Music Lecture Series.** "Introduction to the Valveless Horn of the Late Eighteenth and Early Nineteenth Century." R.J. Kelley. Recital Hall, 560 Trinity Ave. 935-5566.

#### Thursday, March 5

**Noon. Genetics Seminar.** "Molecular Arms-Races in the Evolution of Antiviral Genes in Primate Genomes." Harmit Malik, div. of basic sciences, Fred Hutchinson Cancer Research Center. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

### I-CARES open house Feb. 27

The International Center for Advanced Renewable Energy and Sustainability (I-CARES) will hold an open house at 4 p.m. Friday, Feb. 27, in the Wilson Hall Third Floor Atrium.

Cancellor Mark Wrighton will join I-CARES director Himadri B. Pakrasi, Ph.D., the George William and Irene Koechig Freiberg Professor of Biology in Arts & Sciences and professor of energy in the School of Engineering & Applied Science, and other members of the I-CARES

community in celebrating the opening accomplishments of the center.

I-CARES was formed in 2007 to encourage and coordinate collaborative research in the areas of renewable energy and sustainability — including biofuels, carbon dioxide mitigation and coal-related issues. WUSTL is making a major commitment to I-CARES research.

Refreshments will be served. For more information, contact special projects coordinator Suzanne Loui at 935-8093.

**4 p.m. Vision Science Seminar Series.** "Progress and Problems in the Development of Vitreous Substitutes." Nathan Ravi, prof. of ophthalmology and visual sciences. Maternity Bldg., Rm. 725. 362-3315.

**8 p.m. Writing Program Reading Series.** Brenda Shaughnessy, lecturer in creative writing, Princeton U. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

#### Friday, March 6

**11 a.m. Energy, Environmental and Chemical Engineering Seminar.** "Cancer Prevention Through a Precautionary Approach to Environmental Chemicals." David Kriebel, prof. of work, environment and health, U. of Mass. Lowell. Lopata Hall, Rm. 101. 935-5548.

**Noon. Cell Biology and Physiology Seminar.** "Jumping Into the Deep End of the Translation Pool." Jason D. Weber, assoc. prof. of medicine. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

**12:30 p.m. Biostatistics Seminar Series.** Huixia Judy Wang, asst. prof. of statistics, N.C. State U. 362-1565.

#### Monday, March 9

**4 p.m. Immunology Research Seminar Series.** "Genomics of Tolerance." Christophe Benoist, Joslin Diabetes Center. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

**4 p.m. Siteman Cancer Center Seminar.** "Human-Specific Genes — Do They Exist and Are They Important in Human Cancer." Philip D. Stahl, prof. of cell biology and physiology. Center for Advanced Medicine, Farrell Conference Rm. 2. 454-8981.

#### Tuesday, March 10

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "RNAi: Antiviral Defense and Counter Defense in Insects." Raul Andino, prof. of microbiology and immunology, U. of Calif., San Francisco. Cori Aud., 4565 McKinley Ave. 286-1123.

**5:30 p.m. Biochemistry & Molecular Biophysics Biophysical Evenings Seminar.** "Fluctuations in Mesoscopic Non-Equilibrium Steady State Systems." Elliot Elson, prof. of biochemistry & molecular biophysics. Cori Aud., 4565 McKinley Ave. 362-4152.

**4 p.m. Siteman Cancer Center Seminar.** "Towards Re-definition of Molecular Imaging and Radiotherapy in Radiation Oncology." Chaitanya R. Divgi, prof. of radiology, U. of Pa. Center for Advanced Medicine, Farrell Conference Rm. 1. 454-8981.



## Nanoscience pioneer Alivisatos to deliver Compton lecture

By MARY KASTENS

**N**anoscience and its applications will play a major role in future scientific and medical breakthroughs. For the past two decades, A. Paul Alivisatos, Ph.D., has been at the forefront of this revolution.

Alivisatos will be at WUSTL 11 a.m. Wednesday, March 4, in Graham Chapel to deliver the Arthur Holly Compton Lecture on "The Development of New Nanocrystal Molecules for Biological Sensing and Detecting" for the Assembly Series.

Alivisatos has gained worldwide recognition for his pioneering work in the creation of nanocrystals that are now being used as tracers that, depending on size, emit light of different colors.

His many contributions to nanotechnology have been acknowledged through numerous honors, including membership in the National Academy of Sciences and the American Academy of Arts and Sciences.

He is a Fellow in the American Association for the Advancement of Science and the American Physical Society. His research has been published in the journals

Nature and Science.

In the private sector, he is founder and editor-in-chief of Nano Letters, a journal of the American Chemical Society, as well as the scientific founder of the Quantum Dot Corp. He has helped launch several successful nanotech startups and has mentored a growing number of young nanoresearchers.

Alivisatos earned a bachelor's degree in chemistry from the University of Chicago, graduating with honors in 1981. He earned a doctorate in chemical physics from the University of California, Berkeley, in 1986.

After postdoctoral work at AT&T Bell Labs, he joined the faculty at the University of California, Berkeley, in 1988. He is the Larry and Diane Bock Professor of Nanotechnology and holds a joint appointment as professor in the departments of chemistry and materials science. In addition, he is associate lab director for physical sciences and director of the materials sciences division at the Lawrence Berkeley National Lab.

The lecture is free and open to the public.

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



Alivisatos

## Buder Center to take part in Native American forum March 4

By JESSICA MARTIN

**S**cholars from the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work will take part in a community awareness forum at 6:30 p.m. Wednesday, March 4, at the Schlafly Branch of the St. Louis Public Library.

The forum, "Native Voices: Unveiling the Myths behind the Headdress, Moccasins and

Tipi," is co-sponsored by the St. Louis Diversity Awareness Partnership, the Diversity Committee of the St. Louis Public Library and the Buder Center.

Its goal is to address current issues and stereotypes faced by Native Americans in the United States.

The event is free and open to the public.

For more information, visit [dapstl.org/nativevoices.html](http://dapstl.org/nativevoices.html) or call 436-7628.

## Music

### Thursday, Feb. 26

**8 p.m. Jazz at Holmes.** Sometime Then and Again Quartet. William Lenihan, guitar, and Dave Stone, saxophone. Ridgley Hall, Holmes Lounge. 862-0874.

### Friday, Feb. 27

**6 p.m. Kemper Presents Concert Series.** Theodore. Kemper Art Museum. 935-4523.

**8 p.m. Concert.** Trinity Piano Trio. Danforth University Center, Formal Lounge. 935-5566.

### Sunday, March 1

**3 p.m. Symphony Orchestra.** E. Desmond Lee. Concert Hall, 560 Trinity Ave. 935-5566.

### Monday, March 2

**8 p.m. Student Recital.** Recital Hall, 560 Trinity Ave. 935-5566.

### Wednesday, March 4

**8 p.m. Senior Voice Recital.** Jay O'Brien. Theater, 560 Trinity Ave. 935-5566.

### Thursday, March 5

**8 p.m. Concert.** Kingsbury Ensemble. Ballroom Theater, 560 Trinity Ave. 935-5566.

**8 p.m. Jazz at Holmes.** Portnoy, Lenihan and Guth Trio. Ridgley Hall, Holmes Lounge. 862-0874.

### Friday, March 6

**6 p.m. Kemper Presents Concert Series.** Mmmelt. Kemper Art Museum. 935-4523.

## On Stage

### Saturday, Feb. 28

**11 a.m. ovations for young people series.** The Ahn Trio. Cost: \$8. Edison Theatre. 935-6543.

## Sports

### Saturday, Feb. 28

**Noon. Baseball vs. Coe College.** Athletic Complex. 935-4705.

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

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

### Sunday, March 1

**12:30 p.m. Baseball vs. Coe College.** Athletic Complex. 935-4705.

**3:30 p.m. Baseball vs. Fonthonne U.** Athletic Complex. 935-4705.

## Look here for 'green' tips

**A**s part of Washington University's commitment to promoting sustainability, the Record will offer weekly "Green Your Office" tips to promote efficiency and waste reduction at offices on campus.

Have a green tip suggestion? Send your own green office tips to [wugreenoffice@gmail.com](mailto:wugreenoffice@gmail.com).

## Green Your Office

Turn off lights when you're not in or when natural light is sufficient.

## 'The Future of the Image' topic of lecture by Mitchell March 2

**W**J.T. Mitchell, the Gaylord Donnelley Distinguished Service Professor in the departments of Art History and English at the University of Chicago, will speak on "The Future of the Image" at 6:30 p.m. Monday, March 2, as part of the Sam Fox School of Design & Visual Arts' spring lecture series.

Co-sponsored by the Department of Art History & Archaeology in Arts & Sciences, the talk will be presented in the Etta Eisman Steinberg Auditorium and is free and open to the public.

Mitchell is an award-winning teacher, scholar and theorist of media, art and literature. He is associated with the emergent fields of visual culture and iconology (the study of images across the media) and is known for his work on the relations of visual and verbal representations in the context of social and political issues.

Mitchell is editor of the interdisciplinary journal Critical Inquiry, a quarterly on critical theory in the arts and human sciences. Special issues have focused on public art, psychoanalysis, pluralism, feminism, the sociology of literature, canons, race

and identity, narrative, the politics of interpretation and postcolonial theory, among other topics.

His publications include "The Pictorial Turn" (Artforum, March 1992) and the following books, among others, published by the University of Chicago Press: "What Do Pictures Want? Essays on the Lives and Loves of Images" (2005); "The Last Dinosaur Book: The Life and Times of a Cultural Icon" (1998); "Landscape and Power" (ed., 1994); and "Iconology: Image, Text, Ideology" (1986).

Mitchell has been the recipient of numerous awards, including a Guggenheim Fellowship and the Morey Prize in art history given by the College Art Association of America.

His collection of essays titled "What Do Pictures Want?" won the Modern Language Association's prestigious James Russell Lowell Prize in 2006. In 2003, he received the University of Chicago's prestigious Faculty Award for Excellence in Graduate Teaching.

A reception for Mitchell will begin at 6 p.m. For more information, call 935-4523 or visit [kempermuseum.wustl.edu](http://kempermuseum.wustl.edu).

## Sports

### Women's basketball wins UAA title

The No. 11 women's basketball team clinched the University Athletic Association (UAA) championship, picking up the conference's automatic bid to the NCAA tournament with a pair of victories last weekend.

Four players scored in double figures as the Bears defeated Carnegie Mellon University 78-58 Feb. 20. Senior Jaimie McFarlin led WUSTL with 16 points and nine rebounds, with junior Janice Evans (12 points), freshman Alex Hoover (12) and senior Halsey Ward (10) also scoring in double figures.

Against No. 6 University of Rochester Feb. 22, Evans led all scorers with 19 points as WUSTL secured a 65-52 win and the UAA championship. For the week, she averaged 15.5 points per game.

The Bears will be making their 20th consecutive appearance in the NCAA tournament and head coach Nancy Fahey tallied 20 wins in a season for the 19th time in her WUSTL career.

WUSTL (20-4, 12-1 UAA) will conclude its regular season schedule at 1 p.m. Saturday, Feb. 28, at home against the University of Chicago.

### Men's basketball splits home games

The No. 2 men's basketball team had its 13-game winning streak snapped with a 70-69 setback to the visiting University of Rochester Feb. 22, leaving coach Mark Edwards one win shy of 500 in his career.

Junior Aaron Thompson led WUSTL with 20 points and became the 18th player in school history to score 1,000 career points. Senior Sean Wallis (18 points), senior Tyler Nading (11) and sophomore Caleb Knepper (10) also scored in double figures.

Nading poured in a season-high 29 points to lead the Bears to a 77-63 victory over No. 25 Carnegie Mellon University Feb. 20. Wallis (15 points) and Thompson (13) also scored in double figures.

WUSTL (22-2, 12-1 UAA) ends regular-season play at home at 3 p.m. Saturday, Feb. 28, against the University of Chicago. The team will honor its two seniors, Nading and Wallis, who will be playing their final regular-season game at the WU Field House.



Sean Wallis plays his last home game Saturday.

### Swimmers get one last chance to qualify

The men's and women's swimming teams sent select members to the Midwest Invitational Meet Feb. 20-21 in Chicago with the aim of setting their final NCAA Division III championship qualifying times of the year.

Junior Brian Kushner and Dima Galkin made the trip for the men's team, swimming freestyle and breaststroke events. Kushner won the 500-yard freestyle with an NCAA "B" cut time of 4:34.67, and he later went on to improve on that mark in a time trial, finishing in 4:34.60. He cut .56 seconds off his previous season-best time in the event. Galkin swept the 100- and 200-yard breaststroke races. His first-place time of 58.52 in the 100-breaststroke was good enough to be an NCAA "B" cut, but it was not his top mark of the year.

On the women's side, sophomores Claire Henderson and Karin Underwood respectively swam the 100- and 200-yard backstroke. Henderson ranked second in the 100-backstroke with a time of 1:00.83, and she swam a 59.57 in a 100-back time trial, but the provisional cut was not a season-best. Underwood won the 200-backstroke in 2:07.26, also an NCAA "B" cut but not a personal-best time.

The 2009 NCAA Division III men's and women's championships

will be held March 18-21 in Minneapolis. The field will be announced March 6.

### Track teams split up to compete

The men's and women's indoor track and field teams split up last week to compete at the Illinois College Alumni Classic Feb. 20 in Jacksonville, Ill., and the Wartburg Invitational Feb. 21 in Waverly, Iowa.

The pole-vaulters and long jumper made the trip to Illinois College. For the women, freshman Katie Hered won the pole vault with a season-best height of 3.46 meters.

Sophomore Scott Petit placed first for the men in the pole vault, with a new personal-best height of 4.42 meters.

At Wartburg, freshman Elizabeth Phillips won the mile run with an NCAA provisional time and new school record of 4:57.86, a mark that ranks eighth in the nation. Senior Danielle Wadlington had a pair of NCAA provisional marks, placing first in the triple jump (11.54 meters) and second in the 55-meter hurdles (8.51).

The next meet for both teams is March 6-7 at the University Athletic Association (UAA) championships in New York.

### Men's tennis finishes second in tourney

The top-ranked men's tennis team dropped a 6-3 decision to No. 2 Emory University in the championship match of the 2009 Intercollegiate Tennis Association National Team Indoor Championships Feb. 22.

WUSTL posted victories over No. 12 Trinity University in the first round and No. 8 Kenyon College in the semifinal. Junior John Watts notched a 6-0 record in the Bears' three matches, including two singles victories over top 15 opponents.

WUSTL (3-2) opens its spring break trip in California March 11 against No. 11 Bowdoin College.





**Move over, American Idol** Real talent is found at IdeaBounce sessions, where judges listen to entrepreneurs as they audition ideas for new and innovative ventures. Six contestants — all WUSTL students — won \$100 each at the Feb. 19 IdeaBounce held in Whitaker Hall for ideas ranging from high-tech phones with built-in jump drives to a walker for the elderly that navigates steps. The Skandalis Center for Entrepreneurial Studies sponsors IdeaBounce sessions throughout the academic year, and the sessions are open to the public. Judges pictured (from left) Kevin Krosley of Sigma-Aldrich; Steve Gambaro, ME '73 and business owner; Deborah Radasch of Boeing Research & Technology; and David Strom of David Strom Inc. The next IdeaBounce will be held March 26 at Steinberg Hall. To register, visit [scs.wustl.edu/ideabounce](http://scs.wustl.edu/ideabounce).

## Student book collectors can win cash prizes

Students who have a passion for collecting books can compete for prizes of \$1,000 or \$500 by entering the 22nd annual Neureuther Student Book Collection Essay Competition.

Sponsored by Washington University Libraries, the Neureuther competition offers prizes to four students who write short essays about their personal book collections. A first prize of \$1,000 and a second prize of \$500 are awarded at both the graduate and undergraduate levels.

Applicants must be current, full-time students at WUSTL and must supply the following by

March 27:

- a completed entry form;
- a two- to four-page essay about the collection;
- a bibliography listing the books in the collection; and
- three to five books from the entrant's collection.

The book collection can be on any subject and should reflect the owner's intellectual or personal interests. Past winners have shown off their collection of dictionaries, comics, 19th-century French opera and Catalan drama, among other topics.

Judges will consider the collection's scope, thematic unity,

personal value to the collector and other factors.

Entry forms, past winning essays and details about how to enter are available online at [library.wustl.edu/collections/neureuther.html](http://library.wustl.edu/collections/neureuther.html).

Students should deliver their materials to the Department of Special Collections on the main level of Olin Library weekdays from 8:30 a.m.-5 p.m. Entry forms also are available at the Olin Library checkout desk.

Winners will be announced, awards will be presented and books will be returned in late April.

## Volunteers sought to help with college exam prep

BY NEIL SCHOENHERR

The Each One Teach One (EOTO) program, which connects WUSTL tutors with area schoolchildren in need of academic support, is adding an extra component.

Starting in March, WUSTL volunteers will help students at Gateway and Soldan high schools in St. Louis prepare for Advanced Placement (AP) exams in calculus and English literature and composition.

The AP program allows students to take tests in college-level work and receive credit for passing the exams.

The deadline to sign up for the new program is Friday, Feb. 27. Tutoring will begin March 21. Students, staff and

faculty are invited to volunteer.

"This will be an excellent opportunity for our students to use their vast knowledge of test preparation and test-taking to help high-school students get to the next level," said Stephanie Kurtzman, director of the Community Service Office and associate director of the Richard A. Gephardt Institute for Public Service. "It is a way for our students, with a small time commitment, to really make a big difference in the life of a younger person."

WUSTL coaches will work to develop students' familiarity with the AP exam structure and types of questions while serving as a source of encouragement and support throughout the exam process.

Coaching will occur once a week for four weeks, from 3-5:30 p.m., which includes travel time. Coaches will work with groups of two or three high-school students at a time. Transportation will be provided.

Coaches must be able to attend two training sessions prior to the start of the program and are required to commit to coaching for the complete four-week period.

Founded in 2000 and coordinated by the Community Service Office, Each One Teach One supports more than 150 tutors through two programs: EOTO Jump Start and EOTO College Bound.

For more information, visit [communityservice.wustl.edu/eoto](http://communityservice.wustl.edu/eoto) or call Kate Durso at 935-5599.

## Stressbusters to make life easier on Danforth Campus

BY NEIL SCHOENHERR

Stress is at the top of the list of health issues affecting students' academic success.

To combat stress, the Habib Health & Wellness Center has started the stressbusters program on the Danforth Campus.

Student stressbusters will be trained to give five-minute backrubs to other students, faculty and staff while providing relevant wellness resources. The program will provide sustained relaxation opportunities, increase wellness outreach, provide stress-reduction skills training and increase the visibility of campus wellness resources.

The national program has proved quite popular at other schools across the country.

"We wanted to address stress in a very visible way and begin to change the way students think about it," said Melissa Ruwitch, assistant director of Student Health Services and chief of Health Promotion Services.

"Students involved in this program will communicate the idea that there is nothing admirable about being in a constant state of frenzy and that it is important to take time to relax and take care of yourself," Ruwitch said. "Stressbusters enjoy providing the service, and stressbustees enjoy the relaxation — and can hopefully connect with other resources to help them take care of themselves."

Students who volunteer as stressbusters are trained by a licensed massage therapist to give the free five-minute backrubs. They also are trained to

provide information on health and wellness resources available on campus, including those in Student Health Services and the professional massages available at the South 40 fitness center.

Junior Faith Williams, stressbusters student coordinator, joined the program because of an interest in public health and community wellness.

"I know from personal experience how stressful college can be," she said. "We get caught up in balancing classes with studying, work-study jobs, volunteering, student organizations, applying for internships and scholarships, taking the GRE and having some sort of social life."

"Our health sometimes takes a backseat to all of our other priorities. I think it's important for students to have someone to turn to or some sort of outlet for stress," Williams said.

She remembers having performance anxiety before exams her freshman and sophomore years and wishes a program like this had been around to help.

"A great aspect of this program is that it serves the whole University community," Ruwitch said. "Students are dispatched to give the backrubs at events for other students, faculty and staff."

Ruwitch cited a 2005 University of Illinois review of 37 studies on the effects of backrubs and massage, which found they reduce heart rate, blood pressure, depression pain and anxiety.

Students interested in applying to be a stressbuster can visit [shs.wustl.edu/stressbusters.htm](http://shs.wustl.edu/stressbusters.htm) and attend training sessions Friday, Feb. 27, or Saturday, Feb. 28.

## Volunteer to greet prospective students

The Office of Undergraduate Admissions is seeking staff volunteers to greet visiting high-school seniors at Lambert-St. Louis International Airport on March 26 and April 16.

The two Thursdays mark the beginning of WUSTL's annual scholarship competition weekend and Celebration Weekend, respectively, for students admitted to next fall's freshman class.

Last year, approximately 60 volunteers participated in the greeting.

The April weekend is sponsored

by several student groups, including the Association of Black Students, the Asian-American Association, Ashoka (the Indian Student Association), the Association of Latin American Students and the Hawaii Club.

Volunteers are asked to work a two- to three-hour morning or afternoon shift on either or both days.

Those interested in greeting prospective students should contact Lizzy Hancock at 935-9023 or [LHancock@wustl.edu](mailto:LHancock@wustl.edu) for more information.

## EST

Emergency teams on call 24/7

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emergency room.

In addition, EST medics receive at least one hour per week of continual training to keep their skills sharp.

Once on a call, EST medics triage patients and decide the best course of action for them. Team members help the patient find the best form of medical care needed — either being treated and released, going to health services on campus for further treatment or going to a hospital via University Police or a Clayton ambulance.

It's not always an easy task. Teams respond to every medical emergency on campus 24/7 whenever school is in session. When members are on call, they must respond — even if they are studying or sleeping.

The average response time is

three to five minutes.

"I think EST is as much a community service organization as it is medical," Mullin said. "We've all learned how to give back to the community, and we've become better in dealing with people."

As EST begins to look toward its next 30 years, there are a few items on the group's agenda. They have begun to work closely with the University's emergency planning committee. EST also would like to consider running two crews instead of one, with the second crew having the ability to transport patients to the hospital if necessary.

"EST is a great organization," said Mullin, who plans to go medical school. "While many of our members are pre-med majors, nearly half are from other schools throughout the campus. It's a good mix of people working toward a common goal of helping those in need."

EST welcomes new medics at the beginning of each academic year. For more information on the program or to sign up for CPR classes, visit [est.wustl.edu](http://est.wustl.edu).

## Emergency Notification System to be tested March 2

Washington University will test its Emergency Notification System (WUSTL-ENS) at noon Monday, March 2. The test will be held in conjunction with St. Louis County's monthly siren test, which occurs at 11 a.m. on the first Monday of each month.

The WUSTL-ENS test will take place unless there is the potential for severe weather that day or some other emergency is occurring at that time.

For the test, WUSTL-ENS will send text and voice messages to cell phones and e-mails to [@wustl.edu](mailto:@wustl.edu) addresses.

The University also will notify the community via the emergency Web site ([emergency.wustl.edu](http://emergency.wustl.edu)) and an emergency hotline (935-9000 locally or toll-free 888-234-2863).

WUSTL community members are strongly encouraged to register their cell phone numbers with the University so they can receive emergency text and voice messages on their cell phones. To sign up, visit [emergency.wustl.edu](http://emergency.wustl.edu).

"Text messaging has proved to be an effective and efficient way to reach members of a university community in a crisis," said Matt Arthur, director of incident communications solutions.

WUSTL installed warning sirens on the roofs of Brookings Hall and Seigle Hall Jan. 5. A third siren will be installed on a building in the South 40 this spring.

For more information about WUSTL-ENS, contact Mark Bagby, University disaster coordinator, at [bagbym@wustl.edu](mailto:bagbym@wustl.edu).



## Notables

# Origin of galactic cosmic rays focus of NASA grant

By SUSAN KILLENBERG  
MCGINN

**W**USTL astrophysicists have received a five-year, \$3,225,740 grant from the National Aeronautics and Space Administration (NASA) to design and build Super-TIGER — a Trans-Iron Galactic Element Recorder — and then fly it aboard a high-altitude balloon over Antarctica to collect rare atomic particles called galactic cosmic rays.

Super-TIGER's first flight in search of the origin of cosmic rays is planned for December 2012.

W. Robert Binns, Ph.D., research professor of physics in Arts & Sciences, and the high-energy astrophysics group in the Department of Physics and the McDonnell Center for the Space Sciences,

received the grant, titled "Super-TIGER: A Very-Large-Area, High-Resolution Trans-Iron Cosmic Ray Investigation."

The Super-TIGER is designed to measure the abundances of the ultra-heavy galactic cosmic ray nuclei — nuclei of atoms heavier than nickel.

When constructed, it will be four times larger — about the size of a pool table — than the previous TIGER experiment that was successfully flown twice for a total of 50 days over Antarctica — once during a flight launched in December 2001 and another launched in December 2003.

Like Super-TIGER, TIGER also was supported by NASA and built in Washington University's cosmic ray astrophysics laboratory.

Those flights, also in search of

the origin of cosmic rays — atomic particles that travel through the galaxy at near light speeds — produced a strong indication that the cosmic rays originate and are accelerated in associations of massive stars called OB associations.

However, Binns said, higher statistics measurements are needed to confirm this conclusion and to better understand the mechanism by which elements found in interstellar dust grains are accelerated more efficiently than those found in interstellar gas.

"The Super-TIGER experiment will be able to collect about 10 times as many particles as the TIGER experiment, enabling us to make precise abundance measurements of these very rare, heavy nuclei," said Binns, who is principal investigator.

"These measurements will enable us to test the emerging model of cosmic ray origin in associations of massive stars," Binns said.

Martin H. Israel, Ph.D., professor of physics and a co-investigator with Binns on both Super-TIGER and the previous TIGER instruments, said that the study of galactic cosmic rays will lead to a better understanding of their origin and the explosive processes in our galaxy that are responsible for giving the nuclei such enormous energy.

A consortium of scientists, engineers, technicians and graduate students have been working together on TIGER — most recently on data analysis — and the same research groups will be developing Super-TIGER.

The researchers are from

WUSTL, which is the principal investigator institution; NASA's Goddard Space Flight Center in Greenbelt, Md.; the California Institute of Technology, Pasadena; the Jet Propulsion Laboratory, Pasadena; and the University of Minnesota.

In addition to Binns and Israel, the other WUSTL investigators are James H. Buckley, Ph.D., professor of physics, and Henric S. Krawczynski, Ph.D., associate professor of physics.

Helping design and develop the instrument will be the physics department's Richard G. Bose, computer/electrical engineer; Dana L. Braun, mechanical technician; Paul F. Dowkontt, electrical engineer; Martin A. Olevitch, computer programmer/analyst; and Garry E. Simburger, electrical technician.

## New login system fully implemented March 18

**W**ashington University students, faculty and staff will be required to use their WUSTL KEY to gain access to any of the 35 University Web applications that feature WUSTL CONNECT beginning March 18.

WUSTL CONNECT is the University-wide login system that allows WUSTL community members to use a WUSTL KEY — a user name and password — to access WUSTL Web applications.

While initially introduced for 35 University administrative systems, the WUSTL CONNECT system will be used by many school and library systems to replace separate user names and passwords for individual systems. This will simplify access to systems for students, faculty and staff across the University.

It is important for all students, faculty and staff to establish a WUSTL KEY so that each school and the library can move forward



with plans to convert additional systems to take advantage of the common user name and password.

University community members who have not created a WUSTL KEY will be prompted to select a WUSTL KEY when they log into those Web applications beginning March 18.

Web applications requiring the use of a WUSTL KEY include Research Gateway, HRMS, AIS, WebSTAC, WebFAC, eGrades and Telesis.

For a complete list of applications supporting the WUSTL KEY or to select your WUSTL KEY, visit connecthelp.wustl.edu.

It is beneficial for users to select their WUSTL KEY before March

18, said Ken Trammel, director of application development.

"While the process takes most users less than two minutes to complete, it will still be better to do when you aren't in a pinch," Trammel said.

"Introducing the WUSTL KEY as an option in October has helped us to streamline the selection process, but we welcome additional input and have staff available to help anyone who has questions. Contact numbers for help are included in the online instructions," he said.

For more information on WUSTL CONNECT, contact Trammel at 935-8332 or ktrammel@wustl.edu.

## New master's in project management offered

By TONY FITZPATRICK

**T**he School of Engineering & Applied Sciences' Sever Institute of Continuing Studies will offer a new master's degree program in project management beginning this fall.

The new degree will build on an existing certificate program that the school has offered since 2002 though the professional degree program and the Sever Institute.

"Project management has become a challenge for industry over the past decade or so, and we've seen the need for a master's degree program for some time," said Tom Browdy, Ph.D., director of masters of information management who will oversee the new program.

"Historically, most people who ended up managing projects were pushed into it," Browdy said. "But there's more to project management than learning things on the fly. Our organizations live and die on projects now."

The 36-hour course-work-only program will be offered to part-time students during nights and weekends. Courses will incorporate a three-world view: processes and methods, strategy and people.

"This is a master's degree program that concentrates on how to plan, organize and execute a project as well as how to deal with people on a project," Browdy said.

"The biggest component is people management — getting employees to work together," he said.

Browdy said that slightly more than half the students who have taken the certificate courses are in the information technology field; the rest are engineers with various specialties. Students, mostly supported by their companies, have come from such organizations as Boeing, MasterCard, Monsanto, BJC, Pfizer, Schnucks and the Sisters of Mercy.

"Students have seen the value of the certificate program, and there has been a keen interest in past students pursuing the master's program," Browdy said. "I've seen people improve their lots by taking the courses. Our program gives tools that help professionals move forward."

To be admitted to the degree program, students need an accredited bachelor's degree in any subject area and at least three years of professional work experience.

James C. Blair, Ph.D., a program director in the Sever Institute, will assist Browdy in teaching the master's courses and directing the program.

The Sever Institute will host a reception and short program to announce the new degree program at 5:30 p.m. March 12 in Whitaker Hall.

For more information, contact Browdy at 935-5138 or tbrow@wustl.edu.

## Campus Watch

The following incidents were reported to University Police Feb. 17-23. Readers with information that could assist in investigating these incidents are urged to call 935-5555.

### Feb. 20

2:32 a.m. — It was reported that the mailboxes at the Wohl Center had been tampered with.

### Feb. 22

12:58 p.m. — A window was broken by unknown persons in the second story stairwell of Gregg House.

### Feb. 23

3:36 p.m. — An iPod was reported lost in the Village.

*Additionally, University police responded to six accidental injuries, two sick cases, one assault and one report of harassment.*

## Obituaries

## Grant memorial service to be held March 7

**A** memorial service for Neville Grant, M.D., professor of clinical medicine at the School of Medicine for nearly 40 years, will be held March 7 at 1 p.m. in Graham Chapel. A reception will follow in the Formal Lounge on the second floor of the Danforth University Center.

Grant died Jan. 20, 2009, at Vanderbilt University Medical Center in Nashville, Tenn., due to complications from recent surgery. He was 80.

Grant taught at the School of Medicine and practiced medicine for 39 years in the Central West End with his brother, the late John

M. Grant, M.D., at the Grant Medical Clinic, founded by their father, the late Samuel B. Grant, M.D. He was a mentor and role model to many area physicians. He retired in 1999.

Memorial contributions may be made to the following:

- The Samuel B. Grant Visiting Professorship, c/o Ann Smith, Medical Alumni & Development Programs, Washington University, Campus Box 1247, 7425 Forsyth, St. Louis, Mo., 63105. (Check should be made to Washington University and must include "Sam Grant Visiting Professorship" in memo line);

- John Burroughs School, 755 S. Price Road, St. Louis, Mo., 63124; and

- Albert Schweitzer Fellowship Program, schweitzerfellowship.org.

For more information on the memorial service, call 935-9690.

### Lambert, 71

Norman Lambert, a part-time faculty member from 1982-2003 who most recently was an adjunct professor in information management, died Feb. 8, 2009. He was 71.

## For the Record

### Of note

**Boone Wilder Goodgame**, M.D., assistant professor of medicine in the Division of Oncology, has received a two-year, \$40,000 Young Investigator Award from the International Association for the Study of Lung Cancer. Goodgame will use gene chip technology to analyze tumor samples from lung cancer patients. That will allow him to identify proteins that indicate a high risk for lung cancer spreading to the brain. The proteins will be the basis of a simple, low-cost test to identify lung cancer patients at highest risk of brain

metastases. These patients could undergo radiation therapy to prevent growth of brain tumors, or they could be enrolled in clinical trials of new medicines to prevent brain metastasis. ...

**Anna Warrener**, graduate student in anthropology in Arts & Sciences, has received a one-year, \$13,450 grant from the Leakey Foundation for research titled "Biomechanics of the Hip and Locomotor Cost in Hominins."

### Notables policy

To submit Notables for publication, e-mail items to Jessica Daues at jessica\_daues@wustl.edu or fax to 935-4259.



## Washington People

**B**orn in Chicago, the youngest of three girls, Laura Jean Bierut, M.D., got her early exposure to medicine from her mother, Lillian, a nurse.

"On Girl Scout campouts, she always had to go along because they wanted a nurse with us," Bierut says. "She also would go to the schools on days when they would line everybody up for vaccines with those little 'guns' that gave you the shots and TB tests."

Bierut's grandparents migrated to Chicago from Poland, and they never let their progeny forget about the many opportunities afforded people in the United States.

"My grandmother couldn't read or write, and my parents, the first generation born here, were always very aware of how lucky they were to get an education and live in this country," she says. "My mom became a nurse, and my dad went through school on the GI Bill after World War II. He became an accountant. They placed a high value on education."

So they were thrilled when Bierut, now a professor of psychiatry, was accepted at Harvard University. But they also were



Laura Bierut, M.D. (left), and Sarah Hartz, M.D., psychiatry resident, discuss data in the lab. "Laura is a great colleague and mentor," says Charles Zorumski, M.D., the Samuel B. Guze Professor and head of psychiatry. "Her group is untangling the contributions of specific genes and environmental influences on these disorders, and she is clearly at the forefront of her field."

By JIM DRYDEN

## Untangling addiction's roots

Bierut tackles brain's role in psychiatric illness

apprehensive about her moving to the East Coast. Although her grandparents had traveled thousands of miles from Poland to Chicago, her extended family tended not to drift too far away from Lake Michigan.

"It was a big deal when my parents moved to the suburbs," she says. "So not only going to Harvard, but just leaving Chicago was strange."

### Cambridge to Krakow

Bierut thrived in Massachusetts, graduating from Harvard after only three years with a major in biochemistry and molecular biology. She took entrance exams for medical school, but first, she did something that still seems to amaze her a little. She went to Poland for a year, to Jagiellonian University in Krakow, as a Kosciuszko Foundation Cultural Exchange Scholar.

It was a cultural immersion program designed to allow students of Polish origin to visit Poland. She would study and learn the language and culture. She also visited relatives who still lived in a small village in southeastern Poland.

The downside was that it was 1982. Lech Walesa and fellow workers had organized strikes in the shipyards and launched the Solidarity movement months earlier. The Polish government had reacted with a crackdown, so she lived under martial law.

Plus, years of stagnation under

the Communist government meant that the Polish economy wasn't doing very well.

"There were no phones," Bierut says. "To get an international call, you actually had to go to a phone center, and there were only a couple in the whole country. The phones were in Warsaw, and I was in Krakow. I wrote letters and sent telegrams that year."

She also learned Polish, but mostly, she says, she was reminded about the gift of good fortune.

"What that year really taught me was to thank God my grandparents came to the United States," she says. "I had so many opportunities, and I saw firsthand that most kids there didn't. That has changed in recent years, but in those days, things were fairly bleak."

She did return to the United States for one week that year to interview for medical school, and, the following fall, she became a student at the School of Medicine.

### Genetics of behavior

As a medical student, Bierut says, "I had no idea what I wanted to do, and I loved everything." She eventually chose psychiatry after getting advice from the late Samuel B. Guze, M.D., the former head of the department and vice chancellor for medical affairs.

"He told me to think about what I would love doing in the long run, in 10 or 20 years," she says. "He said we were all blessed with so many skills and so many resources and an incredible education that it would be a shame not to do what you loved."

Bierut decided she loved psychiatry. For one thing, psychiatric illnesses involved the brain. They also had the capacity to devastate people's lives, and there were lots of opportunities in the growing field of psychiatry research.

She says it was good advice, and she made the right choice. Charles F. Zorumski, M.D., the Samuel B. Guze Professor and head of psychiatry, agrees.

"Laura is a great colleague and mentor," Zorumski says. "She runs a large and highly successful research program dealing with two major and costly public health problems: alcohol and nicotine dependence. Her group

is untangling the contributions of specific genes and environmental influences on these disorders, and she is clearly at the forefront of her field."

But there was one thing she did before beginning that work. During medical school, she met a dark-haired student a year ahead of her. When he was an intern and she was graduating, Bierut married Bradley Evanoff, M.D., now the Richard A. and Elizabeth Henby Sutter Associate Professor of Occupational, Industrial and Environmental Medicine in Medicine and the chief of the Division of General Medical Sciences. She jokes that after the wedding, they remained newlyweds for about three years because both always were on call.

He specialized in occupational medicine, and she began working in psychiatric genetics with the late Theodore Reich, M.D., studying genetic influences on psychiatric illnesses and behaviors, such as alcoholism, nicotine use and substance dependence.

In studies like COGA (the Collaborative Study of the Genetics of Alcoholism), Bierut and Reich examined alcoholics and their family members, got detailed information about their symptoms and collected their DNA.

Gene chips, rapid sequencing and other techniques have made the study of behavior and genetics much different now than it was when Bierut entered the field.

But her group continues to study the DNA samples collected almost 20 years ago, applying techniques that were only dreamt of when those samples first were stored. They are learning about genes and risk for illness and addiction.

In psychiatric illnesses, there is so much interplay between genes and environment that understanding how genes work, and what happens when they don't, is only a fraction of the story.

In some ways, she believes other branches of medicine may be slightly more advanced in understanding genetic risks and tailoring treatments to individuals, but she believes psychiatry will get there.

"We're addressing questions like, 'What makes us human?'" she says. "It's our behavior. It's our thoughts. And psychiatric illnesses harm and even destroy some of those basic aspects of our humanity. In some ways, figuring out why a person becomes alcoholic or gets hooked on cigarettes or becomes

schizophrenic involves some of the most important questions we face in medicine."

### Bieoff and Evanrut

In addition to hunting for genes and speaking Polish, Bierut plays the violin. Evanoff plays the saxophone and a few other wind instruments. Their daughters are musical, too.

"We have a violin, viola, flute, clarinet, bass clarinet, three saxophones and a ukulele in the house," Bierut says. "And there are many bicycles, too. We tandem as a family."

Bierut and Evanoff have two daughters: Tasha Evanoff is 15. Her sister, Tate Bierut, is 12.

"We thought of using Bieoff or Evanrut, but those just didn't sound right," she says.

In addition to bicycling with their parents — the family spends a week each June covering the entire 225-mile length of the Katy Trail across Missouri — and playing music, both girls also speak French. A few years ago, Brad Evanoff spent seven months in France learning more about occupational medicine. Bierut was able to telecommute, and the girls had a semester of school in Paris.

"They hated it for the first two months," she says. "The next two months were OK, and for the last three months they kept telling us they didn't want to leave. They say they have two homes now: Paris and St. Louis."

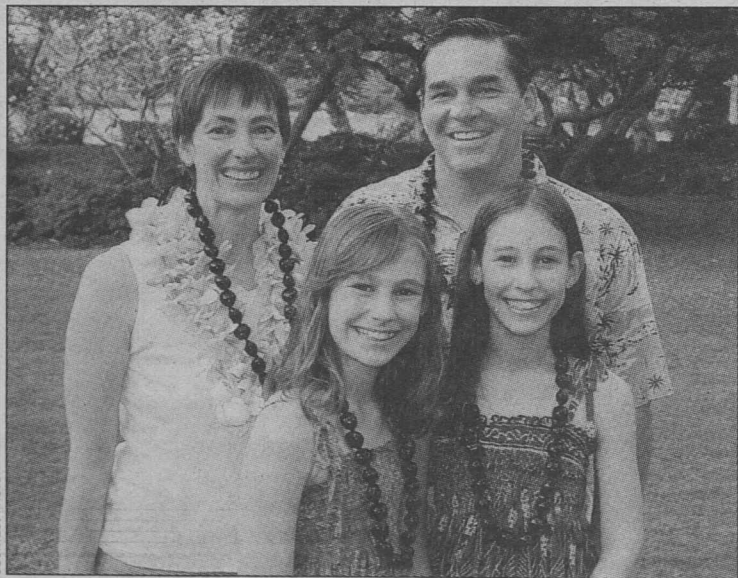
### Laura Bierut

**Born:** March 25, 1961, in Chicago

**Education:** B.A., cum laude, biochemistry and molecular biology, 1982, Harvard University; Kosciuszko Foundation Cultural Exchange Scholarship, 1982-83, Jagiellonian University, Krakow, Poland; M.D., 1987, residency in psychiatry, 1987-1991, Washington University School of Medicine; postdoctoral research fellowship, 1991, International Brain Organization, Karolinska Institute, Stockholm, Sweden

**Position:** professor of psychiatry

**Family:** Daughters Tasha Evanoff, 15, and Tate Bierut, 12; husband, Brad Evanoff, M.D.; sisters Barbara Harlow and Susan Viola; father, the late Eugene Bierut; and mother, the late Lillian Bierut



Laura Bierut and her husband, Brad Evanoff, with their daughters Tate Bierut (left) and Tasha Evanoff on vacation in Hawaii.