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# Record

April 16, 2003

Volume 28 No. 29

Treasuring the



Washington University in St. Louis

Shaping the Future

Celebrating 150 Years

## Kidneys for cash?

Ethical questions aside, researchers study hypothetical cost-effectiveness

By NICOLE VINES

The numbers are scary — especially if you're one of the 55,000 Americans waiting for a kidney transplant.

Last year, only 13,000 of them got kidneys. Another 3,000 died on the waiting list.

Only half of potential organ donors actually donate, but even if every potential donor came through, many on the waiting list still wouldn't be helped.

Although the vast majority of donated organs come from people who have died, transplanting kidneys from living donors has gained popularity in the last decade. These donations — many times made by family members — also have the greatest chance of being successful and can happen quickly, often in less than a year.

But what if society chose to pay living, unrelated donors for their kidneys? Setting all ethical issues aside — how much would one of your kidneys be worth?

Mark Schnitzler, Ph.D., assistant professor of health administration in the School of Medicine, and colleague Arthur Matas, M.D., professor of surgery at the University of Minnesota, set up a mathematical model to determine whether it would be economically feasible to pay donors.

Their study shows that society could pay each donor \$90,000 and easily break even.

"It's a large number," Schnitzler said. "Society saves money, and the patient receives both quality of life and life-extension benefits from the donor."

For their analysis, the re-

searchers assumed the establishment of a government-regulated system in which a fixed price would be paid to the donor and the kidneys would be allocated by a pre-defined system. Factors included in the calculations were patient survival, cost of dialysis, organ survival after transplantation, cost of transplant surgery, maintenance costs and the cost of returning to dialysis.

For the recipient of a living, unrelated donor kidney transplant, the estimated medical expense for 20 years following transplant is \$277,600. The expected medical cost for a dialysis patient for that long is \$372,179.

The difference of \$94,579 is the expected savings that would be generated by a living, unrelated donor — a savings that could be paid to the donor without increasing costs.

However, Schnitzler and Matas said there are additional benefits.

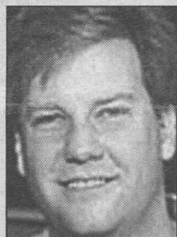
"We should also value the extra life — the quality of life — that patients get following transplantation," Schnitzler said.

"If you compare that to what we already are willing to pay for dialysis, it increases the value of the donated kidney even more."

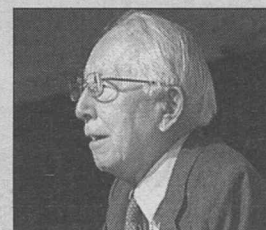
The recipient of a living, unrelated donor's kidney can expect, on average, nearly nine extra years of life after transplant. If that patient had remained on dialysis for life, he or she could only expect 5.4 years.

Schnitzler said assuming society values the gained life at the same rate it's willing to pay for

See **Kidneys**, Page 7



Schnitzler



"(The arts) enlighten us, they enrich us, they give shape and meaning to our lives."

SAM FOX

**Grand groundbreaking** More than 1,000 people gathered April 14 for the groundbreaking of the Sam Fox Art Center's Mildred Lane Kemper Art Museum and Earl E. and Myrtle E. Walker Hall. Speakers included Chancellor Mark S. Wrighton; John F. McDonnell, chairman of the Board of Trustees; Fox (above, center), founder and chief executive officer of Harbour Group Ltd.; David W. Kemper, vice chairman of the Board of Trustees and chairman, president and chief executive officer of Commerce Bancshares Inc.; Earl Walker, founder and chief executive officer of Carr Lane Manufacturing Co.; architect Fumihiko Maki (above, right); Mark S. Weil, Ph.D., the E. Desmond Lee Professor for Collaboration in the Arts and director of the Sam Fox Arts Center; and internationally known artist Frank Stella, who presented the keynote address. At top are (from left) McDonnell, Wrighton, Marilyn and Sam Fox, Maki and Stella. (Photos by Joe Angeles)

## Sustainable management of rivers is focus of Earth Day forum April 22

By GERRY EVERDING

"Our Rivers: A Sustainable Resource?" will be the focus of a public education forum that four University faculty will lead as part of an April 22-23 community-wide symposium being held in conjunction with the fifth annual St. Louis Earth Day celebration.

"Dialogue for Development: Investing in Sustainable Communities" is the unifying theme of the two-day Earth Day Symposium, to be held at the Missouri Botanical Garden, 4344 Shaw Blvd. The University is co-sponsoring the symposium as part of

**Related:** Environmental Initiative Colloquium April 21 to be moderated by Chancellor Mark S. Wrighton. **Page 6**

a collaboration that involves 39 organizations, government entities and companies.

The program's goal is to provide the St. Louis community with new tools and strategies to enable profitable development, a clean environment and the long-term livability of healthy, dynamic communities.

The University-led program on sustainable rivers will be held from 10:30 a.m.-5 p.m. April 22 and will feature Pratim Biswas, Ph.D., director of the Envi-

See **Forum**, Page 6

## New HR pool helps match applicants with positions

By ANDY CLENDENNEN

It's one of the most important positions at the University.

Its occupants have their own day, they put in long hours and without them, most offices would fall apart at the seams.

So when an administrative assistant position becomes available, managers want good candidates as soon as possible, to hold things together and keep everyone in their office happy.

To help ease — and quicken

— the transition period between one administrative assistant leaving and another one coming in, the Office of Human Resources has implemented an "administrative pool."

The idea is to quickly supply hiring managers with talented candidates that are a great match in skills and work behaviors for their particular administrative opening. The goal is to have administrative candidates who have been pre-assessed and ready

See **Pool**, Page 6



**Networking reception** Anne Chao (right), a 1981 alumna of the Graduate School of Arts & Sciences, and Mark Hannah (background, left), a 1998 alumnus of Arts & Sciences, chat with students Hana Nyklova and David Patterson during The Career Center's recent Student and Alumni Networking Reception in Umrath Lounge. The annual event provides students an opportunity to learn about the career paths of alumni — how they got from the University to where they are now.

### This Week In WUSTL History

April 20, 1945

Arthur Holly Compton, the 1927 Nobel Prize-winner in physics, accepted an appointment to become the University's ninth chancellor.

April 22, 1972

Supreme Court Chief Justice Earl Warren spoke at the dedication of Seeley G. Mudd Hall about "The Blessing of Liberty."

This feature will be included in each 2003-04 issue of the Record in observance of Washington University's 150th anniversary.



# Roman installed into Welge professorship

By TONY FITZPATRICK

**G**ruia-Catalin Roman, Ph.D., professor and chair of computer science and engineering, was installed as the Harold B. and Adelaide G. Welge Professor of Computer Science in a ceremony April 8 in Uncas A. Whitaker Hall for Biomedical Engineering.

The professorship was committed in 1988 by a University alumnus and his wife in the "hope that engineering education and research may be made more effective in present years, as well as years to come."

Harold Brinton Welge earned a bachelor's degree in architectural engineering in 1930 and a master's degree in structural engineering in 1933 from the University.

He spent more than 26 years as a mechanical engineer and administrator with Procter & Gamble in St. Louis and Cincinnati before returning to work for the St. Louis Water Division. He retired in 1979 and died in 1990.

Adelaide Guinn Welge earned two degrees from the University of Pittsburgh, a bachelor's in general science and a master's in mathematics. She worked as a buyer for a major department

store in Pittsburgh before marrying Harold in 1939.

Her career took her on business trips to Europe, where she became interested in fashion design and ornithology. She died in 1996.

In 1971, Roman, a native of Romania, was awarded a Fulbright Fellowship and entered the first computer science freshman class at the University of Pennsylvania. He earned a bachelor's degree (1973), a master's degree (1974) and a doctorate (1976), all in computer science.

In 1975, at the age of 25, he became assistant professor of computer science at Washington University. He became professor and chair of the Department of Computer Science in 1997, just the third person to head the department.

In recent years, he has led his computer science colleagues through dramatic transformations.

In just five years, the faculty size reached an all-time high of 25. Fifteen faculty members were hired as part of a successful recruiting effort, and three transferred into the department as a result of a restructuring that consolidated the computer engineering and computer science pro-



Christopher I. Byrnes, Ph.D. (left), dean of the School of Engineering & Applied Science and the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics, congratulates Gruia-Catalin Roman, Ph.D., professor and chair of computer science and engineering, at his installation as the Harold B. and Adelaide G. Welge Professor of Computer Science April 8 in Uncas A. Whitaker Hall for Biomedical Engineering.

grams into a single department, the Department of Computer Science and Engineering.

Roman's research spans a broad range of computer science subfields, including mobile computing, formal design methods, visualization, requirements and design methodologies for distributed systems, interactive high-speed computer vision algorithms, formal languages,

biomedical simulation, computer graphics and distributed databases.

His international reputation played a critical role in securing St. Louis as the host city for the 2005 International Conference on Software Engineering, for which he will serve as general chair.

All his work has been the result of intensive collaborations with students and colleagues. His initial efforts were marked by contributions to areas that were in their formative stage — for example, concurrency coordination in distributed databases,

See Roman, Page 6

## Baseball in Japan, U.S. focus of forum today

By GERRY EVERDING

**"M**itts Across the Pacific: Baseball in Japan and the United States" will be the topic of a panel discussion with top executives of the St. Louis Cardinals and Japan's Orix BlueWave baseball teams at 2 p.m. today in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall.

The forum will feature BlueWave owner Yoshihiko Miyauchi, chief executive of the Orix Corp.; Frederick O. Hanser, vice chairman of the St. Louis Cardinals; and Timothy Hanser, vice president of community outreach, Cardinals Care.

They will discuss the current state of baseball, including its internationalization, the use of performance-enhancing drugs, new stadiums, salary caps, parity between teams and the game's future in Japan and the United States.

Miyauchi completed postgraduate work in management at the University in 1960. Frederick Hanser earned a law degree from the University in 1966.

The discussion will be led by international sports journalist and television producer Brad Lefton, who earned an undergraduate business degree from the University in 1986. Lefton has

produced documentaries about Seattle Mariners outfielder Ichiro Suzuki and Cardinals outfielder So Taguchi.

Free and open to the public, the panel discussion is co-sponsored by the Visiting East Asian Professionals Program in Arts & Sciences and the Whitney R. Harris Institute for Global Legal Studies in the School of Law. The event will celebrate U.S.-Japanese relations and is part of the University's 150th anniversary celebration.

For more information, go online to [artsci.wustl.edu/~veap](http://artsci.wustl.edu/~veap) or contact Krystel Mowery at 935-8772 or [veap@artsci.wustl.edu](mailto:veap@artsci.wustl.edu).

## Symposium to address corporate governance

The Center for the Study of Ethics & Human Values will sponsor a symposium on corporate governance and ethics from 8-10 a.m. April 23 at the Charles F. Knight Executive Education Center.

Panelists for the John Dubinsky Symposium on Corporate Governance and Ethics will include Benjamin F. Edwards III, former chairman and chief executive officer of A.G. Edwards; William Emmons, economist at the Federal Reserve Bank; John Emshwiller, the *Wall Street Journal* reporter who uncovered the Enron case; and Joshua Hochberg, chief of the Fraud Division at the U.S. Justice Department.

"In organizing this panel of nationally recognized leaders in business, law, media and public policy, the center hopes to forge a dialogue on one of the most important ethical issues facing corporate America," said Stuart D. Yoak, Ph.D., the center's executive director. "Hearing from those who represent fundamental perspectives on this topic is a critical step in rebuilding trust and restoring integrity."

Miriam Miquelon, J.D., adjunct professor of law, and Stacy L. Jackson, Ph.D., assistant dean in experimental learning and professional development in the Olin School of Business, helped organize the event and will serve as moderators.

Support for the symposium was provided in part by BJC HealthCare.

A continental breakfast will be provided beginning at 7:15 a.m.

For more information, call the Center for the Study of Ethics & Human Values at 935-9358 or go online to [humanvalues.wustl.edu](http://humanvalues.wustl.edu).

## Fiction writer Antrim to read here today

Fiction writer Donald Antrim will read from his work at 4 p.m. today for The Writing Program in Arts & Sciences.

The reading is free and open to the public and will take place in Hurst Lounge, Duncker Hall, Room 201. A reception will follow.

Antrim has published three novels: *Elect Mr. Robinson for a Better World*; *The Hundred Bro-*

*thers*, a finalist for the 1998 Pen/Faulkner Award; and most recently, *The Verificationist*.

Over the past year, he has published a series of memoir pieces in *The New Yorker*, exploring his relationship with his mother, who died in 2000.

"Not since the late Donald Barthelme have we had such a pitch-perfect surrealizing of domestic American life," Sven Birkerts wrote in *Esquire* magazine. "Antrim's art is to render the uncanny as if it were the canny."

Antrim has received fellowships from the National Endowment for the Arts and the Guggenheim Foundation. He was a 2002-03 fellow at the Dorothy and Lewis B. Cullman Center for Scholars and Writers at the New York Public Library.

In 1999, *The New Yorker* named him one of "the 20 writers for the 21st century."

## School of Art to launch Portfolio Plus program

The School of Art's new "Portfolio Plus" program, which will run June 16-July 9 and is open to all St. Louis-area high-school students, will consist of morning sessions focusing on art fundamentals and afternoon sessions centered on one of seven studio disciplines.

The 9 a.m.-noon sessions will include a drawing class emphasizing observational drawing and the figure, as well as a class exploring both two-dimensional and three-dimensional design.

For the 1-4 p.m. sessions, students may choose from one of seven studio electives: ceramics, computer graphics, fashion design, watercolor painting, photography, printmaking or sculpture.

The morning and afternoon sessions are each worth two hours of college credit. In addition, students who successfully complete the program will receive letters of recommendation for college applications.

Studio sizes are limited, and the registration deadline is May 1. Cost is \$900 plus a \$150 materials fee, or \$500 and a \$75 materials fee for either the morning or afternoon sessions alone.

For more information or to register, call Cris Baldwin at 935-4701 or Belinda Lee at 935-8456.

## PICTURING OUR PAST



In 1901, the University was in dire need of funds to help expand the campus. Robert S. Brookings came up with the idea of leasing some of the existing campus and newer buildings to the company planning to mark the 100th anniversary of the 1803 Louisiana Purchase (above, 1904 from Brookings Hall; the building in the left foreground is the Austria Pavilion, and in the right foreground is the Belgium Pavilion). Brookings signed a contract that gave the University \$650,000 in rent, of which \$500,000 would be used to construct three additional buildings on campus. With the lease income from the World's Fair, construction surged. Ridgley Library went up in 1902, and in the fall that year, the cornerstones were laid for Tower Hall dormitory (later renamed for John F. Lee, then again for Karl Umrath) and Francis Gymnasium.

Washington University is celebrating its 150th anniversary in 2003-04. Special programs and announcements will be made throughout the yearlong observance.





## School of Medicine Update

# Brain activity changes in Tourette syndrome

BY JIM DRYDEN

Scientists have known for years that abnormal activity involving a brain chemical called dopamine is somehow connected to the movements and vocalizations, or tics, associated with Tourette syndrome.

Now University neuroscience researchers have found that brain activity in these patients is abnormal during memory tasks as well.

The researchers also found that giving Tourette syndrome patients the drug levodopa, which is used to treat abnormal dopamine activity in conditions such as Parkinson's disease, normalized brain activity during memory tasks.

"We've observed in the living brain a dopamine-sensitive abnormality in people with tics," said principal investigator Kevin J. Black, M.D., assistant professor of psychiatry, of neurology and of radiology.

"That's been hypothesized for 40 years, but this is the first time it's been demonstrated. We actually have a direct demonstration of abnormal brain activation in people with Tourette syndrome that is corrected when they are given a dopamine-type medicine."

The study is published online and will appear in the May issue of the journal *Biological Psychiatry*.

Using functional magnetic resonance imaging (fMRI), the researchers compared eight adults with Tourette syndrome to 10 healthy adults the same age and gender.

Brain scans were taken while participants performed a memory task that involved remembering and identifying letters on a computer screen.

The task measures working memory, a type of short-term memory that involves concentration on several things at once.

"We chose to look at the brain's response to a working memory task because past research has shown that working memory could be affected by dopamine levels in the brain," said first author Tamara Hershey, Ph.D., assistant professor of psychiatry and neurology.

"We also know dopamine is involved in tics, but if we had studied a task that involved movement, for example, the fact that some tics involve movement could have made it harder to interpret the differences in brain activity."

In terms of speed and accuracy during the memory task, there were no differences between the two groups, but fMRI scans revealed that several brain areas were more active in Tourette syndrome patients than in healthy participants.

The clearest differences were in a brain region called the parietal cortex, at the top of the brain roughly in between the front and back of the head.

Tourette syndrome patients also had increased activity in the medial frontal gyrus and in the thalamus, which acts as the brain's relay station between the outer layer, or cortex, and the rest of the nervous system.

"People with tics performed this task just as well as people without, so it's not something that involves a difference in output," Black said.

"Therefore, we believe any differences we saw in the fMRI scans reflect changes in the way the brain is working."

**"We've observed in the living brain a dopamine-sensitive abnormality in people with tics. That's been hypothesized for 40 years, but this is the first time it's been demonstrated."**



KEVIN J. BLACK

## Coverage of the uninsured focus of panel discussion

BY KIMBERLY LEYDIG

St. Louis experts on health-care resources and public policy will discuss medical care and coverage for the uninsured and under-insured at 4:30 p.m. April 21 at the Eric P. Newman Education Center.

Nearly 44 million Americans — about 15 percent of the U.S. population — have no health coverage, including 8.5 million children. And eight out of 10 uninsured Americans are in working families.

The panel discussion titled, "The True Cost of Health Care in the United States," has been organized by University medical students as an on-campus prelude to "Cover the Uninsured Week," a nationwide campaign aimed at raising awareness of the health-care access crisis across the country.

Panelists and speakers include: Tim McBride, Ph.D., Saint Louis

University School of Public Health; Glendia Hatton, president and chief executive officer of St. Louis ConnectCare; Will Ross, M.D., WUSTL medical school associate dean and frequent contributor to *The St. Louis American*; John Carlton, a *St. Louis Post-Dispatch* columnist who focuses on health care issues; and William A. Peck, M.D., director of the University's Center for Health Policy and the Alan A. and Edith L. Wolff Distinguished Professor of Medicine.

During the week of May 10-16, more than 1,000 community events will take place across the country, including health and enrollment fairs, interfaith activities and business events.

St. Louis events will include a seminar for small businesses and a health and enrollment fair at the St. Louis Science Center.

For more information, go online to [covertheuninsuredweek.org](http://covertheuninsuredweek.org).

To determine whether the results were related to dopamine abnormalities, Hershey, Black and their colleagues gave all participants an intravenous infusion of the drug levodopa.

When the two groups repeated the original working memory task, brain activity in healthy participants was unchanged.

In Tourette patients, however, the areas that had been abnormally overactive were substantially less active after treatment.

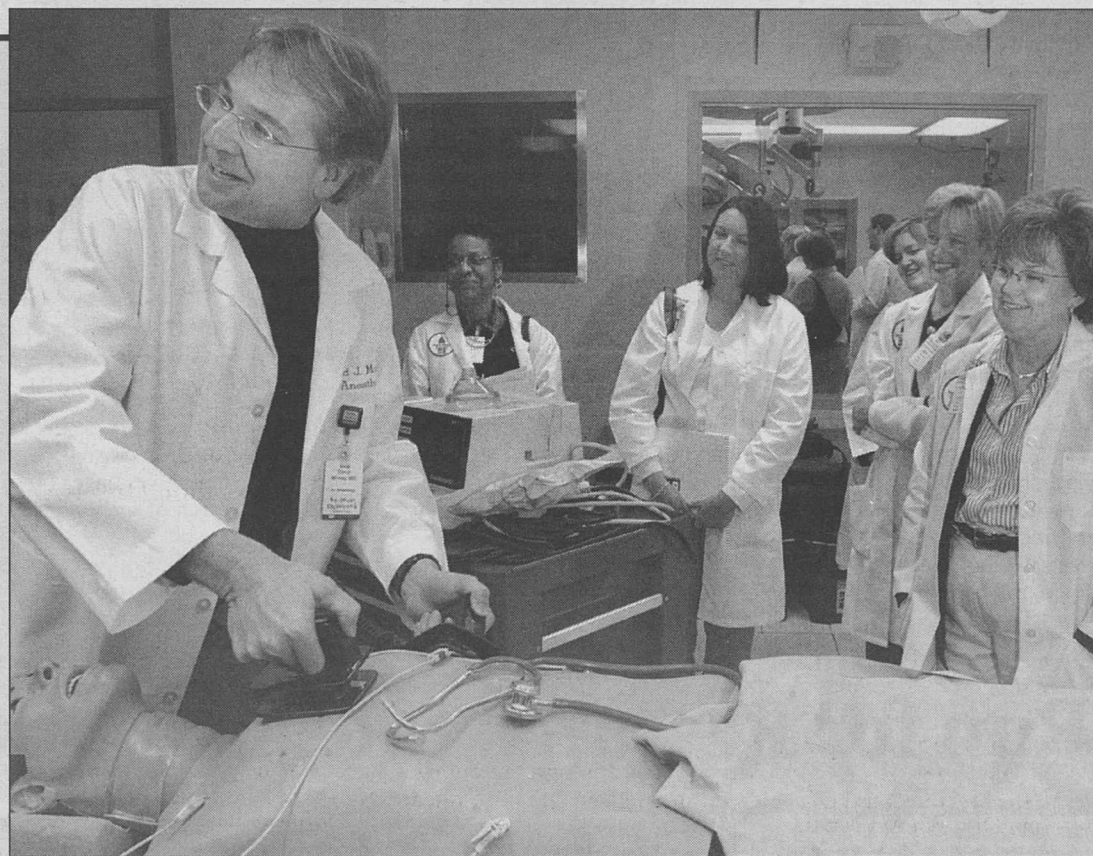
"Levodopa seems to normalize the excess activity we had seen in the parietal cortex in the group with tics," Hershey said. "There were changes in activity in the other structures, too, but the changes in the parietal cortex were the most dramatic."

Before decoding which brain scans belonged to which participants, Black looked at the patients' medical histories and used a standard method of rating the severity of their illness.

He found that those with the most severe history of Tourette syndrome had the largest post-levodopa decreases in brain activity during the working memory task.

Black and Hershey plan to look at brain activity during different tasks to see whether they can find more dopamine-related differences.

Black is also finalizing a treatment study to determine if levodopa helps control tics in Tourette syndrome patients.



**Doctor for a day** David J. Murray, M.D., professor of anesthesiology and director of that department's Clinical Simulation Center, demonstrates how to shock a simulated patient in cardiac arrest for national and local legislative staff members who recently visited the Medical Campus to learn why academic medical centers are unique. The staff members were given white coats and allowed to "role play" as doctors for two days. The group also went on rounds, interacted with medical students and learned about bioterrorism safety to better understand the importance of teaching medical centers.

## Communications, publishing services offered

BY DIANE DUKE WILLIAMS

Need a grant proposal edited or a journal article formatted and submitted electronically? Or maybe you've been considering a class in English as a second language?

The School of Medicine now has a one-stop shop for professional editing and communications training, called Academic Publishing Services (APS).

As the managing editor of the *American Journal of Physiology: Endocrinology and Metabolism*, Karen Dodson saw the need for communication and publishing services at the School of Medicine.

"Some of the journal's manuscripts went through several revisions because they were not well written, even though the science was solid," said Dodson, who is now the director of APS. "The reviewers would often take the time to edit the manuscripts for grammar and punctuation, which is very generous. I figured that there must be a better way."

After polling medical school faculty, Dodson found a need for an editorial service to assist manuscript authors before submitting their work for publication. The poll also suggested a need for editorial assistance with grant applications.

"Certain issues came up over and over, and the most popular one was that assistance was needed for our non-native speakers, as well as for those whose busy schedules don't give them ade-

quate time to write and submit their manuscripts online because formatting requirements vary from journal to journal," Dodson said.

"Many also felt that it would be important to offer workshops and classes so that in addition to doing the work for our clients, we were also teaching them how to do it."

Using her knowledge and experience as a former manager in the journals division of Mosby Publishing and as the former publications director for the University's Office of Medical Public Affairs, Dodson sought the advice of others in the publishing profession.

She talked to then-medical school Dean William A. Peck, M.D., now the Alan A. and Edith L. Wolff Distinguished Professor of Medicine, and surveyed department heads. Many supported the idea, including Timothy J. Eberlein, M.D., the Bixby Professor and chairman of the Department of Surgery and director of the Siteman Cancer Center.

"I think this service can be very helpful to young faculty and staff in learning the 'correct' way to author a manuscript or grant," Eberlein said. "Learning the correct way will avoid the usual trial-and-error methods that many of us used during our careers."

Since its launch in April 2003, APS has offered special workshops on basic writing skills and grant proposals, as well as classes for non-native speakers through a special partnership with the University's English Language

Programs.

English Language Programs Director Rosa Brefeld said she received numerous requests for classes and private tutorials from prospective students and from medical faculty members before APS launched these services.

APS is also working with Steven M. Ehrlich, Ph.D., associate dean for undergraduate and special programs at University College in Arts & Sciences, to offer other classes, including one that will begin this fall on manuscript preparation.

"We've had tremendous support from the Hilltop Campus," Dodson said. "Everyone is eager to help. And it's amazing how many resources there are to help authors, including professional societies such as the Council of Science Editors, and freelance writers who have advanced degrees in the biomedical sciences."

Beginning April 21, APS will repeat the workshop series, "Strategies for Successful Grant Proposals," which was initially offered by the Academic Women's Network.

APS is guided by an advisory board that includes two clinical and two preclinical department heads and other key faculty members and school administrators.

The APS office is located on the first floor of the Bernard Becker Medical Library.

For more information about APS, including a schedule of classes and workshops, go online to [aps.wustl.edu](http://aps.wustl.edu).



# University Events

## Brecht's *The Good Person of Szechwan* at Edison

By LIAM OTTEN

In an unjust world, is it possible to be good?

Such is the dilemma posed by *The Good Person of Szechwan*, Bertolt Brecht's provocative modern parable about the tensions and alliances between virtue and ruthlessness.

This month, the Performing Arts Department in Arts & Sciences will present *The Good Person of Szechwan* as its spring MainStage production in Edison Theatre.

Performances will be at 8 p.m. April 16-17; at 2 p.m. April 18; at 8 p.m. April 23-24; and at 2 p.m. April 25.

*The Good Person of Szechwan* tells the story of Shen Teh (junior Deepti Ramakrishnan), a kind-hearted but penniless prostitute who, after everyone else in her village has refused, agrees to take in three weary travelers (Carrie Lewis, Judith Lesser and Daniel Malmberg).

The travelers, however, actually are a trio of gods, who reward Shen Teh's generosity with 1,000 silver dollars, which she uses to purchase a tobacco shop.

Shen Teh's newfound wealth, however, brings its own problems, making her a target for all manner of freeloaders. To protect her interests, Shen Teh invents a male alter ego, the hard-nosed, unsparing Shui Ta.



Senior David Carp as Yang Sun and junior Deepti Ramakrishnan as Shen Teh in Bertolt Brecht's *The Good Person of Szechwan*, being presented at Edison Theatre by the Performing Arts Department in Arts & Sciences.

"This is one of Brecht's masterworks — a brilliant amalgam of musical theater, comedy, drama and politics," said William Whitaker, senior artist-in-residence, who directs the cast of 27. "In Brecht's apocalyptic vision, the earth is swarming with ruth-

less criminals and the desperate poor. The situation is so dire that the gods themselves have come down in search of one good person.

"In such a world, Brecht asks, Is it possible to be good? Is evil somehow necessary in order to

do good? His answers are not easy, but they resonate profoundly in our own troubled times."

Brecht (1898-1956) first conceived of *The Good Person of Szechwan* in the late 1920s but wrote it primarily between 1939 and 1943, while living in Scandi-

navia and the United States during years of exile from Nazi Germany.

The play is widely considered a prime example of Brecht's "Epic Theatre," a concept he developed in opposition to traditional dramatic theater.

Where dramatic theater appealed to feeling, Epic Theatre, Brecht argued, would appeal to intellect. Where dramatic theater rendered the audience passive, Epic Theatre would rouse them to action.

And indeed, the epilogue to *The Good Person of Szechwan* explicitly challenges audiences to respond to the play through their actions.

The production also stars sophomore Matt Goldman as Wang the water seller, who narrates much of the action; and senior David Carp as the feckless pilot Yang Sun.

Set design is by senior Alexis Distler. Costumes are by Bonnie Kruger, senior artist-in-residence.

Lighting is by senior Justin Wardell. The production also features original music by Jeffrey Noonan.

Tickets are \$12 — \$8 for students, senior citizens and WUSTL faculty and staff — and are available through the Edison Theatre Box Office and MetroTix outlets.

For more information, call the Edison Theatre Box Office at 935-6543.

## Run for Research • Realist Vision • Out With a Bang!

"University Events" lists a portion of the activities taking place April 16-29 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus ([calendar.wustl.edu](http://calendar.wustl.edu)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

**American Art of the 1980s: Selections From the Broad Collections.** Through April 18. Gallery of Art. 935-5423.

**American Art on Paper From 1960s to the Present.** Through April 18. Gallery of Art. 935-5423.

**Painting America in the 19th Century.** Through April 18. Gallery of Art. 935-5423.

**History of Adult Education at Washington University, 1854-2004.** Through May 31. January Hall, Rm. 20. 935-4806.

**Influence 150: 150 Years of Shaping a City, a Nation, the World.** Becker Medical Library. 362-7080.

**New Beginnings: The First Decade of the Washington University Medical Campus,**

**1915-1925.** Through May 31. Glaser Gallery, Becker Medical Library, 7th Fl. 362-4236.

### Lectures

#### Friday, April 16

**9:15 a.m. Pediatric Grand Rounds.**

"Working With Parents: Three Lessons From the Inner-City Asthma Study." Ellen F. Crain, dir. of emergency medicine, Jacobi Medical Center, Bronx, N.Y. Clopton Aud., 4950 Children's Place. 454-6006.

**11 a.m. Computer Science Colloquium.**

"Argumentation-based Dialogues Between Intelligent Agents." Simon Parsons, asst. prof. of computer and information science, Brooklyn College, City U. of N.Y. Cupples II Hall, Rm. 217. 935-6078.

**Noon. Cell Biology & Physiology Seminar.**

"Molecular Genetic Dissection of K Channel Diversity and Functioning." Jeanne M. Nerbonne, prof. of molecular biology & pharmacology, McDonnell Medical Sciences Bldg., Rm. 426. 362-3964.

**1-4:30 p.m. St. Louis STD/HIV Prevention**

**Training Center CME Course.** "What's New in Bacterial STDs." Cost: \$50. U. of Mo.-St. Louis, S. Computer Bldg., Rm. 200A. To register: 747-1522.

**2-5 p.m. Symposium for Technology, Media, Design, Art and Theory: Critical Praxis for the Emerging Culture.** "Technology and Design Between Theory and Practice." Philip Walsh, historian, Northeastern U., moderator. Steinberg Hall Aud. 935-6200.

**2 p.m. Visiting East Asian Professionals Program Discussion.** "Mitts Across the Pacific: Baseball in Japan and the United States." (Reception follows.) Anheuser-Busch Hall, Rm. 310. 935-8772.

**4 p.m. Romance Languages and Literatures Lecture Series.** "Self-representations in Ronsard's Poetic Works." Francois Rouget, Queen's National Scholar and prof. of French literature, Queen's University, Ontario. Brookings Hall, Rm. 300. 935-5175.

**7:30 p.m. McDonnell Center Distinguished Lecture.** "The Stardust Mission." Donald Brownlee, prof. of astronomy, University of Washington. Arts & Sciences Laboratory Sciences Bldg., Jerzewiak Family Auditorium. 935-5332.

#### Saturday, April 17

**7:30 a.m.-noon. Infectious Diseases CME**

**Course.** "HIV Medical Applications From the 11th Conference on Retroviruses and Opportunistic Infections." Cost: \$55. Eric P. Newman Education Center. 454-8215.

**10 a.m.-1 p.m. Symposium for Technology, Media, Design, Art and Theory: Critical Praxis for the Emerging Culture.** "Complexity of Cultural Shifts: Projecting Critical Praxis." Carol Strohecker, scientist, Media Lab Europe, moderator. Steinberg Hall Aud. 935-6200.

#### Monday, April 19

**Noon. Center for the Study of Nervous System Injury Monday Noon Seminar Series.** Paul Kotzbauer, Center for Neurodegenerative Disease Research, U. of Penn. Maternity Bldg., Schwarz Aud. 362-9460.

**Noon. Molecular Biology & Pharmacology Seminar.** "Calcium Channel Modulation: Molecular Mechanisms and Physiological Significance." Kathleen Dunlap, prof. of neuroscience, Tufts U. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**4 p.m. Biology Seminar. Annual Viktor Hamburger Lecture.** "Induction of the Vertebrate Central Nervous System." Eddy De Robertis, Howard Hughes Medical Inst. and dept. of biological chemistry, U.

of Calif., Los Angeles. January Hall, Rm. 110. 935-6860.

**7 p.m. Architecture Monday Night Lecture Series.** Sam Fox Arts Center Lecture. Krzysztof Wodiczko, artist. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

#### Tuesday, April 20

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.**

"Persisting Problems in Tuberculosis." John D. McKinney, asst. prof. of microbiology & immunology and head of the lab. of infection biology, Rockefeller U. Cori Aud., 4565 McKinley Ave. 362-3692.

**Noon. Program in Physical Therapy Seminar.** "Interaction of Mental Tasking and Postural Stability in Elderly and Early Alzheimer Patients." Joel A. Goebel, prof. and vice chairman of otolaryngology-head and neck surgery, 4444 Forest Park Blvd., Lower Lvl., Rm. B108/B109. 286-1404.

**4 p.m. Biology Seminar.** "Structural Bioinformatics and Protein Evolution Made Easy." Eric Martz, prof. emeritus of microbiology, U. of Mass., Amherst. McDonnell Hall, Rm. 212. 935-5348.

**4 p.m. Writing Seminar.** Qui Xiaolong, author. McMillan Café. 935-5576.

#### Wednesday, April 21

**10 a.m. Molecular Microbiology Seminar.** "HIV Exploitation of DC-SIGN as a Viral Trans Receptor." Li Wu, research fellow, National Cancer Inst., Frederick, Md. McDonnell Pediatric Research Bldg., Rm. 8101. 747-2630.

**1-3 p.m. Academic Publishing Services Course.** "Strategies for Successful Grant Proposals." (Also 1-3 p.m. April 28, May 5 & 12.) Cost: \$60 per class or \$200 for all four. Special rates available. Moore Aud., 660 S. Euclid Ave. To register: 362-4181.

**2 p.m. Assembly Series.** Environmental Initiative Colloquium Presentation. "Educational Practices and the Environment." Chancellor Mark S. Wrighton, moderator. Whitaker Hall Aud. 935-5285.

**4 p.m. University Libraries Special Collections Lecture.** "Mendelssohn, Lessing, and Friends." Hillel J. Kieval, Gloria M. Goldstein Professor of Jewish History and Thought. Olin Library, Lvl. 1, Special Collections. 935-5418.

#### Thursday, April 22

**10:30 a.m.-5 p.m. Earth Day Celebration Colloquium.** "Our Rivers: A Sustainable Resource?" Cost: \$75. Missouri Botanical Garden, 4344 Shaw Blvd. 962-5838.

## St. Louis poet, critic and crime novelist Qiu Xiaolong to read

St. Louis-based poet, critic and crime novelist Qiu Xiaolong, Ph.D., will read from his work at 8 p.m. April 19 as a part of The SmartSet Series: Where Great Writers Read, sponsored by The Center for the Humanities in Arts & Sciences. The reading will take place in Anheuser-Busch Hall, Room 204.

In addition, Qiu will lead a seminar on the craft of writing at 4 p.m. April 20 in McMillan Café. The event will include a question-and-answer session.

Qiu authored two prize-winning novels, *Death of a Red Heroine* (2000) and *A Loyal Character Dancer* (2002); a poetry translation, *Treasury of Chinese Love Poems* (2003); and a poetry collection, *Lines Around China* (2003).

His new novel, *When Red Is Black*, has been published in French and will be released in English in July. A poetry transla-

tion, *Poems From the Tang Dynasty*, also is forthcoming this year.

Before arriving in the United States in 1988, Qiu published prize-winning poetry, translations and criticism in Chinese and was a member of the Chinese Writers' Association. After emigrating, Qiu began writing in English and earned a doctorate in comparative literature from Washington University.

He continues to reside in St. Louis, with his wife, Wang Lijun, and daughter, Julia.

*Death of a Red Heroine*, Qiu's first novel in English, received a 2001 Anthony Award for First Novel and was the first of Qiu's "Detective Chen" series, which follows the exploits of a police inspector whose job sometimes brings him into conflict with upper echelons of the Chinese Communist party. The character's background in English lan-

guage and literature makes him an ideal host for American visitors, with whom he can discuss his love of Western literature, from T.S. Eliot to Faulkner.

*Death of a Red Heroine* was favorably reviewed by *The Wall Street Journal*, *Library Journal*, *Booklist* and many others, and was selected by National Public Radio as one of the 10 best books of 2000.

*Publishers Weekly* noted, "The author, himself a poet and critic, peppers the story with allusions to classical Chinese literature, juxtaposing poignant poetry with a gruesome murder so that the novel reads like the translation of an ancient text imposed over a modern tale of intrigue."

"This is an impressive and welcome respite from the typical crime novel."

The *Chicago Tribune* added, "Xiaolong knows that words can

save your soul and in his pungent, poignant mystery, he proves it on every page."

To a Western reader, the characters in Qiu's novels quote poetry with unusual frequency.

"Most novels in China contain much more poetry (than Western novels), at the start of the chapter, at the end, and in the middle — and sometimes they use a poem to introduce a new character," Qiu said. "I tried to keep this kind of Chinese tradition."

Using poetry, Qiu said, "can be a way of discreetly revealing character. China has a self-effacing culture. It's better not to say what you want to say immediately."

Both events are free and open to the public. Copies of Qiu's work will be available for purchase, and a book-signing and reception will follow each program.

For more information, call 935-5576.



# The St. Louis Projection at St. Louis Public Library April 16-18

BY LIAM OTTEN

Krzysztof Wodiczko's *The St. Louis Projection*, a poignant and provocative community art project about the shattering effects of violence and the healing power of public discourse, will be broadcast onto the St. Louis Public Library, 1301 Olive St., from 9-11 p.m. April 16-18.

The piece consists of audio testimony by a half-dozen St. Louis residents who have lost loved ones, inter-cut with the remorseful stories of prisoners now serving time for such acts at the Missouri State Correctional Facility in Potosi. Accompanying each speaker's voice are videotaped images of their hands, which will be projected onto the library's southern facade.

The effect is strikingly anthropomorphic, as if the library itself were speaking to the city. At the same time, though the stories told are often heartrending, the process of telling them is, for both participants and the community, profoundly healing.

Those who have lost loved ones are able to voice their grief in a powerful yet constructive public forum, while those who have committed violence are able to express regret and warn of the costs they have paid for their actions.

"The St. Louis Public Library

is a beautiful and historic building," Wodiczko said. "It is filled with many different voices and has a strong, monumental presence. It is a good place at which to discuss these themes of loss and healing and justice."

He pointed out that the library's inscription reads, in part, "Recorded thought is our chief heritage from the past, the most lasting legacy we can leave to the future."

In addition, Wodiczko will speak for the Assembly Series and the School of Architecture's Monday Night Lecture Series at 6 p.m. April 19 in Steinberg Hall Auditorium.

Created in collaboration with faculty and students from the schools of Architecture and Art, *The St. Louis Projection* is one of several events surrounding the April 14 groundbreaking of the Sam Fox Arts Center.

Wodiczko, director of the Center for Advanced Visual Studies at Massachusetts Institute of Technology, has realized slide and video projections on more than 70 historic monuments and architectural facades in more than a dozen countries. These include the Bunker Hill Memorial in Boston; the Martin Luther Church in Kassel, Germany; and the Bundeshaus (Capitol) in Bern, Switzerland.

In 1999, Wodiczko received the Hiroshima Prize, awarded

## 'Critical Praxis' to examine media

BY LIAM OTTEN

The schools of Architecture and Art will present an international symposium on media, technology and cultural transformation today and April 17.

"Critical Praxis for the Emerging Culture: A Collaborative Investigation Into the Nature of Cultural Transformation Brought About by Technology and Media" will include presentations and panel discussions with world renowned artists, designers, theoreticians, and scientists who are transforming emerging technology and using it as the vehicle for cultural inquiry.

"The intent of Critical Praxis is to investigate the social and cultural transformations which result from our information- and media-driven contemporary society," said Cynthia Weese, dean of the School of Architecture. "The presentations by young architects and designers will provide alternative views and attitudes in

emerging design practices.

"Insights generated will help project the future development of design and technological education and practice."

The centerpiece of Critical Praxis is *The St. Louis Projection*. Panel discussions will be held in Steinberg Auditorium.

At 9:30 a.m. today, art historian Philip Walsh, assistant professor at Northeastern University, will moderate a panel discussion on "Film/Installation/Performance: Spatial Formations." At 2 p.m., Walsh will host a second discussion, on "Technology and Design Between Theory and Practice."

At 10 a.m. April 17, Carol Strohecker, principal investigator of the Everyday Learning Research Group at Media Lab Europe in Dublin, will moderate the final discussion, on "Complexity of Cultural Shifts: Projecting Critical Praxis."

All events are free and open to the public.

every three years by the Japanese city to an artist whose work has contributed to world peace.

Interviews for *The St. Louis Projection* were coordinated by Bob Hansman, associate professor

of architecture and founder of City Faces, a nationally renowned art program for youth living in public housing. Sung Ho Kim, assistant professor of architecture, and Adam Whiton, a research

**Noon. Genetics Seminar Series.** Paul Garrity, dept. of biology, Mass. Inst. of Technology. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**3-7:30 p.m. Center for the Application of Information Technology Forum.** "Creating Value for Customers." Robert McDowell, Microsoft Worldwide Services. Forest Park, Lindell Pavilion. To register: 935-4444.

### Friday, April 23

**7 a.m.-6:30 p.m. Orthopaedics CME Course.** "Fingers to Toes: Comprehensive Orthopaedic Review for Primary Care Providers." (Continues 7:30 a.m.-1 p.m. April 24.) Cost: \$350 for physicians, \$295 for allied health professionals. Eric P. Newman Education Center. 362-6891.

**8-10 a.m. Center for the Study of Ethics and Human Values Symposium.** John Dubinsky Symposium on Corporate Governance and Ethics. Miriam Miquelon, adjunct prof. of law, and Stacy Jackson, asst. dean for experiential learning & professional development, moderators. Charles F. Knight Executive Education Center. 935-9358.

**9:15 a.m. Pediatric Grand Rounds.** "Pursuing an Understanding of Cystic Fibrosis Lung Disease and the Development of New Treatments." Michael Welsh, prof. of internal medicine, U. of Iowa. 454-6006.

**11 a.m.-12:30 p.m. Ethnocultural Work Group Lecture.** "Cultural Formulation of Psychiatric Diagnosis." Roberto Lewis-Fernandez, dir., Hispanic Treatment Program, N.Y. State Psychiatric Inst. and assoc. prof. of clinical psychiatry, Columbia U. Brown Hall Lounge. 286-2268.

**1-4:30 p.m. St. Louis STD/HIV Prevention Training Center CME Course.** "Current Controversies in Viral STDs." Cost: \$50. U. of Mo.-St. Louis, S. Computer Bldg., Rm. 200A. To register: 747-1522.

### Monday, April 26

**Noon. Molecular Biology & Pharmacology Seminar.** "Signaling Between Synapse and Nucleus During Long-lasting, Learning-related Forms of Plasticity." Kelsey Martin, asst. prof. of molecular and cell biology, U. of Calif., Los Angeles. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**Noon. Work, Families, & Public Policy Brown Bag Seminar Series.** "Women's Place: Urban Planning and Work-Family Balance." Katharine Silbaugh, prof. of law, Boston U. Eliot Hall, Rm. 300. 935-4918.

**4 p.m. Biology Seminar.** "Out With a Bang! The Myth and Meaning of Regulated Exocytosis in Tetrahymena." Aaron Turkewitz, assoc. prof. of molecular genetics and cell biology, U. of Chicago. Rebstock Hall Rm. 322. 935-8838.

**4 p.m. Immunology Research Seminar Series.** "TNFR on T Cells." Robert H. Arch, asst. prof. of internal medicine, Eric P. Newman Education Center. 362-2763.

**4 p.m. Music Lecture.** "Parallel Performances: Marin Marais and Frère Jacques at Versailles." Sarah Ruddy, graduate student in musicology, Music Classroom Bldg., Rm. 102. 935-4841.

**4 p.m. Romance Languages & Literatures Lecture.** Rava Lecture. "The Persistent Puppet: Pinocchio's Afterlife in Contemporary Literature, Cinema and Popular Culture." Rebecca West, prof. of Italian, U. of Chicago. Brookings Hall, Rm. 300. 935-5175.

### Tuesday, April 27

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Intersection Between Bacterial Pathogens and Signal Transduction Systems." Jack E. Dixon, dean of scientific affairs, U. of Calif., San Diego. Cori Aud., 4565 McKinley Ave. 362-6772.

**6 p.m. Architecture Monday Night Lecture Series.** Sam Fox Arts Center Lecture. "Sculptures and Related Images." Rachel Whiteread, artist, London. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

### Wednesday, April 28

**4 p.m. Comparative Literature Seminar.** Annual William H. Matheson Seminar in Comparative Arts. "Realist Vision." Peter Brooks, Sterling Professor of Comparative Literature and French, Yale U. Brookings Hall, Rm. 300. 935-5170.

### Thursday, April 29

**Noon. Genetics Seminar Series.** Kim McKim, Walksman Inst., Rutgers U. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**1:10 p.m. George Warren Brown School of Social Work Spring Lecture Series.** "Understanding Social and Economic Change." Douglass C. North, Spencer T. Olin Professor in Arts & Sciences. Brown Hall Lounge. 935-6661.

**3 p.m. Physics Seminar.** "High Performance Computing at Wash U: The Center for Scientific Parallel Computing." Malcolm Tobias, post doctoral research assoc. in physics. (2:30 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

**4 p.m. Earth & Planetary Sciences Colloquium.** "Whence the Solar System's First Rocks?" Kevin D. McKeegan, prof. of geochemistry and cosmochemistry, U. of Calif., Los Angeles. McDonnell Hall, Rm. 361. 935-5610.

## Music

### Friday, April 16

**8 p.m. Concert.** Chamber Choir of Washington University. John Stewart, dir. Graham Chapel. 935-4841.

### Sunday, April 18

**3 p.m. Graduate Recital.** Adam Cromer, tenor. Henry Palkes, piano. Graham Chapel. 935-4841.

### Tuesday, April 20

**8 p.m. Concert.** Washington University Chorus. Eric Anthony, dir. Graham Chapel. 935-4841.

### Thursday, April 22

**8 p.m. Jazz at Holmes.** Freddie Wash-



**Traditional dance** Xavier "Sonny" Littlehead performs during the junior dancer competition at the 14th annual powwow April 10 in the Field House. The powwow was the final event of American Indian Awareness Week, co-sponsored by the Kathryn M. Buder Center for American Indian Studies in the George Warren Brown School of Social Work and by the School of Law. The theme of this year's festival was "Bringing Nations Together Through Education, Community and Culture."

ington's tribute to John Coltrane. Ridgley Hall, Holmes Lounge. 935-4841.

### Saturday, April 24

**8 p.m. Senior Recital.** Krisena Sell, piano. Steinberg Hall Aud. 935-4841.

### Sunday, April 25

**3 p.m. Chancellor's Concert.** Washington University Symphony Orchestra and Chamber Choir. Dan Presgrave, dir., orchestra, and John Stewart, dir., choir. Graham Chapel. 935-4841.



specialist with MIT's Center for Advanced Visual Studies, are designing special equipment to facilitate filming of the hands.

Alison Bates, a master of fine arts candidate in photography, serves as project coordinator. Multimedia artist and filmmaker Zlatko Cosic and 2003 alumnus Brett Murphy also are assisting, with technical support and expertise provided by The Spark Agency.

The St. Louis Public Library was designed by the firm of Cass Gilbert, a New York architect chosen in a national competition. Construction of the Beaux Arts, Italian Renaissance-style began in 1909 and the building was dedicated in 1912.

Both *The St. Louis Projection* and Critical Praxis are organized by the schools of Architecture and Art. The events are co-sponsored by the Sam Fox Arts Center, School of Law, George Warren Brown School of Social Work and Department of Computer Science & Engineering, as well as the Contemporary Art Museum St. Louis.

Additional support is provided by The Spark Agency, Chicago's Graham Foundation for Advancement in Fine Arts and the University's Sesquicentennial grants.

For more information, call 935-6200.

## Sports

### Sunday, April 18

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

### Tuesday, April 20

**5 p.m. Women's Tennis vs. Principia College.** Tao Tennis Center. 935-4705.

### Thursday, April 22

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

### Thursday, April 29

**5 p.m. Men's Tennis vs. Principia College.** Tao Tennis Center. 935-4705.

## And more...

### Friday, April 16

**9:30 a.m.-12:30 p.m. Symposium for Technology, Media, Design, Art and Theory: Critical Praxis for the Emerging Culture Film/Installation/Performance.** "Spatial Formations." Philip Walsh, historian, Northwestern U. Steinberg Hall Aud. 935-7721.

**4 p.m. Writing Program Fiction Reading.** Donald Antrim, novelist. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.

### Monday, April 19

**6:15 p.m. Germanic Languages & Literatures Reading.** "Der Spaziergang von Rostock nach Surakus." Friedrich Christian Dellus, Max Kade Writer-in Residence. Duncker Hall, Rm. 201, Hurst Lounge. 935-5106.

**8 p.m. Fiction Reading.** Qui Xiaolong, author. Sponsored by The Center for the Humanities in Arts & Sciences. Anheuser-Busch Hall, Rm. 204. 935-5576.

### Friday, April 23

**5-7 p.m. University Libraries Open House.** Kranzberg Illustrated Book Studio Open House. West Campus Conference Center, Lower Lvl. 935-5418.

**7 p.m. Gallery of Art Public Exhibition Tour.** Led by student docents. Gallery of Art. 935-4523.

### Saturday, April 24

**9 a.m. Program in Physical Therapy Run for Research.** Tower Grove Park. For more information: pt.wustl.edu/pt/pt.nst/q/r/r.

### Monday, April 26

**8 p.m. Writing Program Reading Series.** Master of Fine Arts readings. (Also 8 p.m. April 27 & 28.) Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.



## Forum

### Marks final event of Environmental Initiative

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ronmental Engineering Science Program in the School of Engineering & Applied Science and the Stifel and Quinette Jens Professor of Environmental Engineering Science; Charles Buescher, professor of environmental engineering; Robert Criss, Ph.D., professor of earth and planetary sciences in Arts & Sciences; and William Lowry, Ph.D., professor of political science in Arts & Sciences.

The forum will provide a history of rivers in the St. Louis region and their various uses in transportation, agriculture, power production, recreation and public water supply.

Although the sustainable-rivers colloquium is being offered to the public as part of the St. Louis Earth Day celebration, it will also mark the final event in the University's yearlong Environmental Initiative, a series of educational programs exploring the role that research universities can play in addressing issues related to the environment.

Other highlights of the two-day program will include more than 20 presentations by local, national and international experts, participation by local government representatives, interdisciplinary workshops, technical seminars, a green building expo and a post-conference barge trip on the Missouri and Mississippi rivers.

Other topics to be addressed in

### Environmental forum to focus on education

The University's yearlong Sesquicentennial Environmental Initiative Colloquia will continue at 2 p.m. April 21 with a program on "Educational Practices and the Environment."

The event will be held in the auditorium of Uncas A. Whitaker Hall for Biomedical Engineering and is free and open to the public.

A panel will feature administrators from Harvard, Stanford and Arizona State universities and Massachusetts Institute of Technology, discussing various environmental education and research initiatives at their respective campuses.

Chancellor Mark S. Wrighton will moderate.

For more information, go online to [150.wustl.edu/environment](http://150.wustl.edu/environment).

— Barbara Rea

educational tracks include community design and water quality, green buildings, transportation, and economics and policy of sustainable development.

The public is welcome to attend, but registration fees will be charged; fees range from \$25 for a policy seminar to \$75 for a daylong symposium event. The fee for the University-led forum April 22 is \$75.

For more information, go online to [www.stlouisearthday.org](http://www.stlouisearthday.org); call 962-5838; or e-mail [karla@stlouisearthday.org](mailto:karla@stlouisearthday.org).

terested in University administrative positions. Since the administrative pool began, there have been 20 hires from it.

"The administrative pool on the Hilltop Campus was a great resource to my department when we recently had to fill an administrative position," said Lisa Underwood, manager of parking and transportation services. "The pool allowed the employment office to quickly provide us with an outstanding group of candidates."

"It actually made the selection process more difficult. We were provided with such great applicants, it was hard to choose."

All administrative positions are posted for a minimum of five business days, and résumés of internal and external candidates applying for the open positions are reviewed. Internal and external candidates who are the best matches to the position descriptions are recommended to managers according to their skills, experience and behavioral fit, in addition to the pool candidates.

"I found the administrative assistant pool process used by human resources to be very beneficial to me as I pursued a career at Washington University," said Linda Kilwin, M.B.A. admissions coordinator in the Olin School of Business. "The whole application process was very simple. The human resources staff made sure everything ran smoothly."

"When I began the process, I was told that my application, résumé and test scores would be placed in the administrative pool. Because of this placement, various University departments contacted me to discuss possible employment. I chose my current position because I felt it was the 'perfect fit' for me."

"The success of this process depends on all involved: the hiring manager, the HR representative and the candidate. Communicating the needs of everyone involved is crucial to finding the perfect fit. The final outcome we all strive for is a successful career for the employee and a productive employee for the University."



**Play the game, roll the dice** Students, faculty and staff in the Olin School of Business roll the dice for charity at the school's recent Casino Night in Simon Hall. With professional dealers from local casinos on hand, the lucky and the not-so-lucky tried their hands at poker, blackjack, roulette, craps and gerbil races. More than \$3,500 in prizes was awarded, including iPods and gift certificates for hotels, dinners, electronics and skydiving lessons. Participants enjoyed food and beverages and the music of local jazz band Maurice Carnes. More than \$2,000 in proceeds went to the Washington University Bone Marrow Registry.

## Roman

### Established Mobile Computing Laboratory

— from Page 2

real-time image processing and pipelined graphic processing.

Later work was motivated by the desire to change the way software developers think about the systems they construct and to facilitate both rapid and dependable engineering of programs and tools for software development.

As Roman's interests gradually shifted toward the study of mobile computing, he established the Mobile Computing Laboratory and started work on a new generation of models and software systems that have enhanced the department's profile worldwide.

Roman has published more than 120 technical papers; gradu-

"The School of Engineering & Applied Science highly values the integrity, energy and vision that Catalin Roman brings to computer science and engineering."

CHRISTOPHER I. BYRNES

ated 12 doctoral students — with the majority pursuing their own academic careers — and has been very active professionally, serving various professional societies in a number of capacities.

"The School of Engineering & Applied Science highly values the integrity, energy and vision that Catalin Roman brings to computer science and engineering," said Christopher I. Byrnes, Ph.D., dean of the School of Engineering & Applied Science and the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics. "Catalin runs an

ambitious agenda that is getting more and more recognition because of the world-class research being performed in his department.

"He's very well-known not only for his research areas, most recently mobile computing, and for his skills as an administrator, but also for the many collaborations he's participated in over his nearly 30 years at Washington University."

Roman is a member of Tau Beta Pi, the Association for Computing Machinery and the IEEE Computer Society.

## Pool

— from Page 1

to be referred to hiring managers as administrative/clerical type positions open.

"We decided that this was an area of opportunity, to be a little ahead of the curve, by anticipating the hiring managers' needs and being able to quickly refer quality candidates," said Rick Jouett, director of employment and career development in human resources.

"The sourcing of skilled and experienced administrative candidates in the St. Louis region is very competitive. By creating this 'administrative pool,' we are cutting the recruitment time significantly. Many times, our recruiters are able to refer several candidates within 24 hours."

"Our hiring managers and the hires from the 'pool' are very satisfied."

The candidates for the administrative pool are typically selected from résumés received by the recruitment specialists that handle Hilltop Campus administrative positions. The selected candidates are contacted to visit the employment office for an informational interview, to take computer software testing and basic skills testing in the areas of math, vocabulary, editing and proofing.

In addition to assessing skills, the recruitment specialist assesses job behaviors the hiring manager considers to be critical for success in a particular position. Candidates selected to be in the pool must meet certain requirements, such as an administrative support background and be well-proficient in computer software packages.

Also, since hiring managers are particularly interested in candidates with prior university administrative or clerical experience, there is some emphasis on searching for candidates with this experience.

Late last fall, the employment office began contacting and assessing candidates who were in-

## Sports

### Sagartz still rolling; softball team 24-1

Freshman Laurel Sagartz pitched a two-hit shutout to help the No. 3 softball team defeat Maryville University, 4-0, in the first of two games April 9. The second game was called due to darkness in the top of the sixth with the score tied at 3. Sagartz struck out 10 and walked three to improve to 9-0, while lowering her earned run average to 0.24. She also extended her scoreless streak to 24 innings with her third straight shutout. Junior Liz Swary led off the top of the sixth with a home run to give WUSTL (24-1) the lead. It was her fourth homer of the season and 17th of her career. Washington U. then put the game out of reach with three runs in the top of the seventh inning, thanks to a Stephanie Sheppard bases-clearing double.

### Sports shorts

The **baseball** team split a pair of road games to move its record to 14-13. The Bears opened the week with a 19-18 loss at Greenville College on April 6. WUSTL hammered out 21 hits and posted a nine-run seventh inning to take a 17-16 lead, but it was not enough. Two days later, senior Adam Cowley and junior Jason

### On the Web

For complete sports schedules and results, go to [bearsports.wustl.edu](http://bearsports.wustl.edu).

Ortwerth pitched the Bears to victory. Cowley pitched 4 2/3 strong innings and struck out eight before Ortwerth came on in relief to pick up his fourth win in a 10-4 win against Westminster College. Cowley recorded six of his strikeouts in the first three innings, allowing no hits.

The No. 12 **women's tennis** team placed third at the Midwest Invitational in Madison, Wis., April 9-10. The Bears opened play with an 8-1 win against Luther College. WUSTL swept the doubles point and took five of the six singles matches en route to the win. The Bears then fell to eventual Invitational champion Gustavus Adolphus College, 6-3, but rebounded with a 6-3 win against Albion College in the third-place match. Junior Erica Greenberg led the Bears at No. 5 singles, recording a 3-0 record. Greenberg picked up 6-2, 6-1 wins against Luther and No. 9 Gustavus Adolphus and posted a 6-1, 6-2 win against Albion. Greenberg is 22-2 this year in singles play, including 16-0 in dual matches.

The No. 7 **men's tennis** team fell to 7-7 with a 5-2 loss to the University of Missouri-St. Louis April 7 at the Tao Tennis Center. Senior Brian Alvo and sophomore Ari Rosenthal posted an 8-3 win at No. 1 doubles to begin the match, but the Rivermen fought back for wins at No. 2 and 3 doubles to take the doubles point. In singles, UMSL won four of six matches as Rosenthal and sophomore Eric Borden each won their respective match.

The **women's track and field** squad posted a pair of first-place finishes April 10 at the SIU-Edwardsville Cougar Classic in Edwardsville, Ill. Senior Lindsey Clark-Ryan took first in the triple jump, while the 1,600-meter relay squad also finished first. Clark-Ryan leaped 11.51 meters for an NCAA provisional qualification and a school season-best mark. The 1,600-meter relay squad of sophomore Michelle McCully, freshman Natalie Badowski, sophomore Laura Ehret and sophomore Dorothy Gregg clocked a 3:59.66. On the men's side, sophomore David Skiba continued his ascent in the hurdles. Skiba posted a time of 14.72 in the 110-meter hurdles, good for an NCAA "B" cut.



## Notables

### Introducing new faculty members

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

**T.R. Kidder** joined the Department of Anthropology in Arts & Sciences as professor. He earned a bachelor's degree from Tulane University and a Ph.D. from Harvard in 1988. He had been a member of the faculty at Tulane since completing his Ph.D., and in 2002-03 served as interim dean of Tulane College. Kidder is interested in North American archaeology and ethnohistory, particularly the prehistoric and historic Indian cultures of the Southeast. His work concerns subsistence studies, paleoecology, geoarchaeology, the formation of hierarchical social systems, ceramic analysis, and the archaeology of European contact.

**Martin Jacobs** joined the Department of Asian and Near Eastern Languages and Literatures in Arts & Sciences as assistant professor of rabbinic studies. He also holds a joint appointment in the program in Jewish, Islamic and Near Eastern Studies. He earned a habilitation (2002) and Ph.D. (1994) in Jewish studies from the Free University of Berlin. His research interests span Jewish literature and history from the emergence of Rabbinic Judaism in Roman Palestine through its encounter with Islam in medieval and early modern times. He was as a postdoctoral fellow at the Hebrew University of Jerusalem in 1999-2001, and a research fellow at the Center for Advanced Judaic Studies,

University of Pennsylvania in 2001-02.

**Peter J. Morin** joined the Department of Biology in Arts & Sciences as professor and director of the Tyson Research Center. He earned a Ph.D. from Duke University in 1982 and previously was professor in the Department of Ecology, Evolution & Natural Resources at Rutgers University. Morin offers his expertise on a multitude of professional advisory panels including National Science Foundation; OTS Research Fellowship Advisory Committee; and the National Center for Ecological Analysis and Synthesis, Scientific Advisory Board, Santa Barbara, Calif. Morin's interests include contributions of microbial studies to our understanding of biodiversity and community ecology.

**Vladimir Birman** joined the Department of Chemistry in Arts & Sciences as assistant professor. He earned a Ph.D. from the University of Chicago in 2000 and a bachelor's degree from the University of North Carolina-Charlotte in 1995. His research interests lie in the area of synthetic organic chemistry and include total synthesis of bioactive natural products and rational design of ligands and catalysts for asymmetric chemical transformations. He recently completed postdoctoral studies at Columbia University, during which he accomplished the first total synthesis of merrilactone A, a potent neurotrophic agent that may be useful in the treatment of neurodegenerative diseases, such as Alzheimer's and Parkinson's.

## Obituary

### Russell, associate dean of Arts & Sciences; 63

By SUSAN KILLENBERG MCGINN

Sarah Russell, associate dean of Arts & Sciences, died Tuesday, April 13, 2004, of a brain tumor at her home in Clayton. She was 63.

A native of Clayton, Russell's affiliation with the University began when she enrolled as a freshman in 1959. After a 20-year hiatus to raise three children, she returned and earned a bachelor's degree in 1982 and a master's degree in 1983, both in English in Arts & Sciences.

In 1984, she joined the Department of English as a lecturer, teaching beginning and advanced writing courses. She received the Dean's Award for Teaching Excellence in 1986 and was named the Mortar Board Teacher-of-the-Month in January 1991.

She also taught a professional writing workshop in the George Warren Brown School of Social Work.

She was named assistant dean of Arts & Sciences in 1990 and associate dean in 1994. Her responsibilities included serving as

managing editor of the *Arts & Sciences Newsletter*, as liaison to the development office and as coordinator of the Arts & Sciences National Council. She also oversaw Edison Theatre.

"Sarah was a wonderful colleague and friend to so many people," said Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences. "She had an optimistic outlook on life and in her work at Washington University."

"She helped so many people through her writing, her creative ability and her attention to detail. She believed deeply in Arts & Sciences and loved the Washington University community."

She most recently served as a member of the University's Sesquicentennial Commission and as coordinator of the Arts &

Sciences participation in the 150th celebration.

Russell also had a second career as an artist over the past 30 years. She exhibited her work, which included beaded vessels, cut paper collages and wearable beaded amulet bags, in solo shows as well as local and national juried exhibitions.

A memorial service will be held at 10:30 a.m. April 18 in Graham Chapel. Burial will be private.

Among the survivors are her husband, John Porter; two sons, Clark and Andrew Russell; a daughter, Margaret Berkes; her father, H. Richard Nussbaum; a sister, Mary Lang; a brother, Richard Nussbaum; three stepsons, Jonathan, Joshua and Justin Porter; and four grandchildren.

In lieu of flowers, the family has requested that memorial contributions be made to the Sarah Nussbaum Russell Unrestricted Arts & Sciences Deans Fund, in care of Lisa Siddens, Washington University, Office of the Dean, One Brookings Drive, Campus Box 1094, St. Louis, MO 63130-4899.



Russell

## Campus Watch

The following incidents were reported to University Police April 7-13. 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.

### April 8

3:36 p.m. — A person reported that three fans and a cordless drill were stolen from the basement of a building in The Village by an unknown person. There were no serial numbers known, and the items had been left in an unsecured area. Total loss is estimated at \$1,200.

### April 9

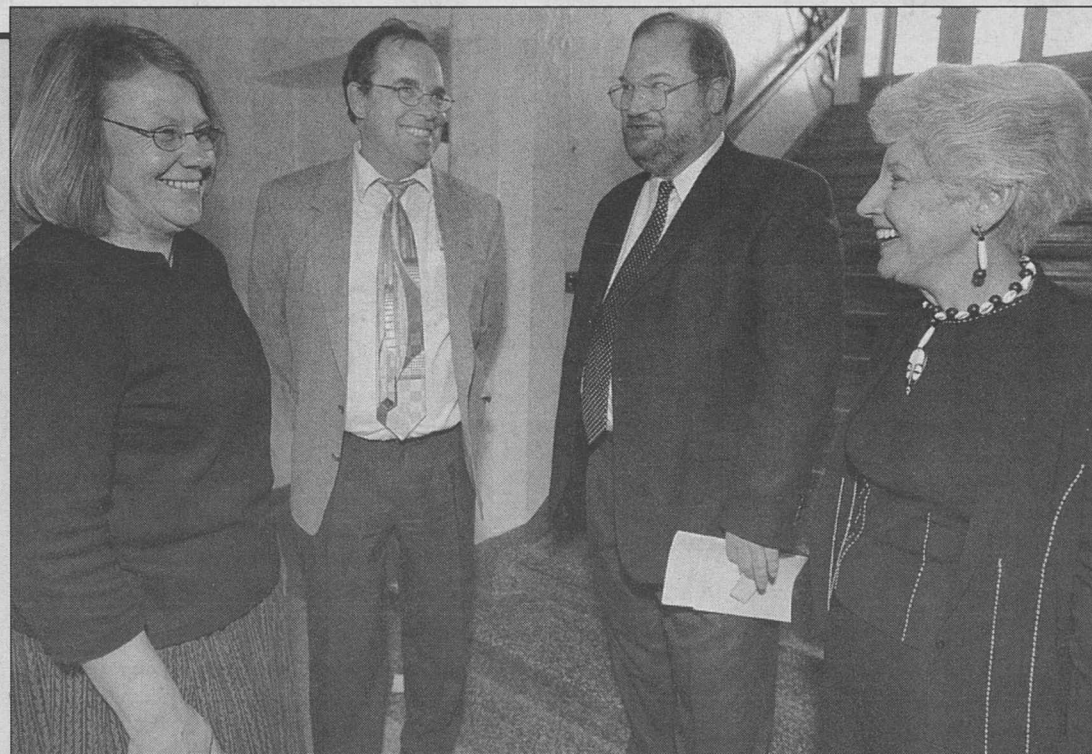
7:16 a.m. — A contractor working at Olin Library reported tools were stolen from his pickup truck, which had been parked in Millbrook Garage. The theft occurred between 6:45 a.m.-3:30 p.m. April 8. The driver's side camper-shell window was pried

open, and three toolboxes containing mechanic's tools and dry-wall tools were stolen.

### April 13

3:21 p.m. — A construction worker reported the theft of a machine drill from inside the company's unsecured gang box, which was in Olin Library. The drill was approximately 16 inches long and 6 inches wide. The theft occurred between 9:30 a.m.-3 p.m. Total loss is estimated at \$1,000.

University Police also responded to three reports of property damage, three reports of lost article, two auto accidents and one report each of arrest and drug offense.



MARY BUTTUS

**Excellence in mentoring** The Graduate Student Senate honored five faculty members with Outstanding Faculty Mentor Awards and another 31 faculty members with special recognition for excellence in mentoring during its fifth annual awards ceremony April 8 in the Women's Building Formal Lounge. The Outstanding Faculty Mentor award recipients for 2003-04 are (from left) Barbara A. Schaal, Ph.D., the Spencer T. Olin Professor of Biology in Arts & Sciences; Gary J. Miller, Ph.D., professor of political science in Arts & Sciences; Robert F. Dymek, Ph.D., professor of geology in the Department of Earth & Planetary Sciences in Arts & Sciences; Arlene R. Stiffman, Ph.D., the Barbara A. Bailey Professor in the George Warren Brown School of Social Work; and (not pictured) Larry May, Ph.D., professor of philosophy in Arts & Sciences. The awards are designed to recognize faculty members whose dedication to graduate students and commitment to excellence in graduate training have made a significant contribution to the quality of life and professional development of graduate students in Arts & Sciences.

## Kidneys

Potentially paying donors generates ethical debates — from Page 1

dialysis, the cost-effectiveness benefit increases by nearly \$175,000.

He admits that potentially paying donors generates strong ethical debates.

Some argue that living donations shouldn't be done in the first place because the donor has to endure a major operation that can result in serious complications and even death. But donors are heavily screened prior to surgery and have to be extremely healthy people.

Schnitzler said death from procedure complications is so rare it's hard to estimate the risk.

"There really is very little physical harm done to the donor, and there is great benefit to the recipient," he said.

"In balance, the benefit far outweighs the harm in donation."

He has stronger concerns about the potential exploitation of donors.

"Who is going to be more likely to walk up and say, 'I'll be a donor for \$90,000?'," he said. "Clearly, a poorer person is more likely to be induced to donate than a millionaire."

He also noted that if society decided to pay living kidney donors, it may become necessary to pay all donors — living and deceased — and to pay for

other organs as well.

"Does that change how much you can pay? Absolutely," he said. "It only changes the break-even point, though. It doesn't change the benefit."

Schnitzler said he personally hasn't made up his own mind about whether society should be paying for living kidney donors or whether there should even be living donors.

But he is sure that every day, people are dying while waiting for organs.

"Altruistic organ donors are true heroes, and nothing should diminish the quality of their wonderful acts," he said. "But for over 40 years, numerous attempts have been made to increase altruistic organ donation. We don't have enough, and we need to find a way to have more."

## Record

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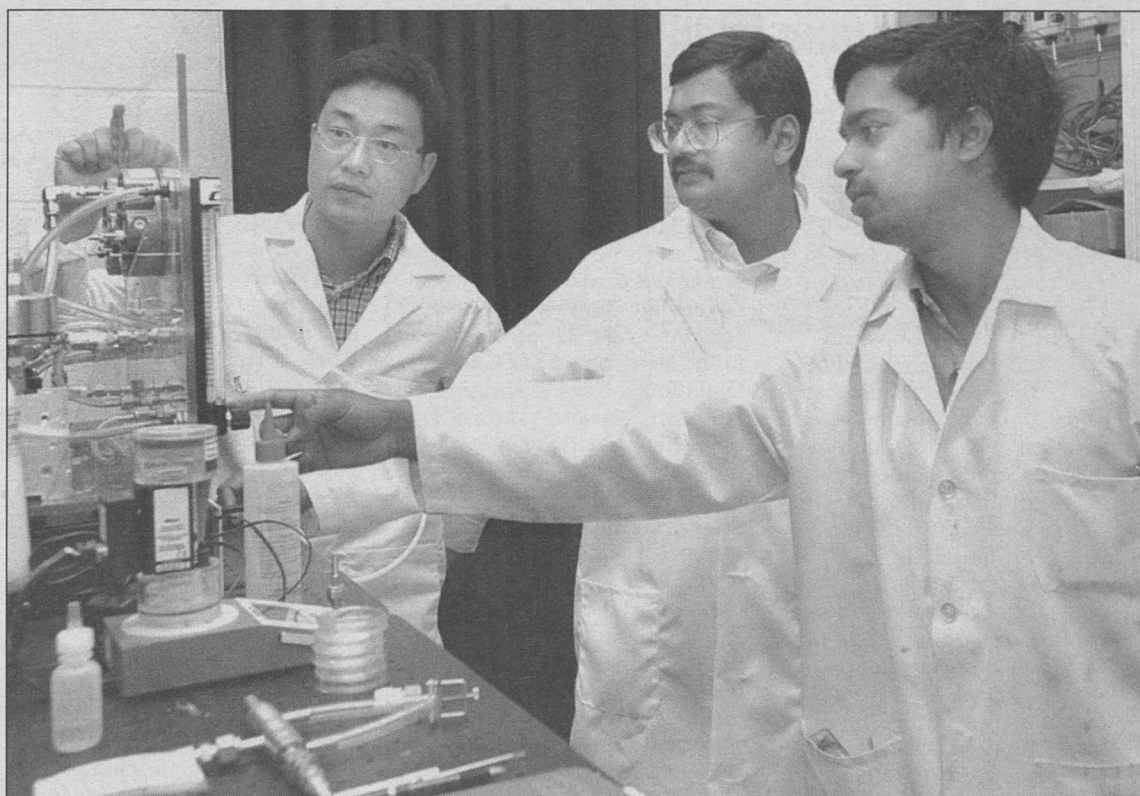
# Washington People

By TONY FITZPATRICK

**T**he saying "what goes around comes around" has a particular resonance for Pratim Biswas, Ph.D., the Stifel and Quinette Jens Professor of Environmental Engineering Science.

Twenty-three years ago, as a master's degree candidate at the University of California, Los Angeles, Biswas did a thesis on heat transfer, with an eye toward solar power, with one of the applications being solar-powered air conditioning units. At the time, solar power was a hot technology.

Biswas met a young undergraduate chemical engineering student there named Jay R. Turner. After a productive, though hectic, year at UCLA, Biswas went for a doctorate



Pratim Biswas, Ph.D. (center), postdoctoral fellow Myonghwa Lee, Ph.D. (left), and doctoral student Prakash Kumar work with equipment used to synthesize monodispersed, nanometer-sized magnetic oxides that will be used in biomedical and environmental remediation applications.

## Completing the loop

The research of Pratim Biswas' aerosols group has numerous applications

in mechanical engineering at California Institute of Technology.

From there, it went like this: Solar power lost its position in the limelight. Turner came to Washington University to get a doctorate under the direction of Milorad P. Dudukovic, Ph.D., now the Laura and William Jens Professor of Environmental Engineering and chair of the Department of Chemical Engineering.

Turner is now a professor of chemical engineering at the University.

Biswas left CalTech in 1985 for the University of Cincinnati, spending 15 years there and ultimately directing its environmental engineering program. In 2000, he was lured to Washington University to head the Environmental Engineering Science Program, reuniting him with Turner — their office doors are just steps apart.

Turner and Dudukovic are members of the program Biswas directs.

Along with environmental engineering colleagues Richard L. Axelbaum, Ph.D., associate professor of mechanical engineering, and Rudolf B. Husar, Ph.D., professor of mechanical engineering, Biswas helped lure Da-Ren Chen, Ph.D., here — he's now an assistant professor of mechanical engineering.

And thus, the largest aerosol program in the nation now resides at Washington University.

And, by the way, you might have noticed that solar power is back again.

Leaving Cincinnati was not an easy decision for Biswas and his wife, Sujata.

In 15 years, not only had he established professional roots and helped the program climb in the rankings, but also his family had made many friends and grown comfortable with the community. Their boys, Vivek and Vikram, then 8 and 6, were very reluctant to leave the only home they'd ever known.

"I just kept telling them that they would love St. Louis because it's similar to Cincinnati," Biswas said. "My boys didn't want to root for another baseball team."

"But I pointed out the Rams, who'd just won the Super Bowl, as well as the Cardinals. We've all adjusted and love living in St. Louis."

The boys are active in sports in the Little League and Parkway School District while their father oversees an ambitious program at the University. Biswas is one of a

core of six University aerosol researchers within the Environmental Engineering Science Program (which has 10 members, plus three research and affiliated faculty).

These researchers and teachers are mainstream aerosol researchers; they work on different aspects related to aerosol science and engineering.

This internationally recognized group of engineers studies the synthesis and environmental impact of nanoparticles. The scientists also study atmospheric pollution at the regional and global scales.

They are developing the next generation of instrumentation for detection of these particles, as well as several environmental nanotechnology applications.

While the word "aerosol" may imply to a layperson hair sprays or deodorants, in engineering science an aerosol is a gaseous suspension of fine solid or liquid particles. Such particles are often troublesome in the micrometer and nanometer range.

On the plus side, these particles are also finding novel applications in the electronics, pharmaceutical, materials and other industries.

At Cincinnati, Biswas began developing his international reputation by taking a two-pronged approach to aerosol science.

"I saw that in some of these combustion environments, found in cars, diesel engines and coal combustors, you have a process that forms these fine particles; and then by understanding that, we could design effective control strategies and prevent their release in the environment," he said.

"The other part was to engineer or synthesize materials for specific applications in environmental technology, such as for remediation applications, catalysts to clean up other polluted environments, and so forth. This opened our work to the nanotechnology sector that was just emerging."

"We began synthesizing ceramics and magnetic oxides, all with novel properties, and we were finding newer applications. This is our link to the materials side of aerosols."

Many aerosols form as a result of combustion, and they have health as well as aesthetic impacts — they get trapped in our lungs and they disturb our views of

scenic landscapes. Growing up in India (first in Poona, in western India, and later in Bombay), Biswas developed an early sensitivity to environmental concerns that was honed by his time in southern California.

"I had no idea that I would become an aerosol scientist while at UCLA," Biswas said. "But solar energy seemed to be waning and I'd always had an interest in energy and the environment, so I chose a Ph.D. project at CalTech that was related to particles being emitted from combustion systems. I designed a device to measure these particles in high-temperature environments."

Biswas considers his graduate-school years one of the best periods of his life. He learned a lot, met and worked with many influential people, and organized and played for intramural teams in soccer and basketball.

"We worked hard and played hard," said Biswas, who played basketball as an undergraduate at the world-renowned India Institute of Technology. He chose UCLA for graduate work because it offered a great fellowship as well as a basketball team that he had followed since he was a young boy.

Biswas holds four patents and is author of 110 refereed journal articles. One patent is for a technique that uses nanoparticle agglomerates, or clusters, to firmly bind and remove mercury from fossil fuel combustion exhausts.

Mercury is one of the metals that the U.S. Environmental Protection Agency (EPA) has stipulated must be controlled in combustion systems. Mercury that is released gets deposited in water and finds its way into fish and livestock.

It can remain airborne for more than a year and can be transported over thousands of miles before being deposited to the ground and water. Due to its high toxicity and long residence times in the environment, the EPA is planning to propose regulations for control of emissions of mercury from coal combustion systems.

Another patent is for a device that traps and deactivates microbial particles. The work is promising in the war on terrorism for deactivating airborne bioagents and bioweapons such as the smallpox virus, anthrax and ricin, and also in routine indoor air ventilation applications such as in buildings and aircraft cabins.

Biswas' device combines an electrical field with soft X-rays and smart catalysts to capture and destroy bioagents.

On the walls of the device, Biswas has coated nanoparticles

that catalyze the oxidation. These unique nanoparticles are "smart" objects that are turned "on" and "off" by irradiation.

Biswas and his collaborators have tested the device using non-potent polio virus and have achieved 99.9999 percent efficiency. He is collaborating with the Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research (MRCE) and with Largus Angenent, Ph.D., an environmental engineer and assistant professor of chemical engineering, to identify the mechanistic pathways of biomolecular degradation.

Biswas is quick to acknowledge the excellent quality of his graduate students as a factor in his success. He came to the University because of its reputation and the opportunity to build a top-notch aerosols group with critical mass in focused areas of environmental engineering.

"The School of Engineering & Applied Science is extremely grateful to have Pratim Biswas at the helm of our Environmental Engineering Science Program," said Dean Christopher I. Byrnes, Ph.D., the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics.

"For the past four years, Pratim has been a passionate researcher and an inspirational leader whose goal for his program is nothing less than to have it become a national and international powerhouse. It is a pleasure for faculty and staff to work with him. He is steadfast, respectful and energetic, and has a delightful sense of humor."

In just under four years, Biswas has added Angenent, Chen and Daniel Giammar, Ph.D., assistant professor of civil engineering, to the Environmental Engineering Science Program. Biswas proudly notes that the aerosol research group deals with particles "right from the source, from a car engine or flame, to their measurement, their capture, their collection and use for good applications, all the way to tracking them around the globe via satellites."

"What I think is amazing here at Washington University is that we have a group that completes that loop, from start to finish," he said. "The field is fascinating and enabling, with applications in health, pharmaceuticals, materials and electronics."

"The ability to make these particles in very controlled sizes, shapes and compositions in a single-step process that lets us study fundamental properties is key, because then companies can make the materials on a mass scale, and the possibilities for materials are virtually endless."

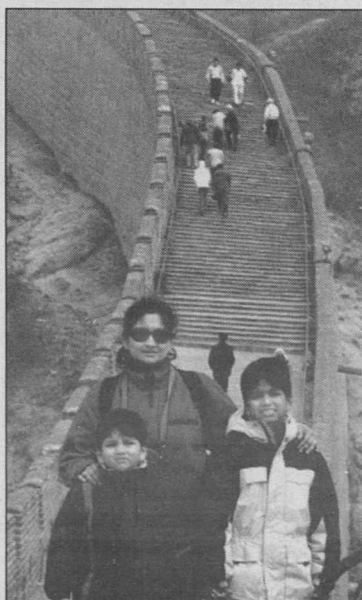
### Pratim Biswas

**University titles:** The Stifel and Quinette Jens Professor of Environmental Engineering Science; director, Environmental Engineering Science Program; principal investigator of the Washington University Aerosol and Air Quality Research Laboratory

**Education:** Bachelor's degree, mechanical engineering, Indian Institute of Technology, Bombay, 1980; master's degree, mechanical engineering, University of California, Los Angeles, 1981; doctorate, mechanical engineering, California Institute of Technology, 1985

**Family:** Wife, Sujata; sons, Vivek (11), Vikram (9)

**Hobbies:** Traveling with his family; reading; sports, including playing for and coaching a Washington University intramural champion wallyball team



Pratim Biswas' wife, Sujata, and sons, Vikram (left) and Vivek, at the Great Wall of China.