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## Washington University Record, February 13, 2004

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# Record

Feb. 13, 2004

Volume 28 No. 21

Treasuring the Past



Washington University in St. Louis

Shaping the Future

Celebrating 150 Years

## Research grant extended by NIH into 44th year

By MICHAEL C. PURDY

The longest continuously renewed NIH research grant at the School of Medicine has been renewed for five years and more than \$11 million.

With the renewal, "Cyclotron Produced Isotopes in Biology and Medicine" will be extended into its 44th year of supporting research into imaging techniques and agents at the medical school.

The historic grant supplied the funding that allowed physicist Michel Ter-Pogossian, Ph.D., professor of radiology, to lead the development of the first positron



Welch

was succeeded by Michael Welch, Ph.D., professor of radiology, of molecular biology and pharmacology and of chemistry.

For many years, the grant had been dedicated to imaging studies of the heart, lungs and brain. Its

emission tomography (PET) scanner at the School of Medicine in the 1970s.

Ter-Pogossian was the principal investigator on the grant until 1984, when he

current renewal focuses on imaging the heart.

The renewed grant supports three research programs: development of new imaging agents to study cardiac disease; use of PET imaging to study heart damage in animal models of diabetes; and application of the imaging agents in a clinical setting with diabetic patients.

The common theme in all three programs is developing a better understanding of how diabetes is linked to heart disease, according to Welch.

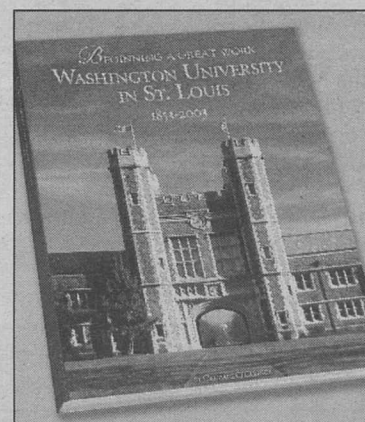
"Cardiovascular disease is the most frequent cause of death in

both type 1 and type 2 diabetes, and diabetics have a much higher incidence of hardening and narrowing of the arteries and of dysfunction in the pumping chambers of the heart," Welch said.

Evidence has shown that diabetics have abnormal accumulation of fatty substances known as lipids in the myocardium, or the heart muscle. Scientists think this buildup promotes the creation of chemically reactive nitrogen and oxygen compounds that damage heart tissue.

The program to develop new imaging agents, headed by Robert

See NIH, Page 6



Candace O'Connor's pictorial history of the University, *Beginning a Great Work: Washington University in St. Louis, 1853-2003*, will be available for purchase on William Greenleaf Eliot Day Feb. 23.

## Task force Contractor guidelines examined

Chancellor Mark S. Wrighton recently appointed a task force to recommend a policy, or set of principles, to guide the University in assuring that its contractors secure the welfare of their employees through competitive compensation and honorable workplaces.

The Task Force on Contractor Employees came about after Wrighton reviewed the current standards in place for the contracting of outside sources to provide ongoing services to the

### More inside

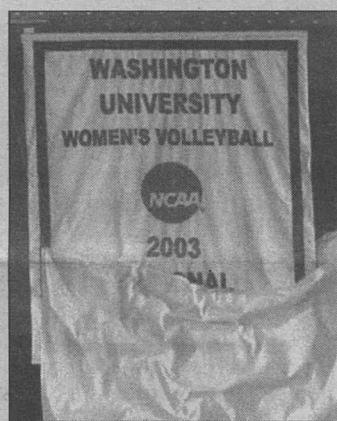
List of task force members. Page 6

Hilltop Campus community. "I am mindful of, and grateful for, the vital roles that all who work on the Hilltop Campus play in advancing the mission of Washington University," Wrighton wrote in announcing the formation of the task force. "Some who work here daily are employed by firms that the University has identified as possessing distinctive competencies in managing the delivery of certain important services to the students, faculty and others who use our facilities."

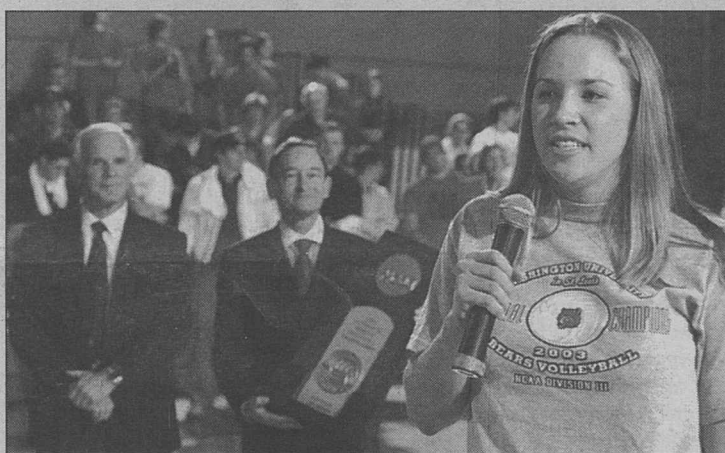
"I am also mindful of the concerns that have been voiced in the growing and healthy national debate about the welfare of those who work for firms that provide service by contract to other, often larger employers."

"My review of the arrangements Washington University currently has in place with firms to provide certain services on the Hilltop Campus suggests that the University only 'outsources' where the University is not itself positioned or staffed to manage the delivery of the needed services as well and as efficiently as a specialized contractor can; and where the contractors entrusted with work on our campus have demonstrated their commitment

See Task force, Page 6



**Here come the champs**  
The national champion Washington University volleyball team was honored at halftime of the Feb. 6 men's basketball game at the Field House. Above, a curtain drops to reveal the national championship banner. At top right, senior Katie Quinn addresses the crowd as Director of Athletics John Schaeel (left) and Chancellor Mark S. Wrighton look on. Wrighton is holding the national championship trophy, which he later presented to the team. At right, each member of the team was introduced and received a red rose.



## Olin Library has new look; construction winding down

By ANDY CLENDENNEN

Students and faculty returning to the Hilltop Campus after the winter break might have been a little confused when they tried to enter Olin Library.

That's because the entrance was moved on Dec. 29 from the east side of the building to its new, permanent

### More inside

Construction Update. Page 6

location on the south. Stack areas on all levels are complete, including Level 3, which reopened over the break, as did Level 1.

The only areas not yet finished are the Crossroads Café, the grand staircase and a reading room on the east side of the building (just inside where the east entrance used to be).

Once inside, visitors encounter an array of improvements through-

out the building, including a dramatic new look and arrangement of services on Level 1.

Several key services have been brought together in a single space, behind a curved "shared services desk" called the Help Center. This is the place to go to check out or return books, or to get help with reference questions, interlibrary loan or locating materials.

Comfortable seating and study tables can be found on all levels. The addition of small-group studies makes it convenient for people to work on projects together without disturbing those around them.

Level 1 also now houses many of Olin Library's most popular collections, including the Reference Collection, the PopLit Collection, newspapers and current journals. Some 36 public-access computers are along the west wall.

See Library, Page 6

## This Week In WUSTL History

### Feb. 13, 1854

Ten incorporators convened for their first meeting as the Board of Directors. William Greenleaf Eliot was voted president and Wayman Crow, vice president.

### Feb. 13, 1889

President George H.W. Bush visited campus and gave a speech at the Field House on volunteerism, his first visit to a university campus since taking office. His visit marked the first time a U.S. president visited the University while in office.

### Feb. 15, 1943

Wiley Blount Rutledge, former dean of the School of Law, took the U.S. Supreme Court's judicial oath. He served as an associate justice until Sept. 10, 1949.

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

## Eliot Day to honor University founder

By ANDY CLENDENNEN

Don't know much about William Greenleaf Eliot? No problem, because on Feb. 23 you will have a chance to learn about the man who co-founded the University.

Feb. 23 has been designated "William Greenleaf Eliot Day" and will feature two lectures on him, as well as a book release and signing of Candace O'Connor's pictorial history of the University, *Beginning a Great Work: Washington University in St. Louis, 1853-2003*.

The program will open at 4:30 p.m. in Holmes Lounge with welcoming remarks by Chancellor Mark S. Wrighton.

Jan Jacobi will then address "William Greenleaf Eliot: The Man Without Guile."

Jacobi is the head of the middle school at Mary Institute and Saint Louis Country Day School. In 1859, Eliot founded Mary Institute, the first girls' school west of the Appalachian Mountains. The school was named for his daughter, who died when she was 17.

After Jacobi's talk, O'Connor will speak on "William Greenleaf Eliot and Freedom's Memorial." O'Connor is an award-winning writer who has written widely for regional and national magazines and newspapers. She also is the founding editor of the Missouri Historical Society Press.

A portrait of Eliot by artist Gilbert C. Early will be unveiled in Holmes Lounge. The book-signing should begin around 5:30 p.m. You may attend the book-signing without attending

See Eliot, Page 6





# Village melds student academic & residential lives

By NEIL SCHOENHERR

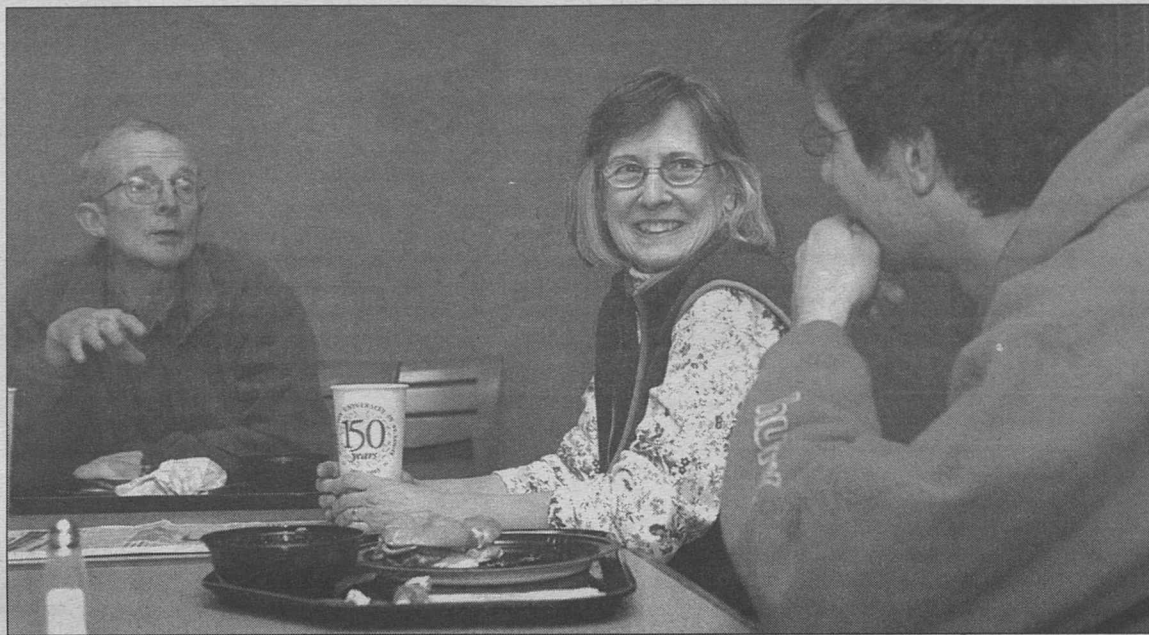
**T**he Village, now in its third year at the University, is thriving.

Formerly known as Small Group Housing, the Village offers students the unique perspective of living in interest groups of 4-24 members who share a common passion and strive to incorporate that into their everyday lives.

The original goals of the Village were to foster a seamless living and learning environment for students, and to complement the curriculum and in-class learning by allowing them to live in these interest groups.

Since the program's inception and students taking residence in the new facilities at the northwest corner of the Hilltop Campus, the concept has continued to grow and evolve.

"I think the Village is a very attractive and functional addition to the Washington University campus," said James W. Davis, Ph.D., professor of political science in Arts & Sciences and faculty associate at the Village. "Combining in one residential develop-



(From left) James W. Davis, Ph.D., professor of political science in Arts & Sciences and faculty associate at the Village, and his wife, Jean, chat with sophomore Ethan Ardi recently during Davis' regular dinner with students. In addition to the dinners, Davis has worked to create several "Meet the Professor" events at the Village, during which faculty members eat dinner with students and talk about campus life.

ment living quarters, flexible dining areas, a number of classrooms and lots of activity spaces — including a small theater, computer

labs and practice spaces — the Village clearly enriches the housing options available to undergraduates."

## Environmental Studies curriculum revised

By TONY FITZPATRICK

**T**he Program in Environmental Studies in Arts & Sciences has extensively revised its curriculum, marking the first detailed overhaul since the major was created more than 10 years ago.

According to Jonathan Losos, Ph.D., professor of biology in Arts & Sciences and director of Environmental Studies, the revision was undertaken in response to student recommendations and a recent increase — by more than 33 percent — in program faculty.

"We've added considerable new expertise to the program with these new faculty," Losos said. "The two goals of this revision are to enhance the education students receive about the environment and issues confronting

it, and to provide maximal flexibility so that the options available to undergraduate majors are as diverse as the ways in which the environment can be studied."

The first key change is the establishment of a set of required introductory courses that students from both the social-science and natural-science tracks must take.

Now students will take four introductory courses, two from the social sciences and two from the natural sciences, making the major more cohesive, Losos said. Two of the introductory courses are new. "Earth and the Environment" replaces "Evolution of the Earth" and is specifically tailored to the needs of Environmental Studies students.

"Introduction to Environ-

mental Sciences: Biology" is a new course designed to introduce students to the study of organisms in their environments.

The curriculum now provides more flexibility in the natural-sciences track.

There are three tracks, one focused on earth science aspects of the environment, one on biological aspects of environmental science, and a more general track that combines the two areas.

Students now also have the option of developing their own tracks. Examples of such tracks might include: global climate change, energy policy and the environment, animal behavior, paleobiology and zooarchaeology.

Environmental Studies is one See **Curriculum**, Page 7

In the fall semester, there were 320 students living in the Village, 75 of which were clustered in eight different interest groups. Those groups ranged from a book club to cultural cooking to Cast n' Crew, a theater group.

"Although many students come into the Village through the usual housing-selection process, the Village is intended to be an obvious housing option for

members of student groups," Davis said. "We have the facilities for meetings and other activities, and we have the resources to support many of their programs."

Cheryl Stephens, director of the Village, is optimistic that in time, the Village will become even more of a part of campus culture.

"There are a lot of great things happening here," Stephens said. "We have a fantastic lunch service available in our cafeteria, great lounges for students to study or have meetings, and we have several new programs starting."

Among those programs is a "Meet the Professor" event during which a faculty member talks about his or her academic interests, answers questions and eats dinner with students. Organized by Davis, Stephens said the program is "a wonderful way for students to connect with professors and get to know them on a level that may not be possible in the classroom setting."

Of course, the ability for students to live in specialized interest groups is still a big part of the draw of the Village.

"What really makes living in the Village valuable for me is the fact that I live with a group of people with a common theme, but yet am exposed to so much diversity both internal and external to the group through our members and the other groups that make

See **Village**, Page 6

## Aria-9 has successful trip

By TONY FITZPATRICK

**A**n estimated 1,000 students from 28 K-12 schools worldwide participated in the University's Aria-9 program, in which student experiment packages are tested on NASA space flights.

The Aria-9 was the latest of the University's "fly-and-compare" K-12 experiment packages, according to Keith Bennett, adjunct assistant professor of computer science and engineering and Aria project director. Schools from Missouri, Illinois, Washington, D.C., New Jersey, Montana and Queensland, Australia, were involved.

Project Aria is a University outreach program designed to allow K-12 students to participate in space and space-related projects.

The Aria-9 carried 126 experiments on the TIGER high-altitude balloon payload that flew over Antarctica from Dec. 16-Jan. 5, Bennett said.

These student experiments, at an altitude of more than 130,000 feet, were exposed to near-space conditions for two weeks. This allowed students to explore the impact of high-altitude, extreme thermal conditions, space radiation, and solar/ultraviolet effects on everyday materials.

TIGER stands for Trans-Iron Galactic Element Recorder. The TIGER Antarctic mission is a Washington University/NASA project designed to measure galactic cosmic rays (GCRs).

The mission consisted of the TIGER GCR instrument attached to a large, high-altitude balloon. This balloon carried TIGER for 20 days above Antarctica at altitudes from 100,000 feet to 130,000 feet.

TIGER was flown twice before, once in New Mexico in 1997 and in Antarctica in 2001. The 2001 flight set a record for high-altitude balloons, lasting more than 31 days.

"TIGER was commanded down on Jan. 5 after one-and-a-half circles of the pole," Bennett said of the most recent flight. "It was a very successful flight, and the payload is on the ice now, awaiting recovery. The Aria-9 program is very grateful for all

the support of the TIGER team."

Bennett initiated Project Aria and continues to oversee it. The initiative has allowed K-12 students to send experiments aboard a space shuttle and participate in remote exploration programs.

Previous projects include the Aria-1, Aria-2, Aria-3 and Aria-4 space shuttle packages. Arias 5-8 are awaiting future shuttle flights.

The first Aria flight went up on a space shuttle in fall 2001. It involved strictly St. Louis K-12 students.

Since then, the program has become international and involves hundreds more students than the first. In the earlier Arias, Bennett and University undergraduates assisted local students in the building of equipment to carry their experiments.

"The program has grown, and the types of experiments have varied with each different flight," Bennett said. "It's gratifying to see so many students get an early exposure to hands-on science."

All Aria-9 experiments were student-selected "fly-and-compare" experiments. Each experiment consisted of three small identical samples stored in small, 50-milliliter polycarbonate vials.

One sample was kept at home to serve as a control sample. The second sample was placed on the ground outside the Antarctic McMurdo base. The final sample was placed in the Aria-9 flight experiment package and flown with the TIGER instrument.

Students will compare the flight and Antarctic ground samples to the control samples.

Students, under the guidance of their teachers, selected a wide range of materials to fly. These included everyday materials such as ink, film and rubber, to complex chemical materials such as dissolved copper sulfate or potassium chromate crystals.

One school, Ogdensburg Public School of Ogdensburg, N.J., flew a set of fluorescent mineral samples. This experiment is a replacement for one lost in the space shuttle *Columbia* tragedy.

For more information, contact Keith Bennett (935-6648; bennett@wustl.edu) or go online to [aria.seas.wustl.edu/Aria9](http://aria.seas.wustl.edu/Aria9).

## PICTURING OUR PAST



The transition from high-school student to college student can be a difficult one for some, and over the years the University has implemented many programs and initiatives to help first-year students feel at home. One was the freshman camp (above, 1954), which brought together enrolled students before their first semester began in order to give them a taste of what college life would be like. Today, potential students get a feel for the University through April Welcome, a program run by the Office of Undergraduate Admissions. Last year, more than 1,000 high-school seniors visited the University. The seniors take part in activities both on- and off-campus during their visits. They room with a current student in a residence hall, sit in on classes, talk with faculty, attend meetings and social activities sponsored by numerous student organizations and sample the area's entertainment and cultural attractions. Many schools and departments offer special information sessions and tours of their facilities.

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

# Arthritis drug may cause adverse side effects

BY MICHAEL C. PURDY

Researchers at the School of Medicine and the Veterans Affairs (VA) Medical Center have analyzed a national database of VA patients to investigate the effects of the rheumatoid arthritis drug leflunomide in the first years after its approval.

The study reveals that high doses of leflunomide may cause adverse side effects that lead some patients to stop taking the drug.

The Food and Drug Administration (FDA) approved the use of leflunomide for rheumatoid arthritis in October 1998 and recommended starting treatment with high doses to rapidly trigger the drug's benefits.

But the findings, which appear in a recent issue of the journal *Arthritis Care & Research*, may prompt physicians to consider slightly modifying the standard leflunomide treatment regimen.

"Our data suggest that by starting on a lower dose initially, patients tolerate the drug better," said Seth A. Eisen, M.D., professor of medicine and of psychiatry and a VA staff physician. "The disadvantage is that it may take a little bit longer for patients to improve clinically; the advantage is that patients may be more likely to continue treatment."

Eisen and Chuck Siva, M.D., a

rheumatology fellow, were principal investigators of the study, which was conducted in collaboration with several other VA medical centers across the country.

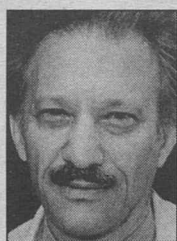
Rheumatoid arthritis, one of the most crippling forms of arthritis, afflicts about 2 million Americans with joint pain and inflammation. It is a chronic condition linked to immune system malfunctions. Leflunomide is one of about a dozen drugs available for treatment.

In addition to suggesting an alternative approach to initial treatment, the new findings also help put to rest lingering concerns about whether leflunomide's toxicity was adequately assessed in phase III FDA clinical trials that ended in 1998.

"As far as we could tell, there were no surprises in terms of toxicity," Eisen said. "Sometimes it takes a lot more patients than the 3,300 we studied to pick up rare adverse outcomes, but I think our findings are reassuring to the larger community of patients and clinicians."

Eisen emphasized that because the study is a review of already existent data, no control and intervention groups could be established and assessment of side effects could not be standardized.

"In a subset of the patients for whom the medication was discontinued, we examined their medical records in an attempt to deter-



Eisen

# Quality of life in early breast cancer studied

BY JIM DRYDEN

St. Louis Cancer Center researchers have received a five-year, \$1.5 million grant from the National Cancer Institute and the Breast Cancer Stamp Fund to study quality of life in women who are diagnosed with very early breast cancer, which is now diagnosed more frequently as screening mammograms are more widely used.

This form of breast cancer, called ductal carcinoma *in situ* (DCIS), is what physicians refer to as Stage 0 breast cancer. In DCIS, the cancer is confined to the breast's milk ducts, and at that early stage, a lump rarely can be felt.

At more advanced stages of the disease, the cancer will spread outside of ducts into nearby breast tissues and sometimes into lymph nodes or other parts of the body. Women with Stage I, II, III and IV cancers are said to have invasive breast cancer rather than DCIS.

"Between 25 and 30 percent of all new cases of breast cancer detected by mammograms are DCIS," said principal investigator Donna B. Jeffe, Ph.D., research assistant professor of medicine in the Division of Health Behavior Research. "Women diagnosed with DCIS have an excellent prognosis, but we know very little about their quality of life."

Jeffe will study women with DCIS, with invasive breast cancer at stage I or II and women whose screening mammograms indicate they don't have cancer. She'll compare quality of life in the three groups at one month, six months, one year and two years following their screening mammograms.

"This will be one of only a few studies focusing on quality of life

"Women diagnosed with DCIS have an excellent prognosis, but we know very little about their quality of life."

DONNA B. JEFFE

in women with DCIS and the first, to our knowledge, to compare quality of life in DCIS and invasive breast cancer patients to that of women without a history of breast cancer," Jeffe said.

Jeffe has assembled a multidisciplinary research team with experience in psychology, epidemiology, biostatistics and medicine to learn about how quality of life in these women changes over time and differs between women with DCIS, early-stage breast cancer and no breast cancer. The researchers also will identify the demographic, clinical and psychosocial factors that influence quality of life in these groups of women.

Jeffe and her colleagues seek women 40 and older who've had recent screening mammograms with DCIS or early stage invasive breast cancer or with negative (benign) findings.

Women who have a history of breast cancer or DCIS are excluded. The study involves four telephone interviews over the course of two years, and participants will be compensated for their time.

Women in the study will be asked a variety of questions about their physical and emotional health, body image, pain and other medical and demographic information.

For more information about the study, call 286-1902 or 286-1914.

"Our data suggest that by starting on a lower dose initially, patients tolerate the drug better. The disadvantage is that it may take a little bit longer for patients to improve clinically; the advantage is that patients may be more likely to continue treatment."

SETH A. EISEN

mine the reason the medication was stopped," Eisen said. "We were particularly looking for evidence of severe toxicity and did not find any. But still, it's a matter of trying to interpret clinical notes."

Although researchers were aware of the disadvantages of this type of study, there also are a number of potential advantages. Only relatively small investments of money and time were required, and the patient population at the VA offered a chance to study portions of the general population

that typically do not enroll in clinical trials.

Eisen explained that clinical trials often enroll more women and younger patients from higher socioeconomic groups. The sex bias is particularly prevalent in clinical trials for treatments for rheumatological diseases, which afflict women more often than men.

"VA medical data complements information obtained from other sources because VA patients are predominantly male and older and include a higher proportion of

African-Americans and individuals from lower socio-economic groups than general studies do," Eisen said.

Eisen suggested that researchers should consider conducting studies like this on other drugs already approved for clinical use.

"Post-approval follow-up is very important because it may demonstrate problems, sometimes decades later, that weren't appreciated," Eisen said, citing the example of premarin, a treatment for post-menopausal symptoms. Risks recently linked to the drug were identified several decades after it was approved for clinical use.

"Because post-approval studies tend to require large numbers of people in order to evaluate the less-common adverse outcomes, they are typically very, very expensive to do," Eisen said. "Studying large databases like the VA's is relatively inexpensive, and it is very feasible to collect and analyze important information."



**Celebrating history** Medical student Justin Connor admires *Influence 150: 150 Years of Shaping a City, a Nation, the World*. The exhibit chronicles key figures, events and discoveries in the life of the University, as well as their roles on the larger historical stage. The exhibit has moved from the Gallery of Art to the Bernard Becker Medical Library and will be on display through May.

# Pediatricians form research network

BY DIANE DUKE WILLIAMS

When children visit their pediatricians with everyday problems such as acute diarrhea and ear infections, the treatments can vary greatly from doctor to doctor and from office to office.

To identify the most effective treatments for some of these problems, a group of local pediatricians has joined forces with School of Medicine physicians to form a practice-based pediatric research network.

"We want to identify tests and treatments that are most beneficial to patients when they see their pediatricians and nurse practitioners," said Jane Garbutt, M.B., Ch.B., program director of the Washington University Pediatric and Adolescent Ambulatory Research Consortium. "We want to measure the effects of treatments on symptom resolution, recurrence rates and patient satisfaction because those things aren't always measured in a randomized, controlled trial."

Garbutt, who also is a research

assistant professor of medicine, said the consortium is a grassroots organization that's had a groundswell of support since its inception in 2002. The network's goal was to recruit pediatricians from 20 local practices; it now has 66 pediatricians from 33 practices.

"It's not feasible to have a research assistant in every office," Garbutt said. "It's much more efficient if we can enroll a few patients from lots of different practices so we can share the burden of conducting research. This approach also makes our findings more generalizable."

Funding from the Agency of Healthcare Research and Quality, St. Louis Children's Hospital Foundation and Children's medical staff has enabled the consortium to recruit members, conduct two studies, establish a listserve and do some faculty development.

One study is measuring the prevalence of antibiotic resistant streptococcus pneumonia — the bacteria most often associated

with acute ear infections and acute sinusitis — in children with an acute upper respiratory illness.

The other study is determining how children with acute diarrhea are cared for in the community. Acute diarrhea, Garbutt said, is the fourth-most-common reason children go to Children's Hospital Pediatric Emergency Department.

James Keating, M.D., the W. McKim O. Marriott Professor of Pediatrics, is the consortium's faculty liaison director, and Elliot Gellman, M.D., professor of pediatrics, serves as the membership liaison director.

The network would like to study treatment for pinkeye, the use of antidepressants in teenagers and treatment of obesity in the near future but must secure funding for each study.

Garbutt is confident that the network will continue to enhance the care provided to children in their pediatricians' offices.

"Patients generally are very enthusiastic — they like to see that their doctor is cutting edge," she said.



# University Events

## George Piper Dances: Classical ballet meets Monty Python

Classical ballet goes cutting-edge with the maverick talents of Britain's George Piper Dances, aka Ballet Boyz, which will make its St. Louis debut later this month at Edison Theatre.

The performances here — at 8 p.m. Feb. 20-21 and at 2 p.m. Feb. 22 — are part of the Boyz's first-ever U.S. tour and are sponsored by Dance St. Louis and the Edison Theatre OVATIONS! Series.

Described by *The Daily Telegraph* as "Britain's most off-the-wall ballet dancers," company founders Michael Nunn and William Trevitt were among a group of male dancers who left London's Royal Ballet in 1999 to work in Japan with Tetsuyo Kumakawa and his "K Ballet."

Their adventures, illusions and disillusion were the basis for a series of film diaries shown on Britain's Channel 4, which captivated the public's attention by demystifying the lives of classical dancers. They quickly became known throughout the United Kingdom as the Ballet Boyz.

Nunn and Trevitt launched George Piper Dances in January 2001, taking the company's name



Britain's George Piper Dances — the Ballet Boyz — will make its St. Louis debut Feb. 20-22 at the University. The performances are sponsored by Dance St. Louis and the Edison Theatre OVATIONS! Series.

from their respective middle names. The troupe took London by storm, combining commis-

sioned works with pieces by some of today's most influential choreographers.

In 2003, they received the Theatrical Managers' Association award for "Outstanding Achievement in Dance."

The program will begin with *Steptext* (1985) by William Forsythe, the New York-born director of Ballet Frankfurt. Laura Shapiro of the *New York Metro* describes *Steptext* as a piece of broken lines and angles "set to a somewhat deranged version of a Bach violin solo with occasional lonely squawks breaking moments of silence."

*Mesmerics* (2003) — by Christopher Wheeldon, resident choreographer of the New York City Ballet — is a sequence of sensual duets for the full company of five dancers. The piece is based on the rising and falling movements of waves and is set to a kaleidoscope of string quartet music by Philip Glass.

The final work on the program, *Torsion*, is a duet created for Nunn and Trevitt by British choreographer Russell Maliphant. The work is a virtuoso exploration of the tensions and twists of meanings in a male partnership, filled with curving inter-twinnings, locking holds and breathtaking lifts. *Torsion* is set to

an electronic score by Richard English.

Nunn, a native of London, joined the Royal Ballet in 1987 and was promoted to first soloist in 1997. Trevitt, born in Cambridge, also joined the Royal Ballet in 1987 and became a principal dancer in 1994.

Their fellow dancers are an international trio from prestigious classical ballet companies. Hubert Essakow, from Johannesburg, South Africa, is another former soloist with the Royal Ballet.

Monica Zamora, a native of Spain, is a former principal dancer with Birmingham Royal Ballet. Oxana Panchenko of Kiev, Ukraine, is a former soloist with English National Ballet and has performed solo and principal roles with Munich Ballet and City Ballet of London.

Tickets are \$28 for adults; \$23 for students, seniors and WUSTL faculty and staff; and \$14 for WUSTL students. Tickets are available at the Edison Theatre Box Office, 935-6543; the Dance St. Louis Box Office, 534-6622; and all MetroTix outlets.

For more information, call 935-6543.

## Blood Drive • Food for Thought • Music From the 1980s

"University Events" lists a portion of the activities taking place at Washington University Feb. 13-26. 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 18, 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, Feb. 13

**Noon. Cell Biology & Physiology Seminar.** "Lipid Metabolism, the Liver, and Blood Vessels: Unexpected Partnerships in the Vascular Dysfunction of Diabetes." Clay F. Semenkovich, prof. of cell biology & physiology. McDonnell Medical Sciences Bldg., Rm. 426. 362-3964.

**12:30-4:30 p.m. St. Louis STD/HIV Prevention Training Center CME Course.** "STD Laboratory Methods." (Also Feb. 20 & 27.) Cost: \$75. U. of Mo.-St. Louis, S. Computer Bldg., Rm. 200A. To register: 747-1522.

**7 p.m. Gallery of Art Friday Forum Series.** "Recalling 1980s New York." Sabine Eckmann, curator, Gallery of Art., and Paul Ha, dir., Contemporary Art Museum St. Louis. (6:30 p.m. reception.) Cost: \$10, \$5 for students. Gallery of Art. 935-4523.

#### Saturday, Feb. 14

**7:30 a.m.-2 p.m. WUSTL School of Medicine Renal Division CME Course.** "Kidney Disease Management for the Primary Care Physician." Cost: \$125 for physicians, \$95 for allied health professionals. Collinsville, Ill., Holiday Inn. To register: 362-6891.

#### Monday, Feb. 16

**8:30 a.m.-4:30 p.m. Center for the Application of Engineering Technology Workshop.** "IT as a Service Organization." (Continues 8:30 a.m.-4:30 p.m. Feb. 17.) Cost: \$1,195, reduced fees for CAIT member organizations available. CAIT, 5 N. Jackson Ave. To register: 935-4444.

**Noon. Molecular Biology & Pharmacology Seminar.** "Molecular Pathogenesis of West Nile Virus Infection." Michael S. Diamond, asst. prof. of molecular microbiology and of pathology & immunology. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**Noon. Work, Families, & Public Policy Brown Bag Lecture Series.** "Racial Differences in the Decision Choice Models of the Hospital Assignment Process." Donald Nichols, prof. of economics. Eliot Hall, Rm. 300. 935-4918.

**3 p.m. Assembly Series.** Sam Fox Arts Center Lecture. "The Science of Optics; The History of Art." Charles Falco, prof. of optical sciences and chair of condensed matter physics, U. of Ariz. Co-sponsored by the schools of Architecture, Art, and Engineering & Applied Science. Steinberg Hall Aud. 935-4620.

**4 p.m. Immunology Research Seminar Series.** "Visualizing the Activation of CD4 T Cells in the Body." Mark K. Jenkins, prof. of immunology and microbiology, U. of Minn. Eric P. Newman Education Center. 362-2763.

#### Tuesday, Feb. 17

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Molecular Mechanisms of Resistance and Tolerance to Antifungal Drugs in *Candida albicans*." Dominique Sanglard, group leader, Inst. of Microbiology, U. Hospital, Lausanne, Switzerland. Cori Aud., 4565 McKinley Ave. 362-2742.

**4 p.m. Chemistry Seminar.** "Surfaces in the Environment: Characterization and Reactivity Studies." D. Howard Fairbrother, asst. prof. of chemistry, Johns Hopkins U. McMillen Lab., Rm. 311. 935-6530.

#### Wednesday, Feb. 18

**Noon. Department of History Celebration of the History of Freedom.** Bill Kirby, Edith and Benjamin Geisinger Professor in History & dean of faculty of arts and sciences, Harvard University. Umrath Hall Lounge. To register: 935-6820.

**4 p.m. School of Law Access to Justice Speaker Series.** "A Conversation With Judge Edwards." Harry T. Edwards, chief judge emeritus and circuit judge of the U.S. Court of Appeals for the D.C. Circuit. Anheuser-Busch Hall. 935-4958.

#### Thursday, Feb. 19

**Noon. Genetics Seminar Series.** Alan Shiels, assoc. prof. of ophthalmology & visual sciences. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**1:10 p.m. George Warren Brown School of Social Work Spring Lecture Series.** "How Wealth Perpetuates Racial Inequalities." Thomas Shapiro, Pokross Professor of Law and Social Policy, Brandeis U. Brown Hall Lounge. 935-5694.

**4 p.m. Chemistry Seminar.** "Recent Advances in Indole Natural Product Synthesis." David Horne, assoc. prof. of chemistry, Ore. State U. McMillen Lab., Rm. 311. 935-6530.

**4 p.m. Ophthalmology & Visual Sciences Seminars.** "Math and Brain: An Essential Regulatory Pathway of Retinal Neurogenesis." Lin Gan, Center for Aging & Developmental Biology, asst. prof. of neurobiology & anatomy and of ophthalmology, U. of Rochester. Maternity Bldg., Rm. 725. 362-1006.

**4 p.m. Physics Seminar.** "Localization in Lattice QCD." Maarten Golterman, prof. of physics, San Francisco State U. (3:45 p.m. coffee.) Compton Hall, Rm. 241. 935-6276.

**4:15 p.m. Earth & Planetary Sciences Colloquium.** "Methane Greenhouses and Anti-Greenhouses During the Precambrian Era." James F. Kasting, visiting prof. of geosciences, Calif. Inst. of Tech. McDonnell Hall, Rm. 362. 935-5610.

#### Friday, Feb. 20

**9:15 a.m. Pediatric Grand Rounds.** "Everest as Metaphor." Tom Hornbein, prof. emeritus of anesthesiology and of physiology & biophysics, U. of Wash.

Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar.** "Platelet and Osteoclast Beta 3 Integrins are Critical for Bone Metastasis." Katherine Weibaecker, asst. prof. of medicine and of cell biology & physiology. McDonnell Medical Sciences Bldg., Rm. 426. 362-3964.

#### Saturday, Feb. 21

**1-5 p.m. Joint Center for East Asian Studies Symposium.** "Language and Identity in Japan and China." Galal Walker, prof. of east Asian languages & literatures, Ohio State U., and Patricia Wetzel, prof. of Japanese, Portland State U. Women's Bldg. Formal Lounge. 935-4448.

#### Monday, Feb. 23

**Noon. Molecular Biology & Pharmacology Seminar.** "Transcription Factors That Regulate Rice Tungro Virus, a Pararetrovirus, and Strategies to Limit Replication in Vascular Tissues." Roger N. Beachy, prof. of biology, Donald Danforth Plant Science Center, South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**4 p.m. Immunology Research Seminar Series.** "Recognition and Effector Functions of Human NK Cell Subsets." Marco Colonna, prof. of pathology & immunology. Eric P. Newman Education Center. 362-2763.

**6 p.m. Architecture Monday Night Lecture Series.** "Image, Space and Materiality." Fumihiko Maki, architect, Tokyo. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

#### Tuesday, Feb. 24

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Specialized Secretion Pathways in Gram-Positive Pathogens." Michael Caparon, prof. of molecular microbiology. Cori Aud., 4565 McKinley Ave. 352-8873.

**Noon. Physical Therapy Research Seminar.** "Identification and Classification of Musculoskeletal Pain in Pregnancy." Clayton Skaggs, assoc. prof. of research, Logan U. College of Chiropractic. 4444 Forest Park Blvd., Rm. B108/B109. 286-1404.

#### Wednesday, Feb. 25

**8:15 a.m. Obstetrics & Gynecology Grand Rounds.** "Overview of Sleep and Sleep Disorders." Stephen Duntley, asst. prof. of neurology and dir. of sleep lab. Clopton Aud., 4950 Children's Place. 362-1016.

**11 a.m. Assembly Series.** WU Honoraries and Thomas C. Hennings Lecture. "Our Environmental Destiny." Robert F. Kennedy Jr., prof. of environmental law, Pace U. Graham Chapel. 935-4285.

**4 p.m. Biochemistry & Molecular Biophysics Seminar.** "Solution Studies of Large-scale Conformational Changes in the Mechanism of Formation of an Open Promoter Complex by *E. coli* RNA

## Falco to discuss the science of optics Feb. 16

By BARBARA REA

Charles Falco, Ph.D., a physicist at the University of Arizona, contends that the great master painters of earlier centuries used optical aids to help them paint.

In his Assembly Series presentation, "The Science of Optics; The History of Art," he will detail his findings about this controversial theory. The lecture will begin at 3 p.m. Feb. 16 in Steinberg Hall Auditorium.

If Falco's theory is true, then artists were using optical aids centuries earlier than previously thought possible. This would account for the remarkable transformation in the reality of portraits produced in the 15th century.

He got the idea from reading artist David Hockney's article in *The New Yorker*. Falco and Hockney began collaborating, studying hundreds of paintings

and applying Falco's scientific knowledge to the question.

The answer, contends Falco, is that painters of the stature of van Eyck, Caravaggio, Velazquez and Vermeer used precursors of photographic cameras centuries before the invention of chemical processes to develop film in 1839.

Studying the question of optical aids and master artists of the Renaissance is only an avocation for Falco, who holds the chair of condensed matter physics and also serves as a professor of optical sciences at the University of Arizona.

Since earning a doctorate in 1974, his research and scholarship have covered metallic superlattices, X-ray optics, magnetism, magneto-optics, superconductivity, and nucleation and epitaxy of thin films.

Falco also is a fellow of the American Physical Society and is

### Art of the motorcycle talk Feb. 16

Another subject that marries Falco's interests in art and engineering is the motorcycle.

Because of his expertise in the subject, the Guggenheim Museum in New York tapped Falco as co-curator for its "The Art of the Motorcycle" exhibition in 1998. It was the most popular exhibition in the museum's history.

Falco will give a presentation on the art of the motorcycle at 7 p.m. Feb. 16 in Graham Chapel. The talk is free and open to the public.

a member of the Optical Society of America and the International Society for Optical Engineering.

Assembly Series talks are free and open to the public. For more information, call 935-4620 or go online to [wupa.wustl.edu/assembly](http://wupa.wustl.edu/assembly).



Falco



## Author Helie Lee to read Feb. 23-24

**H**elie Lee, author of the national best-selling memoirs *Still Life With Rice* (1996) and *In the Absence of Sun* (2002), will host a pair of events Feb. 23-24 for The SmartSet Series: Where Great Writers Read, sponsored by The Center for the Humanities in Arts & Sciences.

At 8 p.m. Feb. 23, Lee will read from her work in Anheuser-Busch Hall, Room 204. And at 4 p.m. Feb. 24, she will lead a seminar and audience discussion on the craft of writing in McMillan Café, Room 115 of McMillan Hall.

Lee's work explores the history of her family amidst the turbulent circumstances of 20th-century Korea. *Still Life With Rice* recounts the story of Lee's grandmother, Hongyong Baek, brought up to become a wife, bear children, keep a house and care for a husband chosen by arrangement.

The dramatic tale unfolds across World War II, when the family fled the Japanese invasion, and the Korean War, when the family split up and fought to escape the communist North.

These stories bring Lee to a fuller sense of her own identity and help her to better understand the historical and cultural realities that shaped her mother and grandmother.

*In the Absence of Sun* revisits similar themes, chronicling Lee's efforts to reunite Hongyong with her son, who had been forced to stay in North Korea, where he remained after the war.

Lee faces great difficulty in attempting to reach the son in the acutely isolated society of North Korea, yet her eventual success helps Lee achieve a measure of self-understanding as a Korean. She learns, in some way, what it cost her grandmother to be one, yet also why her grandmother takes such pride in that heritage.

*Booklist* described *Still Life With Rice* as "written with great

narrative power and attention to detail, a testament to the will to survive."

Lisa See, author of *On Gold Mountain*, said *In the Absence of Sun* "reads like a thriller. Helie Lee has shown incredible personal bravery in both taking responsibility for the cost her previous book took on her family left behind in North Korea, and then in what she did to help get them out."

Lee was born in Seoul before moving with her family to Canada and later Southern California, where she earned a degree from the University of California, Los Angeles, and continues to make her home.

In addition to her books, she worked on television's *In Living Color*, *Saved by the Bell* and *The Martin Lawrence Show*.

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

For more information, call 935-5576.

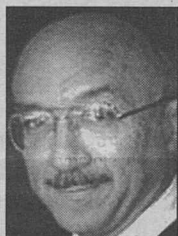


Lee

## Edwards to deliver Williams lecture Feb. 18

By JESSICA MARTIN

**H**arry T. Edwards, chief judge emeritus and judge of the U.S. Court of Appeals for the District of Columbia Circuit, will deliver the School of Law's 2004 Tyrrell Williams Lecture. "A Conversation With Judge Edwards" will



Edwards

begin at 4 p.m. Feb. 18 in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall. Edwards is expected to discuss judicial collegiality, interdisciplinary studies, social-science models of judicial decision-making, harmless error doctrine, legal education and the legal profes-

sion. He will also answer questions from the audience throughout the lecture.

The lecture is part of the law school's Public Interest Law Speakers Series on "Access to Justice: The Social Responsibility of Lawyers." Williams was a law school alumnus and a faculty member from 1913-1946.

Edwards has served on the U.S. Court of Appeals for the District of Columbia Circuit since 1980. Before his appointment, he was a law professor at the University of Michigan and Harvard University and practiced law in Chicago.

He also is past chairman of the board of directors of AMTRAK and of the National Institute for Dispute Resolution.

Edwards has co-authored four books: *Labor Relations Law in the Public Sector*, *The Lawyer as a*

*Negotiator*, *Collective Bargaining and Labor Arbitration* and *Higher Education and the Law*. He has also published numerous law review articles on labor law, higher education law, federal courts, legal education, professionalism and judicial administration.

Among his many accolades, Edwards has won the Society of American Law Teachers Award for distinguished contributions to teaching and public service; the Whitney North Seymour Medal from the American Arbitration Association for outstanding contributions to the use of arbitration; and the Judicial Honoree Award, presented by the Bar Association of the District of Columbia for outstanding legal leadership.

For more information, call 935-4630.

## Music

### Thursday, Feb. 19

8 p.m. **Jazz at Holmes.** Dead Cat Bounce. Ridgely Hall, Holmes Lounge. 935-4841.

### Friday, Feb. 20

7 p.m. **Gallery of Art Concert.** "Music From the 1980s." Co-presented by the Dept. of Music. Gallery of Art. 935-4523.

### Sunday, Feb. 22

3 p.m. **Concert.** Washington University Symphony Orchestra. Dan Presgrave, dir. Graham Chapel. 935-4841.

## On Stage

### Saturday, Feb. 14

8 p.m. **Me, Vashya/The Glass Menagerie.** (Also 2 p.m. Feb. 15.) Cost: \$12, \$8 for seniors, WUSTL faculty, staff and students. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

8 p.m. **V-Day Presentation.** *The Vagina Monologues.* Cost: \$10, \$8 for seniors, students, WUSTL faculty and staff. Graham Chapel. 935-6543.

### Monday, Feb. 23

5 p.m. **African & Afro-American Studies Presentation.** *God's Image Carved In Ebony: Amanda Berry Smith, Singing Pilgrim.* The Village, Black Box Theater. 935-8556.

## Sports

### Friday, Feb. 20

6 p.m. **Women's Basketball Vs. Brandeis U.** Athletic Complex. 935-4705.

Polymerase." M. Thomas Record Jr., prof. of biochemistry, U. of Wisc. Cori Aud. 4565 McKinley Ave. 362-0261.

4 p.m. **Physics Colloquium.** "Mesoscopic Mechanics." Miles Blencowe, prof. of physics & astronomy, Dartmouth College. (3:30 p.m. coffee, Compton Hall, Rm. 245.) Crow Hall, Rm. 204. 935-6276.

6 p.m. **Architecture Monday Night Lecture Series.** Annual Fumihiko Maki Lecture, "Roof House to Steel Snake." Taka and Yui Tezuka, architects, Tezuka Architects, Tokyo. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

### Thursday, Feb. 26

7:30 a.m.-5:30 p.m. **Surgery CME Course.** "Refresher Course and Update in General Surgery." L. Michael Brunt, assoc. prof. of surgery, course director. (Continues 7:30 a.m.-9:30 p.m. Feb. 27.) Cost: \$480 for physicians, \$395 for allied health professionals. To register: 362-6891.

Noon. **Genetics Seminar Series.** Daniel Barbash, div. of biomedical sciences, U. of Calif., Davis. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

12:10-12:50 p.m. **Wellness Connection Event.** "Meal Planning." Connie Diekman, registered nutritionist. Mallinckrodt Student Center, Lambert Lounge. 935-5990.

2 p.m. **Assembly Series.** Environmental Initiative Colloquium panel discussion. "Plant Sciences: The Environment and Sustainability." Lab Sciences Bldg., Rm. 300. 935-5285.

3 p.m. **School of Law "Access to Justice" Speaker Series.** "After Brown: Surprising Legacies of the Civil Rights Landmark." Martha L. Minow, William Henry Bloomberg Professor of Law, Harvard U. Anheuser-Busch Hall. 935-4958.

4 p.m. **Chemistry Lecture.** "Recent Advances in Studies of Membrane Associated Proteins by Solid State NMR: Structures, Dynamics, and Ligand Binding." Ann McDermott, prof. of chemistry, Columbia U. McMillan Lab., Rm. 311. 935-6530.

## Sports

### Men's hoops knocks off No. 1 Rochester

The men's basketball team had a huge weekend and are now right in the thick of the University Athletic Association race.

On Feb. 8, the men defeated the University of Rochester, 69-64, at the Field House. The Yellowjackets came into the game ranked No. 1 in the country, but strong bench play helped the Bears win. Junior Rob Keller scored a team-high 13 points, as did sophomore Mike Grunst, who added five blocks. The Bears' bench held a 36-19 scoring advantage over Rochester.

Two days earlier, the Bears defeated Carnegie Mellon University, 98-88, at the Field House behind 23 points apiece from backcourt mates Barry Bryant and Scott Stone. All five starters scored in double-figures. The Bears are 15-5 overall and 7-2 in the UAA, just one game back of Rochester.

### Sports shorts

The No. 10 **women's basketball** team won two games and, more importantly, clawed its way back into first place in the UAA.

The Bears earned part of a four-way tie for first in the conference with a 72-66 win over No. 4 Rochester Feb. 8 at the Field House. Senior Lesley Hawley sparked the Bears to the win with a career-high 27 points. Junior Hallie Hutchens finished with 20 points and 10 rebounds.

Washington U. positioned itself for that Feb. 8 showdown with an 80-40 win against Carnegie Mellon two days earlier. A balanced attack that featured four players in double figures proved to be too much for the Tartans. Freshman Sarah Schell netted 11 points on 5-of-5 shooting from the field and four steals in just 12 minutes of play. Sophomore Kelly Manning finished with a game-high 17 points and Hawley added 13.

The **track and field** teams competed at the Illinois Wesleyan University Titan Open last weekend in Bloomington, Ill. The women placed fourth out of 12 teams, while the men took fifth out of 14 teams.

On the men's side, seniors Ryker Jones and Conrad Warmbold tied for first in the pole vault, recording a UAA-best vault of 4.73 meters

### On the Web

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

(15'-6 1/4"). The mark provisionally qualified both competitors for the NCAA Championships.

Senior Kammie Holt led the women with a conference-best 5.26 meters (17'-3 1/4") mark in the long jump. Classmate Sarah Springer continued her dominance in the pole vault, notching a vault of 3.05 meters to take first place.

The **men's tennis** team opened the season with a 6-1 loss to Division II Southwest Baptist University Feb. 7 at the Sport Vetta Hampshire Tennis Club. SBU captured the doubles points by winning the No. 1 and 2 doubles slots. Tim Fisher and Chris Kuppler teamed up to win No. 3 doubles, 8-4. In singles, Southwest Baptist won five of six matches. Eric Borden produced the lone win for the Bears at No. 6 singles as he posted a 6-2, 6-0 win over John Paden.

**Assistant football coach Pedro Arruza** was recently selected as the 2003 American Football Coaches Association Division III Assistant coach of the Year, as announced by the AFCA. A native of West Palm Beach, Fla., Arruza is in his fifth year at the University while serving as the defensive coordinator for the past three seasons.

Arruza also serves as the defensive backs coach and the strength and conditioning coordinator. During his five years, the Bears have posted a 34-17 overall record, won four UAA championships and made their first appearance in school history in the NCAA playoffs in 1999.

The Assistant Coach of the Year award was first presented in 1997 and was created to honor assistant coaches who excel in community service, commitment to the student-athlete, on-field coaching success and professional organization involvement.

Winners of the Assistant Coach of the Year award received a plaque to commemorate the award and an educational stipend to the 2004 AFCA Convention or any other professional development clinic/convention of their choice.

They were honored at the AFCA Kickoff Luncheon Jan. 5 at the 2004 AFCA Convention in Orlando, Fla.

## Poet McClatchy to talk Feb. 19

**P**oet and essayist J.D. McClatchy will read from his work at 8 p.m. Feb. 19 for The Writing Program Reading Series.

The talk — sponsored by The Writing Program and the Department of English, both in Arts & Sciences — will take place in Hurst Lounge, Duncker Hall, Room 201.

McClatchy has authored five poetry collections, including *Hazmat* (2002) and *Ten Commandments* (1998). He has written two books of essays, *Twenty Questions* (1998) and *White Paper* (1989).

In addition to serving as chancellor of the Academy of American Poets from 1996-2003, McClatchy has received a Wynner Bitter Award for Poetry from the American Academy of Arts and Letters and fellowships from the Guggenheim Foundation and the National Endowment for

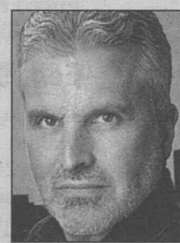
the Arts.

Carl Phillips, professor of English, noted that *Hazmat* "is a stirring, provocative example of the quiet, undeniable authority that is possible when risk and eloquence come together in the right hands."

"McClatchy is among our foremost men of letters — not only a masterful poet, but a persuasive critic, a discerning translator and anthologist, and the composer of several critically acclaimed libretti," Phillips added. "It's an honor, indeed, to have him here to read for us at Washington University."

McClatchy lives in Stonington, Conn., and edits *The Yale Review*. His reading is free and open to the public. A book-signing and reception will follow, and copies of his works will be available for purchase.

For more information, call 935-7130.



McClatchy

## And more...

### Tuesday, Feb. 17

5:15-8:30 p.m. **Food for Thought: Taste of the Town.** Tour of St. Louis restaurants. Cost: \$10. Buses leave from Mallinckrodt Student Center. Open to the WUSTL community. Registration required. 935-5066.

### Monday, Feb. 23

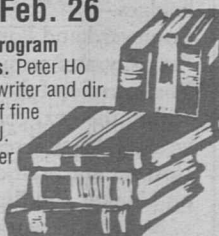
11:30 a.m.-4:30 p.m. **Blood Drive.** Co-sponsored by Alpha Phi Omega, Circle K and human resources. (Also 11:30 a.m.-4:30 p.m. Feb. 24, Mallinckrodt Student Center, The Gargoyle; and 5-10 p.m. Feb. 25 & 26, Wohl Student Center, Friedman Lounge.) Mallinckrodt Student Center, The Gargoyle. 291-4741.

### Tuesday, Feb. 24

8:15 a.m.-10:30 p.m. **Center for the Application of Information Technology & Trends Briefing.** "IT Trends 2004." Merv Adrian, sr. research fellow, Forrester Research. Eric P. Newman Center. To register: 935-4444.

### Thursday, Feb. 26

8 p.m. **Writing Program Reading Series.** Peter Ho Davies, fiction writer and dir. of the master of fine arts program, U. of Mich. Duncker Hall, Rm. 201, Hurst Lounge. 935-7130.





## Task force

To be chaired by  
**Ann B. Prenatt**

— from Page 1

to providing the most competitive wages and benefits to their employees in a workplace that is respectful and welcoming.

"But my review also suggests that while our contracting procedures are very much directed to these ends, they are not formalized and available to all for review and comment."

Ann B. Prenatt, vice chancellor for human resources, is chairing the task force, which will provide its recommendations to Wrighton by July 1.

"Our goal should be nothing less than a campus where all who work here do so with pride and with confidence that they have been well and fairly rewarded," Wrighton said.

### Task Force on Contractor Employees

Ann B. Prenatt, chair. Other task force members are: Justin X. Carroll, assistant vice chancellor for students and dean of students; Michael J. Dunlap, controller, accounting services; Kenneth B. Edwards, senior student in the School of Engineering & Applied Science;

Michael M. Greenfield, J.D., the Walter D. Coles Professor of Law; Steven P. Hoffner, assistant vice chancellor for students and director of operations; Alan S. Kuebler, executive director for resource management; Judi McLean Parks, Ph.D., the Reuben C. and Anne Carpenter Taylor Professor of Organizational Behavior in the Olin School of Business;

Sergio Salmeron, senior student in Arts & Sciences; Joseph J. Sklansky, associate general counsel; and Ralph H. Thaman Jr., associate vice chancellor for facilities planning and management.

## Village

— from Page 2

up the Village," said junior Rich Hillesheim, president of the Village Student Assembly.

"It's just a great balance of everything that college living has to offer, and I honestly think it has more potential than any other residential option here on campus."

Justin X. Carroll, assistant vice chancellor for students and dean of students, thinks the Village offers a very exciting living alternative.

"Participation in one of the small groups affords students an opportunity to work closely with faculty and administrators, learn about current events and international cultures, provide service to the community and participate

in the performing arts," Carroll said.

Carroll and Stephens both realize that while not everyone who lives in the Village will choose to be a member of an interest group, they do want to continue focusing on the groups as the theme of the Village.

"We want to have quality groups that allow students to gain valuable leadership experience and provide them an opportunity to put on programs and be involved in something they are interested in," Stephens said. "That benefits the students and also the entire University community."

The Village is accepting group applications for next academic year. For more information, including the student-group application process, go online to [village.wustl.edu](http://village.wustl.edu).

## Eliot

— from Page 1

the program.

The pictorial history book will be available for purchase at the event.

Until the end of February, the book will cost \$39.95. Beginning March 1, it will cost \$44.95. It will be available at the Campus Store on the Hilltop Campus and

at the Medical Bookstore.

The book may also be ordered at the Campus Store Web site, [www.wustl.bkstr.com](http://www.wustl.bkstr.com).

In 1853, Eliot and Wayman Crow co-founded the school and named it Eliot Seminary. In 1854, Eliot became its first president.

In 1870, Eliot became acting chancellor and was officially named the University's third chancellor in 1872. He held both positions until his death in 1887.

## Campus Watch

The following incidents were reported to University Police **Feb. 4-10**. 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](http://police.wustl.edu).

### Feb. 5

7:58 a.m. — Between this time and 9:52 a.m., four reports came in about cars being broken into in the Snow Way Garage. Three cars had the stereos, CD players or other items taken. It was unknown if anything was missing from the fourth car.

3:33 p.m. — A student reported the theft of his in-line skates from the Village. The in-line skates were in a hockey bag at the bottom of a stairwell. There was no sign of forced entry. The theft occurred between 11:30 p.m. Jan. 28 and 8:30 p.m. Feb. 4. Total loss is estimated at \$200.

### Feb. 6

3:27 p.m. — A faculty member reported that between 6 p.m. Feb. 5 and 3 p.m. Feb. 6, an unknown person entered his

Blewett Hall office and took a money pouch from an unlocked desk. There were no signs of forced entry. Total loss was \$112.50 cash and a \$10 check.

### Feb. 9

11:54 p.m. — A caller reported that an African-American male in his 20s, of medium height and stocky build, wearing a black "puffy" coat and black pants, had been loitering in the vicinity of Koenig Residence Hall for several minutes. Upon further contact, the caller advised that the unknown male had been making motions simulating masturbation.

*University Police also responded to four auto accidents and one report each of tampering, larceny, disturbance, harassment, property damage and assault.*



**WUSTL Bears or polar bears?** Members of University Police braved temperatures in the 20s and participated in a "Polar Bear Plunge" Feb. 7 as part of a statewide fund-raiser for the Special Olympics. Jumping in Lake Saint Louis with 152 other Region 1 (St. Louis-area) law-enforcement members were (from left) dispatcher Nancy Harding, patrolman Don Moore and patrolman Ray Schmidt. Statewide law-enforcement agencies adopted the Special Olympics years ago, and this year the goal is to raise \$1 million. The 155 people who jumped Feb. 7 raised about \$27,000.

## NIH

Third program directed  
by Robert Gropler

— from Page 1

Mach, Ph.D., professor of radiology, will work to develop agents that bind specifically to two compounds suspected of playing a role in the lipid buildup. They hope to adapt antidiabetic drugs already known to bind to the two target compounds for this purpose.

Researchers supported by this first program will also work to

develop imaging agents that can help scientists follow the processes that damage heart tissue at the molecular level.

Welch leads the second program, which will use mice and rats to test both the imaging agents developed by Mach's group and potential diabetes therapies.

"Because we're looking at animal models, we're going to be able to evaluate the impact that genetic changes have on cardiac metabolism and other tissues, and how those effects interact with the new therapeutic agents," Welch said.

The third program, directed by

Robert Gropler, M.D., professor of radiology and of medicine, will use imaging agents developed by the other two programs to assess the abilities of experimental diabetes therapies designed to control heart damage by decreasing lipid buildup in the heart.

Welch noted that when he first came to the University in 1967 as an assistant professor, he was paid from the grant.

"It's a remarkable thing to contemplate, having spent nearly 40 years and a good part of your career being supported by a single grant, but this has been a remarkably successful grant," Welch said.

## Library

Materials being moved  
to permanent locations

— from Page 1

for doing research, surfing the Web or e-mailing.

Finishing work continues in some interior spaces as well as on the exterior of the building and the plaza in front of the new entrance.

The plaza brings a new

emphasis to the library and serves as a focal point on the Hilltop Campus. This area will be a key crossroads and gathering space; retaining walls along the new walks will provide casual seating.

During the finishing work, Olin Library will be open its regularly scheduled hours, just as it has been throughout the renovation.

Now that all stack areas have reopened, books and other items in the collections are in the process of being moved to their

permanent locations; this will take several weeks.

Certain materials may not be immediately available; in particular, DVDs and items from the "hold" shelf may be temporarily unavailable. However, library staff members will retrieve requested materials as quickly as possible.

All remaining work on the library is scheduled for completion by May. A rededication ceremony at 3:30 p.m. May 7 will be followed by an open house and tours of the facility.

## Construction Update

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

### Earth and Planetary Sciences Building

The masonry work continues with the granite and limestone facade. The roofing is complete. Partition framing continues on all levels, and dry-wall and painting are progressing well.

Mechanical, electrical and plumbing contractors continue to work from the lower level up to the attic-level floor, from south to north. Work will continue to focus on completing the finishes and flooring in the building.

Terrazzo flooring work has started. Placement of the lab casework is nearing completion.

### MetroLink expansion

Work will begin on installing two temporary bridges — at Skinker Boulevard and Forest Park Parkway, and at Big Bend Boulevard and the parkway — within the next couple of weeks. This will result in lane closures and traffic restrictions on Skinker and Big Bend.

When this work starts, left

turns will no longer be permitted at the Skinker-Forest Park Parkway intersection. They are already prohibited at Big Bend.

Persons traveling south on Skinker should proceed to Brookings Drive to enter the Hilltop Campus. Those wishing to go north on Skinker also should use Brookings Drive to access Skinker.

In January, Tarlton Corp. completed foundation work for new signal houses from Forest Park Parkway to Kingsland Avenue. Conduit installation progressed.

Also in January, shoring installation at several locations, tunnel excavation, and excavation for the Forsyth Station continued.

Pile-driving has begun for retaining-wall construction east of DeBaliviere Avenue. Skinker Station foundation work has continued.

This month, conduit installation and catenary-pole foundation construction will continue. Permanent retaining wall construction will continue east of DeBaliviere Avenue.

Skinker Station foundation work and mainline barrier wall

construction will continue. McCarthy Construction will continue shoring installation and tunnel excavation at several locations.

Information kiosks are available in the St. Louis area and will be rotating to various sites showing how MetroLink will connect the area. A kiosk will be in Mallinckrodt Student Center until Feb. 22.

Last year these kiosks appeared at more than 40 different locations over an 11-month period.

### Phase IIB Housing

The foundation walls are complete. Erection of structural steel at the first floor is complete. Floor decking is complete. Roof trusses are nearing completion. Mechanical work has started on the first floor.

### Phase II Garage

The retaining wall on the north side of the site is complete. The footings and columns are complete. The asphalt paving for the first-floor parking is complete and open. The second floor will be open Feb. 27.



## Notables

### Of note

**Peter Raven**, Ph.D., the Engelmann Professor of Botany and director of the Missouri Botanical Garden, will receive the Royal Horticultural Society's Veitch Memorial Medal for 2004 in July. The award is given to those who have made an outstanding contribution to the advancement and improvement of horticulture, the garden said. Raven is the only American among the six award-winners this year. Raven was chosen for his contributions to botany and plant conservation and for his work at the garden. The Royal Horticultural Society is a horticultural organization and a gardening charity in the United Kingdom. ...

**Rohit Pappu**, Ph.D., assistant professor of biomedical engineering, has received a two-year, \$150,000 grant from the March of Dimes Foundation and a 10-month, \$40,000 grant from the Washington University Alzheimer's Disease Research Center to study the molecular basis of polyglutamine disorders. ...

**Rudolf Husar**, Ph.D., professor of mechanical and aerospace engineering, has received a one-year, \$100,000 grant from Northeast States for Coordinated Air Use Management for research titled "Fast Aerosol Sensing Tools for Natural Event Tracking." ...

**Buck Rogers**, Ph.D., assistant professor of radiation oncology, has received a two-year, \$322,875 grant from the U.S. Army Medical Research and Material Command for research titled "Enhanced Peptide of Prostate Cancer Using Targeted Adenoviral Vectors." ...

**James Galvin**, M.D., assistant professor of neurology, has received a three-year, \$240,000 grant from the Alzheimer's Association for research titled "Exploring Psychosocial Determinants of Intention to Screen for Memory Loss" and a one-year, \$45,850 grant from the Longer

Life Foundation for research titled "The Key Features Inventory: Early Diagnosis of Dementia to Improve Quality of Life." ...

**John Constantino**, M.D., assistant professor of psychiatry, has received a two-year, \$246,940 grant from the Department of Health and Human Services for research titled "Autism Spectrum Disorders and Other Developmental Disabilities." ...

**Robert H. Mach**, Ph.D., professor of radiology, has received a two-year, \$459,000 grant from the National Institute of Biomedical Imaging and Bioengineering for research titled "PET Radiotracers for Imaging Apoptosis." ...

**Douglas Berg**, Ph.D., Alumni Professor of Molecular Microbiology, has received a two-year, \$153,000 grant from the National Institute of Allergy and Infectious Diseases for research titled "Genetics of Polyphosphate Metabolism in *H. pylori*." ...

**Renee Cunningham-Williams**, Ph.D., research assistant professor of social work in psychiatry, has received a two-year, \$307,200 grant from the National Institute on Drug Abuse for research titled "Validity and Measurement Issues in Pathological Gambling." ...

**William F. Stenson**, M.D., professor of medicine, has received a one-year, \$137,500 grant from the Eli and Edythe L. Broad Foundation for research titled "Indoleamine 2,3-dioxygenase in Inflammatory Bowel Disease." ...

**Michael Harris**, M.D., research instructor in pediatrics, has received a one-year, \$39,145 grant from the Nemours Children's Clinic for research titled "A Developmental Approach to Improving Adaptation of Adolescents with Diabetes: A Randomized Controlled Study of Peer Involvement." ...

**Theresa L. Deshield**, Ph.D., assistant professor of medicine, has received a one-year, \$15,000 grant from the Susan G. Komen Breast Cancer Foundation for research titled "H.U.G.S. (Help Us Give Support)." ...

**Jeffrey I. Gordon**, M.D., the Dr. Robert J. Glaser Distinguished University Professor and head of molecular biology and pharmacology, has received a one-year, \$5,000 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for the "4th International Conference on Systems Biology."

### Speaking of

**Eric Mumford**, associate professor of architecture, recently lectured on "Urban Design Education and Urban Renewal in Philadelphia and Boston, 1951-1965" at the Princeton University School of Architecture conference "Architecture and Public Policy." Mumford also recently spoke on "Sert, CIAM and the Harvard Urban Design Program" at the "Josep Lluís Sert: the Architect of Urban Design" conference at the Harvard Graduate School of Design. ...

**Paula Lupkin**, assistant professor of architecture, recently presented a paper on "Spatial Negotiations: Bourgeois Morality at the Department Store and the YMCA" as part of the conference, "Distinction and Identity: Bourgeois Culture in 19th Century America," sponsored by the Warren Center for Studies in American History at Harvard University. ...

**Ronald P. Loui**, Ph.D., associate professor of computer science, was the invited speaker for the Spanish National Artificial Intelligence Conference Nov. 11-15 in San Sebastian, Spain, where he gave the talk "A New Architecture for Negotiating Agents Based on Pessimism and Punishment."

### In print

**Jane Wolff**, assistant professor of architecture, published excerpts from the *Delta Primer*, her forthcoming book on the Sacramento-

San Joaquin River Delta in northern California, in the fall 2003 issue of *Zyzzyva*, a literary magazine featuring west-coast writers and artists. ...

**Christopher D. Gill**, Ph.D., assistant professor of computer science and engineering, received an award for the best paper in the software track at December's Hawaii International Conference on System Sciences. His winning paper was titled "A Generative Programming Framework for Adaptive Middleware."

### Obituary

**James H. Senger**, who taught graduate-level environmental management courses in the School of Engineering & Applied Science, died Wednesday, Feb. 4, 2004, of complications from a seizure while vacationing in Captiva, Fla. He was 77 and lived in Frontenac, Mo.



**Security technology** Robert Pless, Ph.D. (seated), assistant professor of computer science and engineering, conducts a real-time demo of his video surveillance system at the Annual Review of the Center for Security Technologies (CST) Jan. 26 in Lopata Hall. Pless is assistant CST director. The video camera is developing models of what typical motion is in a scene so that it can detect abnormal events or actions. The CST, founded two years ago, has 50 interdisciplinary University faculty working on a wide range of security technologies. In just the first five months of 2003, CST licensed two technologies, filed several patents and launched a startup company. Viewing the demonstration are (from left): Jody O'Sullivan, Ph.D., professor of electrical and systems engineering and associate CST director; Richard C.D. "Dick" Fleming, president and chief executive of the St. Louis Regional Chamber and Growth Association; Dan O'Sullivan, president of Brick Network in St. Louis and a 1988 alumnus; and Paul Heirendt of TradeHarbor Inc. of St. Louis.

## Curriculum

**Losos: The 'major will continue to be revised'**

— from Page 2

of the most popular Arts & Sciences majors, with close to 100 students. It is an interdisciplinary major covering a wide variety of different fields, as reflected by faculty who represent 11 different departments, including chemical engineering.

Environmental Studies students are able to fulfill more than one cluster. By choosing particular sets of courses, and perhaps taking an additional course, students can fulfill the Natural Sciences and Social Sciences

clusters.

Losos said that this curriculum is in effect for all students beginning with this year's freshmen. Students who are currently sophomores or above may choose to fulfill the requirements of either the old or the new curriculum.

"The Environmental Studies major will continue to be revised in the near future with the addition of more classes, particularly those for incoming students, and for capstone experiences," Losos said.

"We're continually trying to maintain a rigorous major that takes advantage of the diverse resources of Washington University and is flexible in recognizing the many different ways that one can study the environment."

## Campus Authors

Hugh Chaplin, M.D., professor emeritus of medicine and of pathology

### Lenabell

(Xlibris Corp., 2003)

From age 6, Lenabell McClelland Bell, daughter of African-American sharecroppers, experienced weeks of excruciating pain in her arms, legs, back and chest. These episodes recurred every few months, often requiring hospitalization and making steady employment impossible.

At age 20, her pain crises were diagnosed as sickle cell disease, from which she would almost surely die before age 40. She became Hugh Chaplin's patient at age 38 — impoverished, addicted to opiates needed for pain and facing impending death.

Chaplin, M.D., a specialist in hematology and now professor

emeritus of medicine and of pathology, invited her to become an experimental subject in an effort to discover ways to make sickle-cell crises less frequent and less severe. For 45 years, she played a pioneering role in studies published in major scientific journals.

*Lenabell* tells of experimental failures as well as near-miraculous successes. She survived to age 83.

Chaplin wrote the book to honor Bell and to educate people about this devastating hereditary disease that is common among African-Americans.

It affects one in every 400 African-American infants. More than 2.5 million African-Americans have the sickle cell

trait, and children of parents who both have the trait have a one-in-four chance of having the disease.

This affectionate memoir describes Bell's life from childhood to old age and the enduring friendship that flourished between her and her physician. She invited Chaplin to visit her world — to see where she grew up and to meet her friends and relatives. She also shared her views on music, art, race, religion and death.

"Lenabell and I both believed we could do a great service in educating people, especially African-Americans, about the disease," Chaplin said. "She was extremely disciplined and courageous. She also was a person of uncommon virtue."

— Diane Duke Williams

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**Washington University in St. Louis**



## Washington People

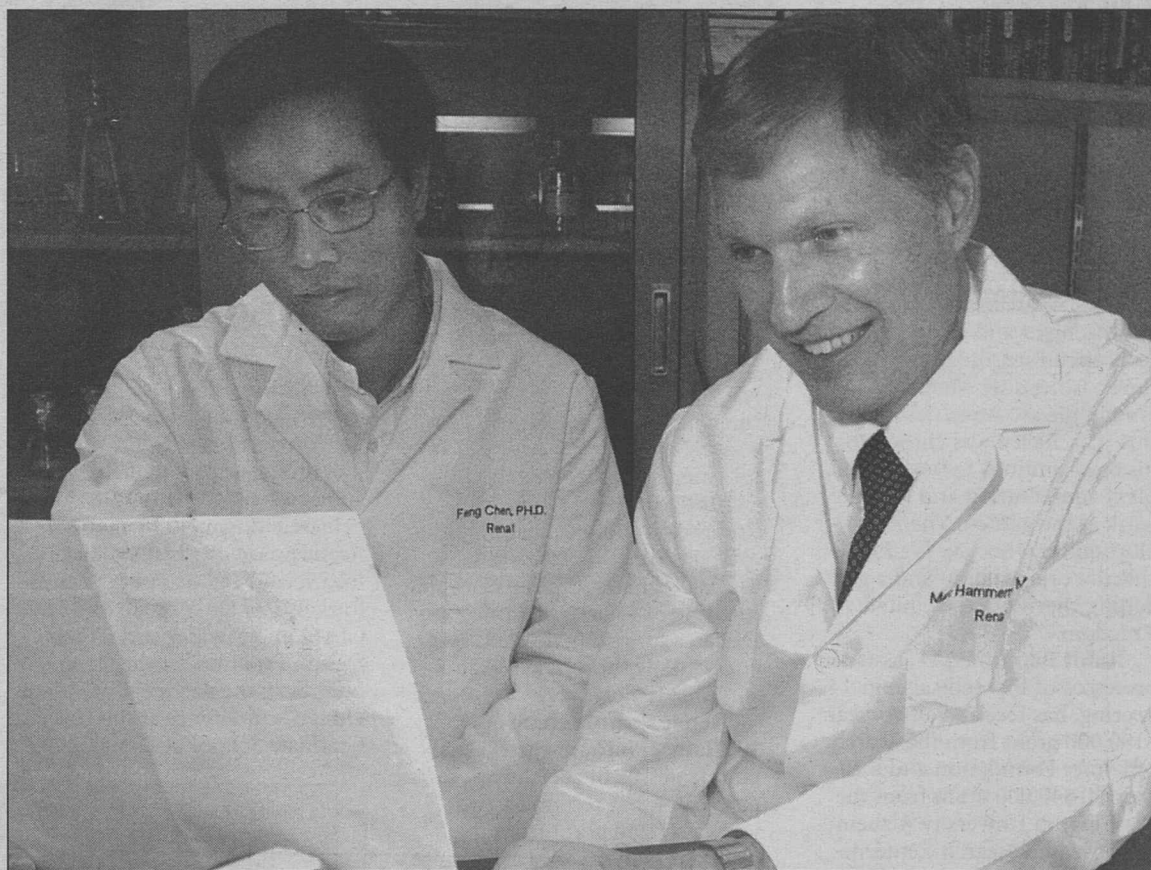
**W**hen asked what he enjoys about his job, Renal Division Director Marc R. Hammerman, M.D., doesn't hesitate.

"The opportunity to be creative in a scientific sense and in an administrative sense," he says. "Absolutely, that's it."

Lynn Wesselmann, administrative assistant for the Renal Division, has worked with Hammerman for nearly a quarter of a century, and she readily agrees that ingenuity is one of her boss' strengths.

"Marc has a knack for coming up with solutions," she says. "He seems to enjoy the challenge of taking on a problem that appears to be impossible and solving it in some novel way."

As an example, she cites Hammerman's work to expand the division's dialysis programs



Marc R. Hammerman, M.D. (right), and Feng Chen, Ph.D., assistant professor of medicine, examine sequencing data for a rat into which an embryonic pig pancreas was transplanted. "This is one of the great medical centers in the world," Hammerman says, "and being on faculty here has permitted me to do pretty much what I have wanted to do."

# Thrill of the chase

Marc Hammerman's novel approach to curing kidney failure may reduce the chance of transplant rejection

BY MICHAEL C. PURDY

by increasing services available to patients, expanding opportunities for learning and research available to medical students, and refining business aspects of the enterprise, which now involves five dialysis centers and hundreds of employees.

In the laboratory, Hammerman — also the Chromalloy Professor of Renal Diseases in Medicine and professor of cell biology and physiology — focuses on an inherently creative process: growth. He studies how the kidney and the pancreas grow during the early stages of development.

Hammerman used what he has learned about kidney and pancreas growth to devise a novel approach to curing kidney failure and diabetes with organ transplants. The new approach involves xenotransplantation, or transplanting an organ from one species to another.

As in human transplants, the immune system's rejection of the transplanted organs has always been a primary obstacle.

Hammerman's innovative approach to this difficulty uses embryonic precursors to animal organs instead of the organs themselves. The transplanted tissues aren't stem cells, he emphasizes, because they're not cells that can grow into anything — they're locked into developing into a pancreas or a kidney.

Hammerman hopes that allowing organ precursors to grow into organs inside a patient might greatly reduce chances that the immune system would reject the transplant.

His idea has been very successful in early animal tests. A recent experiment used transplants from pig embryos to cure diabetes in rats without also employing any immunosuppressive drugs.

"There are other people who are doing similar types of studies of the kidney, but they're doing it more to study specific biological processes than to get a fully functional organ,"

says the Renal Division's Jeffrey H. Miner, Ph.D., associate professor of medicine and assistant professor of cell biology and physiology. "Marc is the only person I know who is doing it to try to really replace the diseased kidney."

### Chasing challenges

Hammerman was born at St. Louis Maternity Hospital in 1947, grew up in University City and earned undergraduate (1969) and medical (1972) degrees from Washington University. After a

chase an idea.

"And if it's a good idea, you will invariably need to cross boundaries."

In 1991, David Kipnis, M.D., the Distinguished University Professor of Medicine and former chair of the department, appointed Hammerman head of the Renal Division.

"Marc is internally very driven, but that drive isn't expressed in egocentric activities like it is for some physicians," says Kipnis, who also is the Distinguished University Professor of Molecular Biology and Pharmacology. "He expects a great deal from his staff, but no more than what he expects from himself."

Hammerman is overseeing

**"I always know where Marc stands and where he wants us to go. I can also be sure that we will get there, and that it will probably be an interesting ride."**

LYNN WESSELMANN

few short stints at prestigious East Coast institutions like the National Institutes of Health, Johns Hopkins University and Massachusetts General, he returned to Washington University's School of Medicine in 1977.

"This is one of the great medical centers in the world, and being on faculty here has permitted me to do pretty much what I have wanted to do," he says. "Inevitably, there are rough times in any scientist's career, and for many of us the support of an institution like Washington University is required for getting over those rough times."

Hammerman hasn't just experienced rough times — he's actively courted them, pursuing his research interests across several different specialties, including developmental biology, tissue engineering, nephrology, xenotransplantation and diabetology.

"What I've done during my career is chase the answer to a question, and that's meant I've had to move from field to field, which is challenging, because every time I move into a new field, I have to deal with a new set of players and politics," he says. "But I think that's the only way to do science — you have to

preparations for the division's 50th anniversary in 2006 and has started planning a variety of activities, including a dinner and a reunion. This October, the American Nephrology Society will hold its annual meeting in St. Louis in honor of the upcoming anniversary.

Hammerman's administrative role keeps him in his office a majority of the time. He runs the division from the office and also works to advance his new approach to kidney and pancreas transplants, hoping to see them tested in humans before he retires in another decade or so.

"I always know where Marc stands and where he wants us to go," Wesselmann says of Hammerman's leadership of the division. "I can also be sure that we will get there, and that it will probably be an interesting ride."

### Artistic expression

Hammerman is soft-spoken, friendly and frequently prone to humor at his own expense.

Pictures of his family and original paintings by his wife, Nancy, an art teacher in the Pattonville school district, decorate the walls of the office.

"I never could draw," Hammerman says with a smile when asked about his wife's paintings. "My son

can do it, too, but neither my daughter nor I are any good at it."

Evidence of Hammerman's personal creative forte is near at hand, though. He wears a silver ring on his right hand with a large green stone, a moss agate. He made the ring 30 years ago, when he had just graduated from the School of Medicine.

"I took a class in jewelry-making after school in junior high school and sort of picked up the basics of the art," Hammerman explains.

Hammerman made Nancy's engagement ring, which features a green-faceted sapphire. His favorite piece is a necklace with a blue-faceted sapphire.

He has given many of his projects to Nancy and to his daughter, Megan, a social worker in San Francisco. And he's even made a few for his son, Seth, a medical student at the University of Vermont.

"There's sort of a moment of truth while you're soldering these silver pieces together — you have about three seconds or less between the time the solder melts and the silver melts," he says. "That's the art — they both have to be at the right temperature at the right time, and that's where the skill comes in."

"And you know, the worst thing that can happen is that you melt a little silver and you waste a lot of time, right?" he adds with a quiet laugh.

For Hammerman, though, one gets the sense that the pursuit of creative solutions is probably never a genuine waste of time.



Hammerman and his wife, Nancy, celebrate Marc's first scientific presentation at a major national meeting in Atlantic City, N.J., in 1975.

### Marc R. Hammerman

**Degrees:** Hammerman earned a bachelor's degree in 1969 and a medical degree in 1972, both from Washington University

**University positions:** Director of the Renal Division, the Chromalloy Professor of Renal Diseases in Medicine and professor of cell biology and physiology

**Years at the University:** 27

**Family:** Wife, Nancy; daughter, Megan, 26; son, Seth, 28

**Hobbies:** Making jewelry and writing short stories