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# Record

May 3, 2002

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Washington University in St. Louis



William B. McKinnon, Ph.D., professor of earth and planetary sciences in Arts & Sciences, is a team member of New Horizons, a group proposing a mission to Pluto and the nearby Kuiper Belt. "The New Horizons mission is the Lewis and Clark beyond Neptune," McKinnon says.

## Pluto mission proposed to launch in 2006

BY BRIAN SCHNALL

The last time Pluto was this close to Earth, George Washington was a British officer.

Thus, said William B. McKinnon, Ph.D., professor of earth and planetary sciences in Arts & Sciences, there is a real urgency behind the proposed New Horizons mission to Pluto and the Kuiper Belt.

McKinnon is a team member of New Horizons, led by the Southwest Research Institute (SWRI) in San Antonio and the Johns Hopkins Applied Physics Laboratory, with the involvement of many other universities and research institutions. The principal investigator of the collaborative effort is Alan Stern, Ph.D., of the SWRI.

New Horizons recently entered its NASA-funded final design stage, after winning two rounds of proposals to NASA for a "Pluto-Kuiper Belt Mission," which would explore the smallest planet in the solar system, Pluto; its moon, Charon; and the Kuiper Belt, a mysterious conglomeration of ice-rock bodies beyond the

"We will be studying a kind of wonderland of strange and exotic worlds, none of which have been seen up close."

WILLIAM B. MCKINNON

orbit of Neptune.

Launch is proposed for 2006, with a flyby of Jupiter in 2007, Pluto and Charon in 2015, and a tour through the Kuiper Belt lasting until 2026. Data collected from the mission should provide basic information on the geology, chemistry, interior structures and atmospheres of these celestial bodies.

Pluto remains the only planet in our solar system not to be visited by spacecraft.

"The New Horizons mission is the Lewis and Clark beyond Neptune," said McKinnon, a well-known researcher of the outer solar system and one of more than 20 Pluto and Kuiper Belt experts on the New Horizons team.

McKinnon will be analyzing the data-stream from the spacecraft to help plan the necessary encounters with Jupiter, Pluto, Charon, and the Kuiper Belt.

The mission plans to take advantage of Jupiter's position in the solar system.

"Jupiter is cycling by Pluto right now," McKinnon said. "By launching at the right time, we can get a gravity assist from Jupiter and get to Pluto with a total travel time of nine-and-a-half years. We also get some great science at Jupiter, for which we otherwise have no planned future missions."

The gravity boost reduces the flight time, and also the cost of the mission, as NASA can launch a smaller spacecraft that requires less fuel.

But what's the hurry?

When astronomer Clyde Tombaugh first discovered Pluto as a spot of light on his photographic plates in 1930, the planet was gradually moving closer to the sun along its 248-year elliptical orbit.

"The discovery of Pluto was a

See Mission, Page 6

Ensuring preparedness

## Disaster drill May 19 hosted by University

Parking and other restrictions to be in place on Hilltop

BY ANDY CLENDENNEN

The University will host a disaster preparedness exercise from 7 a.m.-3 p.m. May 19.

The event will be staged on the eastern end of the Hilltop Campus and access to certain areas will be limited during the event. This exercise is a regional effort involving agencies representing law enforcement, firefighters and hospitals.

During the drill, several emergency vehicles — fire engines, ambulances and police cars — will be seen on that part of the campus, and many people will be walking around Brookings Quadrangle. Some volunteers for

the exercise might have makeup on them to make them look injured, in an effort to add realism.

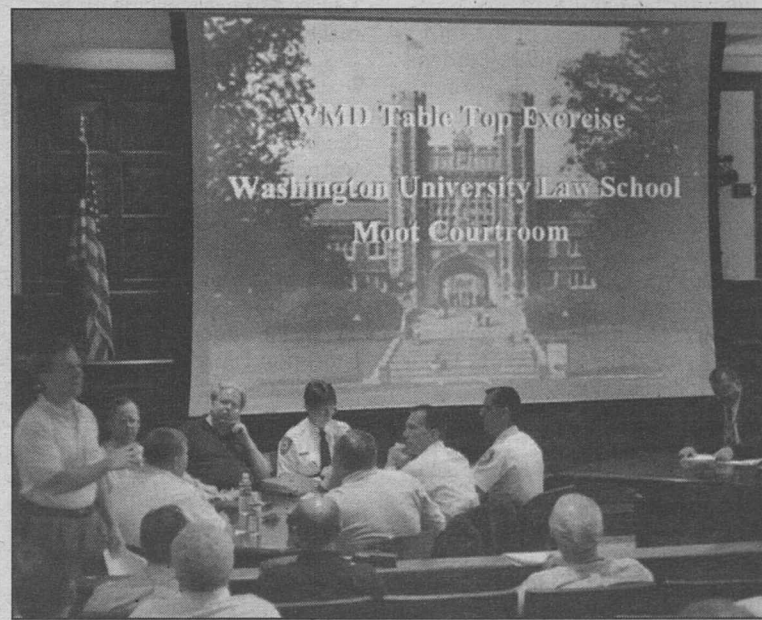
Because of the exercise, several restrictions will be placed on University personnel, and access to some areas and buildings will be restricted.

The following parking lots will be closed from about 6 a.m.-2 p.m.:

- No. 1 and No. 2, in front of Bixby and Givens halls;
- No. 4, in front of the under-construction Uncas A. Whitaker Hall for Biomedical Engineering;
- No. 11, the temporary lot east of Compton Hall;
- No. 10, east of Goldfarb Hall; and
- No. 9 and No. 43, bordering Forsyth Boulevard and south of Goldfarb Hall.

Hoyt Drive, Brookings Drive, Chaplin Drive, Compton Drive and the Brookings Circle will be closed to normal traffic between

See Exercise, Page 5



Mike Smiley (far left) of the Office of Emergency Management for St. Louis makes introductory remarks at the recent Weapons of Mass Destruction Table Top Exercise — a walk-through of the May 19 exercise — in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

## Neurobiologist Sanes elected to National Academy of Sciences

BY GILA Z. RECESS

Joshua R. Sanes, Ph.D., the Alumni Endowed Professor of Neurobiology in the School of Medicine, has been elected to the National Academy of Sciences (NAS).

Election to the academy is considered one of the highest honors that can be bestowed on an American scientist or engineer. Sanes was one of 72 new members chosen April 30, bringing the total number of active members to 1,907.

NAS is a private organization dedicated to advancing science and its use for the general welfare. It was established in 1863 by a congressional act.

Upon request, it acts as an official adviser to the federal government in matters of science or technology.



Sanes

New members are chosen in recognition of their distinguished and continuing achievements in original research.

Sanes is known for his work on the development of the nervous system. There are trillions of nerve cells, called neurons, in the mammalian

See Sanes, Page 6

## While you were sleeping Nocturnal dialysis improves patients' health, quality of life

BY JIM DRYDEN

Thousands of people with kidney disease must receive dialysis treatments several times a week to stay alive. That means spending hours at a dialysis center, away from work, school and hobbies.

But researchers in the School of Medicine and Barnes-Jewish Hospital are training some of those people to receive dialysis treatments at home while they sleep.

Brent W. Miller, M.D., assistant professor of medicine, said about 200,000 people in the United

States have kidneys that no longer function and are being kept alive by dialysis. The process removes

impurities from the blood that normally would be filtered out by the kidneys.

"Most will come into a dialysis center three times a week for about three to

four hours each time," Miller said. "That goes on for the rest of their



Miller

lives or until they get a kidney transplant. When you include travel time, it's about a 20-hour per week commitment, so I tell my patients that being on dialysis is like having a part-time job."

Dialysis used to be more of a full-time job. Decades ago, patients received the treatment for up to 12 hours five or six days each week. Dialysis machines have gotten more powerful since then, so the treatments don't take as long. The machines also have gotten smaller, so they can fit into the bedrooms of many homes.

Doctors must balance health

See Dialysis, Page 3



## Lützeler to receive German Cross of Merit

BY NEIL SCHOENHERR

Paul Michael Lützeler, Ph.D., the Rosa May Distinguished University Professor in the Humanities in Arts & Sciences, will receive the German Cross of Merit, First Class, at the University May 10.

This is one of the most prestigious awards Germany bestows on people with merits in the fields of German culture, economics or politics.

The award certificate, signed by German president Johannes Rau, and the medal will be presented to Lützeler by Alexander Petri, the German consul general in Chicago.

An American citizen, Lützeler will receive the medal for his pedagogical and scholarly work on



Lützeler

German literature and culture; for his merits in connection with improving academic relations between Germany and the United States; for his work in the

area of European Studies in Arts & Sciences; and for establishing the Max Kade Center for Contemporary German Literature in Arts & Sciences at the University. "I'm delighted to know that Professor Lützeler will receive this splendid honor from the German government," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. "An outstanding scholar, he has also helped to strengthen our Arts & Sciences offerings in German literature and culture —

for both undergraduate and graduate students — and through his efforts a number of important visitors have come to our campus. He is richly deserving of this award, and I'm very pleased that his contributions are receiving such wide recognition."

Lützeler joined the faculty of Arts & Sciences in 1973 and was named to the May distinguished professorship in 1993. Since joining the Department of Germanic Languages and Literatures in Arts & Sciences, 33 students have written their doctoral dissertations with him. He chaired the department from 1983-88.

Early on he revived and established exchange programs on the undergraduate, graduate and faculty levels with the University of Tübingen in Germany, and he established a number of endowed fellowships for doctoral students in German.

He has served on many committees at the University. He twice was elected chair of the Faculty Senate Council, and he twice served on the Personnel Advisory Committee in Arts & Sciences.

In addition, he recently received a Distinguished Faculty Mentor Award.

Lützeler has written nine books and edited numerous volumes on 19th- and 20th-century German and European literature.

He has received many other awards, prizes and fellowships; among them are Guggenheim, Humboldt and Fulbright grants.



Carl Safe (right), professor of architecture, and junior Nathan Brandenburg work on a permanent new shade pavilion in the 6600 block of Delmar Boulevard, in the University City Loop. The project was formally dedicated April 28.

## Community impact Architecture studios bolster campus, region

BY LIAM OTTEN

Design/build, you might say, is the most basic, hands-on form of architecture — no expensive consultants, no parceling out jobs, no headaches with subcontractors. Just plan it, pick up some tools and get to work.

A handful of studios from the School of Architecture is doing just that. In recent weeks, students have completed a permanent shade pavilion in the University City Loop; designed a soon-to-be-assembled summer pavilion for the south lawn by Givens Hall; installed a temporary memorial to St. Louis abolitionist Mary Meachum and the Underground Railroad; and created a series of projects for the Missouri School for the Blind (MSB) and the Delta Gamma Center for Children with Visual Impairments.

"The hardest thing is finding a project that fits," said Carl Safe, professor of architecture, who spearheaded the semester-long Loop studio. "Fourteen weeks, the skill level of the students, budget, accessibility — it's hard for all of that to come together."

When it does, though, the results can be dramatic. The Loop pavilion, located in the 6600 block of Delmar Boulevard next to Market in the Loop, is a light-footed composition of cedar and steel that maintains the airy grace of a garden trellis. The slatted roof maximizes shade at the height of summer yet is permeable when the sun passes lower in the sky.

Fourteen juniors completed everything from initial proposals and client presentations to securing permits, sinking foundations, fabricating steel joints and assembling the beams.

"It's really a very complex geometrical problem," Safe said. "All the louvers are at 30 degrees, but each of the joists is set at a slightly different angle. So the median is different for every pair of joists, on every side of every joist."

Dan Wald, owner of Market in the Loop, underwrote the \$8,000 budget; Joe Edwards, who owns an adjacent property, and University City manager Frank Ollendorff also provided input.

"It's a win-win-win situation," Safe said. "Dan gets an improvement in his plaza, the city gets an improvement on the street, and the students get an improvement in their education."

The Givens Hall pavilion, which will be located near the

intersection of Hoyt Drive and Forsyth Boulevard, is a room-sized geometric cube built entirely of simple 2-by-4 beams. Walls, ceiling and floor are all subdivided into 16-inch segments that push into and out of the enclosure, variously forming tables and benches, while the southerly entrance marks time like a sundial, interior shadows changing as the day progresses.

"The idea was to allow students to wear three different hats," said Yousif Albustani, visiting assistant professor, whose "Materializing Ideas" studio raised approximately \$1,000 to cover construction costs. "They served as architects because they designed it; as clients because they had to pay for it; and as contractors because they had to build it. The class addresses parameters conserving the limits of how making and thinking come together."

"There was a lot of negotiation," he added.

The Underground Railroad project, located a few miles north of downtown along the St. Louis Riverfront Trail, is a temporary rest station memorializing the site of an attempted slave crossing.

During the early hours of May 21, 1855, a group of eight or nine refugees — aided by Meachum, widow of the founding pastor of the First African Baptist Church of St. Louis — boarded a small skiff for Illinois but were intercepted by authorities. (Meachum was prosecuted under the Fugitive Slave Act, though records do not reveal the outcome of her case.)

Lindsey Stouffer, visiting assistant professor, led four students and a dozen or so members of the Trail Rangers, a youth preservation/revitalization group sponsored by St. Louis' Grace Hill charities and AmeriCorps, through the "sweat equity" project, which will remain in place until a permanent rest station is constructed.

"The students had no budget, no tools and no materials really, so they began collecting things from the riverfront," Stouffer said. The result is a garden/seating area built of old timber, river sand and

reclaimed bricks, its V-shaped line of benches overlooking the Mississippi while pointing toward both Meachum's home and the would-be landing area.

"It's a small project, but there is an impressive level of care and a real sensitivity to detail," Stouffer said. "The idea is that you can sit and contemplate their departure."

Mimi Locher, visiting assistant professor, tapped a similar community spirit for a studio based on a hypothetical Arts Center for the Blind.

By way of research, the 15 juniors and seniors met with representatives of MSB and Delta Gamma and then designed, built and donated four suggested projects: a hands-on display about carpentry joints; a prototype, wheelchair-friendly worktable (since close to 65 percent of visually impaired children also cope with additional disabilities); a 3-foot "black box" cube that helps young children learn to conceptualize the structure of rooms; and a large, outdoor sign/

sculpture to orient Delta Gamma students as they arrive for classes.

Locher noted that the sign/sculpture project "was probably the most difficult to pull off because it was very conceptual and very formally complex." The class' solution was to create a highly tactile,

tree-like structure that contains openings for a series of wind chimes.

Interestingly, visually impaired students who attended a review, "used (the sculpture) in a much different way than we expected: as designers, we tend to understand the continuous surface first, because it's a visual barrier. But they immediately wanted to put their hands inside and touch the chimes."

Locher added, "It was important for (the class) to see how everything comes together," from both an architect's and a client's perspective. And of course, "they were all very pleased that their projects would actually be used and worked especially hard because of that."

"Some had welding experience and some just learned how to weld," she quipped.

## University Libraries names book collection winners

BY ANDY CLENDENNEN

University students Kamaal Haque, Donna Armistead, Jennifer Losi and Brittany Hayden are winners of the 15th Annual Carl Neureuther Student Book Collection Competition, which is sponsored by University Libraries.

This competition invites full-time University students who collect books to compete for cash prizes by writing an original essay about their collection, compiling a bibliography and submitting several books from the collection.

First- and second-place winners are named in two categories: graduate students and undergraduates. First-place winners take home a prize of \$750; second-place winners receive \$500.

Haque won first prize among graduate students for his essay and collection titled "Half a World Away: History, Ethnography, and Literature of Afghanistan and Pakistan." He is a doctoral candidate in German and comparative literature in Arts & Sciences.

Armistead won the second-place graduate award. Her collection is titled "Twentieth Century Theatrical Dance Library." She is working on her master's degree in drama in Arts & Sciences.

Losi, a senior majoring in comparative arts and acting, is the first-place undergraduate winner; she calls her collection "Shelf Life: An Obsession With Collection."

Hayden, a freshman majoring in anthropology in Arts & Sciences, won the second-place award for undergraduates. Her collection is titled "How to Be a Working Actor."

Neureuther, a 1940 graduate of the School of Business, created this contest to encourage University students to pursue lifelong learning through reading. He believed reading fostered intellectual growth and encouraged the development of personal libraries.

Neureuther also left University Libraries an endowment to support the popular literature collection, housed on the main level of Olin Library.

# Record

Washington University community news

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Washington University in St. Louis



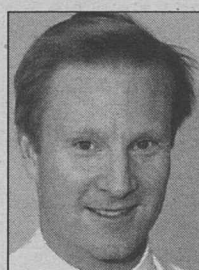
## School of Medicine Update

# Kidney transplantation Therapy reduces risk of rejection

By DARRELL E. WARD

An international study led by School of Medicine researchers has found that a drug normally used to treat acute rejection of transplanted kidneys also can dramatically prevent rejection when administered during surgery.

"These findings are important because avoiding acute rejection helps patients keep the graft longer and live longer," said Daniel C. Brennan, M.D., the study's principal investigator. Brennan is associate professor of medicine and director of transplant nephrology in the School of Medicine and Barnes-Jewish



**Brennan:** Director of transplant nephrology

Hospital, which has one of the lowest rates of kidney transplant rejection in the world.

Brennan presented the findings April 29 at the American Transplant Congress meeting in Washington, D.C.

According to Brennan, there are about 50,800 people waiting for kidney transplants in the United States. About half of transplanted kidneys in the United States come from cadavers. Twenty percent to 60 percent of kidney transplant recipients will experience an acute rejection episode, an immune reaction to the transplanted organ that most often occurs in the first six

months following transplantation and can cause fever, tissue destruction and loss of the transplanted kidney.

Physicians use drugs before or during surgery to prevent rejection, a method known as induction therapy. The international team found that patients receiving the drug Thymoglobulin had 2 1/2 times fewer episodes of acute kidney rejection than did patients receiving the leading induction therapy drug, Simulect. Though the two drugs showed no significant difference in safety or side effects, the large discrepancy in their effectiveness caused an independent monitoring committee to halt the investigation halfway through the study.

The study's interim findings are based on the outcomes of 212 patients (average age 49) who received kidneys from cadavers at 16 centers in the United States and 10 in Europe. Of these, 106 received Thymoglobulin and 106 received Simulect. The patients were followed an average of 6.9 months; originally, patients were to be followed for an average of 12 months.

Of the patients receiving Thymoglobulin, 8 percent had an episode of acute rejection within the follow-up period compared with 19 percent of those receiving Simulect.

"Based on our results, I expect that up to half of kidney transplants that come from cadavers could benefit from Thymoglobulin therapy," Brennan said.

The study was funded by SangStat Medical Corporation, manufacturer of Thymoglobulin.

## Medical school marrow donor drive May 9

In conjunction with the National Marrow Donor Program, the University is hosting a marrow donor recruitment drive. School of Medicine employees can register at the drive from 9 a.m.-5 p.m. May 9 in Great Rooms A & B of the Eric P. Newman Education Center, 320 S. Euclid Ave.

Participants will provide a small sample of blood to allow their

stem cells to be typed, a process that takes only 10-15 minutes. Those identified as a match with a patient needing a stem cell transplant will be called at a later date. Additional information about this drive, including a consent form that can be printed out and completed ahead of time, can be found at [wupa.wustl.edu/marrow](http://wupa.wustl.edu/marrow).

## Dialysis

— from Page 1

with quality-of-life issues. More dialysis is better for a person's health, but less preserves a patient's quality of life.

Recent studies from Europe have shown that daily dialysis makes patients healthier. They feel better, eat normal foods and have more energy.

To make daily treatments possible, Miller is training people to give themselves dialysis at home while they sleep. Researchers in Toronto, Virginia, New York and elsewhere also are testing the idea.

Miller decided to try it when one of his dialysis patients suggested it.

"It actually was one of our patients who convinced me, and I give her a lot of credit for being willing to really help us out and help us design this program," Miller said.

In recent months, he has trained other patients, too. Most must receive several weeks of training before they can go home

with and operate a dialysis machine.

"They have to learn to use the machine just like our dialysis technicians and nurses," Miller said. "It takes four to six weeks to train them, and training takes about 20 hours per week, followed by a test in the hospital that lasts a week before we send them home. Then they have to take responsibility for doing their own dialysis and doing it correctly. They have backup from us by phone, but they have to assume a great deal of responsibility for their care."

Miller says doing dialysis at home won't be for everyone; some people prefer to come to the dialysis center for treatment.

But he estimates that about 20 percent will want to treat themselves at home if given that option.

Miller hopes someday to have more than 100 of his patients giving themselves dialysis while they sleep. As more begin receiving treatment while they sleep, Miller has plans to follow those patients to ensure that they are doing as well or better than those treated at standard dialysis centers.



**Learning about the ear** At a recent class of Mini-Medical School II, Cynthia Wichelman, M.D., course director, demonstrates how to use an otoscope to students (from left) Ann Desloge, Meredith Holbrook, Deanna Martin and Deborah Capps. Students in Mini-Medical School II learn physical diagnosis skills of the heart, lung, abdomen and head in a hands-on laboratory. For more information about upcoming courses, visit [medicine.wustl.edu/minimed](http://medicine.wustl.edu/minimed) or call 362-4380.

## Genetic basis focus of depression study

By JIM DRYDEN

Theodore Reich, M.D., the Samuel and Mae S. Ludwig Professor of Psychiatry and professor of genetics in the School of Medicine, is leading an international team of geneticists in an expanded study attempting to uncover the genetic basis of depression.

Reich is the principal investigator for the St. Louis site of the 10-center study, which involves researchers in the United States and Europe. Washington University is the only center in the United States that is recruiting study participants. Originally hoping to recruit people from 120 families in which some members suffer from depression and others do not, Reich now hopes to identify about 240.

"Our productivity has been so good during the first two years of this study that we have been asked to find more subjects," Reich said. "We are especially interested in families where two siblings have had to battle depression and another has not. Because those siblings were raised in the same home environment and would presumably have had similar

experiences, we would expect that genetic differences may help explain why one becomes depressed and another does not."

Study volunteers provide detailed family histories and also give a blood sample that can be used for DNA analysis. In the next few months, the project expects to begin DNA analysis on the first 400 affected sibling pairs.

Researchers hope that the international study, sponsored by British pharmaceutical company GlaxoSmithKline, will provide new insights into the genetic and environmental factors associated with unipolar depression.

Also referred to as clinical depression or major depression, unipolar depression causes patients to slip into states of extreme sadness, hopelessness and lethargy. As they work to locate the genes related to unipolar depression, Reich and the other investigators will take advantage of new information from the DNA sequence provided by the Human Genome Project.

"We will use the genome map as we try to determine why some people in a family develop depression while others do not,"

Reich said. "If we can identify the genes that make people susceptible, it will revolutionize our understanding of the disease and guide the design of new drugs to prevent or treat this extremely debilitating disorder."

Depression affects up to 12 percent of people in the Western world, and although about 70 percent of patients respond to treatment, three-fourths of those patients experience a recurrence of their illness within 10 years.

In addition, an estimated 60 percent of depressed people remain undiagnosed and untreated. The World Health Organization estimates that by the year 2020, depression will be the second leading cause of "lost years of healthy life."

Reich and colleagues are recruiting volunteers for the study. All required study visits, examinations, evaluations and laboratory procedures will be provided free of charge. Those who qualify also will receive a small cash stipend.

For more information, call program manager Caroline Drain at 286-1345 or toll free at 1-888-292-1210, or visit the study's Web site at [www.psychiatry.wustl.edu/depression](http://www.psychiatry.wustl.edu/depression).

## Race for the Cure registration offered on campus

The Alvin J. Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine is co-sponsoring the 2002 St. Louis Race for the Cure.

Employees of Washington University and Washington University Medical Center who want to join the Siteman Cancer Center Team can register on the Hilltop Campus May 14 or at the medical center May 13-15.

The June 22 race will be held downtown and consist of a 5-kilometer run and walk and a 1-mile walk to raise funds for local and national breast cancer initiatives. Three-fourths of the money raised will remain in St. Louis to support breast cancer education, screening and treatment efforts. The remainder will fund national breast cancer

research efforts supported by the Susan G. Komen Breast Cancer Foundation.

Those who register on-campus, online or by mail as Siteman Team members by May 28 will pay the \$16 early registration fee. They also will receive a free Race for the Cure T-shirt and Siteman Team T-shirt and automatically be registered in a drawing for a \$250 gift certificate to the Saint Louis Galleria. Family and friends of employees are welcome to become Siteman Team members.

Hilltop registration for Siteman Team participants will be held in Mallinckrodt Center near the bookstore between 11 a.m.-1 p.m. May 14. Medical center registration will occur during the same hours May 13 outside the cafeterias at Barnes-Jewish Hospital North, at the Clayton Avenue Building and at the 4444

Forest Park Avenue Building. It also will be held May 14 outside St. Louis Children's Hospital's cafeteria and on the third floor of the Center for Advanced Medicine and May 15 outside the Barnes-Jewish Hospital South cafeteria, in the main lobby of the Taylor Avenue Building, and in the Seashell Lobby near the McDonnell Medical Sciences Building.

For online registration, go to [www.stlouisraceforthecure.org/race/entryform.aspx](http://www.stlouisraceforthecure.org/race/entryform.aspx), and choose the Siteman Cancer Center team option.

All Siteman Team registrants will pick up registration packets and T-shirts at the medical center the week before the race. For more information about the Siteman Team for the Komen St. Louis Race for the Cure, e-mail [mar5929@bjc.org](mailto:mar5929@bjc.org), or call 454-5059.



# University Events

## Fashion Show • Burma and Vietnam

"University Events" lists a portion of the activities taking place at Washington University May 3-15. Visit the Web for expanded calendars for the Hilltop Campus ([www.wustl.edu/calendar](http://www.wustl.edu/calendar)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

## Lectures

### Friday, May 3

**9:15 a.m. Pediatric Grand Rounds.** Ben Abelson Memorial Lecture. "Inherited Neutrophil Defects: Lessons from Chronic Granulomatous Disease and Murine Models." Mary C. Nauseef, Nora Letzter Professor of Pediatrics and of Medical & Molecular Genetics, assoc. chair for Basic Research, dept. of pediatrics, Ind. U. School of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar Series.** "The Mitotic Regulator Securin: Can't Separate With It, Can't Separate Without It." Orna Cohen-Fix, investigator, lab. of molecular and cellular biology, National Inst. of Health, Bethesda, Md. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

**4 p.m. Neuroscience seminar.** Vivian Budnik, prof. of biology, U. of Mass. McDonnell Medical Sciences Bldg., 362-7043.

**6 and 8:30 p.m. Travel Lecture Series.** *Burma and Vietnam.* Rick Ray. Cost: \$5. Graham Chapel. 935-5212.

### Monday, May 6

**Noon. Neurology and Neurological Surgery Research Seminar Series.** "The Molecular Pathogenesis of Polyglutamine Disease." J. Paul Taylor, Howard Hughes Medical Institute Fellow-Neurogenetics, National Inst. of Neurological Disorders and Stroke, National Inst. of Health. Schwarz Aud., Maternity Bldg., First floor. 362-7316.

**4 p.m. Immunology Research Seminar Series.** "Engineering a Better MHC-I Molecule for Stimulating Specific Immunity." Ted Hansen, prof. of genetics, Eric P. Newman Education Center. 362-2763.

**4 p.m. Biology seminar.** "The Evolution of Developmental Gene Networks." Greg Wray, assoc. prof. of biology, Duke U., Durham, N.C. Rebstock Hall, Rm. 322. 935-6812.

### Tuesday, May 7

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "The Role of Lipids and Lipid Secretion in the Pathogenesis of *Mycobacterium tuberculosis*." Clifton E. Barry, III, chief, tuberculosis Research Section, Lab. of Host Defenses, National Inst. of Health. Cori Aud., 4565 McKinley Ave. 362-8873.

**4 p.m. Chemistry Seminar Series.** Stefan Franzen, prof. of biophysical and biological chemistry, N.C. State U., Raleigh. 935-6530.

### Thursday, May 9

**8 a.m. Department of Medicine Grand Rounds.** Annual Morton Binder Visiting Professor of Medicine Lecture. "Brain Death: A Critical Reappraisal." D. Alan Shewmon, chief and prof. of pediatric neurology, Olive View-UCLA Medical Center. Clopton Aud., 4950 Children's Place. 454-7116.

**Noon. Genetics Seminar Series.** "The Molecular Mechanism of Aging and Longevity: From the Viewpoint of *Sir2* Function." Shin-ichi Imai, asst. prof. of molecular biology and pharmacology, McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

### Friday, May 10

**9:15 a.m. Pediatric Grand Rounds.** "Diffusion MR Imaging of Premature Infants." Jeffrey J. Neil, assoc. prof. of neurology, pediatrics, and radiology. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell biology and Physiology seminar.** "The Unfolded Protein Response, Cell Differentiation, and Glucose Homeostasis." Randal Kaufman, prof. and Howard Hughes Investigator, dept. of biological chemistry, U. of Mich., Ann Arbor. McDonnell Medical Sciences Bldg., Rm. 426. 362-4690.

### Monday, May 13

**Noon. Neurology and Neurological Surgery Research Seminar Series.** "Transition

Metals, Reactive Oxygen Species, and Neurodegeneration." Christian Sheline, research asst. prof. of neurology. Schwarz Aud., Maternity Bldg., First floor. 362-7316.

**4 p.m. Immunology Research Seminar Series.** "T Cell Tolerance, Costimulation and Survival." Pamela Ohashi, Senior Scientist, Div. of Cellular and Molecular Biology, Ontario Cancer Institute, Toronto. Eric P. Newman Education Center. 362-2763.

### Tuesday, May 14

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "The Link Between a *Yersinia* Transcriptional Regulator and the Host Response." Virginia Miller, prof. of molecular microbiology. Cori Aud., 4565 McKinley Ave. 362-8873.

**Noon. Tuesday Conference Seminar.** "Age-related White Matter Changes in Mice of Alzheimer's Disease." Victor Song, research instructor of radiology, Sponsored by the Alzheimer's Disease Research Center. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 286-2881.

**4 p.m. Cancer Center Tumor Genetics Seminar Series.** "Ovarian Cancer Models." Thomas C. Hamilton, senior member, medical science div., Fox Chase Cancer Center, Philadelphia. McDonnell Medical Sciences Bldg., Rm. 426. 454-8566.

## Sports

### Saturday, May 4

**11 a.m. Softball** vs. Webster U. Softball Field. 935-4705.

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

## Worship

### Friday, May 3

**11:15 a.m. Catholic Mass.** Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

**1:15 p.m. Jummuh Prayers.** Prayer service. Lopata House, lower lvl. 920-1625.

## And more...

### Sunday, May 5

**7:30 p.m. Fashion Show.** Sponsored by the School of Art's Fashion Design Program. Cost: \$50, tickets available at Edison Theatre Box Office. Saint Louis Galleria, Garden Court. 935-9090.

### Tuesday, May 7

**Noon-1 p.m. Toastmasters event.** Washington University Toastmasters for Oratorical Readiness (WUTFOR), 4480 Clayton Ave, Rm. 1140A. 935-6001.

### Thursday, May 9

**8 a.m. Distance learning course.** STD Clinician Course. Presented by St. Louis STD/HIV Prevention Training Ctr. (Also May 16). Cost: \$65. U. of Mo., St. Louis, Lucas Hall, Rm. 117. To register, call 747-0294.



**Marshmallow mortar** (From left) Rachel Metzler, Sally Wiedenbeck, Lisa Warnke, Jessica Pearson and Annie Careux participate in "Building Marshmallow Bridges," one of the many activities offered to girls at the annual Take Our Daughters To Work Day April 25. Warnke and Careux are University juniors who lent a hand at the event, which was sponsored by the Office of Human Resources and included many contributions from academic departments, Bon Appétit and the Campus Bookstore. This year marked the 10th edition of the national event designed to provide young girls with future opportunities and positive female role models.

## Commencement Week

For more information, call the Commencement Hotline at 935-4355.

### Wednesday, May 8

**6 p.m. Black Senior Alliance Graduation Ceremony.** Reception immediately following. Location to be announced.

**7:30 p.m. University College Recognition Ceremony and Reception** in John E. Simon Hall Auditorium and Courtyard.

### Thursday, May 9

**10:30 a.m. Eliot Honors Convocation.** Honoring students for academic and leadership achievements. Field House, Athletic Complex.

**1:30 p.m. School of Engineering and Applied Science Recognition Ceremony** in the Field House, Athletic Complex.

**4:30 p.m. College of Arts and Sciences Recognition Ceremony** in the Field House, Athletic Complex.

**8 p.m. School of Art Recognition Ceremony** in Graham Chapel.

### Friday, May 10

**8 a.m.** Degree candidates assemble.

**8:30 a.m.** Commencement Exercises in Brookings Quadrangle.

The following programs begin immediately following the Commencement Exercises:

#### College of Arts and Sciences:

Reception and diploma distribution in the Sally E. Strain Courtyard, between Monsanto Laboratory and the Psychology Building. Rain Location: Francis Gym, Athletic Complex.

**University College:** Diploma distribution and reception in Ann W. Olin Women's Building Lounge.

**Graduate School of Arts and Sciences:** Hooding and recognition ceremony in Edison Theatre. Reception follows in Bowles Plaza and Gargoyle, Mallinckrodt, Lower Level.

**School of Architecture:** Diploma ceremony, Brookings Drive Mall. Reception follows in Givens Hall. Rain location and time: Graham Chapel, 3 p.m.

**School of Art:** Diploma distribution and reception on the Steinberg Hall terrace. Rain location: Gallery of Art, Steinberg Hall.

**John M. Olin School of Business:** Diploma distribution and reception in the Field House, Athletic Complex. Reception follows in John E. Simon Hall.

**School of Engineering and Applied Science:** Undergraduate diploma distribution in room 324 Lopata Hall. Reception follows in Lopata Gallery and Lopata Plaza between Jolley and Cupples II halls.

**George Warren Brown School of Social Work:** Diploma distribution in Graham Chapel. Reception follows in the Lucy and Stanley Lopata Courtyard, Goldfarb Hall.

#### Program in Occupational

**Therapy:** Reception in Holmes Lounge. Diploma ceremony follows in Graham Chapel.

The following program begins at noon.

#### Health Administration

**Program:** Diploma ceremony at the Sheraton West Port Hotel, Plaza Tower, East Ballroom A and B. Reception immediately following.

The following program begins at 12:30 p.m.

**School of Law:** Diploma ceremony in Brookings Quadrangle. Reception follows in Anheuser-Busch Hall. Rain location: Recreational Gymnasium, Athletic Complex.

The following program begins at 1:30 p.m.

**Henry Edwin Sever Graduate School of Engineering and Applied Science:** Hooding and recognition ceremony in Edison Theatre. Reception follows in Bowles Plaza. Rain location: Gallery and Gargoyle, Mallinckrodt Lower Level.

The following programs begin at 3 p.m.

**John M. Olin School of Business:** Graduate diploma and awards ceremony in the Field House, Athletic Complex. Reception follows in John E. Simon Hall.

**School of Medicine:** Senior program in the lecture hall, America's Center, Downtown St. Louis. Reception follows in the Atrium of the America's Center.

## Senior Ard receives Fulbright Teaching Scholarship to work in Germany

By ANDY CLENDENNEN

Kevin Ard is graduating with a double major, in biology and German, both in Arts & Sciences.

And soon, Ard will be headed for a prestigious medical school with the goal of becoming a doctor. He's already been accepted to the Washington University School of Medicine and the Mayo Medical School.

But first, he's going to get a little bit of traveling, sightseeing

and teaching in. Ard received one of approximately 90 Fulbright Teaching Scholarships to teach in Germany next year.

The Fulbright Program, established in 1946 by the U.S. Congress under the sponsorship of Sen. J. William Fulbright, D-Ark., annually awards grants for study, teaching, lecture and research.

"I'm not planning on becoming a teacher," Ard said. "I want to be a doctor and will be going to

medical school, but I've always been interested in teaching and have been a teaching assistant for several courses here while I've been a student. I thought it would be an interesting thing to do for a year between my undergraduate years and medical school.

"I've always been interested in language, and I'm a German major, so I thought that teaching in a foreign language would be a good experience for me. Also,

since physicians have the role of educator and have to explain things to patients, I thought it would be good preparation for my career."

Ard knows he'll be teaching English and American studies in a German high school, but he just isn't sure where exactly that high school will be other than it will be in the German state of Saxony.

But that doesn't matter. "I'm sure it will be interesting wherever they send me," he said.



## Management briefing to discuss information system development

By TONY FITZPATRICK

Frank Gryna, Ph.D., distinguished professor emeritus of industrial engineering at Bradley University, will present a program on "Preferred Practices in Developing a Quality Information System" May 29 in the Women's Building Formal Lounge.

The presentation, which begins at 6:30 p.m., is free and open to the public and slanted toward the local information management industry. A reception will be held at 6 p.m.

The presentation is part of an ongoing series, the Technology Management Briefings — educational outreach programs designed to share expertise on current issues relevant to industry.

The programs are sponsored by the engineering management, information management and telecommunications management postgraduate degree programs, all in the School of Engineering and Applied Science. The three programs all offer graduate degree options in engineering and information management.

This presentation will address research results of a study on developing an information system for collecting and reporting on quality-related activities within an organization. A key focus of the information system is improving

product and service quality.

The research includes discussions with four organizations: a hospital, a financial services organization, an energy company and a telecommunications corporation. The results led to the identification of 14 preferred practices in developing a quality information system.

These preferred practices were then integrated into an overall quality-planning model. The preferred practices would apply to any information system for which an improvement in operating results is a desired outcome.

Gryna has more than 50 years of experience in the managerial,

statistical and technological aspects of product and service quality.

He has taught industrial engineering at Bradley University and management at the University of Tampa. He served as manager of

reliability and quality assurance at the Space Systems Division of Martin-Marietta and senior vice president of Juran Institute.

He is a fellow of the American Society for Quality and the Institute of Industrial Engineers and has received the E.L. Grant Award and the Edwards Medal of the American Society for Quality.

Seating at the May 29 lecture is limited, so attendees are encouraged to register as early as possible by calling 935-5484 or e-mailing pdp-rsvp@sever.wustl.edu.

The presentation is part of an ongoing series of educational outreach programs designed to share expertise on current issues relevant to industry.

## Exercise

— from Page 1

6 a.m.-2 p.m.

Foot traffic in the areas described above and in the area of the Brookings Quadrangle will be restricted. No pedestrian traffic will be permitted in the Quad, and the occupants of buildings bordering the Quad — North and South Brookings,

Cupples I, Duncker, Ridgley, January and Busch halls — will not be permitted to use exit doors that access the Quad during the exercise.

Any person or group that has a special access requirement during the hours of this activity should contact University Police prior to May 16 in order to coordinate its needs.

For more information, contact Chief of University Police Don Strom at 935-5514 or don\_strom@aismail.wustl.edu.

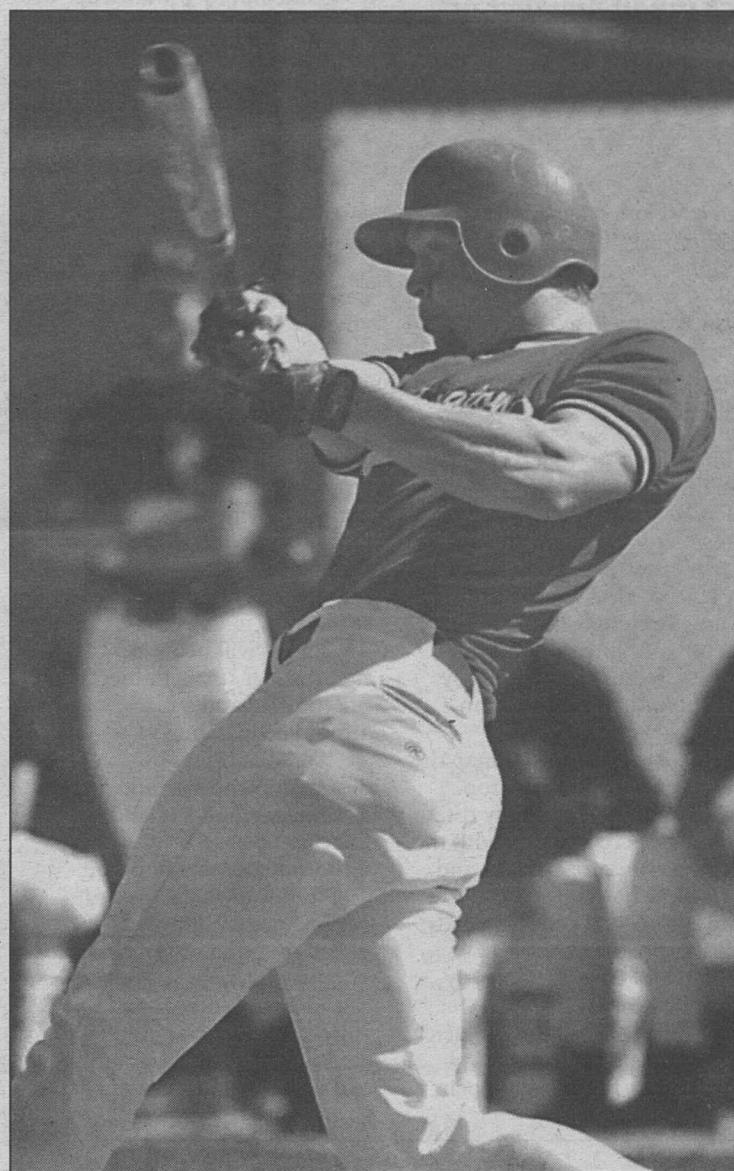
## Sports

### Baseball snaps skid, sweeps Case Western

The Bears broke a five-game losing skid and moved within one victory of tying the single-season record for wins with a doubleheader sweep of Case Western Reserve University on April 28. The Bears, now 26-9 overall, need just one win to match the record of 27 wins set in both 1999 and 2000. WU took Game 1, 8-1, and rallied for an 8-7, 10-inning win in Game 2. In the opener, junior lefthander Adam Cowley threw 5 2/3 innings and struck out five to improve to 7-2 and lower his ERA to 2.82. Nate Hadsell got the final out of the sixth with the bases loaded and struck out the side in the ninth to pick up his first career save. Kirk Heischmidt was 3-for-3 with two runs scored to pace the offense. In Game 2, the Bears took a 6-3 lead into the top of the seventh, but the Spartans scored four runs, three of them unearned, to take a 7-6 lead. WU was down to its last out in the bottom of the inning, but Mark Glover singled, moved to third on a pair of wild pitches and scored on Joe Kelly's single. Kelly then lined another single in the bottom of the 10th to give the Bears the win. Nate Liberman got the win with an inning of hitless relief.

### Other updates

The softball team improved to 23-15 after a doubleheader sweep of Greenville College moved its winning streak to four. With the sweep, the Bears have won nine of their past 10 games and have kept their NCAA Tournament hopes alive. In Game 1, freshman Victoria Ramsey pitched her sixth shutout of the season in the 8-0 victory. Sophomore Lorri Fehlker evened her record at 6-6 on the season as she earned the



Junior right fielder Joe Kelly played the hero in Game 2 against Case Western Reserve University April 28. He hit a game-tying single in the bottom of the seventh, then hit a game-winning single in the bottom of the 10th to give the Bears a doubleheader sweep.

4-1 Game 2 win.

Freshman Lance Moen captured first place honors for the outdoor track and field team in the 400 meters with a personal-best and NCAA-

qualifying time of 48.47 seconds at the Twilight Open, hosted by Southern Illinois University at

Edwardsville April 27. Moen, the UAA indoor and outdoor champion in the 400 meters, won the event by more than 1.5

seconds. Sophomore Lindsey Clark-Ryan also took top honors in the women's triple jump with a personal record and NCAA-qualifying 11.27 meters. The Bears managed a women's horizontal-jump sweep as Kammie Holt won the long jump with a school-record 5.51 meters. Sophomore Mindy Kuhl ran her outdoor unbeaten streak to six as she clocked 4:43.70 for first place in the women's 1,500 meters. Freshman Hallie Hutchens also notched a victory in the 100-meter hurdles as she cleared the barriers in 15.02.

### On the Internet

For sports schedules and additional results, log onto [bearsports.wustl.edu](http://bearsports.wustl.edu).

## Graham Chapel 'bells' are ringing once again

By ANDY CLENDENNEN

Graham Chapel is alive again, thanks to recent upgrades to the bell tower.

For quite a while, the Mass-Rowe Chronobell was broken and the sounds were silenced.

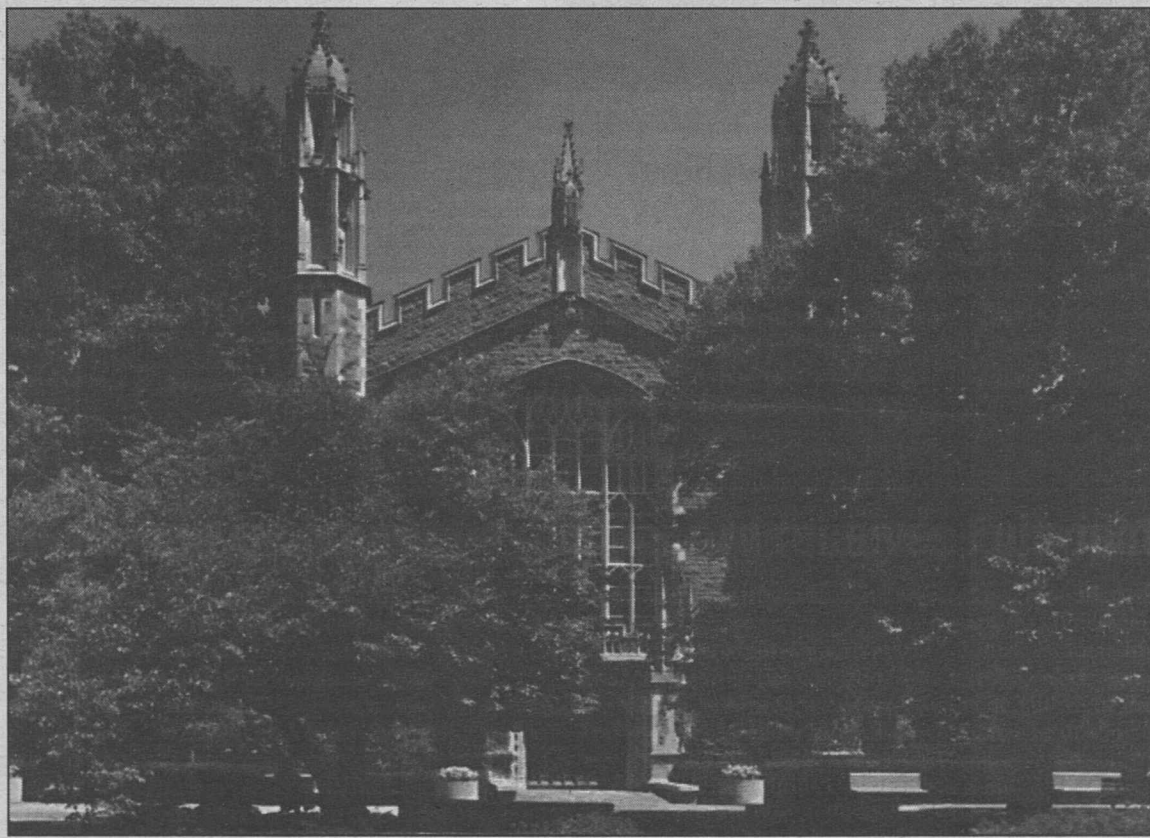
"We were looking at putting in some type of a carillon," said Ralph Thaman, associate vice chancellor of facilities. "A carillon requires a huge space and is also extremely expensive, well over a million dollars. And there was no way we could do that."

So, thinking the current machinery was all but unsalvageable, Thaman and others started looking into purchasing an electronic carillon and saving hundreds of thousands of dollars in the process.

But it turned out the original mechanism could be fixed after all.

"Rather than spend money for even a new electronic carillon, we were able to upgrade the existing (system)," Thaman said. "What we have are live, struck-metal bell rods, and they are superior to any sound produced by an electronic unit. Nothing sounds as good as authentic metal, struck live."

In the process, part of the sound machine made a 30-year



The "bells" of Graham Chapel on the Hilltop Campus are ringing once again.

leap forward in technology.

"If you can believe it, the old one had an eight-track tape player,"

Thaman said. "Obviously that was no good. But now, you can play a CD or you can have the bell

sound, and we did it all for about \$5,000.

"It was a pretty amazing process."

## Campus Watch

The following incidents were reported to University Police April 23-30. 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).

### April 24

1:38 p.m. — A student reported that between 9 p.m. April 23 and 1:35 p.m. April 24, an unknown person took her stereo/CD player from her vehicle, which was parked in the lower level, east end of Lien Garage. Total loss is estimated at \$200.

5:17 p.m. — A student reported that between 4:10-5:10 p.m., an unknown person took her purse out of her locker in the Athletic Complex women's locker room.

### April 28

1:10 p.m. — A student reported that between 2-5 p.m. April 25, an unknown person took his blue Outpost mountain bike, which was left unsecured at the clock tower. Total loss is estimated at \$325.

Additionally, University Police responded to four reports of larceny.



# Mission

**McKinnon member of New Horizons group**  
— from Page 1

nice historical accident,” McKinnon said. “Despite its long, eccentric orbit, the planet was relatively close during the early stages of investigation.”

Pluto drew nearer until it reached perihelion — the point in its orbit at which it is closest to the sun — in 1989. The planet is now retreating from the sun, influencing future investigations in several ways.

Pluto cools off as it recedes from the sun, and scientists anticipate that its nitrogen atmosphere will freeze and fall to the planet’s surface. New Horizons scientists hope to study the precise composition and structure of Pluto’s atmosphere before it freezes out completely and disappears for more than a century.

Scientists also want to map the surfaces of Pluto and Charon. Because both bodies nearly rotate on their sides (compared with the Earth), seasons are extreme and the poles of both bodies endure decades-long and geographically extensive polar nights.

Pluto and Charon presently are moving from southern hemisphere autumn into winter, and as they move farther away from the sun, the areas of polar

darkness get larger and hide more of the surface from direct study.

Contemporary knowledge of Pluto and the Kuiper Belt comes from the Hubble Space Telescope and various ground-based telescopes. Pluto appears as little more than a tiny spot of light to these high-powered instruments. The New Horizons mission intends to provide the clarity these instruments lack.

The mission will focus on the basic geology of Pluto, Charon and the Kuiper Belt.

“We will be studying a kind of wonderland of strange and exotic worlds, none of which have been seen up close,” McKinnon said.

Composition, structure, atmospheres, radio occultations and solar-wind interactions will be studied.

Scientists also will count the number of craters present on the surfaces of these bodies. Counting craters will help scientists see the “flux” of smaller objects that once rattled and still are rattling around deep in our solar system.

“Some of these (objects) are destined to approach the Earth as comets, so understanding their home base, so to speak, is important,” McKinnon said.

Pluto is the smallest and perhaps most controversial planet in the solar system. Pluto is approximately two-thirds the size of Earth’s moon, and its surface is covered with nitrogen ice, with smaller amounts of carbon monoxide and methane

ice, as well as dark, reddish (probably organic) matter.

Charon is about half the size of Pluto and shows evidence of a surface dominated by water ice.

Kuiper Belt Objects (KBOs) have different colors; scientists have observed both spectrally gray and red bodies. They also exhibit different compositions; data show the presence of water ice and dark (probably organic) materials.

More than 500 KBOs have been discovered to date, but researchers expect to find thousands before the New Horizons mission gets to the Kuiper Belt.

“Pluto and Charon are, technically speaking, part of the Kuiper Belt (being the largest known bodies there),” McKinnon says, “and New Horizons represents our first exploration of the third major region of the solar system, after the terrestrial planets and the gas giants.”

As the final design for the Pluto-Kuiper Belt Mission nears conclusion, its future remains in question. NASA funded the project design to this point, but President Bush’s new budget does not allot money for missions to the outer solar system.

The New Horizons team will not know until later this year if the mission will go forward as planned. The mission is estimated to cost approximately \$490 million through 2026, which is economical by NASA standards.

# GWB international students set to bring knowledge home

By JESSICA N. ROBERTS

Seven emerging democracies will soon have the benefit of professionally trained social workers as the first class of Open Society Institute (OSI) fellows graduates from the George Warren Brown School of Social Work and the students return to their homelands.

The OSI Fellowship program, part of the Soros foundations network, provides training in social work to students from Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan and Uzbekistan.

OSI is a private grant-making foundation that seeks to promote development and maintenance of open societies around the world through educational, social and legal reform. The goal of the fellowship program is to help these students implement reform, create policy and foster the development of social work in their home countries.

“As the school with the largest number of international students, the George Warren Brown School of Social Work is proud to train this first group of outstanding social work students,” said Shanti K. Khinduka, Ph.D., dean and the George Warren Brown Distinguished University Professor.

“They are destined to play key leadership roles in creating social development institutions in their native countries, and the GWB faculty looks forward to continued communication and interaction with them.”

ment for the country.

The remaining OSI fellows, Natela Phartskladze of Georgia and Victoria Izmailova of Kyrgyzstan, plan to conduct groundbreaking work in their countries based on their areas of study at GWB. Andrey Adilov from Uzbekistan will graduate in August.

The fellows note that their time at the University has been invaluable in their preparation for the future.

“Two years of study at GWB introduced me to the profession of social work, a profession about which prior to coming to here I knew nothing about,” Ismankulova said. “I have learned a great deal about issues of social justice, social welfare policies, human diversity and human behavior. I became acquainted with the specific skills of social work assessment and intervention on individual, group and community levels.

“I am leaving GWB with a feeling of accomplishment in learning a profession that will help me to be a better advocate for social changes in my country.”

Beyond learning the practical tools needed for social work practice, the fellows said their time at the University helped them develop leadership skills and expand their perspectives.

“It has been a wonderful learning experience to study at GWB and to live in St. Louis during these two years,” Ismankulova said. “It has broadened my worldview

**“It has been a wonderful learning experience to study at GWB and to live in St. Louis during these two years. ... I think that GWB really encourages and welcomes diversity among student body, and I am proud that for two years I was a part of this world.”**

GULNARA ISMANKULOVA

immensely and gave me an opportunity to explore my own strengths and capabilities. I think that GWB really encourages and welcomes diversity among student body, and I am proud that for two years I was a part of this world.”

Housseynova also credits the University with giving her a well-rounded experience in the United States.

“The faculty was very considerate and helpful,” Housseynova said. “I also loved working with the students, most of whom were concerned about the further improvement of the GWB community and the people at my practicum site, the psychology department at the medical school, who made a wonderful study team and who valued diversity and social skills.

“I gained friends at GWB, and I strongly believe that I gained them for life.”

Gautam Yadama, Ph.D., associate professor of social work and coordinator of the social and economic development concentration, is excited about the current and future outcomes of the OSI program.

“In the short run, we have a great group of students that we have trained in a way that even they did not envision because they did not know about social work,” Yadama said. “I think the students really benefited from the class work and internships in the field.

“In the long run, the success of this program is predicated on these students impacting their countries in the areas of social development and the creation of social policy infrastructure, both critical for countries undergoing social and economic transition.”

# Sanes

**Elected to National Academy of Sciences**  
— from Page 1

nervous system. During development, each cell must establish multiple connections, called synapses, with other neurons and muscle cells.

Sanes’ research investigates the molecular mechanisms that lead neurons to make the appropriate synapses.

“Developing the proper network of connections in the nervous system allows us to think, feel, move and learn,” Sanes said. “Understanding how these cells determine the appropriate patterns of connectivity will help us understand how the nervous system develops and works in healthy mammals, and also may reveal the underlying cause of neurological

disorders such as schizophrenia.”

Using molecular and genetic methods, Sanes has identified several molecules critical to the formation of synapses. More recently, he has collaborated with others in the Department of Anatomy and Neurobiology to devise new techniques that label neurons with different colors.

Using the latest microscope innovations, he now can watch individual cells in living animals as synapses form. By combining these techniques with molecular tools such as cDNA microarrays — comprehensive lists of active genes in given cells — Sanes now is identifying additional genes involved in various stages of the connectivity process.

Sanes earned a bachelor’s degree from Yale College in 1970 and his doctorate from Harvard Medical School in 1976. He joined Washington University in 1980 after completing postdoctoral research at Harvard Medical School and the Univer-

sity of California, San Francisco.

In addition to his research at the School of Medicine, Sanes also has conducted research at the Institut Pasteur in Paris, the California Institute of Technology and the University of Marseille in France.

Sanes was named the Alumni Endowed Professor of Neurobiology in 1999 and has received many other awards and honors, including the Alden Spencer Award from Columbia University and the McKnight Senior Investigator Award.

He is a fellow of the American Association for the Advancement of Science and is a member of the National Advisory Council for the National Institute of Neurological Disorders and Stroke.

Sanes also is on the editorial boards of several scientific journals, including the *Journal of Neuroscience*, *Neuron*, *Cell* and the *Journal of Cell Biology*. He has authored over 200 research articles.

# Employment

Use the World Wide Web to obtain complete job descriptions. Go to [hr.wustl.edu](http://hr.wustl.edu) (Hilltop) or [medicine.wustl.edu/wumshr](http://medicine.wustl.edu/wumshr) (Medical).

## Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

**Research Technician** 000256

**Research Assistant** 010023

**Senior Medical Sciences Writer** 010108

**Reference/Subject Librarian (Psychology)** 010241

**Director of Annual Giving Programs** 020064

**Senior Site Operator** 020065

**Planned Giving Officer** 020086

**Research Technician** 020183

**Director of Corporate Relations** 020190

**Deputized Police Officer** 020203

**Director, Univ. Development Project & Asst. Director, Principal Gifts** 020208

**Chem/Earth & Planetary Sciences Library Assistant** 020213

**Senior Medical News Writer** 020217

**Coordinator, Program for Technical Assistance** 020218

**Coordinator, Multicultural Student Groups** 020220

**Admissions Counselor** 020223

**Mechanic (Bargaining Unit Employee)** 020227

**Medical Assistant** 020232

**Lab Technician - Part Time** 020234

**Financial Aid Awards Associate** 020238

**Assoc. Dir. of Dev. And Director of Annual Fund** 020245

**Assoc. Dir. of Dev. For Arts & Sciences** 020246

**Pharmacist** 020249

**Asst. Dir. of MBA Admissions** 020250

**Secretary/ Receptionist** 020255

**Registrar** 020257

**Data Entry Processor** 020261

**Director, Engineering Career Services** 020262

**Department Secretary** 020264

**Administrative Aide (Professional Rater)** 020265

**LAN Engineer** 020268

**Administrative Assistant** 021269

**Plant Care Assistant** 020270

**Graduate Tax & International Program Coord.** 020276

**Research Assistant** 020278

**Lab Technician III** 020279

**Research Technician** 020281

**Project Leader/ IS** 020283

**System & Network Administrator** 020284

**Administrative Secretary** 020285

**Grants Coordinator** 020286

**Government Grants Specialist II** 020287

**CFU Accountant (Reporting)** 020288

**Administrative Receptionist** 020289

**Business Development Manager** 020290

**Licensing Case Coordinator** 020291

**Library Technical Asst. - Art & Architecture** 020292

**Manager, MBA Advising** 020293

**Asst. Law Librarian Access Services/ Docs/Ref** 020294

**Coord., Alumni & Student Relations** 020295

**Project Coord., Depression in Comm LT Care** 020296

**Facility & Services Coordinator** 020297

**Assoc. Dir of Development, School of Business** 020299

**Administrative Assistant II** 020301

**Field Coordinator** 020302

**Administrative Assistant** 020305

## Medical Campus

This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

**Research Technician II** 021385

**RN Staff Nurse** 021450

**Research Technician I** 021451

**Senior Research Technician** 021453

**Medical Secretary II** 021456

**Departmental Accounting Asst.** 021457

**Medical Secretary III** 021459

**Clinical Research Nurse Coordinator** 021461

**Clinical Research Nurse Coordinator** 021462

**Administrative Coordinator** 021463

**Administrative Coordinator** 021464

**Insurance, Billing, Collections I** 021465

**User Support Assistance I** 021466

**Insurance Billing & Collection Asst. I** 021467

**Professional Rater I** 021468

**Research Technician II** 021470

**User Support Analyst II** 021471

**Supervisor: Patient Services Operations** 021472

**Research Technician II** 021475

**Analyst: Financial/Project Management** 021476

**Coordinator: Protocol** 021478

**Insurance Billing & Collection Asst. II** 021479

**Research Patient Coordinator** 021287



## Notables

### Of note

**Mladen Victor Wickerhauser**, Ph.D., professor of mathematics in Arts & Sciences, received the 2002 Wavelet Pioneer Award from International Society of Optics. Wickerhauser then gave the keynote address at the society's spring Aerosense meeting. ...

**Henry I. Schvey**, Ph.D., professor and chair of the Performing Arts Department in Arts & Sciences, delivered a paper titled "The Lady From the Sea: A Re-interpretation of *Twelfth*

*Night*" for the Directing Symposium at the 22nd Annual Mid-America Theatre Conference. Based on his recent production of that play for the PAD in Edison Theatre, the paper was part of a panel on "Shakespeare in Production: First Hand Experience." Schvey also chaired a session on "Revisiting Modern Classic Texts" for the Directing Symposium. ...

**Cynthia Weese**, dean of the School of Architecture, received the gold medal of the Grand Chapter of the Tau Sigma Delta Honor Society in Architecture and the Allied Arts. Weese recently delivered the Tau Sigma Delta

Plenary Lecture at the 2002 meeting of the Association of Collegiate Schools of Architecture in New Orleans, with the award presentation immediately following. ...

**Jacqueline Tatom**, assistant professor in the School of Architecture and co-director of the new Master of Urban Design postgraduate degree program, recently participated in a panel discussion on "Urban Design Premises" at the national conference "Urban Design: Practices, Pedagogies, Premises" in New York City. The conference was sponsored by Columbia University's

Master of Architecture and Urban Design Program, Harvard University's Graduate School of Design and the Van Alen Institute: Projects in Public Architecture, with funding from the National Endowment for the Arts, The Graham Foundation for Advanced Studies in the Fine Arts and The Musser Fund. ...

**Marc R. Moon**, M.D., assistant professor of cardiothoracic surgery in the School of Medicine, received a three-year, \$808,500 grant from the National Heart, Lung, and Blood Institute for research titled "Pathophysiology and Treatment of Pulmonary Hypertension."

### Memorial for Bowyer moved

The location of the memorial reception to celebrate the life of John W. Bowyer, professor emeritus in the Olin School of Business, has changed.

Originally scheduled for Schneithorst's, the reception now will be held on the Hilltop Campus from 7:30-10:30 p.m. May 4 in the Charles F. Knight Executive Education Center.

### Biology's Patel winner of Spector Prize

By TONY FITZPATRICK

**K**unal Patel, a graduating senior in biology in Arts & Sciences, has won the 2002 Spector Prize, awarded to the most outstanding honors thesis.

Patel's thesis, "Interleukin-1a Primes Epithelial Anti-bacterial Responses," was judged most outstanding among 22 honors theses. As part of the departmental recognition of his work, Patel presented a research talk at a special biology department seminar.

Each year, the Department of Biology awards a prize in memory of Marion Smith Spector, a 1938 alumna who studied zoology under the late Victor Hamburger, Ph.D. The Spector Prize began in 1974 to recognize academic excellence and outstanding undergraduate achievement and research.

Patel performed his thesis work in the lab of Scott J. Hultgren, Ph.D., the Helen Lehbrink Stoeber Professor of Molecular Microbiology. Patel's studies examined the ability of different strains of *E. coli*, a

common agent of urinary-tract infections, to evoke immune responses in two different epithelial cells found in the human urinary tract: those of the bladder and those of the kidney tubule.

The data suggests that the host's response to urinary-tract infections is a continuum between too little response and too much, and that the "right" response is situationally defined by physiological differences between the bladder and kidney. This work is being submitted for publication in a top journal.

Patel plans to pursue a career in medicine, probably involving medical research. He is still deciding between applying to M.D. or M.D./Ph.D. programs.

He plans to spend next year performing community-outreach activities with AmeriCorps. Patel will move to Maryland, where he hopes to be involved with the Maryland Medbank Program, a resource that helps provide drugs important for medical treatment of low-income patients.



**A walk in (front of) the park** As the busy season winds down, tour guides Rachel Flynn (left) and Elizabeth Grieser (right) prepare to lead one of the last spring tours for prospective University students and their parents. An estimated 1,000 prospective students took the tours in April, which are offered by the Office of Admissions and are led by members of the Student Admissions Committee. During April, the admissions office stays open seven days a week and offers three daily tours Monday-Friday. More tours are offered on weekends, as many students are on campus as part of April Welcome, for admitted high school seniors, or other interested students — high school juniors or sophomores — who are just beginning their college search.

## Arts & Sciences to present five alumni awards; Dean's Medal

**A**rts & Sciences will recognize the achievements of its alumni and a special friend at 4 p.m. May 10 in Holmes Lounge in Ridgley Hall.

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, will present Distinguished Alumni Awards to five Arts & Sciences alumni who have attained distinction in their academic or professional careers and have demonstrated service to their communities and to the University.

Macias also will present the Dean's Medal to James W. Davis, Ph.D., professor of political science in Arts & Sciences and director of the Teaching Center, for his support and dedication to Arts & Sciences.

The five alumni being honored are Frank S. Buzard, A.B. '43; Leslie F. Loewe, A.B. '42; Marylen Mann, A.B. '57, M.A. '59; Melvin Lee Oliver, M.A. '74, Ph.D. '77; and Russell S. Schwartz, A.B. '77.

When **Col. Frank Buzard** retired from the Air Force in 1972 after a 29-year military career, he was awarded the Distinguished Service Medal, the nation's highest noncombat award. In 2000 he was honored as a Pioneer of National Reconnaissance and in 2001 he was inducted into the Air Force Space and Missile Pioneers Hall of Fame.

After completing the advanced ROTC program and graduating from Washington University, Buzard began his military service during World War II. He was commissioned in the Army Anti-Aircraft Artillery before transferring to the Signal Corps.

In 1958, he joined the Air Force's first satellite reconnaissance program, directing the integration of all Air Force and contractor activities supporting Discoverer/CORONA satellite operations and overseeing the launch and operation of 62 Discoverer/CORONA spacecraft.

In 1966, he led the successful development of a higher resolution photographic reconnaissance system. The system's performance made possible the monitoring of the 1972 SALT I arms-control treaty.

**Les Loewe**, who has read four to five books a week since he was nine years old, began a long career at Angelica Corp., a uniform-manufacturing company in St. Louis, in 1947 after earning his bachelor's degree in political science from Washington University and master's degree in business from Harvard University.

Loewe advanced steadily at Angelica at the same time the company was growing through acquisitions of businesses, including retail stores, mail-order companies and hospital service laundries. In 1973 he was appointed one of two executive vice presidents of the company; in 1980 he became chairman and chief executive officer, a position he held until his retirement in 1990.

Loewe's service to Washington University includes years of participation in the Weidenbaum Center on the Economy, Government and Public Policy; membership in the Eliot Society; and funding for the Les and Carol Loewe Scholarships in

Business. In 2000 he established a charitable gift annuity to the University.

**Marylen Mann**, a philosophy major who earned a master's in education, is co-founder and president of the OASIS Institute, a nonprofit organization established in 1982 to nurture the mind, health and spirit of independent, active adults aged 50 and up. Her efforts have earned her the Surgeon General's Bronze Medal Award.

Run by a public/private partnership, OASIS operates five days a week in 26 cities across the country, offering substantive programs in areas ranging from the arts and sciences to finance, health, and volunteerism. Trained OASIS volunteers have also tutored more than 100,000 children in kindergarten through the third grade in reading and language.

Her work with older adults has been part of 19 research projects, has received dozens of grants and has been the subject of numerous scholarly publications and workshops.

Mann is active in the University's Center for Aging and is on the National Council for the George Warren Brown School of Social Work.

**Melvin L. Oliver**, Ph.D., is a first-generation college graduate whose working-class parents instilled in him the importance of higher education. After earning his master's and doctoral degrees in sociology at the University, Oliver turned to rigorous research, teaching and professional service on behalf of social justice. From 1977 until

1999, he taught at the University of California at Los Angeles, where he helped build the interdisciplinary program in African-American studies and co-founded and directed the Center for the Study of Urban Poverty.

His landmark work, *Black Wealth/White Wealth: A New Perspective on Racial Equality* (New York: Routledge, 1995), written with Thomas Shapiro, is one of only two books in the history of American sociology to win the profession's distinguished scholarship award and an award from the activist Society for the Study of Social Problems.

As vice president for the Ford Foundation's Asset Building and Community Development Program, Oliver implements his ideas about the importance of asset building for reducing poverty.

**Russell Schwartz**, executive vice president for creative affairs, business and planning at AOL Time Warner's Home Box Office Independent Productions (HIP), has overall business and creative supervision for the primarily comic shows — like *Everybody Loves Raymond* — that HIP produces for the major networks.

As senior vice president for merchandising and licensing for all of HBO, Schwartz also oversees HBO Properties, which handles merchandising for *The Sopranos*, *Sex and the City*, and *Six Feet Under*, for sports programming; for documentaries and family programming; and for television movies and miniseries.

Schwartz, a history major at the University who earned a law degree from Cornell University, is

a member of the Arts & Sciences National Council, vice chair of the Los Angeles Regional Cabinet, and an Eliot Society member. He co-chairs his regional campaign committee and serves as a 2002 Reunion co-chair. He and his wife, Susan Goland, sponsor two annual scholarships and an endowed scholarship.

**Jim Davis**, Ph.D., has probably served in as many critical campus positions as anyone in institutional memory. Teacher, mentor, scholar, writer, colleague, leader and guide, Davis has taught or team-taught courses in four schools on the Hilltop Campus. He has been associate provost (1978-1980); associate dean of the College of Arts & Sciences (1978-1980); vice chancellor for student affairs and admissions (1980-86); and acting dean of the School of Fine Arts (1989). He is now a faculty associate in Small Group Housing.

As director of the Teaching Center, Davis oversees assistance, consultation and services that enhance the teaching skills of graduate teaching assistants and faculty members.

Davis has taught a variety of courses dealing with politics and public policy, including the American presidency, politics and the media, and national security and defense policy. He has twice received the Award for Teaching Excellence from the Council of Students of Arts & Sciences (now called the ArtSci Council). In 1997 he received a Distinguished Faculty Award at the University's Founders Day.



## Washington People

**L**ois A. Hengehold summarizes her job as executive assistant to William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, with two words: "Very busy."

Peck, she said, "receives an awesome number of phone calls, e-mails and requests daily, and many of those trickle back to myself and other staff for resolution." Resolving them usually entails tracking down additional information or channeling the inquiry to a more appropriate person.

Then there are the interactions with standing committees and department heads seeking counsel, the inquiries from board members and people needing recommendations, the attention to ongoing projects ... and the list goes on.

"Twenty or 25 different things might pass through your hands daily," she said. "It's fast-paced and ever-changing, and I thrive on that."

Indeed she does.

"Lois is a very nice person who cares greatly about the institution and everyone she interacts with," Peck said. "She is extremely smart and enthusiastic, learns quickly and works effectively on her own,



Lois Hengehold (left), executive assistant to Dean William A. Peck, M.D., with Lorie Mellen, scheduling and travel secretary to the dean, review the minutes and agenda for a recent executive faculty meeting.

## A model for efficiency

In the dean's office in the School of Medicine, Lois Hengehold tackles ever-changing challenges, community-service projects

By DARRELL E. WARD

and she adapts and innovates.

"She is one of the most efficient people I've ever met."

From time to time, Hengehold takes on large projects in areas that need improvement. Some time ago, for example, she streamlined and computerized the process for academic appointments and promotions.

"The new system saves a tremendous amount of paper and has speeded the promotions process for faculty," said Nancy Parker Tice, special assistant to the dean and Hengehold's supervisor.

"If something needs to get done, Lois makes sure it happens," Tice said. "If she knows the dean needs something from three years ago to make a decision, she'll hunt it done and provide it before he asks for it."

Over the years, Hengehold has learned two important lessons from her work in the dean's office. First is patience.

"If something isn't moving forward because you're waiting for someone to respond or for materials to arrive, it doesn't help to get upset about it," Hengehold said. "Be patient, and it will happen."

Second, she said, "You don't have to know everything yourself, but you do have to know where to find it."

When co-workers need information about the medical center or Hilltop Campus, they know where to go first: Hengehold. She has an encyclopedic knowledge of the University.

"It's information picked up through our interactions with the Hilltop community and with the different departments in the school, the hospital and BJC," she said modestly, but it demonstrates her devotion to the University.

The most satisfying part of her job, Hengehold said, is completing a project and having it turn out well. But the most personally fulfilling aspect of her work on behalf of the medical center is spearheading drives to benefit the community of Forest Park Southeast, a neighborhood on the southern periphery of the campus

that is being restored in part through a grant awarded to the medical center.

The project has resulted in the rehabilitation of homes and construction of a school, ballpark, community center and senior center.

During the past two years, Hengehold has organized a number of drives. They began with a mid-summer project seeking donations of school supplies for the community's children. The medical center community gave generously, providing an ocean of pens, pencils, paper, folders, markers, glue sticks and tissue paper — everything the children would need.

An Easter basket drive was equally successful. Recently, a drive was held to collect socks, slippers, crafts and games for the senior center.

But among these labors of love, Hengehold's favorite is the annual Washington University School of Medicine Central Administration Cookbook, a compilation of favorite recipes provided by people in central administration. The effort begins in October and involves a dozen campus volunteers who collect recipes and type, format and proofread the text.

A general cookbook was offered first, then a dessert book last year. Hengehold isn't sure yet what specialty the 2002 edition will present.

Five hundred copies of the \$5 spiral-bound book are made before Christmas, usually selling out in a week. All proceeds go to families in Forest Park Southeast, mainly to buy food or food gift certificates.

Hengehold works with a social worker in the community to identify the most needy homes.

"For many of these families," Hengehold said, "that's their ticket to a nice holiday meal. We've gotten some wonderful letters from families saying, 'I couldn't have gotten my children anything had you not helped.'"

Hengehold was born in Edwardsville, Ill. Her father installed heating and air condi-

tioning equipment, and her mother managed an elementary-school cafeteria. "She's a wonderful cook and baker and an heirloom-quality quilter," Hengehold said.

As a teen-ager, Hengehold planned to become a nurse. "But in those days, it wasn't common for girls to go on to higher education," she said.

She took several business courses in high school, did well and enjoyed them. She graduated from Edwardsville High School with high honors, and three days later went to work for the federal government in St. Louis.

Hengehold came to the University in 1990 from Scott Air Force Base, world headquarters for the Military Airlift Command, in Belleville, Ill. She lives in Glen Carbon, Ill., with her husband, Ken.

They celebrated their 29th anniversary on Easter and have four grown children and three grandchildren. Two of the grandchildren now play baseball,

basketball and soccer, and one of Hengehold's joys is watching them progress from year to year.

And when Hengehold's not watching the grandkids play, she's likely to be watching the Cardinals, Blues or Rams.

"I'm an avid sports fan," she declared. She's *not*, however, a sports-party person. "I don't even like Super Bowl parties," she said. "I like to focus on the game."

She also enjoys traveling and reading, especially about the Civil War. She and her husband have made several trips through the South to visit Civil War monuments, battlefields and historic sites. They've also been to Asia, Europe and the Caribbean Islands.

Hengehold also enjoys stitching quilt blocks, which her mother then hand-quilts for her. When she retires, Hengehold plans to do more quilting. For the time being, though, she enjoys her work at the University.

"Every day is a different challenge," she said, "and that's the way I like it."



Ken and Lois Hengehold (front) are surrounded by many of their family members.

### Lois Ann Hengehold

**Title:** Executive assist to the executive vice chancellor for medical affairs and dean of the School of Medicine

**Years at the University:** 12

**Born:** Edwardsville, Ill.

**Hobbies:** Watching the Cardinals, Blues and Rams; reading, travel and stitching