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Record

Dec. 13, 2002

Volume 27 No. 15



Washington University in St. Louis

Shapiro to lead School of Medicine

Succeeds Peck as executive vice
chancellor for medical affairs, dean

By KIMBERLY LEYDIG

Larry J. Shapiro, M.D. — an internationally renowned research geneticist and pediatrician associated with the University of California, San Francisco, School of Medicine — will become Washington University's executive vice chancellor for medical affairs and dean of the School of Medicine July 1, according to Chancellor Mark S. Wrighton.

Shapiro will succeed William A. Peck, M.D., who last year announced his intention to retire as dean and executive vice chancellor,

effective June 30, 2003.

Peck — a worldwide osteoporosis expert and recognized leader in public policy issues related to academic medicine — was the first person to serve as both medical school dean and executive vice chancellor for medical affairs, a dual appointment he has held for 13 years.

Peck will lead an effort to establish a center for health policy at the University, and he will continue as the Alan A. and Edith L. Wolff Distinguished Professor in Medicine.

"I am delighted that a person

of Larry Shapiro's stature and experience will assume the role of executive vice chancellor and dean of one of the world's leading schools of medicine," Wrighton said. "He is an accomplished teacher, a groundbreaking scientist and a strong administrative leader. I know he will build upon our strengths in biomedical research and clinical care, and upon the progress made under the leadership of Bill Peck."

Shapiro's appointment was endorsed by the Board of Trustees at its Dec. 6 meeting. (See story, Page 2.) The search committee that recommended him was chaired by Richard H. Gelberman, M.D., the Fred C. Reynolds Professor of Orthopaedic Surgery

See Shapiro, Page 6



Attending a Dec. 6 reception at Harbison House are (from left) William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; Chancellor Mark S. Wrighton; and Larry J. Shapiro, M.D., who on July 1 will succeed Peck.

Arts center to be named for Sam Fox

Two new buildings,
renovations to three
foster collaboration

By LIAM OTTEN

The University will name a new \$56.8 million campus center for the visual arts and design in honor of Sam Fox, one of St. Louis' most prominent civic and philanthropic leaders and one of the University's staunchest supporters, Chancellor Mark S. Wrighton announced Dec. 7.

The Sam Fox Arts Center links three academic units — the School of Architecture, the School of Art and the Department of Art History and Archaeology in Arts & Sciences — with the University's nationally recognized Gallery of Art and Art & Architecture Library.

The center's facilities will include two new buildings — an art museum and a second building for the School of Art — designed by Pritzker Prize-winning architect Fumihiko Maki. These new buildings will be integrated, also according to Maki's design, with three renovated structures: Bixby, Givens and Steinberg halls.

This integration will produce new opportunities for research, interdisciplinary study and teaching in visual arts and design.

Renovations to Bixby and Givens halls have been completed. Renovation of Steinberg Hall and construction of the new buildings will begin when funding has been secured.

Fox, who has described the University as "the place where the whole world came alive for me," is the founder, chairman and chief executive of Harbour Group Ltd., a privately owned company specializing in the acquisition and development of manufacturing companies for long-term investment.



Fox

A 1951 business graduate of the University, he is an emeritus trustee and chairman of the public phase of the \$1.3 billion Campaign for Washington University.

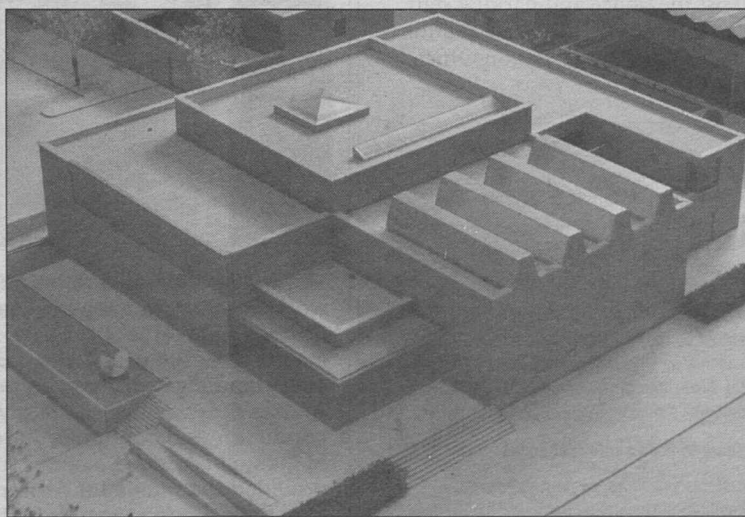
He and his wife, Marilyn, have long been active in numerous business, civic and cultural organizations. They and their family foundation support many causes.

"Sam Fox is among Washington University's most loyal and dedicated supporters," Wrighton said, "and we are deeply indebted

to him for his longstanding generosity and his many years of devoted service. Sam truly believes there is nothing more important to the future of our nation than educating our young people, and his commitment to the University is inspiring to even the most dedicated of our supporters. He is the very embodiment of the generosity



The Sam Fox Arts Center, as seen in this model looking northeast, will comprise three renovated, existing buildings — (foreground, from left) Givens, Steinberg and Bixby halls — and two new structures — (background, from left) the Museum Building and the School of Art Building.



The 65,000 gross-square-foot Museum Building, viewed here looking southeast, will be the new home of the Gallery of Art, which will be renamed the Museum of Art.

ty of spirit that has made Washington University the world-class institution it is today.

"It is with great pleasure that

we are able to recognize Sam's special relationship with Washington University by naming
See Center, Page 5

Webcasting could 'spread like wildfire'

By TONY FITZPATRICK

Like many fans of the University's volleyball team, Alan Norman, assistant dean for information technology in the School of Engineering & Applied Science, was disappointed when the Bears hit the road.

He had to wait — sometimes for days — for any comprehensive story on the team's success, or lack thereof.

Norman, however, realized he might be able to do something about that.

Last summer, he assembled a webcasting team, called BlueStream, to explore the many ways that streaming video on the Web can enhance learning and networking capabilities at the University.

Beginning with a colloquium series sponsored by the Department of Mechanical Engineering, the team broadcast and taped lectures by David A. Peters, Ph.D., the McDonnell Douglas Professor of Engineering and chair of mechanical engineering, and assistant professors Guy M. Genin, Ph.D., and Michael Swartwout, Ph.D.

The team archived the lectures in part for the University's upcoming sesquicentennial celebration. With each lecture, BlueStream improved its camera and

See Webcasting, Page 6

Happy holidays

The Record will not be published again until the beginning of the spring semester. Our next issue will be Jan. 17.



Trustees endorse appointment of Shapiro, elect Lemkemeier

At its Dec. 6 meeting, the Board of Trustees elected Ned O. Lemkemeier as an Ethan A.H. Shepley trustee and endorsed the appointment of Larry J. Shapiro, M.D., as the University's executive vice chancellor for medical affairs and dean of the School of Medicine, effective July 1.

The announcements were made by Chancellor Mark S. Wrighton.

The meeting opened with Wrighton's introduction of Shapiro and unanimous trustee approval of his appointment.

Trustee David C. Farrell, a member of the search committee, moved for the appointment after Wrighton's introduction and a report by the search committee chair, Richard H. Gelberman, M.D., the Fred C. Reynolds Professor of Orthopaedic Surgery and head of that department. (See story, Page 1.)

Lemkemeier is a partner in the law firm of Bryan Cave LLP, where he has served since 1985. A 1962 graduate of the School of Law, he received a Distinguished Alumni Award in 1994.

Previously, he served as the alumni representative to the Board of Trustees from 1996-98. He also chairs the Law School's National Council and served as chairman of the Alumni Board of Governors in 1997-98.

Lemkemeier graduated from University City public schools in 1955 and then earned an undergraduate degree from Wesleyan University in 1959.

Prior to joining Bryan Cave, he served as an attorney for the Monsanto Co. and then as a partner with Spoehr and Lemkemeier.

In his report to the trustees, Wrighton announced that the University will name its new arts center — now in the planning stages — after Sam Fox in recognition of his exceptional commitment, leadership and generosity to the University.

Fox is the chairman and chief executive officer of Harbour Group Ltd. and chairman of the Campaign for Washington University.

The Sam Fox Arts Center will

link five units of the University — the School of Architecture, the School of Art, the Department of Art History and Archaeology in Arts & Sciences, the Gallery of Art and the Art & Architecture Library. (See story, Page 1.)

Wrighton announced that the J.E. and L.E. Mabey Foundation of Tulsa, Okla., has awarded the University a \$1 million challenge grant for the Sam Fox Arts Center. The University, in turn, must raise \$5.8 million to receive the grant. (See story, Page 5.)

Wrighton also reported that four faculty were appointed to newly endowed professorships, that undergraduate applications continue at a high pace with campus visits setting a new record and prospect qualifications the highest on record.

The chancellor gave an update on facilities construction, with the Uncas A. Whitaker Hall for Biomedical Engineering slated for occupancy in mid-December.

Construction is progressing on schedule for the new Earth & Planetary Sciences Building, the 276 N. Skinker Building and a new residence hall on the South 40. Renovations and expansion of Olin Library are making excellent progress, Wrighton said.

The chancellor announced that the volleyball team won the NCAA Division III central regional championship, the NCAA quarterfinals, and would compete for the national championship at the University of Wisconsin-Whitewater. (See story, Page 6.) Rebecca Rotello, a senior setter, has been named the Division III national player of the year.

Wrighton noted that the football Bears won their second consecutive University Athletic Association championship and achieved their 10th consecutive winning season.

The basketball Bears — both men and women — are ranked No. 1 in the nation. Both men's and women's teams won their respective classics — the Lopata and McWilliams tournaments — to both improve to 5-0.

The trustees also heard a pres-

See **Trustees**, Page 7



Keeping children warm Rebecca Fierberg (center), a first-year student in the George Warren Brown School of Social Work, works with Frieda Topfer (left) and Gert O'Neill, members of a knitting group Fierberg formed at the Crown Center for Senior Living, a residence for low-income seniors. The group, formed as part of Fierberg's practicum studies, makes hand-knit and hand-crocheted blankets to be donated to Project Linus, a nationwide organization that provides blankets to children in need.

Computer science reorganizes to include computer engineering

BY TONY FITZPATRICK

As of July 1, the Department of Computer Science has assumed complete responsibility for all computer engineering programs in the School of Engineering & Applied Science.

The reorganization also entailed a name change to the Department of Computer Science and Engineering.

The renamed department continues to offer its full range of educational opportunities in computer science while providing the same range of programs in computer engineering as well.

Professor Gruia-Catalin Roman, Ph.D., who chaired the computer science department,

now serves as chair of the Department of Computer Science and Engineering.

The University's computer engineering program, which dates back to the late 1970s when it was a joint program in electrical engineering and computer science, studies the relationship between hardware and software and related systems-level concerns that arise in the design, development and application of computers.

The primary educational goal of the program is to provide students with a solid knowledge about the process of designing modern computer systems.

As part of the reorganization, three computer engineering fac-

ulty members who previously had appointments in the Department of Electrical Engineering have joined the Department of Computer Science and Engineering.

They are associate professors Roger D. Chamberlain, D.Sc., William D. Richard, Ph.D., and Frederick U. Rosenberger, D.Sc.

Mark A. Franklin, Ph.D., the Hugo F. and Ina Champ Urbauer Professor of Engineering, who for many years held a joint position in electrical engineering and computer science and was instrumental in establishing the computer engineering program at the University, is now a full-time faculty member in the newly named department.

Free vehicle inspections offered for travelers

BY ANDY CLENDENNEN

On Dec. 14, University Police and the Department of Parking and Transportation, in partnership with Hartmann's Towing, will once again sponsor a free traveler's vehicle inspection service to students, faculty and staff.

People traveling by car for the holiday break can bring their vehicle to the parking lot on the west side of University Police Headquarters on the South 40 between noon-4 p.m. for a free inspection.

Staff will check tire pressure, fluid levels, wipers, headlights and

taillights. Local businesses have donated oil and windshield-washer fluid to allow fluids to be topped off before traveling.

"Too often we all neglect to check our vehicles before taking off on a trip," Chief of Police Don Strom said. "This is a great, quick and easy opportunity for members of our campus community to get their vehicles inspected and help ensure they have a safe trip over the upcoming holidays."

The WUPD Bear Patrol will assist the police and parking staff.

For more information, call the WUPD Crime Prevention Office at 935-5084.

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PICTURING OUR PAST



The University has a rich tradition of bringing in some of the finest musicians in the world for performances or teaching positions. Several entertainers, including Ray Charles (above) in the 1950s, have performed either at the University or at student events over the years. Duke Ellington performed at Brookings Quadrangle in the 1960s and also received an honorary degree; Doc Severinson, Wynton Marsalis and Andres Segovia also have given noteworthy performances at the University. Noted conductor and composer Aaron Copland was a visiting lecturer in the Department of Music in Arts & Sciences in the 1950s, and the Saint Louis Symphony Orchestra provided the music for Arthur Holly Compton's 1946 installation as chancellor. Other performers who have made stops at the University include R.E.M., Warren Zevon, Laurie Anderson and the Peking Opera. This year, Edison Theatre is celebrating its 30th anniversary with a standout OVATIONS! Series lineup, which will bring several more accomplished musicians and performance artists to the Hilltop Campus. For a schedule, go to edisontheatre.wustl.edu.

Washington University will be celebrating its 150th anniversary in 2003-04.

Special programs and events will be announced as the yearlong observance approaches.



Washington University in St. Louis

WASHINGTON UNIVERSITY IN ST. LOUIS
150 years
1853-2003

Treasuring the Past
Shaping the Future

School of Medicine Update

The gift of life Custodial services sponsors blood drive

By KIMBERLY LEYDIG

It was past midnight on a cold and dark November night. But the bleak weather didn't stop Gregg Evans, manager of custodial services in the School of Medicine, and Michael DeBaun, M.D., assistant professor of pediatrics, from engaging medical school custodians in a presentation about sickle cell disease — an inherited red-blood cell disorder that affects nearly one in 300 African-American infants.

After reading a news release about the expansion of the Charles Drew Program to increase African-American blood donations, Evans thought sponsoring a blood drive for his 125-person staff — which is 95 percent African-American — was a great way to get them involved in the University community.

"We have great people on our staff, but they never really have been exposed to the University experience (because of their mid-night-to-morning shift)," Evans said. "Mike came in the middle of

the night to talk about sickle cell and explained how they can help save a child."

DeBaun told the packed auditorium that children with sickle cell often have subtle differences in red-blood cell proteins that make it more likely that the best-matched donor will come from someone with a similar ethnic background.

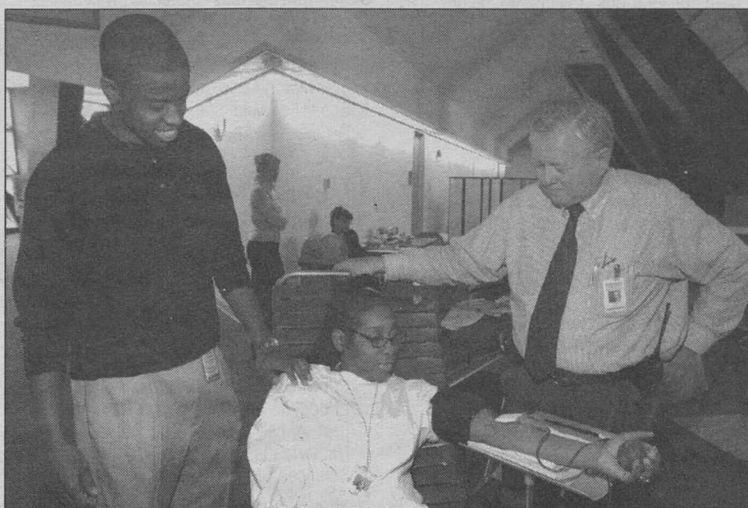
The ability to provide ongoing blood-transfusion therapy is vitally important for children with sickle cell and strokes, the most feared complication of the disease because it requires frequent blood transfusions — sometimes 15-25 per year.

Once DeBaun finished his talk, dozens of custodians signed up for the blood drive. Several of them knew kids with sickle cell; others just embraced the opportunity to help a child.

"The talk made it really personal because it was for us," said Rodney Brown, a custodial services supervisor who had not given blood since high school. "I was really motivated by Gregg's spirit and his efforts to get us involved

Gift-giving season

Blood donations are notoriously low in December. For details about giving blood, call 800-GIVE-LIFE.



Pediatric research patient coordinator Andre Watkins (left) and manager of custodial services Gregg Evans lend support to lead custodian Mary Grady while she donates blood.

with the University. It also appealed to my sense of duty. I wanted to do something to help sick kids."

DeBaun added, "Increasing awareness is critical to increasing the African-American blood supply. Education inspires people to help."

For kid's sake

Just before dawn Dec. 6, the American Red Cross set up the premiere Department of Custodial Services Charles Drew Blood

Drive. The goal for the blood drive was 20 units.

"What really impressed me was that I didn't have to call and remind anyone; they were lining up at 5:30 a.m., ready to give," Evans said. "I am so proud of my crew for the great effort they made to support one of our own doctors."

Christine Culligan, the Red

Cross donor-requirement manager who ran the drive, explained that first-time Charles Drew drives usually draw about 25 people.

The School of Medicine drive lured 51 people — 18 of whom were first-time donors.

"What really touched me was that a lot of people who'd never given blood before — because they weren't aware of the need — overcame their fears and donated," Culligan said. "We normally see a 5 percent participation rate, but more than 25 percent participated."

DeBaun believes the lack of awareness and the paucity of partnerships within the community are largely responsible for the low African-American blood supply. Through the Charles Drew community awareness program, DeBaun's team aims to increase African-American blood donations in Missouri by 300 percent over the next three years.

The impact of the initial Charles Drew campaign has been stunning. In the early 1990s, African-Americans donated only 1,200 units of blood annually. Now, approximately 9,000 units of African-American blood are collected every year in St. Louis.

Mouse genome blueprint published

By DARRELL E. WARD

University researchers, working with a large team of international investigators, have published a draft sequence of the mouse genome — the genetic blueprint of a mouse — and an analysis comparing the mouse and human genomes.

The study appears in the Dec. 5 issue of the journal *Nature*.

The achievement is a landmark advance for the Human Genome Project. It is the first time that scientists have compared the contents of the human genome with that of another mammal.

This milestone is especially significant because the mouse is the most important animal model in biomedical research.

"The mouse genome sequence will give us a detailed molecular understanding of this important experimental animal," said lead author Robert H. Waterston, M.D., Ph.D., the James S. McDonnell Professor of Genetics and director of the Genome Sequencing Center. "This in turn should lead to a new understanding of human disease and effective new therapies."

John D. McPherson, Ph.D., associate professor of genetics and leader of the University's mouse sequencing team, compared the

mouse sequence to the Rosetta Stone. "Although we have the human genome sequence in hand, we don't have the ability to read it all," he said. "Now we can compare the mouse to human, enabling us to identify important areas of the human genome."

The investigators found that the two genomes had fewer differences than expected. The mouse genome is about 14 percent smaller than the human genome, but the number of genes and the types of genes are similar.

"One might expect to find one group of genes that makes a mammal a mammal, another group that makes us human and third group that makes a mouse," said McPherson. "But that's not the case. We have most genes in common."

The study also found that the mouse genome is specialized in the areas of smell, reproduction and immunity. Comparison of the two genomes further revealed important regions in the human genome because they have been conserved through the 75 million years of evolution that separates humans and mice.

Michael R. Brent, Ph.D., associate professor of computer science, led one of the teams analyzing the mouse sequence. Brent's team developed methods for comparing the mouse and human

genomes that improved the identification of genes in both species.

The location of human genes is generally determined by their similarity to known genes. But Brent's team used statistical pattern recognition methods and genome sequence information only to identify more than 1,000 previously unknown genes that mice and humans share.

"Working with the mouse genome, we've developed techniques needed to help identify the remaining unknown genes in the human genome," Brent said. "As more mammalian genomes are sequenced, we can use these techniques to analyze that data to help complete the catalogue of human genes."

The mouse genome sequence shows the order of the DNA chemical bases — often represented by the letters A, T, C and G — along the 20 chromosomes of a female mouse.

The draft sequence was assembled by the Mouse Genome Sequencing Consortium, an international team of scientists at Washington University, the Whitehead Institute, the Wellcome Trust Sanger Institute and the European Bioinformatics Institute in England.

International scientists from 27 institutions also helped analyze the sequence information.



Holiday blessings Respiratory therapist Donna Petersen plays with 3-year-old Kelli Neal alongside the St. Louis Children's Hospital Christmas tree. Kelli visits every six months from Phoenix to see Maite de la Morena, M.D., assistant professor of pediatrics, after receiving a lung transplant when she was an infant. Before the transplant surgery, Petersen flew to Arizona to help transport Kelli, who was then on a special ventilator, to St. Louis. "She's doing great," says her proud dad. "Look at the way she runs around. You'd never guess that she's had a lung transplant. She's a miracle baby."

Brain preserves ability to feel and move after spinal cord injury

By GILA Z. RECKESS

In an imaging study with Christopher Reeve, School of Medicine researchers have found that brain regions involved in movement and feeling appear to remain relatively healthy and active even years after the body has been paralyzed.

A team of investigators found that five years after complete paralysis from a severe spinal cord injury, areas of the brain normally responsible for some movements and feelings have maintained those capabilities.

"The fact that there is stability

in the brain despite a lack of input from the body is very good news," said Maurizio Corbetta, M.D., head of stroke and brain injury rehabilitation. "However, longer studies with more patients will have to be conducted to learn more about what this means for recovery after spinal cord injury."

Corbetta, who also is associate professor of neurology, of radiology and of anatomy and neurobiology, led the study along with Harold Burton, Ph.D., professor of anatomy and neurobiology, of cell biology and physiology and of radiology.

The findings are available online and will appear in the Dec. 24 issue

of the *Proceedings of the National Academy of Sciences*.

The team used functional magnetic resonance imaging to compare patterns of brain activity in Reeve, a quadriplegic, versus a healthy participant.

Reeve first was tested in 2000, shortly after he began to recover minimal movement, and again four more times over the next two years.

In the current study, brain images first were taken to measure participants' response to touch. A massage vibrator was applied either to the left hand or the left foot.

The second task tested brain activity during movement. Partici-

pants followed the image of a tennis ball with either their tongue or their left index finger.

Brain activity in the healthy individual was normal during both tasks. Remarkably, Reeve's brain activity also was close to normal during the movement task and during foot vibration, though slightly stronger and more widespread than in the healthy participant.

"Even though Chris had not been able to move or feel for five years, patterns in the brain were relatively normal," Burton said. "That's very encouraging because it means that this part of the brain doesn't disappear or lose its ability to func-

tion properly. The key might be that a small portion of his spinal cord still is intact."

Reeve's brain did, however, exhibit some signs of reorganization. Specifically, hand vibration did not produce activity in the hand region on the right side of the brain, but instead resulted in activation in other areas, such as the right post-central sulcus and the posterior post-central gyrus.

"Although there was some reorganization, we also found that a large part of the brain preserved its normal way of functioning," Corbetta said. "We never expected to see such dramatic conservation."

University Events

Yellow Swelling • A Dog Named Flint • Why Fly Eye?

"University Events" lists a portion of the activities taking place at Washington University Dec. 13-Jan. 23. Visit the Web for expanded calendars for the Hilltop Campus (www.wustl.edu/calendar) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibitions

School of Art Sculpture Major Area exhibition. *Take With Food.* Through Dec. 13. Mossa Center, 1214 Washington Ave. 725-8881.

Bill Kohn: A Forty-Year Retrospective. Bill Kohn, professor emeritus of art. Through Jan. 2. Presented by the School of Art. Des Lee Gallery, 1627 Washington Ave. 621-8735.

Lectures

Friday, Dec. 13

9:15 a.m. Pediatric Grand Rounds. "Serendipity, Science, and Surfactant Protein B: Understanding Experiments of Nature." F. Sessions Cole, the Park J. White Professor of Pediatrics, prof. of cell biology & physiology. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Seminar. "Molecular Genetic Analysis of Parturition." Louis J. Muglia, assoc. prof. of pediatrics. McDonnell Medical Sciences Bldg., Rm. 426. 362-1668.

4 p.m. Anatomy & Neurobiology Seminar. "Brain Imaging Evidence of Cortical Reorganization: Studies in Early and Late Blind People." Harold Burton, prof. of anatomy & neurobiology. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

Saturday, Dec. 14

9 a.m.-3:30 p.m. Interdisciplinary

Symposium. "The Neuro-Ethics of Brain Damage." Various University faculty. Duncker Hall, Rm. 101. artsci.wustl.edu/~anderson/neuroethicsprogram.htm. 935-7174.

Monday, Dec. 16

Noon. Molecular Biology & Pharmacology Research Seminar. "Initiation of an Autoimmune Response." Paul M. Allen, prof. of pathology & immunology. South Bldg., Philip Needleman Library, Rm. 3907. 362-0183.

Noon. Neurology & Neurological Surgery Research Seminar. "Yellow Swelling and Blue Vessels, and Some People Say Amyloid Is Protective, Not Toxic?" David Holtzman, the Charlotte and Paul Hagemann Professor of Neurology. Maternity Bldg., Lvl. 1, Schwarz Aud. 362-7316.

4 p.m. Immunology Research Program Special Seminar. "Lessons from the a2b1 Integrin — A Collagen Receptor Odyssey." Samuel A. Santoro, the Conan Professor in Laboratory Medicine. Eric P. Newman Education Center. 362-2763.

Tuesday, Dec. 17

Noon. Chemistry Seminar. "A Mechanistic Approach to Catalysts for Olefin Metathesis and Anti-Markovnikov Olefin Hydrofunctionalization." Melanie Sanford, Princeton U. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Anesthesiology Research Unit Seminar Series. Ken Paradiso, research assoc. in anesthesiology. Clinical Sciences Research Bldg., Rm. 5550. 362-8560.

Thursday, Dec. 19

Noon. Genetics Seminar Series. "An Endocrine Network Regulates *C. Elegans* Development and Life Span." Adam Antebi, Max Planck Inst. for Molecular Genetics, Berlin. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. Ophthalmology & Visual Sciences Seminar Series. "Molecular Mechanisms of Macular Degeneration: Learning From Early-Onset Forms of the Disease." Hui Sun, research assoc. prof. of molecular biology and genetics, Johns Hopkins School of Medicine. McDonnell Medical Sciences Bldg., Rm. 928. 362-1006.

Friday, Dec. 20

9:15 a.m. Pediatric Grand Rounds. "A Dog Named Flint." Jonathan D. Gitlin, the Helene B. Roberson Professor of Pediatrics, prof. of pathology and immunology. Clopton Aud., 4950 Children's Place.

Noon. Cell Biology & Physiology Seminar. "Sorting Domains in the Endocytic System." Judith Klumperman, prof. of cell biology, U. of Utrecht, Netherlands. McDonnell Medical Sciences Bldg., Rm. 426. 747-4233.

7:30 p.m. St. Louis Astronomical Society Lecture. "Cataclysmic Variable Stars." Wayne Clark, St. Louis Astronomical Society. Sponsored by NASA's Missouri Space Grant Consortium. McDonnell Hall, Rm. 162. 935-4614.

Thursday, Jan. 9

4 p.m. Siteman Cancer Center Basic Science Seminar Series. Michael Klagsbrun, the Patricia K. Donahoe Professor of Surgery, Harvard Medical School Children's Hospital. Eric P. Newman Education Center. 454-8566.

Monday, Jan. 13

Noon. Molecular Biology & Pharmacology Research Seminar. "Why Fly Eye?" Ross L. Cagan, assoc. prof. of molecular biology & pharmacology. South Bldg., Philip Needleman Library, Rm. 3907. 362-0183.

4 p.m. Immunology Research Seminar Series. "Defects in Lymphoid, Myeloid, and Macrophage Lineages Revealed in Mice Congenitally Lacking Vav-Family Proteins." Wojciech Swat, asst. prof. of pathology and immunology. Eric P. Newman Education Center. 362-2763.

Tuesday, Jan. 14

4 p.m. Siteman Cancer Center Cancer Genetics Seminar Series. David H. Gutmann, prof. of neurology. McDonnell Medical Sciences Bldg., Rm. 426. 454-8566.

Thursday, Jan. 16

4:15 p.m. Earth & Planetary Sciences Colloquium. "High Pressure Crystal Chemistry of Hydrated Minerals." George A. Lager, prof. of geosciences, U. of Louisville. McDonnell Hall, Rm. 362. 935-5610.

On Stage

Friday, Dec. 13

8 p.m. Washington University Opera. *Opera in December.* Jolly Stewart, dir. (Also Dec. 14, 8 p.m.) Umrath Hall Lounge. 935-4841.

Saturday, Jan. 18

8 p.m. OVATIONS! *Cowboy Envy/Isle of Klezbos.* Cost: \$27, \$22 for WUSTL faculty and staff and for non-WUSTL students, \$13 for WUSTL students and children under 12. Edison Theatre. 935-6543.

Thursday, Jan. 23

8 p.m. Performing Arts Department Performance. *The Woods.* David Mamet, author. Annamaria Pileggi, dir. (Also Jan. 24, 8 p.m., Jan. 25, 5 & 9 p.m., Jan. 26, 2 p.m.) Cost: \$12, \$8 for WUSTL faculty, staff and students. Edison Theatre, A.E. Hotchner Studio Theatre. 935-6543.

Music

Sunday, Dec. 15

7:30 p.m. Messiah Singalong. John

Stewart, dir. of vocal activities, dir. Graham Chapel, 935-4841.

Sports

Saturday, Dec. 14

2 p.m. Women's Basketball vs. MacMurray College. Athletic Complex. 925-4705.

4 p.m. Men's Basketball vs. MacMurray College. Athletic Complex. 935-4705.

Friday, Jan. 3

6 p.m. Women's Basketball vs. Blackburn College. Athletic Complex. 935-4705.

8 p.m. Men's Basketball vs. Blackburn College. Athletic Complex. 935-4705.

Sunday, Jan. 5

3 p.m. Men's Basketball vs. Webster U. Athletic Complex. 935-4705.

Worship

Sunday, Dec. 15

8 p.m. Evening Prayer. Sponsored by Lutheran Campus Ministry. (Also Dec. 22.) Bethel Lutheran Church. (Big Bend and Forsyth boulevards). 863-8140.

And more ...

Saturday, Dec. 14

Noon-4 p.m. Traveler's Vehicle Inspection. Free vehicle inspections for students, faculty and staff. South 40, parking lot outside the police department. 935-5084.

Volunteerism: A chance to be a good neighbor

By NEIL SCHOENHERR

Students at the University are busy. They have classes, papers, tests, sports, friends and extracurricular activities.

But in spite of their often- hectic schedules, many still make time to give back to the community through volunteerism.

Whether it is through Service First, Each One Teach One, donating hair to Locks of Love or adopting a family during the holidays, more and more students are reaching out to those in need.

Stephanie Kurtzman, coordinator for Community Service and Women's Programs in the Office of Student Activities, has seen this increase firsthand.

In recent years, Kurtzman has worked diligently to build the Office of Community Service into what it is today — a clearinghouse for all the volunteer opportunities with which students can become involved.

"This office was created because there was a real risk that students were falling through the cracks," Kurtzman said. "They didn't really know all of their options and didn't know exactly how to find service opportunities on campus and in the community."

"The goal of my office is to help students and student groups make effective connections with the agencies who need our help."

Many students come to the University with significant background in community service at the high-school level and want to continue volunteering in college. They just aren't sure how.

That's where Kurtzman comes in.

She sends out a weekly subscriber-based e-mail that details the community service opportunities that have filtered through her office. The e-mail is sent to approximately 2,000 addresses each week.



Sophomore Josh Gantz transports wood with the help of classmate Aaron Kozuki (far left) while volunteering at the annual "Best of Missouri Market" event at the Missouri Botanical Garden this semester. University students are heavily involved in community service throughout the St. Louis area.

Kurtzman posts fliers, mails newsletters and makes herself available to students during office hours.

"Students here are really excited about giving back," she said. "It's wonderful to see such a high level of commitment and participation."

For students, the advantages of doing community service are numerous, including having fun, meeting new friends, learning about St. Louis and getting off campus.

Junior Juliet DiLeo began volunteering the first semester of her freshman year. For the past three years, she has spent 2 1/2 hours a week working with Each One Teach One, tutoring children from St. Louis Public Schools.

"Interacting with the students has been a fun and somewhat-relaxing break from my studies," DiLeo said. "It also provides a chance to learn more about the people and community of

St. Louis, and it's great way to meet the other tutors from the University."

Community service also gives students a perspective on what's important in life and changes the way they look at their own stress, exams and papers.

"By making some kind of volunteer experience a regular part of my life, I think that I've been able to develop a certain level of maturity — understanding the realities and injustices that many people face on a daily basis — and a resolve to always seek that level of awareness and get involved in promoting change," DiLeo said.

Long term, Kurtzman said, the goal is to help students think about their lives in a socially responsible way and to help them become good citizens and responsible leaders long after their time at the University.

"We, as a University, also need to be conscious of being good

neighbors in St. Louis," she said. "I feel community service is one of the best ways to be a good neighbor."

Getting students involved off-campus increases the positive visibility of the University and gives students more of a connection to their college home.

"My hope is that students really start thinking about St. Louis," Kurtzman said. "Partly because the city needs that, but also because I think it's a link to understanding any other urban area. Every urban area is different, but there are definite similarities."

"Students come in thinking they will do community service because it puts a smile on someone's face, and that's a great start. But then they begin to see the broader impact that their efforts have on the community, and that really gets them excited."

Kurtzman's plan is to get students involved early. Service First, held each year during Labor Day weekend, involves some 600 stu-

Volunteer information

Volunteer opportunities coordinated through Stephanie Kurtzman's office are open to not only students but also to University faculty and staff. For more information, e-mail Kurtzman at community_service@wustl.edu or go online to getinvolved.wustl.edu/service.

dents, mainly freshmen, going to area schools to help ready them for the upcoming year.

It's a marquee service program at the University and one that really kick-starts interest in volunteering for many students.

"My goal during new-student orientation freshman year is to get students to come to Service First and get them signed up for the e-mail newsletter," Kurtzman said.

Beyond Service First, there are literally hundreds of ways students can continue community service during their careers at the University.

New volunteer opportunities include:

- Teach ESL, a group that works with Top Care, Quadrangle and Spann employees to teach English to non-native speakers;

- Relay For Life, an event to raise money for the American Cancer Society, which will be on campus March 15-16; and

- Bears and Cubs, a group of student-athletes working with Make A Difference Center to spend time with schoolchildren.

And those are merely the tip of the iceberg. New opportunities come into Kurtzman's office on a daily basis.

"I just try to be proactive and spread the word to students," she said. "My hope is that community service enriches their college experience and helps them grow into mature, well-rounded adults."

Sam Fox Arts Center

Center

'To become a landmark for the entire region'
— from Page 1

the new center for the arts in his honor," Wrighton continued. "The Sam Fox Arts Center will bring together artists, designers, architects, educators, students, patrons and the public in a world-class facility that promises to become a landmark for the entire region."

To date, more than \$39.5 million has been earmarked toward the estimated \$56.8 million cost of the center, both through the allocation of University funds and the receipt of outside commitments, including \$10 million in gifts and bequests from Fox.

Major commitments also have come from — among others — Linda and Harvey Saligman, and the children of Florence Steinberg and Richard K. Weil.

About Sam Fox

Fox's leadership in the St. Louis community has been extraordinary.

His is currently chairman, and formerly was president, of the Greater St. Louis Area Council of the Boy Scouts of America, one of the strongest scouting programs in the United States.

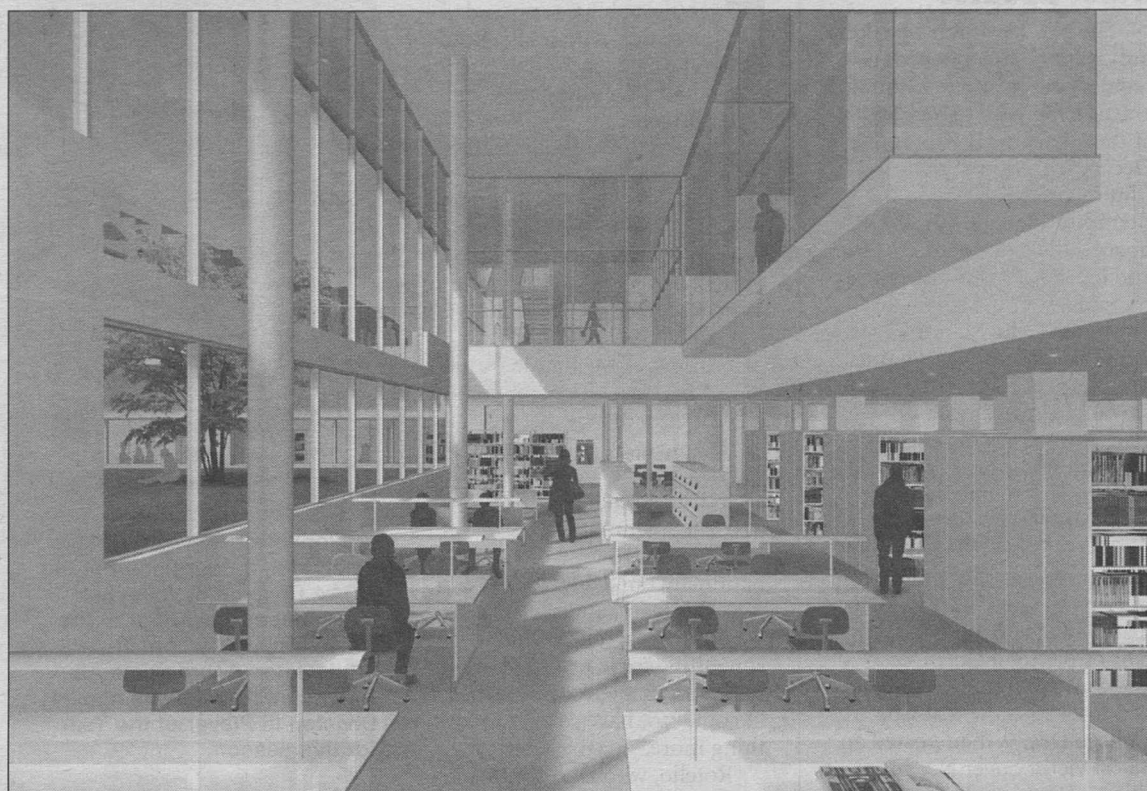
As president of the board of commissioners of the St. Louis Art Museum from 1997-2001, he spearheaded recruitment of Director Brent Benjamin and the development of a 10-year strategic plan. Today, Fox is extending that leadership as a member of the art museum's board of commissioners.

He serves or has served on the boards of many other St. Louis institutions and cultural groups, including the Arts & Education Council of Greater St. Louis, Barnes-Jewish Hospital, Civic Progress, The Muny in Forest Park, Opera Theatre of Saint Louis, the V.P. Fair Foundation, the St. Louis Science Center and the Saint Louis Zoo.

Sam and Marilyn Fox are life members of The Danforth Circle of the William Greenleaf Eliot Society. They have supported a wide range of University programs and initiatives over the years, including the School of Art, the Olin School of Business, the Department of Music in Arts & Sciences, the School of Medicine's Kidney Center, Edison Theatre and the Danforth Scholars Program.

Sam Fox was elected as a University trustee in 1989, served as vice chairman of the Board of Trustees from 1999-2001 and then was elected an emeritus trustee.

In 2002, Fox received an honorary doctor of laws degree from the University and was named



One feature of Sam Fox Arts Center's Museum Building will be the 13,000-square-foot Kenneth and Nancy Kranzberg Information Center; this artist's rendering shows the center's reading room. Also housed in the Museum Building will be a School of Art gallery for faculty and student use and new offices and classrooms for the Department of Art History and Archaeology in Arts & Sciences.

the St. Louis Variety Club's Man of the Year. He received the University's Distinguished Alumni Award in 1986, the Olin School of Business' Distinguished Alumni Award in 1988 and the Beta Gamma Sigma Medallion for Entrepreneurship in 1996.

Sam Fox Arts Center

The Sam Fox Arts Center will serve as a campuswide umbrella organization for the study and promotion of visual culture.

Creation of the center will allow for greater collaboration among the participating units and the development of new and interdisciplinary programs, while also preserving the integrity of the distinct disciplines of architecture, art, and art history and archaeology.

Additionally, the center will bring students and faculty in the School of Art, now studying and working in three separate buildings — one of them a renovated former junior high school located one mile from campus — together in two adjacent buildings on the Hilltop Campus.

Mark S. Weil, Ph.D., director of the Sam Fox Arts Center and the E. Desmond Lee Professor for Collaboration in the Arts, said: "By bringing three curricular units into a consortium with our museum and library, we are embarking on a new approach to arts education."

"Our goal is to move away from separate practices and toward a more interactive and cross-disciplinary training that takes greater advantage of contemporary technology."

Spearheading the fund-raising initiative for the new center are Lee M. Liberman and Harvey Saligman, leadership chairs for the School of Art in the Campaign for Washington

University, and Warren M. Shapleigh and Jerome Sincoff, leadership chairs for the School of Architecture in the capital campaign.

Site plan

Design architect Maki, principal of Maki & Associates in Tokyo, is internationally renowned for creating bold, monumental structures that harmonize with their natural and urban environments.

The Sam Fox Arts Center will be located at the southeastern end of the Hilltop Campus. It

will encompass two new limestone buildings; the Beaux Arts-era Bixby and Givens halls, homes to the schools of Art and Architecture, respectively; and the classically modernist Steinberg Hall, current home of the Gallery of Art, Art & Architecture Library and Department of Art History and Archaeology.

Steinberg Hall was Maki's first commissioned building, designed in the late 1950s during his tenure as an associate professor in the School of Architecture.

"We are extremely fortunate to be working with an architect of Maki's caliber," said Cynthia Weese, dean of the School of Architecture. "His buildings are thoughtful, dignified and respectful of what is around them ... beautiful and useful at the same time."

"The Sam Fox Arts Center will be one of only a handful of Maki's work built in the United States, and a source of pride for all of St. Louis."



Maki

Each of the five units in the Sam Fox Arts Center will benefit from significant increases in programming space as well as the use of shared facilities and amenities such as a planned lunch counter/snack bar.

In addition, Maki has designed a series of connecting plazas, courtyards and green spaces. A sculpture garden and reflecting pool will be located on the northern side of the Museum Building, facing Brookings Drive.

In preparation for new construction, Bixby and Givens halls have, over the past two years, been the focus of an extensive, \$16 million renovation, with an additional \$1.8 million allocated to infrastructure improvements for the entire site.

New construction — along with renovations to Steinberg Hall, which will provide additional studio space for the schools of Art and Architecture — is budgeted at approximately \$39 million.

The project architect is Harish A. Shah, a principal of RMW Architecture + Design in San Francisco and a 1973 graduate of the School of Architecture. Maki and Shah previously collaborated on the award-winning Yerba Buena Center for the Arts in San Francisco.

Museum Building

The three-level, approximately 65,000 gross-square-foot Museum Building will be immediately north of Steinberg Hall and will become the new home of the Gallery of Art, which will be renamed the Museum of Art, reflecting its status as the first art museum founded

west of the Mississippi River. The building will house permanent and temporary exhibition spaces and state-of-the-art storage facilities.

The building also will incorporate a gallery for the School of Art for use by faculty and students; new offices and classrooms for the Department of Art History and Archaeology; and the 13,000-square-foot Kenneth and Nancy Kranzberg Information Center.

Angela Miller, Ph.D., associate professor and acting chair of art history and archaeology, noted that the Museum Building will become a central meeting point for faculty and students in different design disciplines, both physically and programmatically.

"Already, productive exchanges have begun taking shape through joint committees and the funding of collaborative work," Miller said. "We look forward to expanding these opportunities for interdisciplinary cooperation."

Shirley K. Baker, vice chancellor for information technology and dean of University Libraries, added that the Kranzberg Information Center will combine an expanded Art & Architecture Library with the Visual Resource Collection, a massive slide and digital image bank; and with the Whitaker Learning Lab, a media studio and technology center.

"Books remain incredibly important to students and scholars of the visual arts, but increasingly they're supplemented by rich databases of images and online journals," Baker said.

"Grouping these services together will radically enhance their accessibility and usefulness to students and faculty from both studio and academic disciplines."

School of Art Building

The approximately 38,000 gross-square-foot School of Art Building, also three levels, will be just north of Bixby Hall and will allow programs presently conducted at the Vernon Street Graduate Studios and the Lewis Center, both in University City, and at West Campus to return to the Hilltop Campus.

The new facility will include graduate studios; studios for ceramics, sculpture and painting; and the Nancy Spirtas Kranzberg Studio for the Illustrated Book.

"Currently, more than half of art and design students and faculty work and study away from Bixby Hall," said Jeff Pike, dean of the School of Art. "The Sam Fox Arts Center will bring programs scattered among several off-campus sites back to the Hilltop, fostering both a greater sense of community within the school and a greater degree of interaction with our colleagues in other creative areas."

Museum Building development aided by Mabee challenge grant

BY LIAM OTTEN

The J.E. and L.E. Mabee Foundation has awarded a \$1 million challenge grant to the University to support development of the new Museum Building within the Sam Fox Arts Center, according to Chancellor Mark S. Wrighton.

To receive the \$1 million grant, the University must raise an additional \$5.8 million in outright gifts and pledges for the Museum Building by Oct. 9.

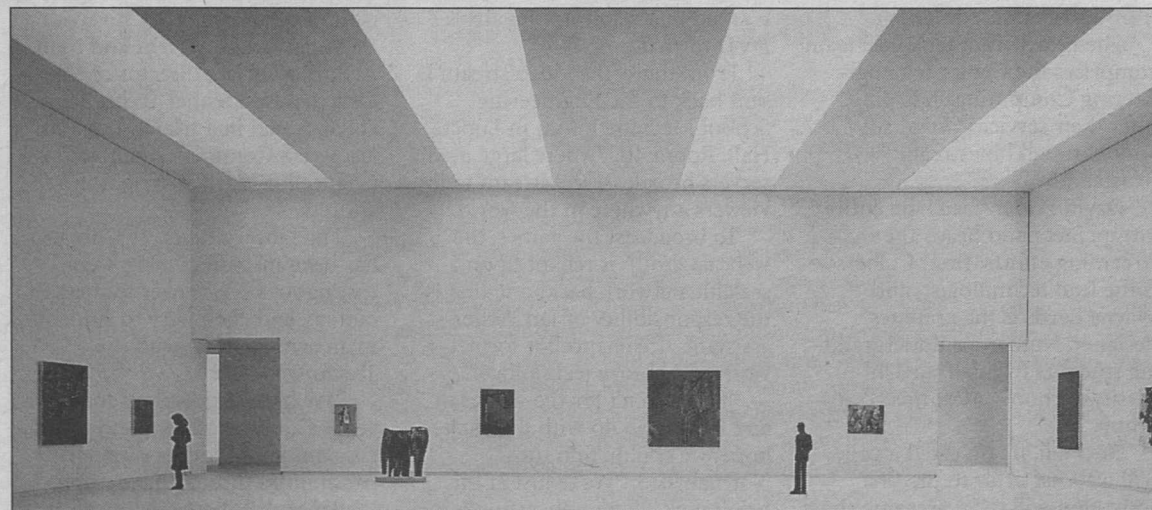
"We are thrilled that the Mabee Foundation has pledged such a significant gift to the Museum Building, and has done so in a manner that adds considerable value to each subsequent gift made to the project," Wrighton said. "The Museum Building will

be a focal point for activities within the Sam Fox Arts Center. It is going to serve as a diverse, multidisciplinary resource for students and faculty, as well as an architectural 'destination' for the entire St. Louis region."

J.E. Mabee was an oil operator, drilling contractor and rancher in Oklahoma.

He and his wife established the Mabee Foundation in 1948 to assist educational, charitable and religious organizations in the southwestern United States (Arkansas, Kansas, Missouri, New Mexico, Oklahoma and Texas), particularly in the area of capital improvements.

Located in Tulsa, Okla., the Mabee Foundation is one of the largest supporters of higher education in the nation.



Permanent and temporary exhibition spaces — the temporary displays gallery is shown in this rendering — along with state-of-the-art storage facilities will be housed in the Museum Building.

Sports

Swimmers shatter records, win invite

The men's and women's swimming and diving team set 10 school records en route to claiming the DePauw University Invitational Dec. 7-8 in Greencastle, Ind. The men's team placed first of eight teams with 1,067 points, while the women's team squeaked by second place DePauw with 949.50 points. Freshman Tracey Hendrickson was part of six school records and five meet records. She earned an automatic NCAA-qualifying time and set a school record, meet record and pool record in the 200 butterfly (2:08.17). She also set school records in the 500 freestyle (5:04.31), 1,650 freestyle (17:39.84) and the 200 freestyle (1:55.62). Hendrickson also was on the 800 freestyle relay (7:54.02) and 400 freestyle relay (3:34.69) teams that set school, pool and meet records. On the men's side, freshman Eric Triebe set five school records. He set school, pool and meet records in the 200 individual medley (1:55.40) and also set a school record in the 100 breaststroke (58.52). In addition, Triebe was on the school-record setting 800 freestyle relay (6:58.93) and 400-medley relay teams (3:07.92).

Other updates

The No. 1 **women's basketball** team (7-0) stretched its regular-season home winning streak to 68 with two victories at the Division III Shootout Dec. 6-7. The Bears defeated Illinois College 83-58 in the first round Dec. 6. WUSTL opened the game on a 16-2 run and led 45-20 with just over a minute left in the first half. Freshman Kelly Manning scored a game-high 19 points. The Bears then defeated No. 8 DePauw University 73-56 Dec. 7 in the championship game. Sophomore Leslie Berger led a balanced attack for the Bears with 12 points.

The No. 1 **men's basketball** team moved within one victory of tying the best start in team history as the Bears picked up a pair of big road wins Dec. 6 and 8. Washington U. (7-0) rallied for a 95-85 win at Coe College Dec. 6, then posted an 88-75 victory over No. 14 Illinois Wesleyan University Dec. 8. Jarriot Rook tallied 16 points, 13 boards and four blocks, and Matt Tabash and Dustin Tylka each scored 10. Chris Jeffries led the way, averaging 33 points and 10 rebounds in the games while hitting an astounding 77 percent of his shots.

Shapiro

— from Page 1

and head of that department.

"An outstanding scientist, educator and practicing physician, Larry Shapiro has the broad scope of experience in academic medicine needed to match the challenges the School of Medicine will face over the coming decades," Gelberman said. "Furthermore, his commitment to Washington University over the years will enhance his ability to lead the medical school."

The School of Medicine has roughly 7,000 employees, 1,000 students and \$900 million in total annual revenue.

"I am extremely grateful to be given this opportunity to work on behalf of an institution that has contributed so much to the advancement of science and medical care," Shapiro said. "I look forward to interacting with the dedicated and extraordinarily talented faculty, the optimistic and intellectually challenging students and trainees, and the hardworking and gifted staff that comprise the Washington University School of Medicine."

"I am inspired by their commitment not to rest upon past accomplishment, but to accelerate efforts that will result in the betterment of health for all."

About Larry J. Shapiro

Shapiro is the W.H. and Marie Wattis Distinguished Professor and chair of the Department of Pediatrics at the University of California, San Francisco (UCSF), School of Medicine. He has been the chief of pediatric services at UCSF Children's Hospital since his arrival there in 1991.

Throughout his career, Shapiro has been recognized internationally for his research in human genetics, molecular biology, and biochemistry. His contributions to academic medicine include patient care, research, teaching and administration.

Shapiro is a member of the prestigious National Academy of Sciences' Institute of Medicine and of the American Academy of Arts and Sciences. He is a fellow of the American Association for the Advancement of Science.

Shapiro is a member of many

professional societies and organizations and has served as the president of the American Society of Human Genetics, the American Board of Medical Genetics, the Society for Inherited Metabolic Diseases, the Western Society for Pediatric Research and the Society for Pediatric Research.

He is president-elect of the American Pediatric Society.

Shapiro earned undergraduate and medical degrees from Washington University.

He distinguished himself academically and is a member of the Phi Beta Kappa and Alpha Omega Alpha national honor societies. While at the University, he was the recipient of the Robert Carter Medical School Prize in 1968 and also was awarded the University's George F. Gill Prize in Pediatrics in 1971.

In 1996, he received the University's prestigious Alumni Achievement Award.

After completing his residency at St. Louis Children's Hospital in 1973, he became a research associate at the National Institute of Arthritis, Metabolism and Digestive Diseases, in the Section on Human Biochemical Genetics.

In 1975, Shapiro joined the faculty at the University of California, Los Angeles (UCLA), School of Medicine as assistant professor of pediatrics and director of the Harbor-UCLA Genetic Metabolic Laboratory. Eight years later, he was named professor of pediatrics and of biological chemistry, and in 1986, he became chief of the Division of Medical Genetics.

During his years at UCLA, Shapiro also was a Howard Hughes Medical Institute investigator.

While at UCSF, Shapiro directed and expanded one of the leading academic pediatric departments in the country and helped to establish the UCSF Children's Hospital. He also spearheaded the university's participation in the Glaser Pediatric Research Network, a driving force in improving research and care for children with HIV and AIDS.

A Chicago native, Shapiro is married to Carol-Ann Uetake. He has three children: Jennifer, 30; Jessica, 26; and Brian, 22.

Jennifer (1994) and Brian (2002) are both Arts & Sciences graduates of Washington University.

Volleyball team holds heads high despite final loss

By Chris Mitchell

Even though his team ended the season with a loss, head volleyball coach Rich Luenemann had a season that he will never forget.

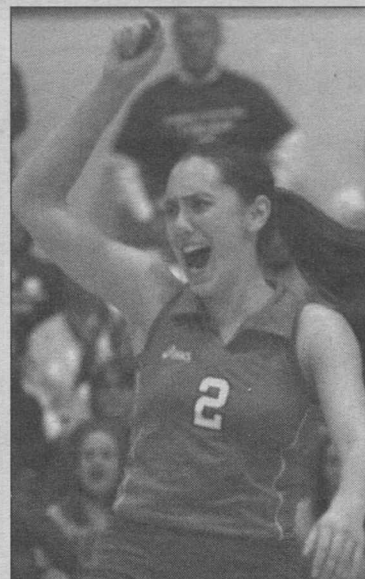
Luenemann and the Bears had their national championship hopes dashed Dec. 7 when the Bears lost 3-0 to the University of Wisconsin-Whitewater, the host of the NCAA Division III Volleyball Tournament finals.

"A 41-2 record and a second-place finish at the national championships ... it's a dream come true," Luenemann said.

The Bears, who were seeking a Division III-record eighth national title, began the season with a 31-match winning streak and finished with a 16-2 record against nationally ranked teams.

"This team, and the season we put together, is definitely something to be proud of," said senior setter Rebecca Rotello. "I could not have asked for anything more."

Rotello, who Dec. 5 was named NCAA Division III Player of the Year, set a single-season WUSTL record with 1,644 assists. A second-team All-American as a sophomore in 2000, she was named a first-team All-American as a junior and again this year. She finished her career with



Senior setter Rebecca Rotello celebrates a Bears point at the NCAA Division III Volleyball Tournament Final Four at the University of Wisconsin-Whitewater. A three-time All-American, Rotello was named Division III Player of the Year for this season.

4,672 assists, good for second place in WUSTL history and 19th on the Division III list.

"Rebecca Rotello is the ideal setter," Luenemann said. "She's athletic, analytical, technically strong and controls the court exceptionally well."

"Bees is the best setter I've ever coached."

Junior middle blocker Amy Brand and sophomore outside hitter Colleen Winter were named second-team All-Americans.

Junior Katie Quinn earned second team all-University Athletic Association honors and first team all-Central Region honors. Junior Cindy McPeak was named second team all-UAA.

Sophomore Ishi Ballew and freshman Heidi Pfeiffer split time at outside hitter for the Bears, while freshman Nicole Hodgman saw time at the libero position.

Sophomore Jasmine Hunt and freshmen Meghan Cok, Megan Houck and Kara Liefer provided depth off the bench for the Bears.

Luenemann, who recorded his 700th career victory Sept. 18 against Augustana College and coached his 1,000th career match against Juniata College Nov. 1, feels the Bears had one of the best seasons in Division III history.

"I won't let the finals loss dampen my spirits about the incredible season we enjoyed," Luenemann said. "Several coaches in attendance mentioned that the Bears experienced one of the most remarkable seasons in the history of NCAA Division III volleyball, and I concur."



(From right) Leonard Massey, user support technician with the BlueStream webcasting team, points the camera at announcer Chris Mitchell, assistant director of sports information, and color commentator Joe Worlund, assistant athletics director, as they call the NCAA Division III Volleyball Tournament final match between the Bears and host University of Wisconsin-Whitewater Dec. 7. This fall, BlueStream webcast five volleyball games in all, attracting viewers as far away as Paris.

Webcasting

— from Page 1

mixing techniques.

"As we developed our ability, we began to think how wonderful it would be if we could bring games back to our fans," Norman said.

This fall, Norman and the BlueStream team successfully streamed three volleyball games to an audience that included a fan from Paris (France, not Illinois) and scores of fans from eight different states.

The broadcasts, in real time, are in color and very near the quality of contemporary television. Broadcasters are Chris Mitchell, assistant director of sports information, and Curtis Jewell, a senior in Arts & Sciences from Frederick, Md.

The BlueStream technical team comprises the Center for Engineering Computing staff, who offer their services University-wide through bluestream.wustl.edu.

David Butler heads the entire group; Stef Sano heads the web-streaming efforts; Brad Culberson is the lead technologist; and Wayne Lewis is the graphics designer. Numerous undergraduate students from all the University's schools assist this core group.

Next fall, if you catch a volleyball webcast prior to the first serve, you will see a pregame show that highlights all of the University's players. The graphics pro-

vide individual statistics and biographical information and have an ESPN flavor.

"To my knowledge, very few NCAA Division III schools are doing this," said Keith Jenkins, director of sports information. "It's definitely added something to the Red and Green mystique."

All the equipment the group needs is mounted and stored on a cart with about the same dimensions as one that a nurse in the hospital moves around, though much heavier.

The team has as many as four cameras to webcast a game or lecture.

The signal from the cameras and/or microphones is brought into a video mixer; the signal from the mixer goes into a PC that does encoding. This gives a finished product in real time that is saved in a very high-quality DVD format.

From there, the video stream is sent back to the Engineering School Machine Room in Lopata Hall, Room 402, where large media servers broadcast the stream to live viewers anywhere in the world.

To broadcast the games, the webcast group is reliant upon a scalable network backbone that is the responsibility of Jan Weller, assistant vice chancellor for network and library technology.

"If it weren't for the work Jan and her group do with the backbone, we couldn't do this," Norman said. "We're just at the brink now where webcasting is becoming useful, and I believe it's going to spread like wildfire all

Viewing webcasts

To view the BlueStream webcast archives, go to seas.wustl.edu/webcasts.asp.

over the campus."

Norman said he and his group are working with several University groups to webcast their events. BlueStream will also webcast almost all the content of WUTV, the University's student-run television channel.

"I look at webcasting as a great multiplier — a way to leverage the work we're already doing and disseminating it far beyond its immediate audience," Norman said.

According to Weller, many initiatives already are in place or being planned for webcasting on campus. For instance, University Webmaster Gail Wright and Matt Arthur, associate director of the Office of Residential Technology, collaborated in a trial webcast of last year's Commencement and Chancellor Mark S. Wrighton's address.

The Library Reserves Unit also has been instrumental in webcasting Arts & Sciences lectures in biology and chemistry to students in an arrangement with the Teaching Center.

"We have major plans for this year's Commencement and discussions about lots of different possibilities throughout campus," Weller said. "There are lots of exciting and useful applications ahead."

Notables

Of note

Jonathan M. Chase, Ph.D., assistant professor of biology in Arts & Sciences, has received a three-year, \$155,735 grant from the National Science Foundation for research titled "How do Communities Assemble? The Influence of Local Conditions and Regional Processes on Community Composition." ...

Barbara N. Kunkel, Ph.D., associate professor of biology in Arts & Sciences, has received a two-year, \$178,000 grant from the U.S. Department of Agriculture for research titled "Mechanisms Underlying Virulence Activity of avrRpt2 From *Pseudomonas Syringae*." ...

Himadri B. Pakrasi, Ph.D., professor of biology in Arts & Sciences, has received a five-year, \$783,403 grant from the National Science Foundation for research titled "Localization and Functions of Novel Proteins in Cyano-bacterial Photosystem II." ...

Sean R. Eddy, Ph.D., associate professor of genetics, has received a one-year, \$219,624 grant from the National Human Genome Research Institute for an "Institutional Training Grant in Genomic Science." ...

Eric T. Choi, M.D., assistant professor of surgery, has received a five-year, \$582,875 grant from the National Heart, Lung, and Blood Institute for research titled "Collagen-Binding Integrins in Intimal Hyperplasia." ...

David A. Leib, Ph.D., associate professor of ophthalmology and visual sciences, has received a three-year, \$459,000 grant from the National Eye Institute for research titled "Bacterial Artificial Chromosomes for HSV Genomics." ...



Strengthening educational ties with China The University's Chinese Students and Scholars Association hosted dignitaries from the Chinese Consulate Dec. 5. Meeting with Robert E. Thach, Ph.D. (left), dean of the Graduate School of Arts & Sciences, are (from right) Jiakai Cheng, education consul for Missouri; Bo Jiang, chief education consul in the Consulate General of China in Chicago; and Li Zou, a master's degree candidate in the George Warren Brown School of Social Work. In addition to Thach, the consuls met with Chancellor Mark S. Wrighton and deans of GWB, the School of Medicine and the School of Engineering & Applied Science. The visit served to strengthen ties between the Chinese government and the University, with an emphasis on drawing the attention of students and scholars at the University to opportunities for research and study in China. Additionally, the consuls discussed ways to streamline the process of issuing student visas for Chinese students admitted to the University, which has become increasingly difficult since September 11, Zou said.

John C. Schotland, Ph.D., associate professor of electrical engineering in the School of Engineering & Applied Science, has received a one-year, \$206,773 grant from the Department of the Air Force for research titled "Mathematical Tools for Imaging in Highly Scattering Media." ...

Arlene R. Stiffman, Ph.D., professor of social work, has received a five-year, \$170,797 grant from the National Institutes of Health for research titled "Social Work Training in Addictions Research." ...

Daniel W. Moran, Ph.D., assistant professor of biomedical engineering, has received a five-year, \$610,000 subcontract from the U.S. Department of Defense's Advanced Research Projects Agency for a study titled "Human Augmentation Through Brain Machine Interfaces." Moran also has received a three-year, \$240,000 grant from The Whitaker Foundation for a study titled "Motor Cortical Representation of Position and Velocity in Volitional Arm Movements." ...

Linda M. Mundy, M.D., assistant professor of medicine and medical director for the Helena Hatch Special Care Center, has received a two-year, \$150,000 grant from the Missouri Foundation for Health to support the center's drug therapy adherence program for women diagnosed with HIV. ...

David S. Sept, Ph.D., assistant professor of biomedical engineering, has received a five-year, \$1.4 million grant from the National Science Foundation for a study titled "Understanding the Protein-Protein Interaction Underlying Actin-Based Cell Motility."

Fazzari wins teaching excellence award

By GERRY EVERDING

Steven Fazzari, Ph.D., professor and chair of economics in Arts & Sciences, has received a 2002 Governor's Award for Excellence in Teaching from the Coordinating Board for Higher Education, a state policy board that oversees the Missouri Department of Higher Education. "Steve Fazzari exemplifies the best qualities that we seek in our faculty members — he is a respected scholar, an outstanding teacher and a splendid University citizen," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. "He has made important contributions to the field of economics, and his teaching evaluations are consistently excellent."

"In addition to his outstanding teaching in the classroom, he is one of the most sought-after dissertation advisers. His leadership of the Department of Economics has been exemplary, and I expect the department to continue to thrive under his thoughtful and wise leadership. For these reasons, Professor Fazzari is eminently qualified for the prestigious Governor's Award for Excellence in Teaching."

A member of the University faculty since 1982, Fazzari became a full professor in 1996 and department chair in 1999.

He continues to teach courses in macroeconomics, and his skill in the classroom has earned him teaching awards from the Interfraternity Council, the

"Steve Fazzari's teaching brilliantly combines enthusiasm and clarity. He makes economics simple and fun."

TARA M. SINCLAIR

Council of Students of Arts and Sciences, and the Graduate School of Arts and Sciences.

Fazzari received the governor's award at a statewide higher education planning conference Dec. 4 in Jefferson City, Mo.

The awards have been presented annually to an outstanding faculty member from each of about 50 public and independent colleges and universities in Missouri.

Award criteria generally include effective teaching and advising at the undergraduate level; service to the campus community; commitment to high standards of excellence; success in nurturing student achievement; and impact on academic and personal lives of students.

"Steve Fazzari's teaching brilliantly combines enthusiasm and clarity," said Tara M. Sinclair, a former teaching assistant who also took two graduate classes of Fazzari's. "He makes economics

simple and fun. ... He's a role model for aspiring instructors (like me)."

Fazzari's widely cited research explores the link between macroeconomic activity and finance, particularly the financial determinants of investment spending, and the foundations of Keynesian macroeconomics.

Recent publications include articles in a variety of academic journals including the *Brookings Papers on Economic Activity*, the *Review of Economics and Statistics*, the *Journal of Public Economics*, the *Journal of Post Keynesian Economics* and the *Quarterly Journal of Economics*.

His policy work on deficit reduction and capital gains taxation has received recognition in the national media.

"Professor Fazzari engages his students by connecting with them on a personal level," former student Brian Gunia said. "He breaks complex economic ideas into meaningful statements without compromising their integrity, and he skillfully identifies and answers the critical questions underlying economic problems."



Fazzari

Trustees

— from Page 2

entation on "Stem Cells and Nuclear Transplantation: Promise and Politics" by Steven L. Teitelbaum, M.D., the Wilma and Roswell Messing Professor of pathology and immunology.

In other action, the trustees voted on a bylaw amendment and received reports from the following standing committees: audit, development, educational policy, Hilltop finance, real estate, research-graduate affairs, undergraduate life and the Alumni Board of Governors.

After adjournment of the meeting, Wrighton hosted a reception for Shapiro at Harbison House.

Employment

Go online to hr.wustl.edu (Hilltop Campus) or medicine.wustl.edu/wumshr (Medical Campus) to obtain complete job descriptions.

Hilltop Campus

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

Senior Medical Sciences Writer 010108

Lab Technician - Part Time 020234

General Lab Asst. - Part Time 020237

Assoc. Dir., Corporate Relations 020365

Career Dev. Specialist - Grad Students 020381

Physical Therapist 030064

Registered Nurse 030079

Data Entry Processor 030081

Sr. Regional Dir. Major Gifts, N. Atlantic Region 030083

Director of Corporate Relations 030084

Health Services Physician 030099

Assoc. Dir. Medical Dev./Exec. Faculty Liaison 030105

Accounting Systems Data Coord. 030109

Business Development Coord. 030110

Shuttle Driver 030111

Career Development Specialist 030114

Government Publications/Reference Librarian 030116

Communications & Events Coord. 030122

Zone Manager 030137

Admissions Counselor 030138

Research Technician 030141

Research Technician 030143

Security Officer 030146

Billing Service Rep. 030148

Admissions Counselor 030149

Department Secretary 030151

Lab Technician 030154

Research Asst. 030155

Medical Campus

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

Patient Billing Services Rep. I 030618

Research Patient Asst. 030640

L.P.N. 030822

Secretary II 030823

Medical Records Clerk 030825

Professional Rater I 030826

System Support Technician II 030827

L.P.N. 030829

Dialysis Technician II 030830

Administrative Coord. 030856

Secretary II 030858

Coord.: Medical Coding 030861

Research Assoc. 030857

Analyst, Quality Control/Training 030860

Administrative Coord. 030866

Data Asst. 030867

Professional Rater I 030868

Research Technician II 030869

Public Safety Officer 030870

Response Officer 030871

Research Technician II 030872

Research Patient Coord. 030873

Patient Service Rep. 030875

Campus Watch

The following incidents were reported to University Police Dec. 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.

Dec. 4

12:38 p.m. — A nonstudent was arrested in North Brookings Hall for trespassing and stealing after it was determined that she was in possession of items taken from an office.

5:21 p.m. — A student reported the theft of his Missouri license validation tags from his car, which was parked on the second level of the Snow Way parking garage. Total loss is estimated at \$10.

Dec. 6

11:29 a.m. — Two art students reported that they had their supply of arch paper stolen. There were no suspects or wit-

nesses. Total loss is estimated at \$100.

Dec. 8

3:48 a.m. — While concluding a previously received call at the Wohl Student Center, a University Police officer observed a suspect throwing rocks at a University Police vehicle. After an investigation, the suspect was charged with destruction of property, possessing false identification and two judicial violations. The incident was reported to the judicial administrator.

Additionally, University Police responded to two reports of theft and one auto accident.

Washington People

A row of struggling violets lines the window ledge of Irene E. Karl's office. "They're cold and suffering, but I'm trying to cure them," she says.

But frail flowers aren't the only things that benefit from Karl's curative capabilities.

For more than 50 years, Karl, Ph.D., research professor of medicine in the Division of Metabolism, has been dedicated to identifying and understanding diabetes and sepsis, which has been the focus of her recent research.

Sepsis — or blood poisoning — is the leading cause of death in neonatal and surgical intensive care units. In the United States, 750,000 patients develop sepsis every year and more than 210,000 of them die from the infection.

The cascade of events, leading from bacterial infection to organ failure to death, is poorly understood.

In a typical case, a patient may be hospitalized for major surgery. A few days later, the patient develops a high fever, rapid heart and



(From right) Richard S. Hotchkiss, M.D., Irene E. Karl, Ph.D., and senior research assistant technician Thomas Howard, who has worked with Karl for more than 40 years, review samples from septic and control mice.

'A great inspiration'

Irene E. Karl possess an indomitable spirit and intense curiosity

respiratory rates, shows high blood levels of lactic acid and exhibits an altered mental state.

Even though antibiotics are given to treat the infection, the patient's condition continues to decline, with one vital organ after the next succumbing to sepsis.

For the past 13 years, Karl, a renowned authority on muscle metabolism, has worked closely with Richard S. Hotchkiss, M.D., professor of anesthesiology, of medicine, of surgery and of molecular biology and pharmacology, studying the development, cause and treatment of bacterial sepsis.

Their findings have the potential to alter traditional thinking about the cause and treatment of sepsis.

Karl has published articles in more than 150 peer-reviewed publications, including the *Journal of the American Medical Association*.

"The JAMA article was accompanied with an editorial by Roger Bone, the recognized leader in the field of sepsis," Hotchkiss says. "He reported that Dr Karl's work represented a new way to view the problem of sepsis."

Karl, now at age 86, continues to come into the lab daily to research sepsis. She still works 10-hour days and feels more productive than she ever has in her life.

And she doesn't plan on retiring anytime soon.

"I don't want to retire; that's how you get old," Karl says. "As long as I'm productive I'll work, because that is what I love to do."

Hotchkiss adds, "It is her love and fascination for science that is so unbelievable. She possesses an indomitable spirit and her intense curiosity is truly inspirational."

An unstoppable spirit

Even as a kindergartner, Karl knew she wanted to be a scientist. However, in the 1930s, science wasn't a field that welcomed women.

Karl graduated from the University of Wisconsin in 1937 with a degree in chemistry. She was the only woman in a class of 400.

On graduation day, her chemistry professor gave her some advice: "You're going to graduate summa cum laude, but you'll never make it. First of all, you're a woman and you're Jewish; there are quotas on both."

"Women don't make good scientists — go get married!"

That night, she went home and called her boyfriend, Mike Karl,

established in their honor by gifts from friends and patients.

"Both Irene and Mike Karl have made substantive contributions to medicine and are the consummate physician-teachers," says Philip E. Cryer, M.D., the Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism in Medicine.

The Michael and Irene Karl Lecture, part of the Masters in Medicine series, was created by Alene and Meyer Koplow in honor of the Karls.

Michael also was a former member of a national advisory committee under President Carter and served as governor of the American College of Physicians for Missouri.

"He was the doctor's doctor," Hotchkiss says. "He treated chairmen of the departments and was considered the best physician in St. Louis for years."

"Dr. Karl is a brilliant scientist and really enthusiastic about helping students. As a young female medical student, it's been encouraging to see how much she has accomplished and what she's had to overcome to get there."

ANNE DREWRY

who was attending medical school at the University of Louisville.

"Don't pay any attention to what they say," Mike told his high-school sweetheart. "But we're not going to get married yet, because you'll never forgive me if you don't get your Ph.D."

The couple first met in high school while Mike was working at a shoe store in Milwaukee.

"He sold me a pair of navy blue pumps and then asked me out," she recalls. "Mike always treated me as his intellectual equal and always encouraged me to pursue my career."

Irene earned a doctorate in biochemistry from the University of Wisconsin in just three years — an unprecedented pace for that era. She married Mike in 1941, and he helped her find a position as a biochemist at Jewish Hospital.

"Back then, she supported me," says Michael Karl, M.D., professor of medicine and former director of the Department of Medicine.

"When she was at Jewish Hospital in the early years, she made \$100 a month. I was making only \$10; she was my sugar mama."

The Karls are the first married couple at the University to receive a named professorship, which was

"Both Irene and Mike are incredibly humble people despite all their accomplishments."

Last month, Irene received the award she is most proud of: the Jewish Federation Business & Professional 2002 Woman of Valor — the first time it was awarded to a female scientist.

Her younger daughter, Terry, a human rights activist and professor at Stanford University, spoke at the award dinner.

"My sister, Bonnie, and I learned that having a mother who was a scientist was a strange and wonderful thing," Terry says. "I know we had the only mother who got up in the middle of the night to drive down to Barnes Hospital to feed her rats."

Terry explains that her mother's strength enables her to pursue her work as a political activist.

"I just returned from investigating the links between oil and environmental damage in West Africa," she says. "I know that, being my mother's daughter, I was the only person in the Congo, slogging through the downpour of the Exxon/Mobil pipeline wearing a black Chanel raincoat."

Terry adds that her mother reminds her of Jessica Fletcher, the

star of *Murder, She Wrote*.

"Because behind the snazzy clothes, green thumb and petite frame, there is a huge brain that must figure out mysteries."

A love for teaching

After raising her two daughters, Karl returned to the School of Medicine as a research assistant in preventive medicine in 1959 and has worked her way up to her current position.

Karl also is a very active member of the Medical School Admissions Committee and dedicates much of her time to interviewing applicants.

"I'm always challenging them to their best," Karl says. "The students we interview at the University are always top-notch, but I explain it's not easy to get into medical school here."

"I tell them not to give up, because if they want to be a doctor, there will be someplace they can go. I like to go to bat for my students."

First-year medical student Anne Drewry worked in Karl's lab for three summers while earning a bachelor's degree in biology from Yale University.

"Dr. Karl is a brilliant scientist and really enthusiastic about helping students," Drewry says. "As a young female medical student, it's been encouraging to see how much she has accomplished and what she's had to overcome to get there. She's a great inspiration."

Irene Karl seamlessly moves between her roles of mother, grandmother, wife, scientist and teacher — and does with a great sense of style.

"She isn't just a scientist in a white coat; she's also a mother who happens to love to entertain and is incredibly talented with flowers," Terry says.

"I'm known for wearing flowers with my outfits," Karl says as she unfolds a lab blanket, placing it beneath the violets to protect them from the winter chill. "Flowers just add that little something extra to everything."



The Karls — (from left) Terry, Mike, Irene and Bonnie Staffier — love entertaining and spending time with their extended family.

Irene E. Karl, Ph.D.

Years at the University: 50

Hobbies: Baking, gardening and playing with her godchildren and grandchildren, who all affectionately call her "the candy lady"

Award highlights: Barnes Hospital Distinguished Service, School of Medicine Second Century and Jewish Federation 2002 Woman of Valor awards