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# Record

Sept. 20, 2002

Volume 27 No. 4



## Washington University in St. Louis

### Scientists learn how herpes tricks immune system

By DARRELL E. WARD

Herpes viruses enter the body and hide away in cells, often re-emerging later to cause illnesses such as shingles, genital herpes and cancer.

How these viruses evade the immune system remains poorly understood, but School of Medicine researchers discovered that a mouse herpes virus uses molecules that mimic a cell's proteins to help thwart an immune attack.

The study, published in a recent issue of the journal *Immunity*, also suggests that a branch of the immune system known as the complement system may play a more important role in controlling herpes virus infections than previously thought.

"These findings reveal another molecular mechanism by which viruses evade the immune system," said study leader Herbert W. Virgin, M.D., Ph.D., professor of pathology and immunology and of molecular microbiology. "By targeting this viral protein or by manipulating the complement system, perhaps someday we can develop better treatments for herpes virus infections."

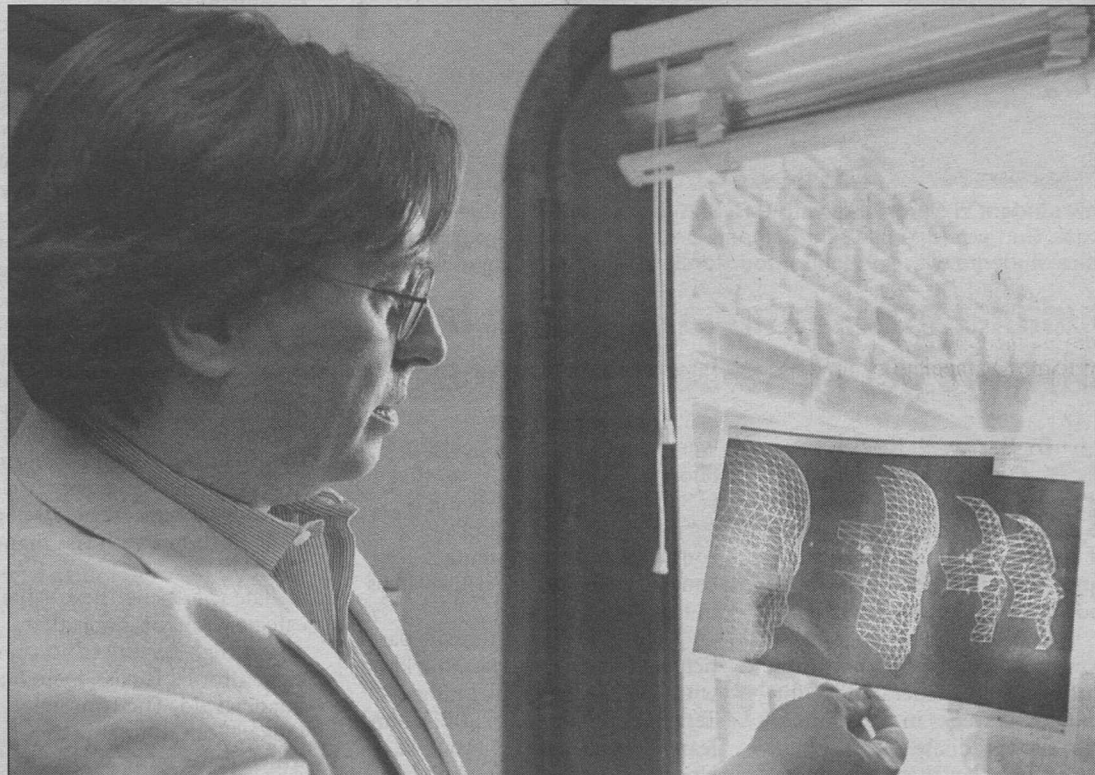
The complement system consists of about 20 different proteins that are transported in the bloodstream. When activated by certain disease-causing organisms, the proteins unite and collect on viruses or on the membranes of virus-infected cells and kill them by punching holes in the membranes. To help prevent the inadvertent and dangerous triggering of this complement reaction, healthy cells produce molecules known as regulators of complement activation (RCA).

Virgin's team found that one type of herpes virus makes its own version of RCA to trick the

See **Herpes**, Page 6



Virgin



DAVID KILPER

Steven G. Krantz, Ph.D., professor and chair of mathematics in Arts & Sciences, observes a mathematical grid of a human face taken by an innovative 3-D scanner. He applies wavelet analysis to the grid to help plastic surgeons create the "perfect 10."

### The mathematics of beauty

## Researchers collaborate to make plastic surgery more precise

By TONY FITZPATRICK

Beauty may well be in the eye of the beholder. But in the future, it could be in the realm of mathematics.

Steven G. Krantz, Ph.D., professor and chair of mathematics in Arts & Sciences, is working with collaborators on the West Coast to create a system that will make the practice of reconstructive surgery analytical.

The system consists of a new type of three-dimensional scanner and sophisticated graphics software that uses wavelets to analyze a face, recommend procedures, assess the difficulty of those procedures and evaluate the outcome of the surgery.

Wavelet analysis is a sophisticated kind of harmonic analysis that is integral in examining and compressing data — video, sound or photographic, for instance — for a wide range of applications.

Krantz is working on the software package. Thomas Lu, Ph.D., an electrical engineer from Petaluma, Calif., developed the scanner. Michael

Cedars, M.D., a plastic surgeon from Berkeley, Calif., is the philosophical guiding light of the project and is going to implement the system with his patients.

The system is not intended to replace plastic surgeons; rather, its purpose is to aid the plastic surgeon in making more precise evaluations and procedures in performing plastic surgery. It will help him or her see problems in new ways and to more accurately predict outcomes.

### Did Cleopatra?

Plastic surgery has been practiced since the days of ancient Egypt, some 2,500 years ago. Many strides have been made in the field since the end of World War II and especially in the past 25 years.

For instance, it's now possible for plastic surgeons to perform a procedure to change the distance between your eyes.

In spite of this sophistication, the plastic surgeon essentially relies on his or her wits when per-

See **Mathematics**, Page 6

### O'Sullivan new chair of Faculty Senate Council

By KEVIN M. KILEY

Joseph A. O'Sullivan, Ph.D., professor of electrical engineering, has been elected chair of the Faculty Senate and the Faculty Senate Council for this academic year.

"It's an honor to be in a position to serve the faculty and give something back to the University," said O'Sullivan, who also is a professor of biomedical engineering in the School of Engineering & Applied Science and an associate professor of radiology in the School of Medicine.

The Faculty Senate Council brings together 15 representatives from the University's eight schools. The council serves as liaison between the administration and the faculty on a broad range of issues touching virtually all aspects of campus life.

The Faculty Senate is comprised of all faculty members.

"We are concerned in particular with the issues that affect academic freedom and tenure," O'Sullivan said. "We provide feedback to the administration on various matters that affect faculty, such as benefits."

As chair of the Faculty Senate and the Faculty Senate Council, O'Sullivan represents the faculty on the University Council, the University Management Team and the Sesquicentennial Commission. In addition, O'Sullivan and the council's secretary, William E. Buhro, Ph.D., professor of chemistry in Arts & Sciences, are the two faculty representatives to the Board of Trustees.

O'Sullivan succeeds Philip E. See **O'Sullivan**, Page 6

It's an honor to be in a position to serve the faculty and give something back to the University.

JOSEPH A. O'SULLIVAN

## Scrumptious scallops

### Chef wins national award for recipe

By NEIL SCHOENHERR

University's food ranked best in country. Page 6

When Marc Foley, executive sous-chef with Bon Appétit, entered the Culinary Challenge recipe contest sponsored by the National Association of College and University Food Services, his only instructions were that the recipe had to be original and had to use scallops.

Foley's concoction, "Seared Sea Scallops With Vegetable Couscous and Tomatillo Gazpacho," earned him first place in the nationwide competition.

"I'm excited," Foley said. "I was kind of surprised, but it's nice to be recognized like this."

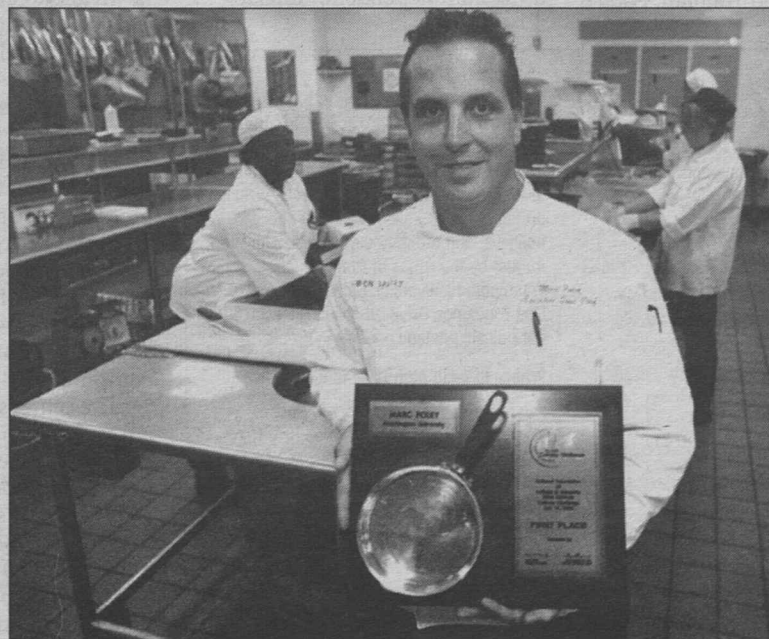
Foley, originally from Nantucket, Mass.,

has been with the University and Bon Appétit since August 2000. He has 15 years of culinary experience working in restaurants throughout the St. Louis metropolitan area, including Zhivago's, serving Russian cuisine; the Cheshire Inn; and Portabella's.

He has also worked in Miami, for Norman Van Aken's Stars and Stripes restaurant, and at the Raleigh Hotel on South Beach.

"Marc is creative, talented and a real team player," said Steve Hoffner, assistant vice chancellor for students and director of operations. "It's obvious that he enjoys what

See **Recipe**, Page 6



Mary Butkus

Marc Foley displays his first-prize award from the Culinary Challenge recipe contest, which was sponsored by the National Association of College and University Food Services.

## Treiman named to Baker chair

Rebecca Treiman, Ph.D., a leading scholar of cognitive and linguistic processes influencing how children learn to read, write and spell, has been named as the inaugural holder of the Burke & Elizabeth High Baker Professorship in Child Developmental Psychology in Arts & Sciences, announced Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences.

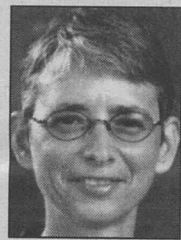
Treiman will be formally installed in an Oct. 14 ceremony.

The Burke & Elizabeth High Baker Professorship in Child Developmental Psychology was established as the result of a generous gift from Elizabeth High Baker, a 1940 University alumna and a longtime benefactor of Arts & Sciences.

She and her husband, Burke Baker Jr., who is now deceased, shared a lifelong interest in making children's lives better. She established the professorship in order to perpetuate that interest.

"The Bakers' desire to improve children's lives is a noble one, and is well-served by the work being done here at Washington University," Chancellor Mark S. Wrighton said. "We are enormously grateful to Mrs. Baker for helping us work toward this important goal and cannot thank her enough for her trust in and support of Washington University."

Treiman's research deals with the basic cognitive and linguistic processes that are involved in learning to read and write. She has examined such topics as the linguistic bases of spelling errors in normal and dyslexic children, and the development of phonological skills.



Treiman

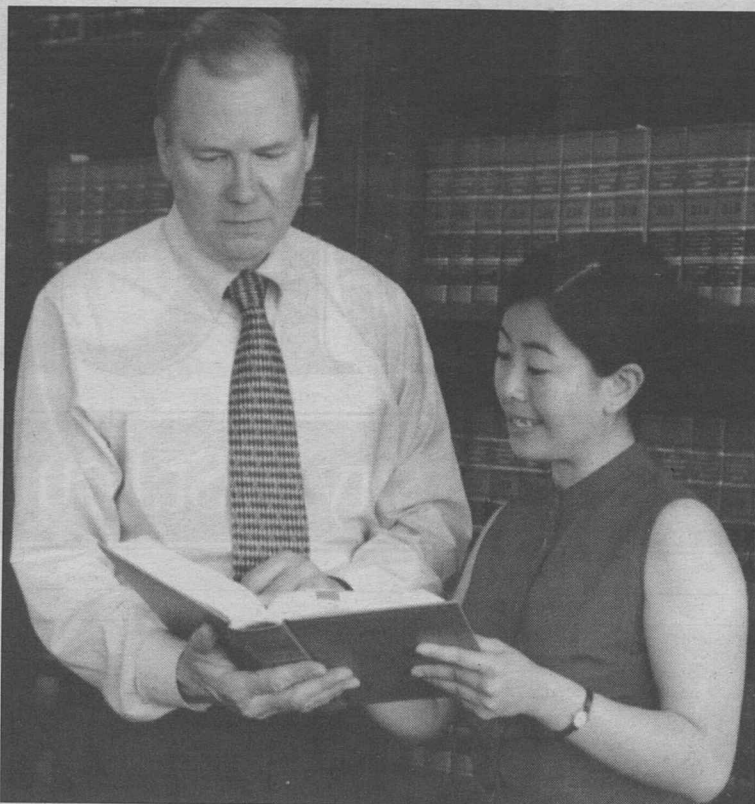
She is particularly interested in how children learn to connect print and speech and the problems that they sometimes encounter in doing so.

She joined the Arts & Sciences faculty this year having previously held faculty positions at Indiana University and at Wayne State University, as well as visiting positions at the Medical Research Applied Psychology Unit in England and at the University of Queensland in Australia.

"I am delighted that Rebecca Treiman has joined the faculty of Arts & Sciences," Macias said. "She is an internationally known scholar in the field of child developmental psychology, and she will add considerable strength to our department."

"Mrs. Baker's generosity has made it possible for us to attract Professor Treiman to this important position in our Department

See Treiman, Page 5



Law student Yi Sun works with U.S. Bankruptcy Court Judge James Barta. Sun was one of 13 participants an observational program that pairs students with a judge for four-to-six weeks in the summer.

## Judicial observational program lets students get close-up experiences

By JESSICA N. ROBERTS

This summer, the School of Law offered its international master of law (LL.M.) students an opportunity to gain a close-up look at the U.S. judicial system.

An observational program, now in its fourth year, pairs these students with a federal judge for four-to-six weeks in the summer after they graduate.

"I think that this program is the capstone of our international LL.M. program and not only is a wonderful educational experience for foreign attorneys but also is important for the U.S.," said Michelle Shoresman, Ph.D., assistant dean for graduate and joint-degree programs and director of the international LL.M. program.

"The U.S. exports some of its worst culture — its worst television programs and its worst movies — and this is disseminated to millions of people. But the best of what our culture has to offer — the rule of law and an independent judiciary — can only be disseminated one by one. The international students with whom our local judiciary works one on one are the change agents for their countries."

Among the students' activities are writing memorandums and orders for the judge, viewing pre-trial motions and witnessing jury selection and sentencing. The goal of the observational program is to gain a deeper understanding of what was learned in the classroom and to develop practical skills that can be used when they return to practice law in their home countries.

"These students are the young leaders who will be on the forefront fighting for the rule of law in their home countries and creating an independent judiciary

where none currently exists," Shoresman said. "We know that U.S. security and well-being is very much tied to that of other countries and that making these concepts a reality are critical steps in that direction."

This summer, 13 students participated in the program, working with U.S. District Court judges Terry I. Adelman, Gerald B. Cohn, Jean C. Hamilton and David D. Noce; U.S. Circuit Court judges Joan M. Burger, Patricia L. Cohen and Timothy J. Wilson; and U.S. Bankruptcy Court Judge James Barta.

Shoresman recently was appointed to the academic committee that will work with the U.S. Judicial Conference's Committee on International Judicial Relations Taskforce on Education to help develop and promote judicial observation programs for international students at other law schools around the country.

The law school's international LL.M. program allows practicing attorneys or recent law school graduates from outside the United States to gain practical and theoretical knowledge of U.S. and international law, develop expertise in a specialized field of law, strengthen their ability to advocate for clients who have business dealings in the United States or with U.S. companies and firms, improve their representation of U.S. clients who want to conduct business in their countries, build an international network of professional contacts and refine their English skills and understanding of U.S. culture.

## Supercomputing on display Sept. 25

The University community is invited to an inauguration ceremony and tour of the Center for Scientific Parallel Computing on Sept. 25.

The event begins with remarks from 2-3 p.m. in Crow Hall, Room 204. A tour will start at 3 p.m. in the center's new location, the former Hilltop Campus Power Plant.

Beverly Berger, representing the National Science Foundation, which helped fund the center, will speak, as well as some of the key users of the center's two supercomputers.

The center's supercomputers are available to research groups throughout the University. A next-generation supercomputer will be delivered next summer. The new machine will boost the University into the top 10 of U.S. universities in terms of number-crunching power.

For more information on the center or event, call 935-5289.

## University moves to 12th-place tie in U.S. News undergrad rankings

By NEIL SCHOENHERR

Washington University is now tied with the University of Chicago for 12th place in undergraduate programs, according to *U.S. News & World Report* magazine.

Consistently ranked among America's 20 best national universities, Washington University climbed two notches from last year's tie for 14th among the 249 national universities rated by *U.S. News*. The tie for 12th is the best undergraduate ranking of the University by *U.S. News* since the publication began its rankings in the 1980s.

The *U.S. News & World Report* undergraduate rankings are derived from data gathered from each institution. This data is broken down into categories and assigned a weight reflecting the magazine's judgment about which measures of quality matter most.

This year's results, published in the magazine's Sept. 23 issue that went on sale Sept. 16, rank the University as third in financial resources, 11th in faculty resources and seventh in alumni giving. The University tied for 12th in percentage (70 percent) of classes with less than 20 students.

The *U.S. News* "Best Value" category ranks schools that offer a high-quality education at an affordable cost, including financial aid. The University ranked 16th in total value, which is the same as last year's ranking.

"It is gratifying to see recognition coming to Washington University," Chancellor Mark S. Wrighton said. "Our success is

due to the excellent students, faculty and staff who bring great value to the educational environment here. We have been generously supported by our alumni, friends, corporations and foundations in our efforts to create the best programs for education and scholarship. Continued program development and support will enhance our impact and value to society."

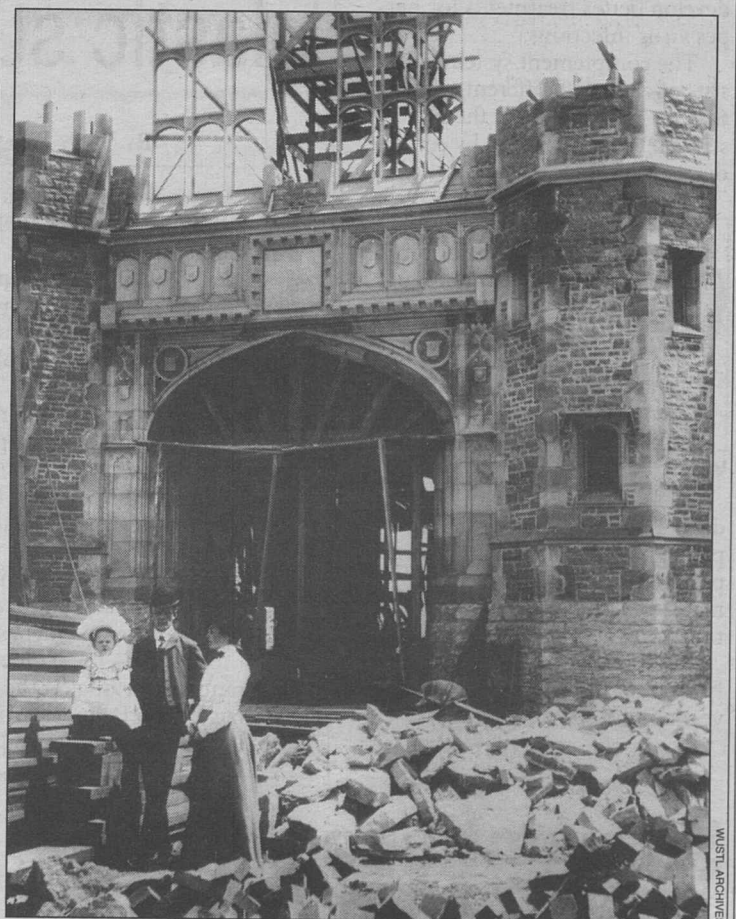
The Olin School of Business was tied for 14th, an increase from 16th a year ago. The Olin School tied with three other undergraduate business programs: Ohio State University, Purdue University and the University of Minnesota.

"Our graduates from the bachelor of science in business administration program delight their employers with the level of their capability and training," said Stuart I. Greenbaum, Ph.D., dean of the Olin School. "It is truly a cutting-edge program, offering a range of choices unavailable in most undergraduate programs. We recently introduced a new major in managerial economics and strategy, which is groundbreaking for an undergraduate business program."

The School of Engineering & Applied Science was ranked 44th.

The newsstand book, *America's Best Colleges*, which contains the *U.S. News* college rankings, will go on sale Sept. 16. Most of the rankings and some of the articles from the book will be in the Sept. 23 issue of the magazine.

## PICTURING OUR PAST



Brookings Hall is named for Robert S. Brookings. Completed in 1902, Brookings Hall was leased by the University to be the administrative center for the 1904 World's Fair and today serves as the administrative center of the University. Robert S. Brookings was born in 1850 and later came to St. Louis to work for Cupples & Marston, a woodenware and willowware wholesale business. He and his brother were eventually made equal partners in the business, and Robert took upon himself the responsibility of moving the University to its current location. His gifts to the University in his lifetime are usually estimated at \$5 million. Brookings also was the founder of the Brookings Institution in Washington, D.C., and served as chairman of the University's Board of Trustees from 1895-1928.

Washington University will be celebrating its 150th anniversary in 2003-04. Special programs and events will be announced as the yearlong observance approaches.

## Record

Washington University community news

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Washington University in St. Louis

## School of Medicine Update

# Does brain artery bypass prevents future strokes?

By GILA Z. RECKESS

The School of Medicine is leading a multicenter effort to see whether brain artery bypass surgery prevents people from having a second stroke.

The medical school team received a five-year, \$17 million grant from the National Institute of Neurological Disorders and Stroke and now is looking for volunteers to participate.

Each year, about 80,000 Americans develop complete blockage of one of the carotid arteries, the main blood vessels on each side of the neck that supply

the brain with blood, resulting in either a stroke or a transient ischemic attack (a milder form of stroke).

A team headed by William J. Powers, M.D., professor of neurology and neurological surgery and of radiology, and Robert L. Grubb Jr., M.D., the Herbert Lourie Professor of Neurological Surgery and professor of radiology, has been studying the best way to treat these patients to prevent another stroke.

They discovered that some people develop their own natural bypasses, with smaller vessels taking over for the clogged carotid.

The team found that pictures of blood flow and oxygen use in the brain taken by positron emission tomography (PET) can identify those who already have developed a natural bypass.

In 1998, the team published an article in the *Journal of the American Medical Association*, which showed that only about 5 percent of people who developed a natural bypass had a stroke on the same side of the brain within two years, compared with more than 26 percent of people who did not develop a natural bypass.

"At the moment, these people do really badly even with the best medical treatments available," Powers said. "We believe this trial is an opportunity to explore a promising alternative."

Brain artery bypass surgery was developed and tested in the 1970s in patients with completely blocked carotid arteries. It was abandoned in the mid-1980s

because research showed that the surgery did not always prevent future strokes, and the risks of surgery outweighed the benefits. However, it was performed on all patients at that time, whether they had developed a natural bypass or not.

"Since brain surgery always has potential complications, operating on people who did not need the surgery may have clouded results from early studies," Powers said.

By performing this surgery only on people who have not already developed a bypass on their own, the team will determine if the procedure's results will be more successful than the original findings in the '80s.

Individuals with carotid artery blockage who have had a stroke or a transient ischemic attack within the last four months may be eligible for the study.

Researchers will perform free PET brain scans of all participants. Half of the participants

whose PET scans show that they have not developed a natural bypass will be randomly assigned to undergo free brain artery bypass surgery. All participants will continue medical treatment under the supervision of their primary care physician.

Powers is the principal investigator of the trial, which includes 29 institutions from the United States and Canada. He and Grubb direct the clinical coordinating center for the multicenter trial, which is located at the medical school.

Colin P. Derdeyn, M.D., associate professor of radiology, Ralph G. Dacey Jr., M.D., the Edith R. and Henry G. Schwartz Professor and chairman of the Department of Neurological Surgery, and Michael R. Chicoine, M.D., associate professor of neurological surgery, will care for patients who enroll in the study.

For more information, contact Susanne Fritsch at 362-3466.

## Maximizing medicine

Physicians, students rave about Mini-Medical School

By KIMBERLY LEYDIG

Are you addicted to ER? Do you still regret never taking that anatomy class in college? Maybe maintaining good health is one of your top priorities.

Whatever the case may be, everyone from stay-at-home moms to top executives rave about the University's Mini-Medical School Program.

That might be because many of the School of Medicine's world-renowned physicians teach the courses, which cover everything from how to treat nagging sports injuries to new treatments for mental illness. Students also tour facilities such as the Genome Sequencing Center and participate in hands-on laboratories.

Cynthia Wichelman, M.D., assistant professor of medicine and Mini-Medical School course director, said that the students are always a "pleasure to teach, with their varied backgrounds and keen interest in medicine."

After students requested another course, Mini-Medical School III was introduced last fall. In the advanced course, students learn from medical experts — and their

patients — in compelling presentations on several fascinating diseases.

Each of the three courses, which are limited to 110 students, consists of eight two-hour evening sessions that cover a wide spectrum of medicine presented in an easy-to-understand style.

"Without exception, the subject matter and the speakers were as good as I have heard in many years of study," said former student and engineer Tim Giddens. "The topics were presented in a way a layperson could understand and apply the knowledge."

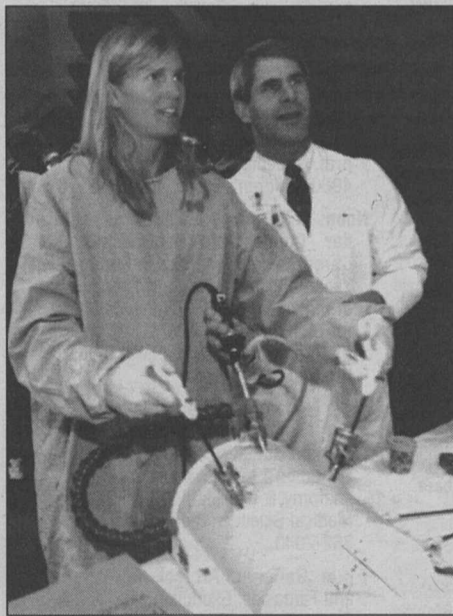
But it's not just aspiring students that benefit from the program.

Teaching Mini-Medical School, said Stephen S. Lefrak, M.D., professor of medicine and dean and director of the Program for Humanities in Medicine, is in some ways like all teaching: The teacher benefits more than the students.

"It helps me clarify what the important issues really are in medical ethics before the public," Lefrak said. "The questions from the attendees provide a focus that is frequently different than that from health care professionals. It is illuminating to hear from young people, lawyers, business executives and others who have creative ideas, new perspectives and whose voices are unfortunately frequently missing from 'medical' discussions."

"It is very interesting to discuss developing medical treatments with such a diverse group of people," added Ralph G. Dacey Jr., M.D., the Edith R. and Henry G. Schwartz professor and chairman of neurological surgery.

Wichelman stressed that the medical school's exceptional faculty is why the program is such a continuing success. "If it wasn't for the faculty, Mini-Med School wouldn't be what it is today. I am most grateful to our outstanding faculty — they support the program and return year after year."



Nathaniel J. Soper, M.D., teaches Mini-Medical student Kim Cella how to use a laparoscope. Mini-Med I and III begin the first week of October; Mini-Med II will be held this spring. For more information, go to [medicine.wustl.edu/minimed](http://medicine.wustl.edu/minimed) or call Mary Lubber at 362-4380 to register.

## Nominations sought for awards

It's time to reward dedicated co-workers for their outstanding job performance.

The **Dean's Distinguished Service Award** continues to be the highest honor awarded to a staff member while the new awards — **Research Support, Operations Staff and Clinical Care** — help to further identify staff efforts within defined job classifications.

All awards include generous cash prizes and personalized recognition in the *Record* and at the Senior Administrators Lunch. For detailed information and nomination forms, log onto [aladdin.wustl.edu/jobs.nsf](http://aladdin.wustl.edu/jobs.nsf) or check the posters, which are distributed throughout the School of Medicine.

Nominate fellow staff members before Oct. 31.



**Lasting lesson** At the Gateway to a Cure 2002 Resource Fair, third-year occupational therapy student Darci Redmond gets a lesson from Zach Prosser of Chesterfield, Mo., on how remote control cars can improve hand-eye coordination for people with disabilities. The Sept. 7 event, held at the Rehabilitation Institute of St. Louis, featured products, companies, services and programs to enhance the lives of those with special needs.

## Gray named associate dean for faculty affairs

By KIMBERLY LEYDIG

Diana L. Gray, M.D., associate professor of obstetrics and gynecology and of radiology, has been named associate dean for faculty affairs in the School of Medicine.

"We are most pleased that Diana Gray has accepted this position. Her background and communication skills will be an incredible asset to this office," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school. Peck announced Gray's appointment last month.

In her new position, Gray will work with department heads and faculty to achieve a consistent, supportive working environment by collaborating with department heads to achieve seamless communication between administration and faculty.

"I'm working toward a gender-neutral environment and striving to increase gender and ethnic diversity at all levels," she said.

She also added that she'll work with department heads to assure equitable compensation and promotion policies to sustain outstanding researchers, clinicians and teachers.

"I'm eagerly anticipating the

challenges and rewards my new position will bring," she said. "I look forward to working closely with faculty, department heads and division chiefs to enhance quality of life and productivity for all faculty."

By overseeing annual reviews, Gray will ensure that junior faculty receive the appropriate mentoring that is essential for long-term professional development.

The position also includes maintaining and distributing policies to faculty and representing the medical school at committees and conferences relevant to faculty policies and development. In addition, she oversees orientation events for new faculty members and initiates forums on faculty development.

Gray has been an elected faculty representative to the medical school's Faculty Practice Plan Board of Directors since its inception. She is co-master of the Cori Society and an appointed member of the Governor's Genetic Disease Advisory Committee for

the State of Missouri.

Since its inception, Gray has been active in the Academic Women's Network, serving on the board of directors and as president in 1999. She also was the former division director of genetics and ultrasound in the ob/gyn department and director of prenatal genetic services for Barnes-Jewish Hospital.

Gray earned a bachelor's degree in 1977 and her medical degree in 1981, both from the University of Illinois. After completing a residency in obstetrics and gynecology and fellowships in OB/GYN ultrasound and in medical genetics at the medical school, Barnes-Jewish and St. Louis Children's hospitals, she continued in the department as an instructor. She later received a joint appointment in radiology in 1990. She is also a diplomate of both the American Board of Obstetrics and Gynecology and the American Board of Medical Genetics.

"The past 20 years of career association with the medical school, and the time devoted to departmental administrative, faculty leadership and advocacy roles provide a strong foundation for my new position," Gray said.



Gray







## Notables

### Introducing new faculty members

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

**Paul A. Checchia, M.D.**, assistant professor of pediatrics, comes to the School of Medicine from Loma Linda University Children's Hospital (LLUCH), where he specialized in cardiovascular physiology and postoperative cardio-thoracic management. Checchia, a Chicago native, earned a medical degree from Southern Illinois University and a bachelor's degree in English from Northwestern University. He received the Faculty-Teacher of the Year Award in pediatric emergency medicine. His research interests include acute myocardial injury and the post-operative care of children.

**Joshua B. Smith, Ph.D.**, joins the Department of Earth & Planetary Sciences in Arts & Sciences as assistant professor. He earned a bachelor's from the University of Massachusetts in 1994, and a master's in 1997 and a doctorate in 2002, both from the University of Pennsylvania. He studies the interactions of ancient organisms and their environments, particularly the paleoecology of ancient ecosystems that contained dinosaurs and other Mesozoic "lower vertebrates." His efforts are currently largely focused on a sequence of 94 million-year-old rocks in the Bahariya Oasis of Egypt that has produced one of the most enigmatic dinosaur faunas ever discovered, including some of the largest known terrestrial animals.

**Priya Joshi, Ph.D.**, joins the Department of English in Arts & Sciences as assistant professor. She earned a doctorate with distinction in English and comparative literature from Columbia University in 1995. Her research and teaching interests include imperialism and its legacies; narrative and postcolonial theory; history of the book; the modern novel; popular Hindi film; and nationalism. Before coming to WUSTL, she taught in the English department at the University of California, Berkeley. Her research has been supported by fellowships from the National Endowment for the Humanities and the American Institute for Indian Studies.

**Marina MacKay, Ph.D.**, joins the Department of English in Arts & Sciences as assistant professor. She earned a master's from the University of St. Andrews in 1999 and a doctorate in 2000 from the University of East Anglia, where she was employed as a tutor in literature. Her primary research projects are in modernist and mid-20th-century British fiction. A central contention of her research is that modernism extends well-beyond World War II, and she is interested in the formal and thematic continuities between pre-war and post-war fiction. She also is particularly interested in the relationships between British modernists and continental Europe between the wars, examining the ways in which these writers — who are simultaneously journalists and travel writers as well as novelists — respond to international crisis by both interrogating "Britishness" and mythologizing continental nations.

### Of note

**Rebecca J. DeRoo, Ph.D.**, assistant professor of art history, recently chaired a session at the annual meeting of the College Art Association, titled "Creating Community: Feminist Art and Exhibitions of the 1970s." ...

**Catherine A. Collins, Ph.D.**, post-doctoral fellow in molecular biology and pharmacology, has received a three-year, \$99,000 grant from the Damon Runyon Cancer Research Foundation for research titled "The Role of Ubiquitination in Regulating Synaptic Growth." ...

**Thomas W. Ferkol Jr., M.D.**, associate professor of pediatrics, has received a one-year, \$1,500 grant from the Cystic Fibrosis Foundation for research titled "Quantification of Pulmonary Neutrophil Activity in Cystic Fibrosis Using Radiolabeled Fluorodeoxyglucose and PET Imaging." ...

**Richard J. Battafarano, M.D., Ph.D.**, assistant professor of surgery, has received a one-year, \$30,000 grant from the Thoracic Surgery Foundation for Research and Education. ...

**Michael A. Province, Ph.D.**, professor of biostatistics, has received a one-year, \$50,000 grant from the Longer Life Foundation for research titled "Disease Comorbidity and Survival in the NHLBI Family Heart Study." ...

**Washington University's Project ARK** has received a one-year, \$7,000 grant from The AIDS Foundation of St. Louis, and a one-year, \$49,588 grant from the Children Affected by AIDS Foundation for a program titled "Forever Family." ...



**Every detail counts** Caroline Blaker (left), a senior in the School of Art, discusses her ceramics with local resident Kim Goldman during the Clayton Art Fair Sept. 14. Blaker was one of about a dozen students to take part in the annual festival — the third-largest event of its kind in the United States — through a unique program developed by Ron Fondaw, professor in the School of Art and area coordinator of ceramics. Students intern with established artists one year and return the following year to display booths of their own.

**Elena Ignatove, Ph.D.**, research associate of otolaryngology, has received a one-year, \$10,000 grant from The National Organization for Hearing Research Foundation for research titled "Molecular Mechanisms Determining the Formation of Aragonitic Versus Calcitic Otoliths." ...

**Jay W. Heinecke, M.D.**, professor of medicine, has received a one-year, \$40,000 subcontracted grant from Columbia University

for research titled "Proinflammatory Enzymes in Amyotrophic Lateral Sclerosis." ...

**Yousef Abu-Amer, Ph.D.**, assistant professor of orthopaedic surgery, has received a three-year, \$97,437 grant from Shriners Hospital for Children for research titled "Regulation of Bone Erosion Relevant to Juvenile Rheumatoid Arthritis." ...

**Kyunghee Choi, Ph.D.**, assistant professor of pathology and

immunology, has received a three-year, \$80,770 grant from the Tokyo Metropolitan Institute of Medical Science for research on hemangioblasts. ...

**Brian A. Wrenn, Ph.D.**, assistant professor of civil engineering, has received a one-year grant of \$63,000 from the National Science Foundation for research titled "REU Site: Environmental Engineering Science."

## Obituaries

### Brooks, 77; professor emeritus of music

Tilford U. Brooks, Ed.D., professor emeritus and former chair of the Department of Music in Arts & Sciences, died Thursday, Sept. 5, 2002, at Barnes-Jewish Extended Care in Clayton, Mo., of a head injury suffered during a fall in May at a different facility. He was 77.

Brooks was born in East St. Louis and grew up across the street from jazz pioneer Miles

Davis. During World War II, Brooks served as a P-47 fighter pilot with the famed Tuskegee Army Airfield in 1949 earned a bachelor's degree in music education from Southern Illinois University at Carbondale.

He earned both a master's degree and a doctorate in education from Washington University, in 1960 and 1972, respectively.

Brooks played trombone in several groups, notably the George Hudson Band, and from 1950-1971 served as director of music education for East St. Louis School District 189. He joined the faculty of Washington University in 1970 as a lecturer in Black Studies and was named assistant professor in 1972.

He joined the music department the following year as associate professor and served as chair from 1976-1984 — the first African-American to hold that position. He was named professor emeritus in 1988.

Brooks was an authority on the history of African-American

music. His highly regarded survey *America's Black Musical Heritage* (1984), provides an overview of significant genres, composers and works while also examining their social, political and cultural contexts.

In 1986, Brooks joined the St. Louis Public Schools as a music supervisor, retiring in 1993. He then taught for two years at the State University of New York at Buffalo.

Brooks is survived by his former wife, Ethelyn Harris Pappas of St. Louis; three daughters, Gerri B. Dickerson of Atlanta, Denise B. Hervey of Clayton and Tracey L. Brooks of Chicago; four granddaughters; and two great-granddaughters.

A memorial service was held Sept. 14 at Valhalla Chapel, 7600 St. Charles Rock Road.

Memorial contributions can be made to Washington University's Friends of Music, Campus Box 1032, St. Louis, MO 63130; to Young Audiences of St. Louis, 8045 Big Bend Blvd., Suite 100, St. Louis, MO 63119; or to the National Caregiving Foundation, 801 N. Pitt St., Suite 116, Alexandria, VA 22314.

### Kamen, 89

Martin D. Kamen, one of the scientists who discovered radioactive carbon-14 and in doing so helped lay a foundation for deciphering the chemical processes in plants and animals, died Saturday, Aug. 31, 2002, at his home in Santa Barbara, Calif. He was 89. Kamen was a professor of biochemistry at the University from 1945-1957.

## Campus Authors

Michael Wyession, Ph.D., associate professor of earth and planetary sciences in Arts & Sciences

### *An Introduction to Seismology, Earthquakes, and Earth Structure*

(Blackwell Publishing, 2003)

Michael Wyession, Ph.D., associate professor of earth and planetary sciences in Arts & Sciences, is co-author of *An Introduction to Seismology, Earthquakes, and Earth Structure*.

His co-author is Seth Stein, Ph.D., professor of geological sciences at Northwestern University.

Wyession's expertise is the geophysics of the Earth's core-mantle boundary. He is the recipient of a Packard Foundation and National Science Foundation Presidential Faculty Fellowship for his research into the structure of the Earth's deep interior.

The book is an introduction to seismology and its role in the Earth sciences and is written for advanced undergraduates and beginning graduate students.

The fundamentals of seismic wave propagation are developed using a physical approach and then applied to show how refraction, reflection and teleseismic techniques are used to study the structure and composition and evolution of the Earth.

"It took five long years of labor, but it was worth it because there is no book equivalent to this in our field,"

Wyession said.

The 500-page work contains more than 1,300 equations, 600 figures and 180 homework problems, with the solutions and figures given on an encrypted Web page for instructors.

"We based the pedagogical approach of the book after *The Feynman Lectures on Physics*," presenting material in a hands-on, concept-oriented manner, said Wyession, who also noted that some universities in the United States and abroad already are using portions of the book available in a different format.

The text also addresses the fundamentals of seismometry and applications of seismology to societal issues. Special attention is paid to help students visualize connections between different topics and view seismology as an integrated science.

According to the publisher, *An Introduction to Seismology, Earthquakes, and Earth Structure* gives an excellent overview for students of geophysics and tectonics and provides a strong foundation for further studies in seismology.

— Tony Fitzpatrick



Brooks



Wyession



## Washington People

**A**rtists are working in Bob Hansman's studio, drawing portraits, printing woodcuts, honing skills and sharpening instincts. Hansman follows their progress, praising, cajoling, improvising designs and leading by example.

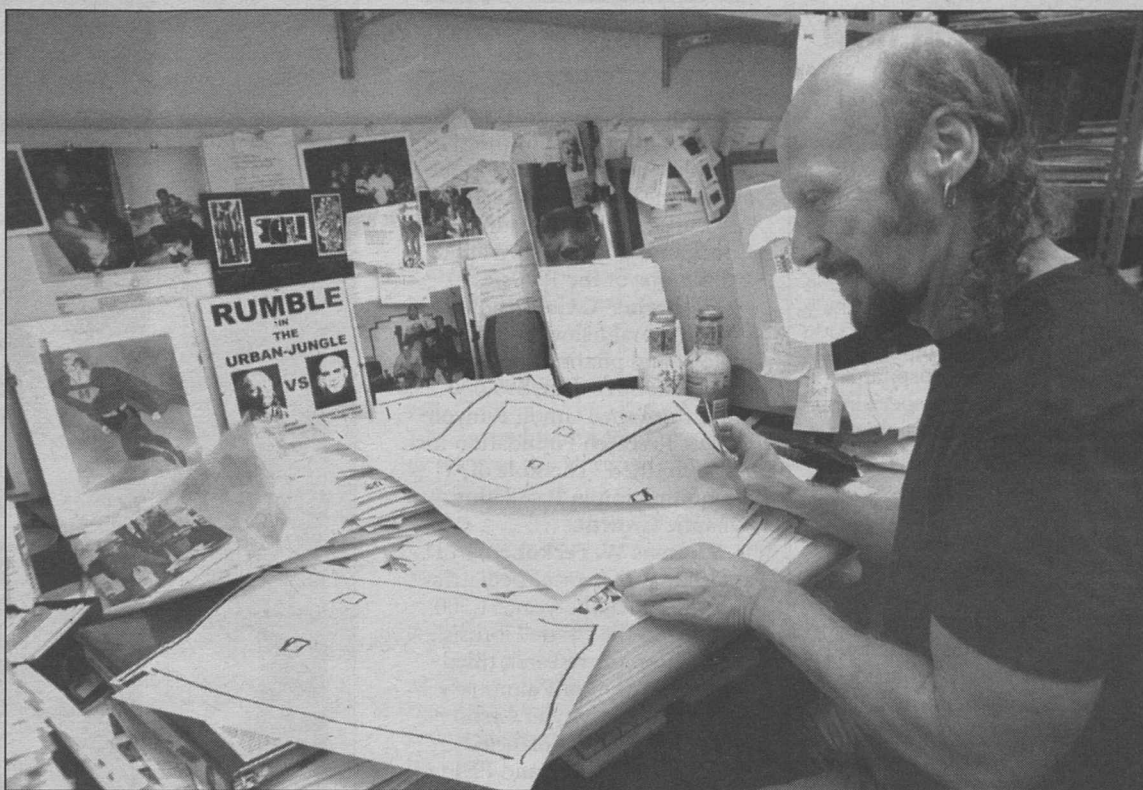
But this is no trendy loft or hi-tech commercial outfit. Since 1993, Hansman — associate professor and artist-in-residence in the School of Architecture — has run City Faces, a small but nationally recognized arts education program based in St. Louis' Clinton-Peabody housing project.

"The kids learn about problem solving, about delayed gratification, about breaking big problems into small component parts — all that metaphorical stuff," Hansman explained. "Drawing is a kind of a vehicle that gives us a chance to talk, a chance to shape each other's lives."

Still, the projects are a hard place to grow up and, in close to a decade of mentoring, Hansman has witnessed too many tragedies.

In 1996, 17-year-old Jermaine Roberts, another City Faces mainstay, died of complications from sickle cell anemia. In 2000, graffiti artist Jonah Anderson, whom Hansman befriended through the annual Paint Louis festival, was beaten into a coma.

"This summer started off with a kid getting killed, and then another one got killed and two got shot," Hansman said, voice filled with emotion. "I think a lot of programs come in and out fast enough that they get an artificial sense of success, but with time it's more humbling. You really get to see what you're up against, all these forces that act on the kids



Bob Hansman, associate professor in the School of Architecture, is renowned for his work both as an artist and as a community activist. (The "Super Bob" and "Rumble in the Urban Jungle" drawings at left are gifts from former students.) Last week, for the one-year anniversary of Sept. 11, Hansman participated in an all-school design forum/memorial to the World Trade Center attacks.

# Perseverance personified

Having conquered cancer, Bob Hansman brings art education to at-risk kids

BY LIAM OTTEN

when you're not around." But if Hansman knows one thing, it's perseverance.

Born and raised in Affton, Mo., Hansman frequently was bedridden as a child and remembers his own teachers stopping by the house to drop off assignments. He credits his mother, who died of breast cancer when he was 12, with nurturing his artistic abilities.

"My mom was one of those people who make art out of daily life," Hansman recalled. "Just wrapping presents, we'd build things, sculpt things on them — the wrapping would be better than the presents."

In 1965, Hansman arrived at the University of Kansas, majoring in painting and drawing ("an era of masking tape and spray paint," he recollected) with concentrations in English and religious studies; he even began course work toward a teaching certificate. Yet, nagged by feelings of ill health, he briefly stopped attending classes, though he did complete his bachelor's degree in 1970.

Those ill feelings intensified after graduation, just as Hansman was resettling in Normal, Ill. Long hours in the University of Illinois medical library suggested malignant melanoma.

Sadly, doctors confirmed the self-diagnosis and, worse yet, discovered that the cancer had metastasized throughout his lymphatic system. Ironically, one of the world's top treatment programs was back at the University of Kansas Medical Center in Kansas City.

"I'm going home to die," Hansman remembers thinking. To the amazement of almost everyone, he didn't, and even today routine physicals will generate comments from surprised physicians.

"They're like, 'How are you here?' Hansman said. "Statistically, I hardly exist."

Yet despite rounds of surgery that left him unable to lift his arms, Hansman continued making art.

"I could still move my hands, so I did these little stipple-drawings," with pin-prick-sized dots of ink, he said. "It was like an obsession."

(Ultimately Hansman completed a pair of artists' books in the style: *RATZO*, dedicated to his lost cat, and *Edward*, for a disabled child.)

In 1974, finally well enough for outpatient therapy, Hansman returned to the St. Louis area and confronted a new dilemma: finding a job. In those days, "employers could still ask about your health history," he recalled, grimacing. "I'd go in, fill out an application and never get called back."

After months of frustration, Hansman interviewed for a position at Unique Art Glass, a designer and manufacturer of stained-glass windows. Afterward, standing to shake hands, he realized that the owner was a polio survivor.

"I went home and I just ... I wrote a three-page letter saying,

"You of all people should know that you can have physical disabilities and still be a functioning human being and, dammit, hire me!" Hansman recounted. "A couple of days later, I got a phone call and he goes, 'Got your letter. Can you be here at noon?'"

Over the next 11 years, Hansman went from sweeping floors to heading the art department — major projects included the Missouri Baptist Hospital Chapel and the Anheuser-Busch Tourist Center — and he still maintains a busy free-lance practice. He also began building a substantial graphic-design portfolio, including logos for Vintage Vinyl, Riverport Amphitheater and the St. Louis Black Repertory Company.

But in 1985, life took another turn when a close friend committed suicide.

Hansman was devastated and did not enter the studio for months. Then, exactly one year later, he started working again. With a vengeance.

"It was like, 'round the clock," he recalls. "I had paper ringing the bed, in the bathroom, everywhere. I drew constantly, and it went on for 18 months."

Hansman threw everything at those drawings — graphite, ink, colored pencil and woodcut filtering layers of personal, religious and political iconography. In 1990, he exhibited 14 large "Stations of the Cross" at the MFJ Arts Gallery in downtown St. Louis, each harrowing yet exquisitely crafted image centered on a lone, tormented figure.

In one example, a powerfully built yet headless nude stands silhouetted before a night landscape, one hand clutching a stuffed rabbit, the other a dagger. Airplanes fall in the distance, resembling tiny crucifixes, while streams of handwritten working titles provide journal-like intimacy.

Notices were strong, but Hansman — drained and needing a change — packed his bags for Seattle, where he planned to open a stained-glass shop and perhaps return to school. He never got there.

At the behest of Jim Harris, professor and then-associate dean of architecture (and a reviewer for the *St. Louis Post-Dispatch*), Leslie Lasky, now professor emeritus, offered Hansman a job teaching drawing and basic design.

"It was a funny conversation," Hansman recalled. "Leslie asked me where I was going to be in a year and I said Seattle, and he said, 'No, you'll be at Washington University.' And I said, 'I can't afford Washington University.'" To which Lasky responded, "I don't mean as a student, I mean as a teacher!"

Hansman was overwhelmed by the poetic symmetry: His lost friend had trained as an architect and worked at the Campus Store in Mallinckrodt Student Center.

"Not only did this fulfill my long-lost dream of

being a teacher, it did so through the drawings I'd done for (him), at the university where he worked, and at the architecture school, which was (his) love," Hansman explained, growing subdued. "I understood I'd been given a great gift and that I'd better handle it right."

By any standard, he has. Granted tenure last spring, Hansman received the Student Union Professor of the Year Award for Architecture in 1998-99; the Emerson Electric Excellence in Teaching Award in 2000; and a Founders Day Distinguished Faculty Award in 2001.

He has co-taught courses through the George Warren Brown School of Social Work's Urban Family and Community Development Program; served as faculty sponsor for the local chapter of the National Organization of Minority Architecture Students; and directed architecture's Hewlett Program, a kind of crash-course for freshmen on the relationship between building and community.

"Bob is a person of great talents and great conscience," said architecture Dean Cynthia Weese. "Students arrive believing that architecture is simply about designing wonderful individual buildings for

people who can afford them. Bob introduces the complexities and the ethical dimensions of architecture in the total environment."

Hansman's own commitment to community dates back to college. In 1970, as a campus civil rights and anti-war activist, he was attacked by members of the Ku

**"Bob is a person of great talents and great conscience. Students arrive believing that architecture is simply about designing wonderful individual buildings for people who can afford them. Bob introduces the complexities and the ethical dimensions of architecture in the total environment."**

CYNTHIA WEESE

Klux Klan. The morning he filed charges, his lawyer's office was pipe-bombed.

In 1992, Hansman was giving informal drawing lessons to kids in his neighborhood when Christine Ivich, of the St. Louis Artists' Coalition, arranged for him to teach a pair of summer workshops. A year later, City Faces was launched with support from the Center of Contemporary Art and the Guardian Angel Settlement Association. The program has since earned citations from the White House, the Missouri House of Representatives and Colin Powell's America's Promise campaign, among others.

Hansman's greatest reward, though, is symbolized by the "Hansman Family" T-shirt that enjoys pride of place in his Givens Hall office. The shirt is a Father's Day present from Jovan Hansman, an early City Faces member and the artist's recently adopted son.

"We really connected," Hansman said simply. "Sometimes we're father and son, sometimes we're student and teacher, sometimes we're friends — I think any parent understands that."

"I don't even think of this as a program anymore — it's my life," he mused. "It's just trying to make the deepest and best impression you can, knowing that there's going to be some failure. You don't do this for success; you almost have to do it for stubbornness."

"Most of the really wonderful things in my life have grown out of great tragedy," Hansman added. "No matter how awful something is, a part of me is thinking, 'What good will come from it?' But you can't figure it out in advance."

"A door opens, and you walk through it or you don't."

### Bob Hansman

**Family:** Son, Jovan Hansman

**Education:** Bachelor of fine arts, University of Kansas

#### Award highlights:

- 2001, Washington University Founders Day Distinguished Faculty Award
- 1999, honoree, Colin Powell's America's Promise campaign
- 1997, inducted, Omicron Delta Kappa, The National Leadership Honor Society
- 1997, Missouri House of Representatives Resolution No. 161
- 1997, Missouri Arts Award, Missouri Arts Council
- 1996, citation, *Coming Up Taller: Arts and Humanities Programs for Children and Youth at Risk*, the President's Committee on the Arts and the Humanities