

Washington University School of Medicine

Digital Commons@Becker

Washington University Record

Washington University Publications

12-4-1997

Washington University Record, December 4, 1997

Follow this and additional works at: <https://digitalcommons.wustl.edu/record>

Recommended Citation

Washington University Record, December 4, 1997. Bernard Becker Medical Library Archives.
<https://digitalcommons.wustl.edu/record/778>.

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University Record by an authorized administrator of Digital Commons@Becker. For more information, please contact vanam@wustl.edu.



Sophomore Keith Linnenbringer (foreground) of Sigma Alpha Epsilon (SAE) fraternity helps unload the first of three deliveries made possible by SAE's Point Out Hunger, an innovative project that raised \$20,000 for area hunger relief.

SAE quadruples goal in hunger campaign

Talk about putting the "fill" in philanthropy.

Thousands of hungry St. Louisans will feel the warmth of a meal thanks to a charitable concept that appealed both to the heads and hearts of Washington University students.

Point Out Hunger — Sigma Alpha Epsilon (SAE) fraternity's new-age canned-food drive that allowed University students to transfer their food-service points to a donation fund — netted a staggering \$20,000 during its four-day run from Nov. 19 to 22.

That total quadrupled the goal of \$5,000 that had been labeled "optimistic" by nearly all involved.

"It was magical," said Sunny Schaefer, the executive director of Operation Food Search Inc., an organization that serves as a broker for a network of more than 200 St. Louis community agencies. "It was an ingenious and innovative concept, but it took a lot of hands and heads and hearts to make this mission work."

Point Out Hunger was the brainchild of three senior members of SAE — Dan Leraris, Craig Lottner and Lorne Tritt. As a sophomore, Leraris became frustrated by the use-'em-or-lose-'em nature of the University's prepaid meal-plan points and planted the idea of donating the leftovers. Last year, the trio of marketing majors

nurtured and cultivated the concept. This fall, it sprouted into the fraternity's full-fledged philanthropy project.

What had been years in the making reaped swift and startling benefits.

"Dan's very first donation on the very first day was for 100 points," Lottner said. "From there, things just exploded."

With SAE brothers manning tables at peak times at all University dining areas, the original aim of \$5,000 was surpassed within hours. The first-day collection of \$10,265 more than doubled the goal.

"We didn't know until the end of the night that we hit \$10,000," Lottner said, recalling the painstaking job of counting the donation slips one by one. "As we hit six thousand, seven thousand, eight thousand, nine thousand, ten thousand — we were ecstatic. We were running around the house, yelling and screaming, telling all the guys and making calls to whoever we thought would still be up."

Lottner, Leraris and Tritt resisted the urge to make an after-hours call to Schaefer, who oversees the hunger relief agency that provides food to 90,000 area people each month. Instead, they spilled the beans the next night. "Lorne told me, 'So far we've collected thirteen,'" Schaefer recalled with a laugh. "And I thought, 'Thirteen what? Thirteen dol-

Continued on page 8

Underground Railroad project blends history, technology for city youngsters

Robert Blackmon has heard how his great-grandmother — "three times great," he reckons — picked cotton as a young girl in the fields of Mississippi. "She told my grandma and my grandma told me. That's how I know."

Now 11-year-old Robert is telling the world how thousands of slaves, perhaps even his own kin, found freedom via the Underground Railroad.

Robert is one of 14 students, ranging from grades four through eight, taking part in an endeavor that blends both the old and the new: history and technology. Dubbed "HistoryWeb St. Louis," the project is teaching after-school clubs at Compton-Drew Investigative Learning Center Middle School and Delmar-Harvard Elementary School how to design pages for the World Wide Web. The theme is the Underground Railroad — and the goal is to create an integrated Web site to be posted as an exhibit at the Missouri Historical Society and on the Internet.

Overseeing the project, which is backed by a McDonnell Foundation grant, is Joe Polman, Ph.D., a

postdoctoral research associate in education in Arts and Sciences. James Wertsch, Ph.D., professor and chair of education, is sponsoring Polman.

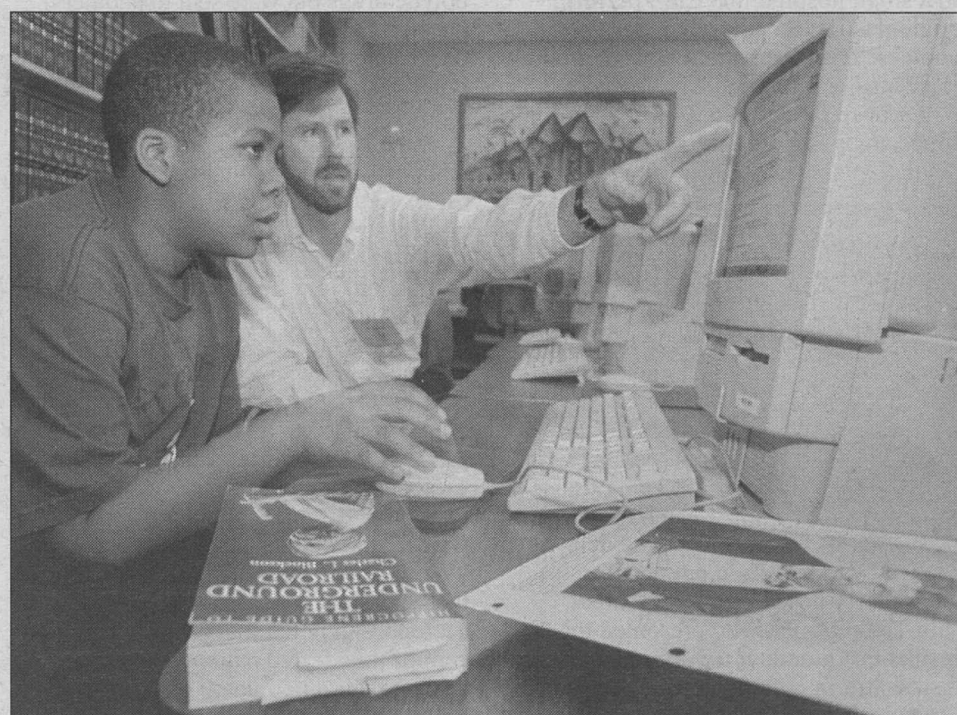
The aim of "HistoryWeb St. Louis," Polman said, is three-fold. Students are being introduced to new technological skills while learning history in a more personal way. The synthesis will allow Polman to further test educational approaches that encourage project-based learning in informal settings.

"History is not just a matter of memorizing what happened on what date," Polman said. "We want to try to begin to make history personally meaningful to these kids and get them interested."

"We've tried to choose an exciting topic, with some issues that are relevant to our local area. St. Louis and Missouri, as we all know, have a really tortured racial history. Missouri was a slave state, bordering Illinois, which was 'free.' In many ways, St. Louis is still a border, and a lot of the issues are still going on today."

"The students get to act as detectives," he continued, "trying to determine what

Continued on page 6



Robert Blackmon, a sixth-grader at Compton-Drew Investigative Learning Center Middle School, and Joe Polman, Ph.D., postdoctoral research associate in education in Arts and Sciences, work on a Web site about the Underground Railroad.

In this issue ...

Costly waiting 2

Delaying angioplasties by transferring heart attack patients to larger hospitals can be deadly

Pondering key questions 3

James P. Crane, M.D., heads up three major initiatives at the School of Medicine

Visiting playwright 5

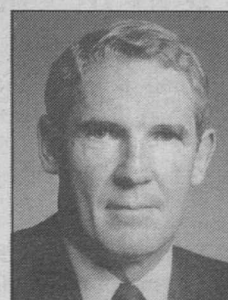
José Rivera visits campus for the Performing Arts Department's production of his play "Marisol"

\$15 million Knight-Emerson gift goes to Olin programs

Washington University has received a \$15 million challenge grant from Emerson Electric Co. and its chairman, Charles F. Knight, for the John M. Olin School of Business, Chancellor Mark S. Wrighton announced. The grant is a combination of company and personal funds. Along with a \$15 million grant from the John M. Olin Foundation in 1988, this is the largest single gift the business school has ever received.

The donation from Emerson and Knight will help the business school accelerate its ascent among top business schools to become a world-class provider

of management education. In particular, the grant will strengthen executive education, a new emphasis including degree and non-degree programs for management professionals. Strengthening these programs, which are in great demand nationwide, and developing an executive education



Charles F. Knight

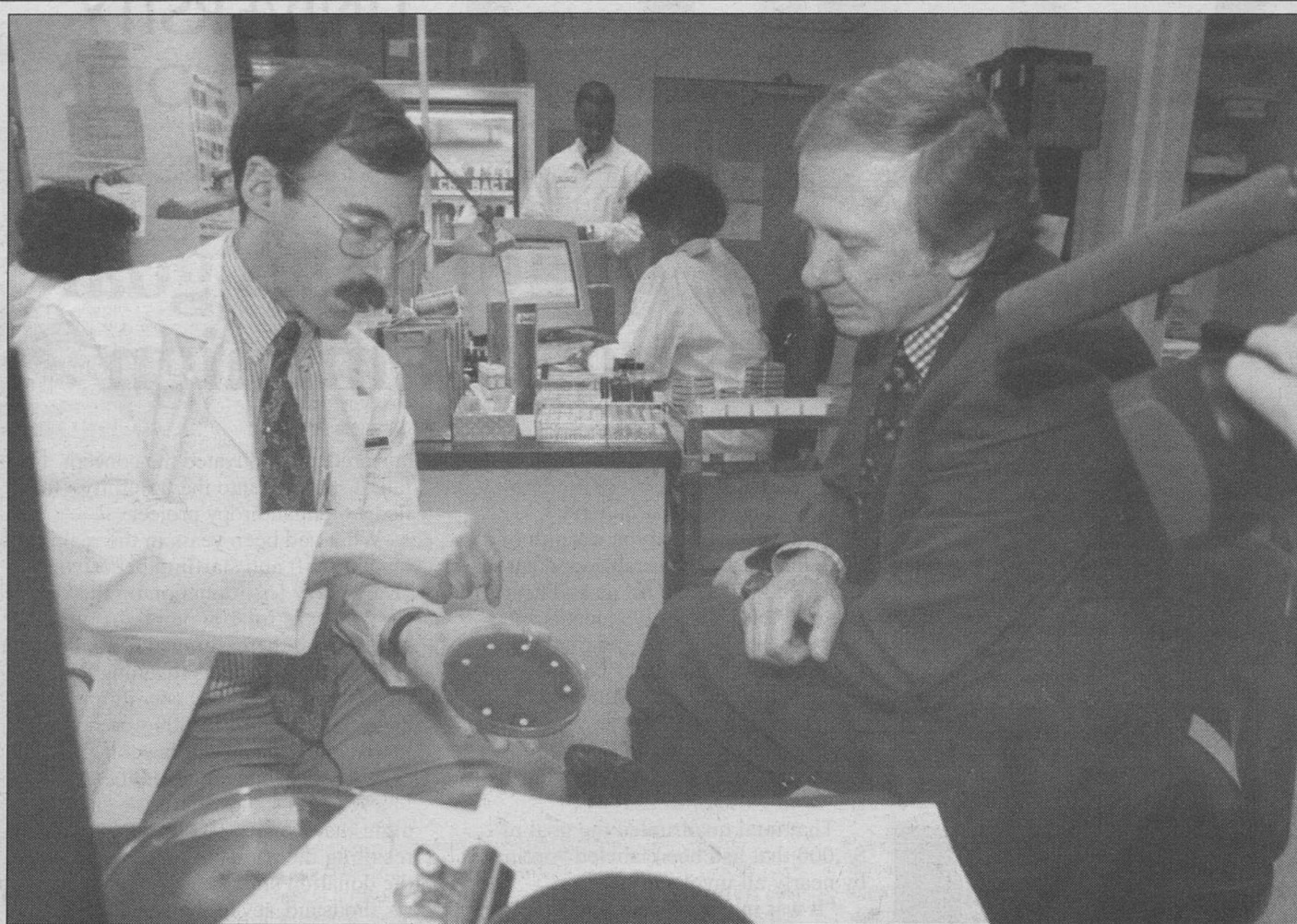
center are among the school's top priorities.

The grant will be used as a challenge to encourage University alumni and friends to support the school's priorities. Terms of the challenge grant are being developed.

"The partnership formed many years ago between Chuck Knight, Emerson Electric and Washington University has been a rewarding one," Wrighton said. "This gift will help us realize our aspirations by augmenting world-class faculty and other essential teaching resources."

Continued on page 8

Medical Update



The facts about pneumococcus

KMOV-TV medical reporter Al Wiman interviews Gregory Storch, M.D., professor of pediatrics, for a story about antibiotic resistance to pneumococcus, which can cause pneumonia and ear infections. The story aired Nov. 25. Last year, School of Medicine faculty appeared some 2,000 times in major newspapers and magazines and on radio and television.

Peck named to Research!America Board of Directors

William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, has been named to the board of directors of Research!America, a national not-for-profit alliance that works to promote medical research.

A world-renowned internist, Peck is recognized for his osteoporosis and bone metabolism

research. He is the founding president of the National Osteoporosis Foundation and has served on numerous academic society committees, medical journal editorial boards and pharmaceutical



William A. Peck

company advisory boards. In November, he became chair-elect of the Association of American Medical Colleges.

Peck has received numerous honors and awards, including a National Institutes of Health Career Program Award, the Washington University Clinical Teacher of the Year Award and a Food and Drug Administration Commissioner's Award.

Born in Connecticut, Peck earned a bachelor's degree from Harvard University in 1954 and a medical degree in 1960 from the University of Rochester School of Medicine and Dentistry, where he was a member of Alpha Omega Alpha, an honorary medical society. He conducted his internship and residency at Barnes Hospital and served fellowships in metabolism at Washington University and at the National Institutes of Health. After serving on the University of Rochester School of Medicine faculty, he joined Washington University in 1976 as the John E. and Adaline Simon Professor of Medicine.

Research!America works to gain funding and public support for medical research. Its membership includes more than 350 businesses, academic institutions, hospitals, research institutes, health organizations, philanthropies and individuals.

Record

Editor: Betsy Rogers, (314) 935-6603, Campus Box 1070

Associate vice chancellor, executive director, University Communications: Judith Jasper

Executive editor: Susan Killenberg

Editor, medical news: Diane Duke, 286-0111, Medical School Box 8508

Assistant editors: Martha Everett, 935-5235 David Moessner, 935-5293

Production: Galen Harrison

Record (USPS 600-430; ISSN 1043-0520), Volume 22, Number 14/Dec. 4, 1997. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO, 63130. Periodicals postage paid at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send to Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, MO, 63130.

Hilltop Campus employees: Send to Office of Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, MO, 63130.

Medical Campus employees: Send to Payroll Office, Washington University, Campus Box 8017, 660 S. Euclid Ave., St. Louis, MO, 63110.

Electronic Record: To view the Record on the World Wide Web, go to <http://wupa.wustl.edu/record/record.html>

 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Costing lives

Long delays in angioplasty deadly to heart attack patients

Delays in angioplasty may be costing lives, according to a study by cardiologist Alan J. Tiefenbrunn, M.D., associate professor of medicine and assistant professor of radiology.

When a heart attack patient is brought to a small hospital that can't perform angioplasties, the physician has two choices: Treat the patient with clot-busting drugs or transfer the patient to a larger hospital for angioplasty. According to the study, sending the patient away for an angioplasty may be the more dangerous option. Patients who are transferred are more than 50 percent more likely to die in the hospital compared with patients who receive drugs or angioplasty without being transferred.

"The delay caused by transferring patients for angioplasty poses a very real threat," said Tiefenbrunn, who presented the results last month at the American Heart Association's 70th Scientific Sessions in Orlando, Fla.

Tiefenbrunn conducted the study with researchers from Johns Hopkins Bayview Medical Center, the University of Washington, the Harbor UCLA Medical Center, the University of Massachusetts

Medical Center and the University of Alabama Hospital.

Using records from the National Registry of Myocardial Infarction, the researchers examined the cases of 1,307 patients who were eligible for thrombolytic drugs but were sent to another hospital for angioplasty. On average, these patients underwent angioplasty six hours after their heart attacks, and almost 8 percent of them died in the hospital.

More than 50,000 other heart attack patients included in the study fared much better. Patients who received angioplasty without moving from one hospital to another underwent the treatment about four hours after their heart attacks, and only 5 percent of them died in the hospital. The death rate for patients who received drugs also was about 5 percent.

Angioplasty may be a life-saving procedure, but it often isn't worth a trip, Tiefenbrunn said. "Patients who are sent to another hospital for angioplasty can wait far too long to get treated," he said. "We think the increased mortality in these patients is related to the delay." Tiefenbrunn noted that almost 25 percent of transferred patients ended up getting their angioplasty 11 or more hours after their heart attacks.

The trip from one hospital to another rarely takes more than an hour, but other logistical problems slow down treatment, Tiefenbrunn said. He noted, however, that some hospitals have managed to

streamline the transfer process and can treat patients promptly.

Every hospital and emergency department in America is equipped with thrombolytic drugs, and patients who receive the drugs generally fare just as well as patients who undergo angioplasty, Tiefenbrunn said.

But angioplasty has its advantages. Using a tube snaked through an artery in the leg or the arm, the doctor is able to view the obstructed vessel with X-rays and then break apart any blood clots. Thrombolytic drugs, in contrast, stage a blind attack against the clots. The doctor never sees the obstruction and can't be sure if the treatment was successful. In addition, angioplasty is the only option for many patients who aren't good candidates for thrombolytic drugs. These include patients who are in shock or who are at increased risk for bleeding.

Tiefenbrunn, who has performed many angioplasties on heart attack patients at Barnes-Jewish Hospital, said the procedure is extremely valuable — if it can be done quickly. At Barnes-Jewish, people who have heart attacks during the day, when the heart catheter lab is fully staffed and ready for patients, generally undergo angioplasties. But those who have heart attacks at night often receive thrombolytic drugs. Each treatment costs about the same and gives patients the same chance for survival, Tiefenbrunn said.

— Chris Woolston

People with athlete's foot may be eligible for experimental treatment

People who have athlete's foot may be eligible for an experimental treatment at the School of Medicine.

About one in 10 Americans has athlete's foot, a fungal infection that causes itching between the toes and on the soles of the feet. Redness of the affected skin, scaling or peeling also often occur. Athlete's foot is especially common among those who live in close quarters with others or share communal baths, locker rooms or pools. Fitness centers and spas are other sites that may harbor the organisms.

People also can become vulnerable to the condition in humid summer weather or by wearing closed shoes. "The fungi that cause athlete's foot inhabit areas of warmth and moisture," said Ann Martin, M.D., professor of dermatology and principal investigator for the study.

Martin is looking for 20 to 50 people with symptoms of athlete's foot between their toes to volunteer for a six-week study. They should be 12 years of age or older. During the study, volunteers will be treated with an experimental anti-fungal cream and undergo laboratory tests.

Although products are available to treat athlete's foot, they may lose effectiveness with continual use, requiring patients to seek new medications, Martin said.

During the study, participants will visit the Outpatient Dermatology Center at 4750 Children's Place once a week for five of the six weeks. They will receive \$20 per visit. The anti-fungal cream and all laboratory tests associated with the study are free.

For more information about the study, call Kim Knolhoff at 362-8171 or Jackie Dudley at 362-9841.

Washington People

Crane heads up key medical school initiatives

Expectant parents can't wait to see their baby — and ultrasound gives them a first, fuzzy glimpse before the baby is born. These tests are extremely popular as well as clinically benign. But does routine screening really benefit mothers and infants? Is it worth the considerable cost it adds to prenatal care?

James P. Crane, M.D., first pondered these questions 10 years ago when he was the Virginia S. Lang Professor of Obstetrics and Gynecology at the School of Medicine. "It's a matter of justifying the expense," Crane said. "Our community has one of the highest infant mortality rates in the country. If we have limited health care dollars to spend, how do we best use them? We can routinely do ultrasound exams on every pregnancy, or we can make sure that every pregnant woman receives optimal medical care."

Quality patient care. Care for all those who need it. The prudent use of medical resources. These are three recurrent themes that have run through Crane's entire clinical career — and are still at the heart of his current role as a key administrator for the medical school.

Today, he spends 80 percent of his time overseeing three major new programs at the Medical Center. As chief executive officer of the Faculty Practice Plan, he heads up a broad-based effort aimed at enhancing patient care, building referral relationships and eliminating unnecessary expenses. As president of the Washington University Physician Network (WUPN), he has worked successfully to gather some 1,400 faculty and community clinicians into the largest independent physicians' association in the St. Louis area.

Finally, as associate vice chancellor for clinical affairs, Crane directs the programming effort for the Campus Integration Plan, a sweeping new vision for the Medical Center. Over the next decade, new buildings that are constructed on the North Campus will hold multidisciplinary clusters of outpatient services while others on the South Campus will house inpatient care. This streamlined operation is designed to please patients and save some \$20 million a year.

Any one of these responsibilities is a giant task, but Crane, also a professor of obstetrics and gynecology, has managed to do them all well.

Said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school: "In 1991, Jim Crane was recruited as the first associate vice chancellor for clinical affairs in the history of the School of Medicine in recognition of the need to substantially change the organization of the school's clinical programs in the face of an increasingly competitive health care environment. Since then, Jim has succeeded well beyond our expectations. He has spearheaded implementation of WUPN and the Faculty Practice Plan and has overseen development of the campus restructuring under the aegis of BJC Health System. These accomplishments reflect his great ability as an organizer and clinical leader and his remarkable talent for bringing people with diverse interests and agendas to a common purpose."

Reaching out to the community

Some of these people have been the hundreds of faculty and staff who have served on his planning committees. But Crane also has reached beyond the medical school's boundaries to act as its liaison with local and state government. He represents the medical school on the board of ConnectCare, a new partnership between the city and a consortium of hospitals that provides the medically underprivileged with health care services.

In the other 20 percent of his time, he is still a clinician who sees about 90 patients each month. "I very much enjoy my clinical days," Crane said. "I like the intellectual challenge but also the patient contact. It keeps you grounded — it's going back to why you became a doctor."

Crane, born in Alton, Ill., decided to become a doctor because of a life-changing experience when he was a junior in high school. A strong science student, he thought he was interested in medicine. So he asked a family practitioner in town if he could tag along with him for a day.

"I still remember it vividly," Crane said. "We went from about 6 a.m. to 9 p.m. and I followed him through

rounds at the hospital, through his day in the office and back to the hospital in the evening. At the end of the day, I had no doubt what I was going to do — and I never wavered from that decision."

He graduated from Indiana University at Bloomington and then its medical school in Indianapolis, where he got his first taste of providing care for the indigent. With several other students, he organized a free clinic in south Indianapolis.

In 1970, he came to Barnes Hospital for a residency



James P. Crane, M.D., discusses the School of Medicine's campus integration plan with Joan Podleski, assistant vice chancellor for clinical affairs.

in obstetrics and gynecology, a field he had chosen for its personal and scientific appeal. "I found it a very joyous area of medicine," he said. "Some exciting medical advances were also evolving in the field, such as prevention of pre-term labor and prenatal diagnosis. It was no longer just delivering babies."

He stayed in St. Louis to do a maternal-fetal medicine fellowship at a time when the Department of Obstetrics and Gynecology was first buying ultrasound equipment and exploring its clinical applications. Two years later, he learned more about prenatal diagnosis

"Our community has one of the highest infant mortality rates in the country. If we have limited health care dollars to spend, how do we best use them?"

and clinical genetics during a fellowship at the University of Colorado School of Medicine.

In between, Crane did a stint with the U.S. Navy as head of diagnostic ultrasound at the Naval Regional Medical Center in Philadelphia. For a six-week period, he was assigned to a base in Iceland where he was the only staff doctor. "Suddenly I went from high-tech medicine to the basics," he said. "I had no blood bank, so whenever I did surgery, I had two marines sitting out in the hall, ready to donate. It made me realize that you can do an awful lot with a basic set of skills and knowledge."

In 1977, he came back to Washington University as a faculty member and as the first medical director of the Prenatal Diagnosis Program and Genetics Division. Over the years, he and his staff established a wealth of programs: a cytogenetics laboratory to do chromosome testing, a genetic counseling service, a screening center for neural tube defects and a hotline for physicians and patients who have concerns about potential drug exposure during a woman's pregnancy.

At the same time, he conducted his own research, publishing papers on laboratory techniques related to genetic diagnosis. That work led to exciting new information about embryonic development at a cellular level. But by 1981, Crane had run out of lab space — so when Jewish Hospital offered him the position of obstetrician-in-chief, with a 2,500-square-foot laboratory, he decided to accept.

While at Jewish, he and Ronald Strickler, M.D., then professor of obstetrics and gynecology, flew to Norfolk, Va., to learn the techniques of in vitro fertilization (IVF) from the only center in the country then doing the procedure. They came back to St. Louis and started Missouri's first program — then celebrated the birth of the state's first IVF baby in January 1985.

His own accomplishments during these years influenced others. D. Michael Nelson, M.D., Ph.D., who now holds the chair in obstetrics that Crane previously held, was an obstetrics/gynecology resident at Barnes in 1977 when he first met Crane. "One of the reasons I went into high-risk pregnancy was that Jim Crane showed me by his own practice what an academician can be," Nelson said.

In 1987, Crane began looking into the question of routine ultrasound screening for low-risk pregnancies. With colleagues from Harvard University and the University of Missouri-Columbia, he embarked on a randomized clinical study of 15,530 pregnant women. The results, which were published in the *New England Journal of Medicine* in 1993, showed that routine tests do not improve maternal or fetal outcome — and they cost hundreds of millions of dollars each year.

"That comes back to the question of prudently applying medical resources," he said. "In many cases, the cost of prenatal care was being doubled by the

number of ultrasounds performed during pregnancy, and there are similar examples in every medical discipline. That was one of the reasons I was interested in doing more in the area of clinical outcomes and the cost of medical care."

Managed care's impact on patients

Increasingly, Crane also became concerned about the evolution of managed care and its impact on patient care. "I saw a less-than-rational duplication of medical services across the community," he said, "and I felt that physicians needed to take a greater responsibility for medical decision making."

So when Peck recruited him for the associate vice chancellor position in 1991, he decided to accept. Now his days are long, filled with meetings and phone calls. He sometimes misses teaching, a role that garnered him several awards, though he still manages to serve as associate editor of the *Journal of Ultrasound in Medicine*.

His colleagues praise him for his grace under pressure. "Jim brings truly remarkable leadership to dealing with the turbulent changes in health care that face the School of Medicine," said Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoeher Professor and chair of the Department of Pediatrics, who has worked closely with Crane on developing the Faculty Practice Plan. "He has an in-depth understanding of the factors that affect our ability to remain a premier medical center."

In his spare time, Crane is volunteer chair of the St. Louis Health Care Alliance, a group that works to improve the quality of patient care in the community. He also likes to bike, ski, listen to classical music and spend time with his family — his wife, Pamela; son, Jim, 27; and daughter, Nancy, 25.

"I am excited and optimistic about our ability to maintain and enhance our position as one of the nation's leading medical schools," Crane said. "I have a deep sense of commitment to Washington University, and I feel fortunate to have the opportunity to serve the school and its faculty during these challenging times."

—Candace O'Connor

Calendar

Visit Washington University's on-line calendar at
<http://cf6000.wustl.edu/calendar/events/v1.1>

Dec. 4-13



Exhibitions

"An Exhibit of Theatre Design." The work of Bruce A. Bergner, Bonnie J. Kruger and Richard W. Kuykendall. Through Dec. 10. A.E. Hotchner Studio Theatre lobby, Room 208 Mallinckrodt Center. 935-5858.

"December Graduates Exhibition." Opening reception 5-7 p.m. Dec. 5. Through Dec. 19. Bixby Gallery. 935-4643.

"Powerful Grace Lies in Herbs and Plants: A Joint Exhibit on Herbal Medicine." Sponsored by Missouri Botanical Garden Library and Bernard Becker Medical Library. Through April 1998. Seventh floor, Bernard Becker Medical Library, 660 S. Euclid. 362-4235.

Selections from the Washington University art collections. "Leonard Baskin: Prints," "The Age of Rembrandt" and "Recent Trends in American Art." Through Dec. 7. Gallery of Art, lower galleries. 935-5490.

"The Dual Muse: The Writer as Artist, The Artist as Writer." Through Dec. 21. Gallery of Art, upper gallery. 935-5490.

"The Seven Deadly Sins." Woodcuts by Beat poet and author William S. Burroughs. Through Dec. 21. Gallery of Art. 935-4523.

"Una Selva Oscura." The work of Tom Phillips. Through Jan. 2, 1998. Special Collections, level five, Olin Library. 935-5495.



Films

Friday, Dec. 5

7 and 9:30 p.m. Filmboard Feature Series. "Women on the Verge of a Nervous Breakdown" (1988). (Also Dec. 6, same times, and Dec. 7, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "PCU" (1994). (Also, Dec. 6, same time, and Dec. 7, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.



Lectures

Thursday, Dec. 4

Noon. Genetics seminar. "Emerging Techniques in Molecular Cytogenetics: Spectral Karyotyping and Allele Discrimination in Situ." David Ward, Yale U. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-3365.

3 p.m. Physics theory seminar. "On the Phase Structure of the 3D SU(2)-Higgs Model and the Electroweak Phase Transition." Adam Ritz, Imperial College, London. Room 241 Compton Hall. 935-6242.

4 p.m. African and Afro-American studies/political science lecture. "The Development of Organizations for Civil Rights Litigation in 20th-century American Political Life." Dianne Pinderhughes, prof., political science and African-American Studies and Research Program, U. of Ill., Urbana-Champaign. Room 306 Anheuser-Busch Hall. 935-5690.

4 p.m. Cancer Center seminar. Speaker is Ronald G. Blasberg, Memorial Sloan-Kettering Cancer Center, N.Y. Third Floor Aud., St. Louis Children's Hosp. 362-3365.

4 p.m. Chemistry seminar. "Natural Products and Their Macromolecular Targets." Jon Clardy, prof. of chemistry, Cornell U. Room 311 McMillen Lab. 935-6530.

5 p.m. Vision Science Seminar Series. "FasL in the Pathogenesis of Exudative Age-related Macular Degeneration." Henry J. Kaplan, prof. and head of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hosp. 362-3365.

8 p.m. Writing Program Reading Series. Margot Livesey, writer in residence, will give a craft lecture on writing fiction. Hurst Lounge, Duncker Hall. 935-7130.

Friday, Dec. 5

8 a.m. Metabolism Bone Mineral Pathology Conference. "Estrogen Regulation of M-CSF Gene Expression." Roberto Pacifici, asst. prof. of radiology and assoc. prof. of medicine. Brown Room, Barnes-Jewish North. 362-3365.

9:15 a.m. Pediatric Grand Rounds. "Hemostasis Updated." Lori Luchtman-Jones, asst. prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Designer Particles for Particle Bombardment Gene Transformation Studies." Rodney S. Ruoff, assoc. prof., physics. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Performing arts lecture. Playwright José Rivera will speak on his work. Women's Bldg. Lounge. 935-5858.

4 p.m. Chemistry seminar. "High Frequency EPR and Dynamic Nuclear Polarization of Proteins." Christian Farrar, MIT. Room 311 McMillen Lab. 935-6530.

4 p.m. Department of Music Fall Lecture Series. "Diaspora Albanian Musics and the Imagining of Modernity." Jane Sugarman, asst. prof. of ethnomusicology, State U. of N.Y.-Stony Brook. Room 102 Music Classroom Bldg. 935-4841.

4 p.m. Neuroscience biweekly seminar. Speaker is David C. Van Essen, the Edison Professor of Neurobiology and head of anatomy and neurobiology. Cori Aud., 4565 McKinley Ave. 362-3365.

6 and 8:30 p.m. WU Association Travel Lecture Series. "Europe's Wild Gem — Iceland" by John Wilson. Cost: \$4.50. Graham Chapel. 935-5212.

Monday, Dec. 8

Noon. Molecular biology and pharmacology special seminar. "Molecular Distinctions Among Synaptic Targets in the Developing Peripheral and Central Nervous Systems." Maria Donoghue-Velleca, assoc. research scientist, neurobiology section, Yale Medical School. Pharmacology Library: Philip Needleman Library, Room 3907 South Bldg. 362-0269.

3 p.m. Physics condensed matter seminar. "The Formation and Stability of Icosahedral Quasicrystals and Related Crystalline Phases in Ti-Zr-based Alloys." Won Jeong Kim, grad. student, physics dept. Room 241 Compton Hall. 935-6242.

4 p.m. Biology seminar. "The Small Nucleolar rRNAs: Major Players in rRNA Processing and Modification of rRNA Nucleotides." Maurille J. Fournier, prof. of biochemistry and molecular biology, U. of Mass.-Amherst. Room 322 Rebstock Hall. 935-7569.

4 p.m. Immunology Research Seminar Series. "Mucosal Immunology: Interaction Between the Immune System and Epithelial Surfaces." Robinna G. Lorenz, asst. prof. of medicine and of pathology. Eric P. Newman Education Center. 362-2763.

Tuesday, Dec. 9

8 a.m. Gastroenterology Grand Rounds Conference. "Insights Into the Regulation of Expression of Glutathione S-Transferase." Thomas D. Boyer, prof. of medicine and dir., Division of Digestive Disease, Emory Medical School.

Room 901 Clinical Sciences Research Bldg. 362-8951.

Noon. Molecular microbiology/microbial pathogenesis seminar. "Actin-based Motility and Bacterial Pathogens." Julie Theriot, biochemistry dept., Stanford U. Cori Aud., 4565 McKinley Ave. 362-8873.

4 p.m. Mathematics TeX seminar. "Everything You Always Wanted to Know About TeX but Were Afraid to Ask" (continued). Stanley Sawyer, prof. of mathematics. Room 113 Cupples I Hall. 935-6703.

Wednesday, Dec. 10

6:30 a.m. Anesthesiology Grand Rounds. "Strategies for the Prevention and Treatment of Perioperative Neurologic Injury." Mark F. Newman, assoc. prof. of anesthesiology and chief, cardiothoracic anesthesiology division, Duke U. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Polycystic Ovary Syndrome: Androgens and Women's Health." Shahla Nader, prof. of obstetrics and gynecology and of internal medicine, U. of Texas-Houston Medical School. Clopton Aud., 4950 Children's Place. 362-7139.

3:45 p.m. Physics colloquium. "COLTRIMS (Cold Target Recoil Ion Momentum Spectroscopy): Momentum-imaging of Products From Energetic Atomic Collisions." C.L. Cocke, physics dept., Kansas State U. Room 204 Crow Hall. 935-6252.

4 p.m. Biochemistry and molecular biophysics seminar. "Biomedical Applications of Multi-photon Laser Microscopy." Watt W. Webb, prof., School of Applied Physics, Cornell U. Cori Aud., 4565 McKinley Ave. 362-0261.

7 p.m. Chemistry seminar. "Receptor-bound Conformation of a Peptide Ligand at a G-protein Coupled Reactor." Garland R. Marshall, prof. of biochemistry and molecular biophysics, of molecular biology and pharmacology and dir., Center for Molecular Design. Room 311 McMillen Lab. 935-6530.

Friday, Dec. 12

9:15 a.m. Pediatric Grand Rounds. "Genetics of Diabetes and the Human Genome Project." M. Alan Permutt, prof. of medicine and dir., Diabetes Research and Training Center. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Fibroblast Growth Factor Signaling in Development." David M. Ornitz, assoc. prof. of molecular biology and pharmacology. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Woman's Club mini-luncheon and lecture. "The Story of Gospel Music." Robert Ray, prof. of music, UMSL. Cost: \$8.25 (reservations required before Dec. 5). Women's Bldg. Formal Lounge. 862-6615.



Music

Saturday, Dec. 6

8 p.m. Chamber Choir of Washington U. concert. Music of J.S. Bach, Brahms and Biebl and the Liturgy of St. John Chrysostom by Ippolitov-Ivanov for the Russian Orthodox Church. John Stewart, dir. Graham Chapel. 935-4841.

Sunday, Dec. 7

7:30 p.m. Music dept. concert. The Kingsbury Ensemble. Music of Telemann, C.P.E. Bach, Vivaldi and Corelli. Jacob Berg, flute; Maryse Carlin, harpsichord; Sarah Edgerton, cello; Lorraine Glass-Harris, violin. Umrath Hall Lounge. 935-4841.

Monday, Dec. 8

8 p.m. Washington U. Chorus concert. "Winter Concert." Music of Mozart, Vaughan Williams and Willcocks.

Eric Anthony, dir. Graham Chapel. 935-4841.

Tuesday, Dec. 9

8 p.m. Washington U. Vocal Jazz Choir concert. Christine Hitt, dir. Tietjens Rehearsal Hall. 935-4841.

Wednesday, Dec. 10

8 p.m. Washington U. Black Composers Repertory Chorus concert. Daniel DuMaine, dir. Steinberg Aud. 935-4841.



Performances

Thursday, Dec. 4

8 p.m. Performing arts dept. production. "Marisol" by José Rivera. (Also Dec. 5 and 6, same time, and Dec. 6 and 7, 2 p.m.) Discussion led by Rivera follows the Dec. 4 performance. Cost: \$10; \$7 for senior citizens, students, faculty and staff. A.E. Hotchner Studio Theatre. 935-6543.

Saturday, Dec. 6

8 p.m. OVATIONS! Series performance. Bread and Puppet Theater, an alternative theater group, presents a performance-in-progress of "Delivery." Cost: \$18. Edison Theatre. 935-6543.



Miscellany

Registration open for the following Office of Continuing Medical Education seminar. "Contemporary Evaluation and Management of Valvular Heart Disease" (Dec. 6). Eric P. Newman Education Center. For times, costs and to register, call 362-6891.

Saturday, Dec. 6

9 a.m. Book arts workshop. "Envelop It." Learn to make one-of-a-kind envelopes. Instructor: Charlotte Johnson. Cost: \$35, plus \$5 supply fee. Room 104 Bixby Hall. 935-4643.

Tuesday, Dec. 9

8 p.m. International Writers Center Reading Series. Author David Foster Wallace will read from his works. Cost: \$5 general public; free for students and senior citizens. West Campus Conference Center. 935-5576.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor(s), title of event, name(s) of speaker(s) and affiliation(s), and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Kurt Mueller at Campus Box 1070 or via fax to 935-4259. Submission forms are available by calling 935-4926 and can be downloaded from the Record Web site at <http://wupa.wustl.edu/record/record.html>.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline or holiday schedule or need more information, call 935-4926.

Frantic holiday shopping not inevitable, says expert

Whether it's a last-minute rush to the mall, a year-long obsession or an endless quest for the "perfect gift," the joy of giving has the potential to turn the holiday season into a seasonal nightmare.

Edwin B. Fisher, Ph.D., professor of psychology in Arts and Sciences and director of the Center for Health Behavior Research at the School of Medicine, has tips to share about how psychological principles of self-control might help keep shopping from interfering too much with the holiday spirit.

An expert on helping people gain control of personal habits, such as smoking and overeating, Fisher said many of the same techniques can be used to get a grip on holiday shopping.

"Obsessive holiday shopping can result from unrealistic expectations about how important it is to find the perfect gift," Fisher noted. "Just as they need to put in perspective their goals for the perfect figure or physique, shoppers might ask if their family wouldn't view their presence in good cheer at family gatherings as more important than the present given."

Those dreading the prospect of shopping might benefit from some of the same self-control strategies that help people deal with temptations to overeat or smoke. "Pinpoint the specific problem, whether it's waiting until the last minute, overspending or going into a funk that the perfect present hasn't emerged," Fisher said. "Then think of specific ways of engineering things to keep this from happening. Schedule a shopping

day in early December. Take cash rather than plastics to the mall — but be careful where you keep it. Or convene a focus group of office mates or friends to brainstorm something snazzier than the yearly bottle of perfume for Aunt Agatha."

Fisher thinks that malls may so overstimulate us that they jam our circuits. "People take themselves to the mall and then start trying to find the perfect presents from all the options available, but this strategy can backfire," he said. "The mall is such a stimulus-laden place that people get distracted. They may be more creative going to smaller shops in town or thinking of gift ideas with a pad or perhaps some catalogues at home."

But Fisher isn't totally convinced that the holidays are the time for self-control. "Maybe an important lesson of the holidays is to show us that all is not self-control," he suggested. "We indulge our childish parts, hoping for our own perfect gift, hoping that this year everybody in the family will really get along or showing our unglued side by the manner in which we manage to get the shopping done. Maybe that's all part of the fun."

Fisher urges others to shop early but allows that his own favorite strategy is to "remember that FedEx operates on the 23rd and 24th." He added: "My friends wonder about the strength of my character that I depend on this 'crutch,' but the cost of the shipping buys me three weeks of a lot less stress. Actually, by the time it's December 20th, I think I enjoy the four days of frenzy!"



Sophomore Khamara Pettus plays the angel in the Performing Arts Department's production of José Rivera's "Marisol," opening Thursday, Dec. 4.

Playwright Rivera visits campus for performance of 'Marisol'

Award winning playwright José Rivera will visit Washington University Dec. 4-6 when the Performing Arts Department (PAD) in Arts and Sciences presents his magical realist drama "Marisol." Performances are at 8 p.m. Thursday, Friday and Saturday, Dec. 4, 5 and 6, and at 2 p.m. Saturday and Sunday, Dec. 6 and 7, in the A.E. Hotchner Studio Theatre, Mallinckrodt Center.

Rivera will lead a discussion after the Dec. 4 performance, followed by a reception in his honor. At noon, Dec. 5, Rivera will lecture on his work in the Women's Building Lounge. Both the reception and the lecture are free and open to the public. Rivera's visit is co-sponsored by PAD and Thyrsus, a student-run performing arts organization.

Part "Paradise Lost," part "Mad Max," "Marisol" tells the story of Marisol Perez, a young woman whose guardian angel has, at last count, saved her from "one plane crash, one collapsed elevator, one massacre at the hands of a right-wing fanatic with an Uzi, and 66,603 separate sexual assaults." But when the angels, led by Marisol's guardian, abandon the human race to wage a bloody war in heaven, Marisol must learn to survive on her own in a nightmarish urban jungle.

"I think Rivera really captures the spirit of the millennium," said director Robert Neblett, an Arts and Sciences doctoral candidate in comparative litera-

ture with an emphasis in drama. "We live in the '90s and think that our myths have been destroyed, but Rivera reminds us that myths are always being made. He creates a mythic, late 20th century landscape from the sorts of events you find in today's headlines — a baby found in a toilet at Disneyland, an au pair accused of murder. The more I realize that, the more disturbing the play becomes."

But Neblett emphasizes that the play is not simply a recitation of contemporary ills. "I don't want to give the impression that 'Marisol' is just some grand, apocalyptic downer. While there are some pretty scary, violent scenes, it's also a very funny play with some very light, ironic, human moments."

Rivera was born in San Juan, Puerto Rico, in 1955. His other plays include "The House of Ramon Iglesia," "The Promise," "Each Day Dies With Sleep," "Giants Have Us in Their Books" and "Cloud Tectonics," among others. Honors for "Marisol," which is jointly published by Dramatists Play Service, American Theatre Magazine and Theatre Communications Group, include a 1993 Obie Award for Outstanding Play and six Drama-Logue Awards including Best Play.

Tickets are \$10 for the general public and \$7 for senior citizens and Washington University faculty, staff and students and are available at the Edison Theatre Box Office (935-6543) and all MetroTix outlets (534-1111). For more information, call 935-5858.

Sports

Compiled by Mike Wolf, asst. athletic director for media relations, and Kevin Bergquist, asst. director, sports information. For the most up-to-date news about Washington University's athletics program, access the Bears' Web site at www.sports-u.com.

Volleyball Bears vie for eighth NCAA title

Washington University's defending national champion volleyball team joins a pair of longtime rivals and a finals newcomer Friday and Saturday, Dec. 5-6, at the semifinals of the 1997 NCAA Division III Championship. The University of California at San Diego plays host to the final weekend of Division III volleyball, when the Bears play for their seventh consecutive national title and eighth crown in nine years. Washington U. (35-6) battles Juniata College (42-1) in the first semifinal match. Host UCSD

(25-5) takes on semifinal rookie Central College (35-3) in the second match. The winners advance to Saturday's championship match.

Current Record: 35-6 (12-0 UAA)

This Week: 4:30 p.m. PST Friday, Dec. 5, vs. Juniata College at NCAA Division III Championship semifinals, San Diego, Calif.; 4:30 or 7:30 p.m. PST Saturday, Dec. 6, Bears play in third-place or championship match, San Diego, Calif.

Men hoopsters to host 14th Lopata Classic

Washington hosts the 14th annual Lopata Classic, a.k.a. the "Brainball Classic," this weekend at the WU Field House. Visiting schools include Babson College, Occidental College and Washington and Lee University. The Bears, who have dropped their first three games of the 1997-98 season, are the four-time defending Lopata champions.

Current Record: 0-3 (0-0 UAA)

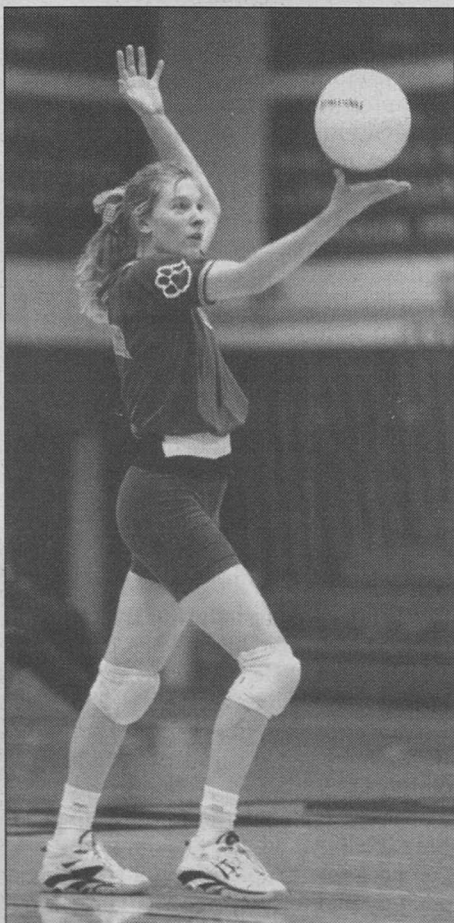
This Week: 8 p.m. Friday, Dec. 5, vs. Washington and Lee University, Lopata Classic, WU Field House; 6 or 8 p.m. Saturday, Dec. 6, vs. Babson or Occidental, Lopata Classic, WU Field House.

Women cagers still perfect after five games

The women's basketball team scored 80-plus points in all three of its games last week, defeating Blackburn College (90-65), Southwestern University (84-42) and Lake Forest College (89-76).

Current Record: 5-0 (0-0 UAA)

This Week: 6 p.m. Friday, Dec. 5, vs. Aurora University at North Central College Tournament, Naperville, Ill.; 1 or 3 p.m. Saturday, Dec. 6, vs. Judson College or North Central College at North Central Tournament, Naperville, Ill.



Junior outside hitter Jenny Cafazza is a finalist for NCAA All-America honors.

Author David Foster Wallace to read for International Writers Center series

Author David Foster Wallace will read from his works at 8 p.m. Tuesday, Dec. 9, at the West Campus Conference Center. The event will inaugurate the 1997-98 Reading Series for the International Writers Center in Arts and Sciences.

Wallace's book of essays, "A Supposedly Fun Thing I'll Never Do Again," published this year, is "animated by Mr. Wallace's wonderfully exuberant prose, a zingy, elastic gift for metaphor and imaginative sleight of hand, combined with a taste for amphetamine-like stream-of-consciousness riffs," according to Michiko Kakutani of The New York Times.

Wallace also wrote the novels "Infinite Jest" (1996) and "The Broom of the System" (1987) and the short story collection "Girl With Curious Hair" (1989). With Mark Costello, he wrote "Signifying Rappers" (1990), an investigation of rap and popular culture in America. Wallace has received the Whiting Award, the Lannan Award for Fiction, the Paris Review Prize for humor, the QPG Joe Savago New Voices Award, an O. Henry Award and a 1997 MacArthur Fellowship.

Born in Ithaca, N.Y., in 1962, Wallace grew up in central Illinois. He received a bachelor's degree in 1985 in English and philosophy from Amherst College and a master of fine arts in 1987 from the University of Arizona. He now lives in Bloomington, Ill., and is an associate professor of English at Illinois State University.

The 1997-98 Reading Series will continue with poet and essayist Susan Stewart, also the recipient of a 1997 MacArthur Fellowship, appearing Feb. 10, 1998; Irish poet Paul Muldoon, recipient of the 1996 American Academy of Arts and Letters Award in Literature, on March 17; and Jamaican fiction writer Patricia Powell on April 7.

A season subscription to the reading series is \$15. Individual readings are \$5 and free for students and senior citizens. Arts and Education Council of Greater St. Louis cardholders receive a two-for-one discount. The series is underwritten by the Lannan Foundation and Mary and Max Wisgerhof.

For more information, call 935-5576.

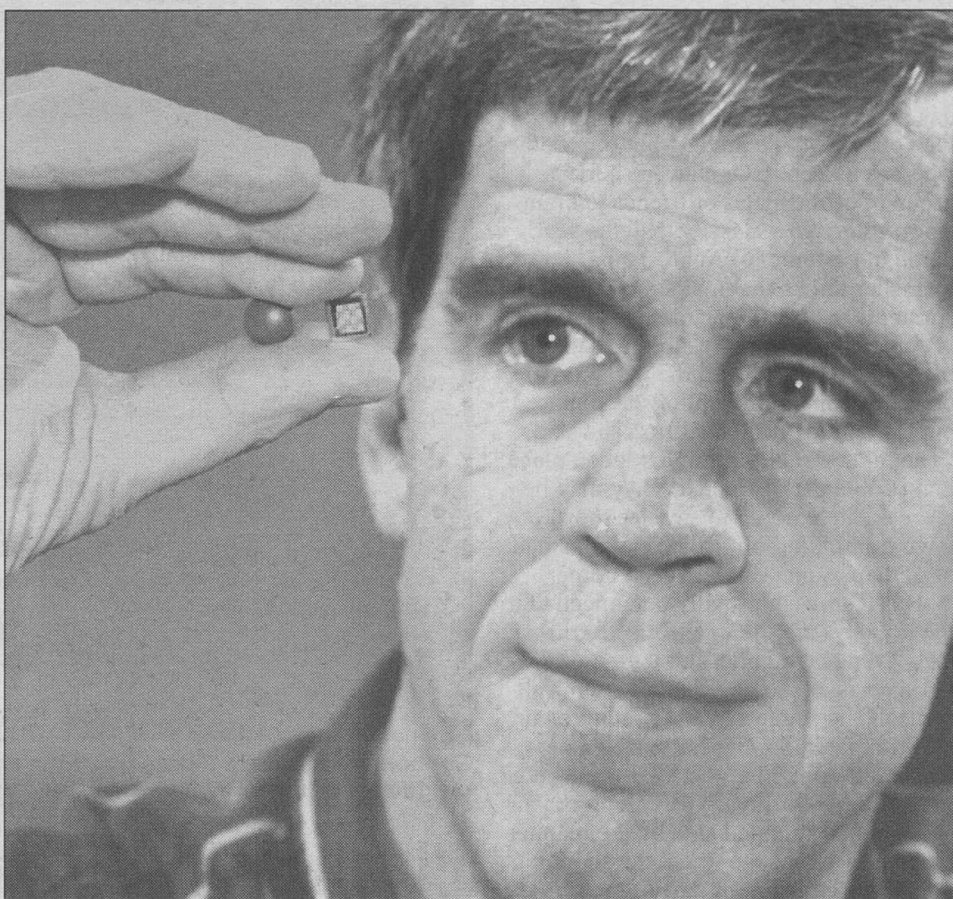
Ongoing odyssey from patent to market for hearing aid

In research and development, an idea's journey from genesis to fruition can be epic, marked with disappointments, delays and not a few disasters along the way. In many cases the holder of a patent never sees the product, or its derivatives, that he or she envisioned. Often, the only reward is the 20-year ownership the patent itself provides, a sort of intellectual security blanket.

Washington University's Robert E. Morley, D.Sc., professor of electrical engineering, scored an R&D coup with his patented concept of a digital electronic hearing aid. But his success story is nowhere linear and combines elements of Homer's "Odyssey" and Yogi Berra's philosophy, "It ain't over 'til it's over."

Morley hatched his idea in 1981 in the midst of the booming digital era and shortly after he joined the electrical engineering department. He observed the analog hearing aid that Maynard Engebretson, D.Sc., a speech researcher at the Medical Center's Central Institute for the Deaf (CID), was working on and thought they could come up with a digital system. Working with the aid of a grant from the Veterans Administration, Morley, Engebretson and CID's Gerald Popelka, Ph.D., patented the concept of a digital hearing aid in 1985. (Engebretson is now senior research associate in the Department of Computer Science; Popelka is associate director of Advanced Graduate Programs in Occupational Therapy.)

And what a concept! Involving an amazing 80,000 transistors contained in two aspirin-sized chips, the proposed hearing aid performed all the mathematical functions needed to convert sound for a comfortable "fit" between a patient's hearing and pain threshold. While a conventional hearing aid conveys sound levels through voltage, Morley's digital system conveys continuous sound waves through a system that uses a sequence of digital numbers to represent samples of



A half million transistors occupy this tiny chip — smaller than the ibuprofen tablet on the left — making possible the fully digital hearing aid conceived and patented by Robert E. Morley, D.Sc., (above) and University colleagues.

the sound waves.

A four-channel system splits sound into a range of four bands that allows an audiologist to fit the aid to an individual's hearing needs. The four channels encode 16,000 electronic sound samples per second into logarithms; the two chips multiply and add four million times in one second to filter the electronic signals.

3M Co. of Minnesota acquired exclusive license from CID in 1988. But the

Washington University/CID device never made it to market with 3M. In the summer of 1996, 3M sold its hearing aid business to a company called ReSound, and ReSound paid Washington University/CID \$2.5 million for the hearing aid patent rights. The money was split among inventors, CID and the University.

ReSound then gathered the Washington University patents with several others and developed a "portfolio consortium," offering potential members access to the

patents providing they pay a pricey fee to join. In less than a year, eight companies, eager to have rights to some of the best digital hearing aid patents in the world, became part of ReSound's consortium, which has raised more than \$10 million in membership fees.

"The bottom line is there seems to be lots of interest on the part of hearing aid companies to develop products based on digital hearing aid patents," Morley said. "In the past two years or so, there have been a number of digital hearing aid products out there, the majority of which are only partially digital, and none of them has adequately addressed the classic problems of feedback and background noise, which have been the longstanding shortcoming of analog aids."

Since 1988, Morley's chip-designing capabilities have expanded greatly. Thanks to advances in chip technology, he now can design a chip that contains an astonishing half million transistors, providing a range of potential possibilities for digital hearing aids and many other electronic products for both the marketplace and the laboratory.

"It's kind of amazing what's transpired in the 13 years since we filed the patents," Morley observed. "But now we'll know that all of the companies that offer fully digital aids have become members of the ReSound patent consortium to avoid infringing on our patent."

The marketplace is beginning to see a few fully digital electronic hearing aids, though none yet based exclusively on the Washington University/CID concept.

"I've been able to detect some elements of our idea in products out there, but nothing recognizable as our own," he said.

Once the Washington University concept is actually seen in a fully digital hearing aid, maybe then Berra's saying will apply to Morley's R&D odyssey.

—Tony Fitzpatrick

Underground Railroad project blends history and technology — from page 1

went on and tell the stories from the past."

The fact that the project has a concrete goal at the end is vital, Polman said. "That's a very motivating thing. The idea is to get them invested in that — to do all this work and all this thinking. Before you know it, they're jazzed about history.

"And, along the way, they've devel-

oped this technological fluency. It's not enough to just know how to read and write. The people who know how to understand and produce multimedia on a computer are going to be at an advantage. Gaining skill with these tools will help them in the future."

A future, any future, was the sole hope for blacks attempting to flee from slavery

throughout the mid-1800s. Frederick Douglass, the legendary abolitionist, wrote: "For my part, I should prefer death to hopeless bondage." It is estimated that more than 100,000 of the four million slaves in the South succeeded in escaping. Some went westward along the Gulf to a new life in Mexico. Others found refuge with the Seminole Indians in Florida. The largest number of successful escapes occurred to the North, through Kentucky into Ohio and along the Eastern Seaboard into Canada.

Kevin Vance, an eighth-grader at Compton-Drew, said: "At first when I heard about the Underground Railroad, I thought it was a real underground railroad. With tracks and stuff. But it was a secret way for slaves to get free. People used to let slaves into their houses and hide in hidden passages, day and night. Then, if they could, they'd go from house to house and try not to get caught until they passed the line of freedom."

At their first after-school session in September, Polman entranced the students with stories that had once been kept alive only by memories and music. Stories about Henry "Box" Brown, who escaped to Philadelphia by traveling for 26 hours in a box that was 2 feet 8 inches deep, 2 feet wide, and 3 feet long. About Ellen Craft, a light-skinned woman who cropped her hair and disguised herself as a white man leading her "slave" (her husband, William) to freedom. About Harriet Tubman, who made 19 trips back to the South and helped free at least 300 fellow captives.

The second lesson was how to make Web pages and locate cyber-links to Underground Railroad sites. Next came a group design session. Finally, the group divvied up key historical figures and set out to construct individual Web pages.

Polman hopes that a rough version of the Web site will be ready for posting by the end of this semester. Commitments are in place for the second semester, which also will feature Washington University student involvement as part of an education course. Combining theoretical research with public service

interaction, the University participant/observers will meet twice a week — one day at the clubs and one day for discussion.

Further in the future, Polman envisions a "distributed project," where young students from other "geographic hot spots" along the Underground Railroad could do more research and provide another layer of links.

The lesson, Polman stressed, is to learn by doing — to be constructors of knowledge rather than passive receivers.

"History involves taking a perspective," he said. "There are competing interpretations of history — one narrative account is not the only possible account. By focusing on a different perspective, you can gain some other important truths."

William Lomax, a sixth-grader at Compton-Drew, has made that connection. Summing up his thoughts about those who traveled the Underground Railroad, he said: "They did it for us, I guess. They did it especially for black people, because we were slaves at first, and we wanted to be free. I couldn't imagine living that way. I wouldn't be able to stand it. I couldn't stand it."

William's contribution to the Web page focuses on William Wells Brown, who lived most of his first 20 years as a slave in St. Louis. On his third try, Brown successfully escaped to Canada. Later, he worked for nine years as a steamboatman on Lake Erie and helped fugitive slaves cross from Buffalo, N.Y., to Canada.

"If I was living in those days, I would want to be like William Wells Brown," William said. "He interested me the most because he liked to write stories. I like to write stories, too. Scary stories sometimes, fairy tale stories that have happy endings."

So, did the Underground Railroad have a happy ending?

"For most people who got free, it had a happy ending," replied William. "But for those who didn't, it had a bad ending. A real bad ending."

—David Moessner

Campus Watch

The following incidents were reported to the University Police Department from Nov. 17–30. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus. Campus Watch now is available on the University Police Web site: <http://rescomp.wustl.edu/~wupd>.

Nov. 17

3:16 p.m. — A student reported seeing a man carrying an item from a Millbrook Building apartment. The student then discovered a laptop computer valued at \$2,000 was missing. A witness was able to help University Police develop a composite drawing of a suspect: a black male in his mid-20s with a short haircut. An investigation continues.

Nov. 18

11:26 a.m. — A faculty member reported the theft of a VCR and a slide projector, valued at \$600, from an unlocked cabinet in Rebstock Hall.

Nov. 19

1:12 p.m. — A construction worker reported the theft of two St. Louis Rams football tickets and 15 daily parking permits from an unlocked vehicle parked in a lot on Olympian Way.

Nov. 20

2:55 p.m. — A staff member reported a broken window in an office on the north side of Mudd Hall.

Nov. 22

11:21 p.m. — University Police discovered a blue light emergency telephone torn from its mounting brackets south of the Forsyth underpass.

Nov. 23

2:26 a.m. — A student reported observing two males trying to enter cars parked in a lot north of Givens Hall. University Police responded and saw two males running toward Skinker Boulevard. One suspect was apprehended and had in his possession several items that appeared to have been taken from cars on the parking lot. He was arrested for tampering, stealing, trespassing and resisting arrest and released to the St. Louis County Bureau of Justice Services. The other suspect escaped.

Nov. 26

9:50 a.m. — A student reported the theft of a laptop computer valued at \$2,000 from the third floor of Anheuser-Busch Hall.

Nov. 29

8:55 p.m. — A faculty member reported having been struck in the face by a male in his mid-40s during a basketball game at the Athletic Complex. There were no injuries, and the suspect fled.

Nov. 30

7:09 p.m. — A student reported the theft of two laptop computers from a locked suite. Total value was \$3,398.

University Police also responded to three additional reports of theft and one additional report of vandalism.

Introducing new faculty members

The following are among the new faculty members on the Medical Campus. Others will be introduced periodically in this space.

Douglas Char, M.D., assistant professor of medicine and associate director of the emergency medicine residency program, joined the School of Medicine in 1995 after completing residencies in emergency medicine at the Denver Metro Health Medical Center and internal medicine at the University of Colorado Health Science Center. A native of Honolulu, he received a medical degree at the University of Hawaii in 1989. He received a bachelor's degree in biology and psychology from Boston College in 1983. Char will be the director of the new Emergency Chest Pain Diagnostic Unit at Barnes-Jewish Hospital.

Maurizio Corbetta, M.D., assistant professor of neurology, of neurobiology and of radiology, came to the School of Medicine in 1990 as an instructor in neurology. Using positron emission tomography (PET) and functional magnetic resonance imaging (fMRI), he studies human brain function. He is particularly interested in how the brain selectively pays attention to visual information and how cognitive functions are recovered after brain injury. He obtained a medical degree *summa cum laude* from the University of Pavia School of Medicine in Italy in 1985, and became a resident at the University of Verona's Institute of Neurology. He is a staff neurologist at ConnectCare, St. Louis Children's Hospital and Barnes-Jewish Hospital.

Bradley D. Freeman, M.D., is an assistant professor of surgery in the section of Burn, Trauma and Surgical Critical Care. He received a bachelor's degree in chemistry from the University of Central Florida in 1984 and a medical degree from Duke University School of Medicine in 1988. His postgraduate training included a medical residency at Duke University Medical Center, a surgical residency at Washington University Medical Center, and subspecialty training in critical care medicine at the National Institutes of Health. His research interests center on sepsis and septic shock.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Of note

Syed A. Chowdhury, Ph.D., a post-doctoral fellow in biology in Arts and Sciences, has received an International Brain Research Organization post-doctoral award. Chowdhury is conducting research in auditory perception. ...

Joel D. Cooper, M.D., the Evarts A. Graham Professor of Surgery and head of the Division of Cardiothoracic Surgery, received the 1997 Jack Buck Award from the Gateway Chapter of the Cystic Fibrosis Foundation at its fourth annual Reach for a Star Gala Auction Nov. 15. The Jack Buck Award is presented to the person or persons who represent an exceptional commitment to cystic fibrosis fundraising, patient services or medical research in the St. Louis area. Cooper's efforts have led to the development of the bilateral lung transplant procedure now used globally for patients with cystic fibrosis and other severe lung diseases. ...

Keith A. Hruska, M.D., the Ira M. Lang Professor of Medicine in the renal division, has received a four-year \$938,000 grant from the Arthritis and Musculoskeletal Disease Institute of the National Institutes of Health. Hruska and co-investigator Kevin J. Martin, M.D., professor of medicine at St. Louis University, will study factors that influence the proliferation and differentiation of human cells that become bone osteoblasts. ...

A photographic exhibit by **Carl B. Safe**, professor of architecture, titled "Reflections of Paris," was recently displayed in a joint show with the ortho-litho overlays of **Marianne Pepper**, executive director of the Steedman Fellowship at the School of Architecture. Pepper's work depicting views of Spain and Italy and Safe's photographs were displayed at the Jewish Community Centers Association Art Gallery in St. Louis. ...

Robert H. Salisbury, Ph.D., professor emeritus of political science in Arts and Sciences, received the 1997 Eldersveld Career Achievement Award, the highest honor that can be bestowed by colleagues in the American Political Science Association's Organized Section on Political Organizations and Parties. The award was presented at the association's annual meeting, held in Washington, D.C.

On assignment

Mae Gordon, Ph.D., associate professor of ophthalmology and visual sciences, and **M. Rosario Hernandez, D.D.S.**, associate professor of ophthalmology and visual sciences and of anatomy and neurobiology, recently were selected to serve on the National Institutes of Health's Glaucoma Advisory Panel, which is preparing objectives for the next five years of NIH-sponsored glaucoma research. ...

Omar Perez, visiting assistant professor of architecture, was invited by the Center of International Projects at the Universitat Politècnica de Catalunya to lead a two-week international design studio in Barcelona for architecture students. The summer course, Barcelona International II, focused on different sites of the Ensanche area, a 19th-century extension of the city designed by Ildefonso Cerda. ...

Michael W. Rich, M.D., associate professor of medicine, recently was elected to a one-year term as president of the Council on Geriatric Cardiology. The council is an international organization of health professionals dedicated to research, education and patient care of older adults with cardiovascular disease. ...

Henry I. Schvey, Ph.D., professor and chair of the Performing Arts Department in Arts and Sciences, delivered a lecture titled "Oskar Kokoschka and Alma Mahler: Art and Eros in Turn-of-the-Century Vienna" in October at the Saint Louis Art Museum. The lecture was part of the Vienna Fest 1997 celebration.

Speaking of

Merton Bernstein, LL.B., professor of law, recently addressed the Society of Investment Analysts of Chicago on Social Security's future. Bernstein also was one of six panelists, including former U.S. Sen. Han Brown and former Colorado Gov. Richard Lamm, who discussed the outlook of Social Security at the University of Colorado in Denver. Additionally, Bernstein appeared on a panel on Social Security at a forum led by U.S. Sen. Carol Moseley-Braun in Springfield, Ill. ...

Edwin B. Fisher Jr., Ph.D., professor of psychology in Arts and Sciences and director of the Center for Health Behavior

Research, presented a talk titled "Porque la Gente Fuma y como Intervenir para que Deje de Fumar" ("Why People Smoke and How to Help Them Quit") at the National Institute of Respiratory Disease in Mexico City. The talk, held last spring, was part of the observance of World Nonsmoking Day. ...

Mark Frisse, M.D., associate dean of academic information and director of the Bernard Becker Medical Library, recently gave a presentation titled "Why Computers Don't Work" as the invited speaker for the Distinguished Lecture Series of Creighton University in Omaha, Neb. ...

Lynn Stockman Imergoot, assistant director of athletics, spoke on "Writing for Publication" at the recent convention of the Missouri Association of Health, Physical Education, Recreation and Dance. Imergoot serves as co-editor of the association's journal.

To press

Mark DeKay, assistant professor of architecture, recently published an article on "The Implications of Community Gardening for Land Use Density" in the Journal of Architectural and Planning Research. ...

Robert M. Senior, M.D., the Dorothy R. and Hubert C. Moog Professor in Pulmonary Medicine, has co-edited the third edition of "Fishman's Pulmonary Diseases and Disorders," recently published by McGraw-Hill. Washington University faculty who contributed chapters to this 2,777-page textbook are **Daniel M. Goodenberger, M.D.**, associate professor of medicine; **Daniel P. Schuster, M.D.**, professor of medicine and of radiology; **Steven D. Shapiro, M.D.**, associate professor of medicine and of cell biology and physiology; and **Peter G. Tuteur, M.D.**, associate professor of medicine.

Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a typed description of your noteworthy activity, to For The Record, c/o David Moessner, Campus Box 1070, or e-mail David_Moessner@aismail.wustl.edu. Items must not exceed 75 words. For information, call 935-5293.

Obituaries

John N. Morris, English professor emeritus

John Nelson Morris, Ph.D., a distinguished poet and professor emeritus of English in Arts and Sciences, died of pancreatic cancer Nov. 25, 1997, at his home in Pittsboro, N.C. He was 66.

Morris taught poetry and 18th-century British literature for nearly 30 years in the Department of English. He joined the department in 1967 as an associate professor and was made full professor in 1971. He retired in 1995.

Morris was the author of four books of poetry: "A Schedule of Benefits," "The Glass Houses," "The Life Beside This One" and "Green Business."

His work was published in such magazines as Poetry, The New Yorker and The New Republic, and in 1978 he was awarded a Guggenheim Fellowship. In 1979 he won the Award in Literature from the American Academy and Institute of Arts and Letters.

"His work was understated and

ironic," said Dan Shea, professor and chair of English. "He always had a double sense of things, whether writing about his children, his dog or life and death."

Born in Oxford, England, Morris spent part of his childhood on his grandfather's peach farm in Eagle Springs, N.C. He attended Augusta Military Academy in Fort Defiance, Va., and in 1953 received a bachelor's degree in English from Hamilton College. After two years as a Marine during the Korean War, Morris attended graduate school at Columbia University, earning a doctorate in 1964. He taught at the University of Delaware and at Columbia University before coming to Washington University.

Morris is survived by his wife, Anne Morris; three children, Julia Morris of New York, John George Morris of Nashville, Tenn., and Richard Maurice Morris of Denver; and two sisters.

Plans for a campus memorial service are pending. A memorial service was held Saturday, Nov. 29, at Emmanuel Episcopal Church in Southern Pines, N.C. Memorial contributions may be made to Hospice of Chatham County, P.O. Box 1077, Pittsboro, N.C., 27312.



Mirror image

Freshman **Kathryn Van Steenhuyse** was among the 150 faculty, staff and students who participated in the School of Art's "Self-portrait Extravaganza" Nov. 21. Drawings from the daylong event will remain on display in Bixby Hall through Friday, Dec. 5. Organizer **Belinda Lee**, lecturer in painting, said her aim was to "get people out of the classroom and working together on something." Asked "What's going on?" by one curious visitor, Lee promptly handed over a pencil, paper and mirror. "You're making a self-portrait," she replied.

Opportunities & personnel news

Hilltop Campus

Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130, at West Campus. Job openings may be accessed via the World Wide Web at cf6000.wustl.edu/hr/home. If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at 935-9836. Staff members may call 935-5906.

Computer End-User Support 980141. CEC. Requirements: some college; thorough knowledge of Windows NT and Windows 95 office systems including system configuration, networking, and applications such as Microsoft Office and PageMaker. Responsibilities include handling computer systems end-user support for staff of school of engineering; determining nature and source of problems; assessing user requirements and aiding in developing system configuration to meet these requirements; providing both technical and design support for web pages.

Staff Editorial Assistant 980143. Chemistry. Requirements: some college, bachelor's preferred. Responsibilities include serving as editorial assistant for a journal, logging in and out manuscripts, sending to reviewers, sending accepted articles to publisher, com-

municating with reviewers about deadlines; serving as secretary for the MS research resource, logging in samples, answering the phone, communicating with users, helping with visitors, annual reports; serving as a faculty secretary, filing correspondence, assisting with travel arrangements, and other duties as assigned.

Executive Assistant to the Vice Chancellor 980145. Lab Research. Requirements: bachelor's degree and five years administrative experience, preferably in academic medical center; excellent oral and written communication skills with the ability to lead and facilitate a team of professionals; ability to synthesize information and make recommendations based on data analysis; basic computer literacy highly desirable. Position provides administrative support to the vice chancellor for research.

Gifts Senior Specialist 980146. Accounting Services. Requirements: excellent interpersonal skills; experience working with personal computers; proficiency in word processing, spreadsheet and data base management software applications; excellent communication skills, written and verbal; ability to meet deadlines with varying degrees of pressure; ability to handle confidential information responsibly; knowledge of internal controls and various accounting system applications; ability to research and report on accounting and other technical issues; ability to streamline and automate transaction processing and recording.

Police Department 980148. Watchman. Requirements: eligibility for license as a watchman in St. Louis County and City of St. Louis; one year experience as a watchman or security guard; ability to pass medical exam to determine fitness to perform duties of a watchman; ability to interact effectively with members of the university and local community; ability to ride a bicycle and operate a two-way radio; no convictions or arrests for any felony, theft, assault or sexual offense.

Director of EMBA Admissions and Student Services 980150. Business School. Requirements: MBA or equivalent degree; three to five years university administration or employee development experience; strong management skills (people and projects); team-building skills; strong interpersonal and communication skills (writing skills essential); PC proficiency (Microsoft Word, Excel, Powerpoint); ability to deal effectively with corporations, executive students, and administrative staff; ability to function well in a fast paced environment and to work under occasional tight deadlines; availability some weekends and evenings; some travel.

Library Assistant 980151. Business. Requirements: some college; knowledge of Word for Windows and Excel preferred; knowledge of Windows software plus ability to perform basic computer maintenance preferred; ability to interact well with library users and to explain and interpret library policies; ability to work in-

dependently with minimum supervision; attention to detail.

Manager, University Accounting and Reporting 980153. Accounting Services. Requirements: bachelor's degree, master's preferred; five years progressive experience in administrative and/or supervisory functions; knowledge of fund accounting and experience in focus and report writing; knowledge of internal controls and various accounting system applications; ability to research/report on accounting and technical issues; excellent interpersonal and team skills; excellent communication skills; ability to manage complex operations including organizing and coaching diverse staff; ability to handle confidential information responsibly; ability to meet deadlines with varying degrees of pressure; personal computer experience.

Administrative Assistant 980154. Mechanical Engineering. Requirements: some college and five years related experience; proficiency in Excel; ability to gather budget information from various sources and prepare quarterly reports and projections; proficiency in all aspects of financial information systems, including data entry, approvals and training and supervising staff; proficiency in Microsoft Word and Excel, plus university systems (FIS, FOCUS, SIS, and WUCURSL); excellent oral and written communication skills; ability to compose correspondence, train staff, and delegate work.

IRS Audit and Tax Manager 980157. Accounting Services. Requirements: bachelor's degree with a major concentration in accounting; CPA preferred; knowledge of IRS regulations and experience in preparation of tax returns for a not-for profit organization; working knowledge of WordPerfect or other word processing software; knowledge of database management software.

CFU Accountant 980163. Accounting Services. Requirements: bachelor's degree, master's preferred; CPA preferred; excellent interpersonal skills; service orientation; accessibility; team player; experience with PC's and proficiency in word processing, spreadsheet, and database management software applications; ability to meet deadlines with varying degrees of pressure; ability to handle confidential information responsibly; excellent communication skills, written and verbal; knowledge of internal controls and various accounting system applications; ability to research and automate transaction processing and recording.

Sales Associate 980165 (part-time). Women's Society. Requirements: high school diploma; one to three years cashing/sales experience; detail oriented with a high degree of accuracy; good interpersonal skills, customer orientation and customer relations; ability to stand, lift, display merchandise; weekend availability. Flexible hours.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested should contact the medical school's Department of Human Resources at 362-7196 to request applications. External candidates may call 362-7195 for information regarding applicant procedures or may submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

Clerk/Typist (part time). Requirements: computer experience; typing skills (at least 40 wpm); excellent phone skills. Responsibilities include answering and routing phone calls; typing correspondence, memos, manuscripts and reports; filing; scheduling meetings and appointments; other duties as assigned. Hours are flexible, averaging 20 hours per week.

Technician (part time) 980602. Requirements: bachelor's degree; lab experience; skills in immunostaining of cells. Responsibilities include general lab duties in neuroimmunology lab; cell culture; immunostaining of cells; reverse-transcriptase PCR; general lab maintenance; ordering supplies. Position involves close work which requires standing and bending.

SAE brothers raise consciousness and \$20,000 to help the hungry — from page 1

lars? Thirteen hundred?" When he said it was thirteen thousand, I was completely flabbergasted."

In the end, approximately 1,000 students — more than one-third of those with a WU meal plan — donated 18,000 "points" (one point is equal to one dollar). The average donation was just under 18 points. One student, who is studying abroad next semester, donated 400 points. Another gave 240 points. Eight or nine students chipped in 100 points each. In addition, more than \$2,000 was netted in cash from corporate support, student organizations, faculty and staff.

Food is already hitting the plate. In a remarkable display of efficiency, Schaefer was able to compile a "grocery wish list" and submit it to Washington University Dining Service, which in turn placed the order through its main grocery suppliers, Alliant Foodservice Inc. and Weeke Wholesale Co. The first of three scheduled deliveries arrived at Operation Food Search Nov. 26 — the day before Thanksgiving.

"A donation like this where we actually go and buy food is very unusual for us," Schaefer said. "Most of the food we receive is donated — and it's food that would otherwise end up in a dumpster. It's dented cans, it's overproduced items. It's edible and nutritious but no longer salable — it might be approaching the freshness date.

"We have never had this kind of buying power before," she said. "So this is really nice that we can shop, so to speak, and buy the things that are most needed and least frequently donated — which are high-protein items."

Appropriately included at the top of Schaefer's holiday wish list were 300 turkeys and chickens. She said the agency generally receives only 10 or 12 donated turkeys all year. The bulk of the remaining deliveries will consist of canned items such as meats, tuna, stews and chili.

Bill McGeorge, WU Dining Services operations director for the Hilltop Campus and the middleman throughout the event, said that he's excited to hear that Point Out Hunger will become an annual event.

"We were just thrilled with every aspect of Point Out Hunger," McGeorge said. "The guys from SAE were very professional and went above and beyond everything we suggested. We'll be more than happy to work with them in the future."

Although Leraris, Lottner and Tritt will be graduating before next year's "second annual" event, they are busy constructing a model to share not only with their future SAE brethren, but also with other campus organizations — indeed, with other campuses.

"There's only 5,000 people [undergraduates] at this school," Leraris said. "Imagine what a state school could do with something like this. We set a precedent here, and we want it to spread. Any university with a meal plan can do something like this in support of the community."

Interestingly, none of the three "founding fathers" is from the St. Louis community. Leraris is from Indianapolis, Tritt is from Atlanta, and Lottner is from Denver. "Most everybody who comes to a private school is from a different part of the

country," Leraris said. "Something like this gives you a tie-in to the community. That's something a university can do."

Tritt gave a hand of thanks to the entire campus community. "Usually when Greeks do philanthropies, it just involves Greeks," he said. "But this allowed the entire University to unite. You can make a much stronger push to solve a problem through unification."

Tritt was particularly impressed by one student who got a free item, worth one point, from the bakery. The student came straight over to the Point Out Hunger table and donated the one point he would have spent. "If everyone had that same type of attitude," Tritt said, "it would go a long way."

"I know all of us were touched, and I think we have a different attitude toward hunger in terms of consuming and wasting food," Tritt concluded. "Hopefully, this will cause people to think about their own actions on a daily basis and to know that they should be more aware and to help out and volunteer."

— David Moessner

Knight-Emerson gift supports Olin School of Business — from page 1

Stuart I. Greenbaum, business school dean, said: "As a result of this gift, the Olin School will become an even greater resource to the St. Louis region, providing educational opportunities to companies of all sizes and to managers throughout the entire region. In addition, the availability of executive education opportunities of the highest quality will make St. Louis more attractive to employers considering relocation."

The enhanced facilities and augmented senior faculty will permit the business school to expand services to its many constituencies, Greenbaum said. With the help of this gift and others, the business school will expand its customized programs for executives with content designed specifically for client companies. It also intends to begin offering open-enrollment programs of a more general design.

According to Greenbaum, there is a direct relationship between the growth in stature of the business school and the

success of area businesses. "Many students remain in St. Louis after graduation and are recruited by local companies," he said. "Olin also offers corporations its faculty, who serve as consultants, and its students, who serve as interns."

Chairman and chief executive officer of Emerson since 1973, Knight has been a leading presence at the business school for nearly two decades, said William H. Danforth, chairman of the Washington University Board of Trustees.

"Chuck Knight's vision and expertise have been a guiding light for the development of the business school," Danforth said. "As one of the principal architects of the plan to bring the school to international prominence, Chuck has been a catalyst and key contributor in shaping our vision to become second to none. This significant financial contribution reflects his personal commitment."

Knight's interest in the future of the University is reflected in his active

involvement in planning and management. In 1980, he served as chairman of the task force that recommended further development and improvement of the business school. Currently, he serves as chair of the school's National Council, an advisory group that oversees the school's strategic planning. He was instrumental in strengthening the business school's endowment during a campaign in the 1980s. From 1977 to 1990, Knight served as a member of the University's Board of Trustees. In 1996, he was awarded an honorary doctor of science degree in recognition of his service to the University and the community.

Emerson, through its corporate charitable program, has funded such initiatives as the Emerson Electric Classroom; master of business administration scholarships; the Emerson Electric Professorship of Manufacturing Management; and the Charles F. Knight Scholars program, an annual recognition of the top 10 University MBA graduates.

In addition to professional development programs, the business school offers three degree programs for executives — the Executive Master of Business Administration (EMBA) and two new programs, the Executive Master of Manufacturing Management offered with the School of Engineering and Applied Science and the Executive Master of Business Administration in Health Services Management, with cooperation from the School of Medicine.

The University has maintained a School of Business since 1917 and awarded its first undergraduate business degree in 1919. The school added an MBA program in 1958, an Executive MBA program in 1983, and, in 1997, the master's programs in manufacturing and health services management.

In 1988, the business school was named in honor of the late John M. Olin, chairman of the Olin Corp., University trustee and a major benefactor of the University.

— Barbara Rea