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# Record

Dec. 7, 2001

Volume 26 No. 15



Washington University in St. Louis

## Supplier Diversity Initiative Spending with firms owned by minorities, women rises

By JESSICA N. ROBERTS

**T**he University's efforts to increase the participation of minority- and women-owned firms in University projects continue, according to a recently released report.

The University has seen its biggest success this year in increasing the total spending with minority- and women-owned firms. In 2001, \$22.2 million in direct payments were made to minority- and women-owned firms. This is a substantial increase over the totals of 1999 (\$9.3 million) and 2000 (\$8.6 million).

Construction represented 86 percent of the total spent with minority-owned firms and 73 percent spent with women-owned firms. The remaining percentages were paid to minority- and women-owned nonconstruction suppliers.

In the area of construction and capital projects, 24.3 percent of

the total dollars paid out on capital projects were to minority- and women-owned firms. This is a decrease from last year's 25.3 percentage.

As in 2000, the University saw an increase in total percentage of work hours from minority and female contract employees. This year's total percentage was 19.5, a 1.4 percentage point increase from 2000.

"A review of these key performance indicators since the fiscal year 1999 shows a consistent effort on the part of the University's key strategic departments to increase spending with minority- and women-owned firms," said Sandra Marks, director of supplier diversity programs. "However, the challenge still remains to drive toward continuous supplier diversity improvements that will result in long-term progress."

As a part of the construction supplier diversity initiative, Marks

See **Diversity**, Page 6



**Neighborhood gathering place** William A. Peck, M.D. (second from right), executive vice chancellor for medical affairs and dean of the School of Medicine, cuts a ribbon with residents of Forest Park Southeast neighborhood to open the new Adams Park Community Center at 4317 Vista Ave. With Peck at the recent event are (from left) I. Jerome Flance, M.D., emeritus clinical professor of medicine; Steven H. Lipstein, president and chief executive officer of BJC HealthCare; and Kevin McCormack (right) of McCormack Baron & Associates. After the ribbon-cutting, the community then toured the center, which will house programs in youth development, adult education, employment services, computer literacy, and health, wellness and fitness.

## Collins goes from fifth-string to player of the year

By KEITH JENKINS

**I**n several ways, Bobby Collins Jr. is like many Americans. He has attended college as a full-time student, he has competed in intercollegiate athletics and he has held a full-time job.

But in one very distinct way, he is unlike just about anyone else you'll ever meet. He does all three at once.

Collins, a 27-year-old in his second semester at the University, spends his days working for his great-uncle, I.W. Collins, as an apprentice plumber; his fall

evenings and Saturday afternoons as a running back for the Bears football team; and his nights and any free time he can manage as a psychology major in University College in Arts

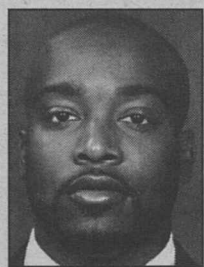
& Sciences. He plans to pursue a doctorate someday.

And just for something to keep him busy in the football offseason, he plays baseball for the Bears in the spring.

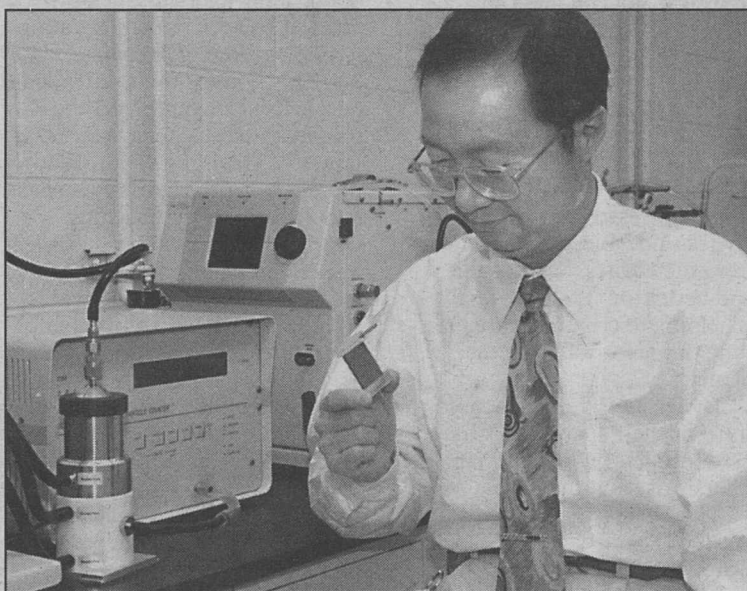
Most of us would find trying to do two things at once nearly impossible, let alone all three. But Collins does them all and does them well.

Collins didn't just suit up for the football squad — he recorded one of the best seasons by a

See **Collins**, Page 5



**Collins:** Majoring in psychology



**Da-Ren Chen, Ph.D.**, assistant professor of mechanical engineering, holds a bracelet-sized model of a nanoparticle detector. Chen holds patents on the device to his right (resembling a kitchen blender), which is nine times smaller than the industry standard norm.

## Small-scale device can detect, analyze aerosols

By TONY FITZPATRICK

**R**emember mood rings? Those '70s gadgets that turned different colors as they gauged the mood of the wearer by measuring the vibes in the air or body?

Well, Da-Ren Chen, Ph.D., assistant professor of mechanical engineering, is working on a bracelet-sized device that monitors the air quality around the wearer. Conceivably, one could attach the device to a bracelet or belt and be assured that the air is good or warned if it's bad.

While that's pretty "far out," it's just in the working stage. But Chen recently received a U.S. patent on a larger device that does

the same thing.

The device, which Chen designed and invented, is called the Nanometer Differential Mobility Analyzer (NanoDMA; U.S. patent: US 6,230,572 B1). At about 7 inches tall with a circumference of a soup bowl, Chen's analyzer is nine times smaller than the industry norm, making it more portable.

More importantly, though, it records aerosols — air particles — in the nanometer size range, the size that increasing evidence suggests is most dangerous to our health.

The coal mining and materials processing industries will find the analyzer of interest, as will any

See **Analyzer**, Page 6

## Institute for Global Legal Studies to be named for Whitney Harris

By BARBARA REA

**I**n recognition of Whitney R. Harris' lifelong achievements in the field of international justice and his support of legal education and research, the University will name its Institute for Global Legal Studies in his honor.

Chancellor Mark S. Wrighton announced the naming with a recent gift of \$2 million from Harris to support the institute at the School of Law.

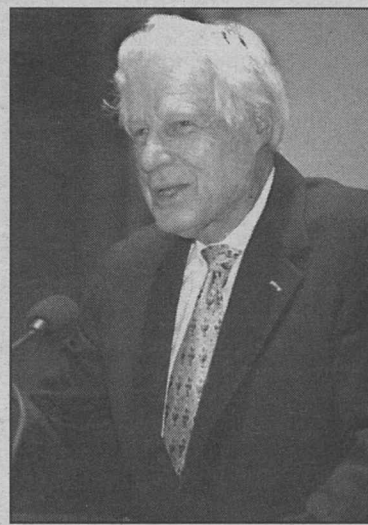
"The University has been strengthened by the wonderful generosity of Whitney Harris, his wife, Anna, and his family," Wrighton said. "We are very grateful for Whitney's interest in our law school, our libraries, and many other academic and artistic endeavors on our campus, which, over the years, have been greatly enhanced by his support."

"This gift from Whitney to the law school will provide critical support to place the Whitney R. Harris Institute for Global Legal Studies among the top centers of its kind in the world."

Joel Seligman, J.D., law school dean and the Ethan A.H. Shepley University Professor, said that Harris' connection with the institute is a wonderful match.

"It is rare that the purpose of an educational entity can be matched so well with the career of the individual after whom it is to be named," Seligman said. "Whitney Harris was a prosecutor at Nuremberg, championed international law through his book on the Nuremberg trials, and more recently has been an advocate for a permanent international criminal court."

Now in its second year, the



The University is naming its Institute for Global Legal Studies in honor of Whitney R. Harris, in recognition of his lifelong achievements in the field of international justice and his support of legal education and research.

institute is directed by Stephen H. Legomsky, J.D., D.Phil., the Charles F. Nagel Professor of International and Comparative Law.

"I wish to express my particular gratitude to Steve Legomsky for his inspiring leadership of the institute, which will benefit greatly from this gift," Seligman said.

With the Whitney R. Harris Institute of Global Legal Studies, See **Harris**, Page 6

### Happy holidays

The Record will not publish again until the beginning of the spring semester. Look for the next issue Jan. 11.





**A special welcome** Chancellor Mark S. Wrighton says hello to 4-year-old Rachel Rotter, daughter of Sandra Rotter (center), a candidate for December graduation with a master's degree in social work, and her husband, Jim. The family was attending the Chancellor's Reception for December Graduates in Holmes Lounge in Ridgley Hall Dec. 2. There are 551 degree candidates for December graduation.

## Water stayed on Mars longer than thought, analyses show

By BRIAN SCHNALL

An analysis of high-resolution topographic maps and photographs, as well as recent studies of Martian meteorites, suggest the presence of water on the Red Planet for a longer time scale than scientists had previously believed.

Brian M. Hynek, doctoral candidate in earth and planetary sciences in Arts & Sciences, and Roger J. Phillips, Ph.D., professor of earth and planetary sciences and director of the University's McDonnell Center for the Space Sciences, analyzed topographic maps — accurate to within a half-meter — of the planet that are based on data returned from the Mars Orbiter Laser Altimeter (MOLA) on the Mars Global Surveyor (MGS) mission.

Phillips also used earlier analyses of Martian meteorites to help constrain models of the ancient climate of Mars. The meteorites contain weathering deposits produced from liquid water filling cracks and voids in the rock within the last billion years. This work led to a better understanding of when, and how much, water was on Mars in the past.

"Certainly water was circulating in the upper part of the Martian crust within the last billion years," Hynek said. "And even until today, water seems to be an important agent in some places on the surface of Mars that would argue for very near surface water on a lot of the planet."

A recent discovery by the imaging camera team on MGS indicates the presence of small gullies at high latitudes on Mars that were formed in the very recent past and may still be active today. Phillips and his colleague, Michael Mellon, Ph.D., of the University of Colorado, modeled the properties of Martian soil and concluded that the gullies were probably formed by liquid water, which may be present only several hundred feet beneath the surface Mars. This work was published in the October Journal of Geophysical Research.

The research was presented in an invited talk for the recent 113th annual meeting of the Geological Society of America. The research is primarily supported by NASA grants.

Evidence for the ancient presence of water on Mars has existed for many years. Scientists long have accepted the river valley networks, ancient lakes and outflow channels as indicative of surface water flowing at some time in the planet's more than 4 billion-year-old history.

"There has always been evidence from very ancient valley networks that water was there at some time extremely early on," Hynek said. "But new evidence from meteorites, young gullies and better topographic resolution is helping to clarify a more precise time frame for water on the planet."

Hynek and Phillips focused some of their analysis in two predominant regions of Mars, the Tharsis rise and the Arabia bulge.

The Tharsis rise dominates the Western Hemisphere of Mars. It is a broad, elevated region rising up to 10 kilometers above its surroundings and encompassing more than 30 million square kilometers.

The rise is the site of large-scale volcanism and extensive fracturing of the crust. Due to the extreme pressure of this rise on the planet's surface, the opposite side of Mars bulges outward, causing a deformation known as the Arabia bulge.

River valley networks flow all over the Arabia bulge. The prevailing theory is that these intricate networks represent evidence for water once flowing on the surface of Mars. Although researchers have known about these formations for many years, they had no idea of their greater significance until they looked at the high-resolution topographic map.

"Most of the valley networks flow downhill from the bulge, and this argues that the valley networks follow the topography induced by the massive load of Tharsis," Hynek said.

According to Hynek, the valley networks came after Tharsis warped the planet because they

## ITeach symposium to present technology solutions to faculty

By JESSICA N. ROBERTS

Faculty can get a jump on the spring semester by participating in ITeach, the University's first teaching and technology symposium, Jan. 3-4.

ITeach, co-sponsored by University Libraries, the Teaching Center and the Teaching Lab in Arts & Sciences, will focus on helping University faculty members integrate technology into teaching.

"ITeach will present some concrete solutions to problems encountered when bringing technology to the classroom, whether it's creating Web pages for courses, setting up out-of-class discussion groups or handling Internet plagiarism," said Kathryn Atnip, director of academic services for the Teaching Lab in Arts & Sciences. "ITeach will also offer participants perspectives from other faculty members dealing with the same issues."

In addition to general sessions about using technology in teaching, ITeach participants can attend presentations and workshops on managing courses and communicating with students; finding, creating and using appropriate resources for courses; using technology immediately in courses; understanding the new Arts & Sciences curriculum; and employing teaching resources.

Plenary sessions will be held at Holmes Lounge in Ridgley Hall. Workshop and other sessions will be held primarily in Eads Hall — specific locations will be provided at the event. Breakfast and lunch will be provided each day, and there will be a reception at the close of the symposium.

Showcases by University faculty and staff members will highlight their innovative uses of technology and University technology resources. Plus, all participants will have the opportunity to discuss their own ideas and questions on integrating technology into their courses.

"This symposium is intended to be a helpful and even exciting way to start the second semester," said James W. Davis, Ph.D., professor of political science in Arts & Sciences and director of the Teaching Center. "Faculty will be able to get questions answered, exchange ideas with colleagues and see what's happening in a number of departments."

"Today's information technologies allow familiar information to be organized and presented in different ways, help make available information and images out of reach in the past, and make it easier than ever to visually enrich classroom presentations. Everyone who attends should learn more about ways to enhance teaching by exploiting information technologies."

ITeach participants can enter to win one of three attendance prizes: a laptop computer, one of 20 PalmPilots, or a grant of several hours' help from a trained Student Technology Assistant. Prizes will be awarded at the concluding reception.

"Faculty will be able to get questions answered, exchange ideas with colleagues and see what's happening in a number of departments. ... Everyone who attends should learn more about ways to enhance teaching by exploiting information technologies."

JAMES W. DAVIS

"Kathy Atnip and her colleagues in the Arts & Sciences Computing Center, Olin Library and in the Teaching Center are the catalysts for this," said Dennis J. Martin, associate vice chancellor and associate dean of Arts & Sciences.

"We are also grateful for the partnership with the library and Teaching Center as co-sponsors for this event. The ITeach planning group has explored what other campuses are doing along these lines, and Kathy's thought a lot about what best approach makes sense for Washington University. She has been the organizer and chief architect for ITeach, and she's had great help from a faculty advisory committee made up of key campus leaders in the use of technology in the classroom."

The symposium is free to University faculty, but registration is required. For more information about ITeach and to register, visit [arts.wustl.edu/~iteach](http://arts.wustl.edu/~iteach).

### ITeach Faculty Advisory Committee

- **Lisa Baldez**, Ph.D., assistant professor of political science in Arts & Sciences
- **Elaine P. Berland**, Ph.D., associate dean of the Graduate School of Arts & Sciences
- **Cindy A. Brantmeier**, Ph.D., assistant professor of Spanish and applied linguistics in Arts & Sciences
- **James W. Davis**, Ph.D., professor of political science in Arts & Sciences and director of the Teaching Center
- **Sarah C.R. Elgin**, Ph.D., professor of biology in Arts & Sciences
- **Regina Frey**, Ph.D., senior lecturer of chemistry in Arts & Sciences, associate director of the Teaching Center and assistant dean of Arts & Sciences
- **Derek M. Hirst**, Ph.D., the William Eliot Smith Professor of History in Arts & Sciences
- **Peter J. Kastor**, Ph.D., assistant director of American Culture Studies in Arts & Sciences

### Weather information on Web, broadcasts

If a severe snow or ice storm causes the University to alter the normal work and/or class schedules, an announcement will be posted on the University's home page ([wustl.edu](http://wustl.edu)) and a number of media outlets will air an announcement.

There will be separate announcements for the Hilltop Campus (includes all campuses other than the Medical Campus) and for the Medical Campus students, faculty and staff, as well as a separate announcement for evening school classes.

The University community can watch KSDK Channel 5, KMOV Channel 4, KTVI Channel 2, or KDNL Channel

30, or listen to KMOX (1120 AM) or WSIE (88.7 FM).

Radio station 550 KTRS-AM has an off-air telephone snow-closing system. To access it, dial 550-KTRS (5877) or 453-5555. You will be prompted to enter an identification number. For the Hilltop Campus, the ID number is 1278; for evening classes, the ID number is 1440; and for the medical school, the ID number is 1439. If there is a closing or cancellation, it will be announced a few seconds after you enter the ID number. All KTRS snow-closing announcements will be erased from the system between 2 p.m. and 3 p.m. To check for the following day, you will need to call after 3 p.m.

## Record

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Washington University in St. Louis

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## School of Medicine Update

# Flu shots safe for people with asthma, study finds

Influenza vaccines are safe for children and adults with asthma, according to new research led by the School of Medicine.

Mario Castro, M.D., assistant professor of medicine, headed the national study by the American Lung Association's Asthma Clinical Research Centers Network.

The results appeared in the Nov. 22 issue of *The New England Journal of Medicine*.

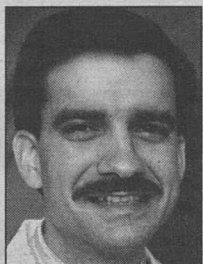
According to Castro, these new findings put to rest previous concerns about side effects of the flu shot in people with asthma.

"We showed for the first time that the influenza vaccine is safe to use for all patients with asthma, regardless of their age or the severity of their condition," Castro said. "If everyone with asthma gets a flu shot this year, we can prevent millions of asthma attacks, many of which would have been severe and resulted in hospitalizations."

An estimated 26 million

Americans have been diagnosed with asthma in their lifetime. Over the past two decades, the number of deaths attributed to this respiratory disease has increased by 109 percent.

Influenza can be very dangerous for people with asthma and other "high-risk" conditions. Viral respiratory infections, such as influenza, may cause asthma episodes in people of all ages and account for roughly



**Castro:** Headed asthma study

80 percent to 85 percent of asthma episodes in children. These infections often render people with asthma more susceptible to constriction of the airways and persistent decline in lung function.

The influenza vaccine is

**"We showed for the first time that the influenza vaccine is safe to use for all patients with asthma, regardless of their age or the severity of their condition."**

MARIO CASTRO

effective in preventing the flu in 70 percent to 90 percent of people who receive it. Yet, according to the American Lung Association, some physicians have been concerned about giving the flu shot to patients with severe asthma or to children with asthma. But based on these new findings, the organization now urges children and adults with asthma who haven't already received a flu shot this year to get one right away.

The Asthma Clinical Research Centers Network examined 2,032 children and adults who were diagnosed with asthma. Patients were randomly assigned to receive the actual flu shot or a placebo

injection that did not contain the flu vaccine. The two groups switched mid-study so that all participants received the real flu vaccine by the end of the study.

They found that people with asthma did not have any higher rates of asthma attacks in the 14 days after receiving the influenza vaccine compared with those who received a placebo.

"This study has proven that the flu shot does not trigger asthma attacks," Castro said. "Unfortunately, only about 10 percent of people with asthma currently get a flu shot, in part because they have been afraid it would adversely affect their asthma."

"It is especially important to get a flu shot this year because of concerns about bioterrorism, since most of the potential infections, such as anthrax, begin with symptoms of the flu. The fewer people with the flu, the fewer people concerned about experiencing flu-like symptoms."

The St. Louis portion of this nationwide effort was supported by the American Lung Association of Eastern Missouri in a unique collaboration among the University, Saint Louis University and the Clinical Research Center located at Barnes-Jewish West County Hospital.

"The American Lung Association should be commended for the establishment of the Clinical Research Centers Network," said Phillip E. Korenblat, M.D., professor of medicine and part of the University research team. "Studies such as this provide immediate, clinically relevant information important to physicians and to the patients for whom they care."

## Conte Center opens for neuroscience research

### Brain studies to focus on schizophrenia

By JIM DRYDEN

University neuroscientists have received a three-year, \$2 million grant to fund a new Silvio Conte Center for Neuroscience Research.

The center, funded by the National Institute of Mental Health, will unify and oversee several major brain-mapping projects that are attempting to locate and identify anatomical differences in patients with schizophrenia and other psychiatric disorders.

The Conte Center is one of a handful of such centers around the country and the only one in the Midwest.

The centers were created to honor former U.S. Rep. Silvio O. Conte, a longtime advocate for scientific research. Before his death from cancer in 1991, the Massachusetts congressman had sponsored the congressional resolution that designated the 1990s as the "Decade of the Brain."

Conte Centers involve multiple research projects that intensively investigate severe mental disorders. At this new Conte Center, Director John G. Csernansky, M.D., the Gregory B. Couch Professor of Psychiatry in the School of Medicine, will coordinate the activities of a group of neuroscience researchers using several methods to identify and study subtle structural differences in people with schizophrenia and their relatives.

Using different types of magnetic resonance imaging (MRI), combined with very powerful computer programs, the researchers will look at the size and shape of several brain structures, including the hippocampus — a seahorse-shaped structure important in several brain functions including learning and memory.

In one project, Csernansky and C. Robert Cloninger, M.D., the Wallace Renard Professor of Psychiatry and professor of genetics, will use high-resolution MRI to study volunteers who are in the early stages of schizophre-

nia, the siblings of those volunteers and healthy controls who are the same age as the siblings.

Another University project, coordinated by Deanna M. Barch, Ph.D., assistant professor of psychology in Arts & Sciences and of psychiatry in the medical school, and Randy L. Buckner, Ph.D., associate professor psychology and assistant professor of radiology and of anatomy and neurobiology, will use functional MRI (fMRI) to study changes in the activity of the same brain structures.

A third research project of the new Conte Center will be based at Yale University in New Haven, Conn. Researchers there will use MRI scans in a search to discover the sequence of changes in brain structures in Rhesus monkeys that have been exposed to very low levels of X-rays in utero.

All of these imaging studies will take advantage of work done by another participating research group based at Johns Hopkins University in Baltimore. There, engineers have designed computer programs that can take standard MRI images and fMRI images and extract from them detailed information about brain structure and function. For the cortex, which is highly folded, these programs can "flatten" it out to make comparisons easier.

"These brain-mapping tools allow us to look for very small differences in brain structure with an unprecedented degree of detail and so identify brain structures that are both normal and abnormal in patients with psychiatric and neurological diseases," said Csernansky, who also is associate professor of anatomy and neurobiology.

Until the last few years, it's been nearly impossible to separate normal anatomical variations from subtle changes that contribute to disease.

Working with the researchers at Hopkins, Csernansky and his colleagues have found that in patients with schizophrenia, specific structures of the brain



**John G. Csernansky, M.D. (right), the Gregory B. Couch Professor of Psychiatry and associate professor of anatomy and neurobiology, shows a brain image in the new Silvio Conte Center for Neuroscience Research to Lei Wang, Ph.D. (left), research associate in psychiatry, and Deanna M. Barch, Ph.D., assistant professor of psychology in Arts & Sciences and of psychiatry in the School of Medicine.**

— such as the hippocampus — have small but distinct deformities of shape. However, because there is no large change in the size of such structures, these deformities would not be detectable without new computer technology that allows the investigators to spot very slight differences.

"A good metaphor might involve comparing the brain to a car," Csernansky said. "In the past, with the limitations in our imaging technology, the brain/automobile would need to be missing a fender or an entire door before we could notice a difference. But with this new computer technology, we can

now detect 'scratches in the paint' or 'hail damage' that was completely undetectable before."

In addition to the computing and imaging teams involved in the Conte Center, there also will be biostatisticians to compile and analyze data, and clinicians who will diagnose and assess the cognitive health of the human volunteers involved in the studies.

Csernansky hopes that, taken together, the projects will lead to better understanding of the early phase of schizophrenia and an improved ability to make early diagnoses of such

illnesses. Whether that's possible depends upon the computer's ability to distinguish between deformities and normal variations.

"Size is much more variable among people than shape" Csernansky said. "Taller people have bigger brains. Men tend to have bigger brains than women, but size, per se, doesn't seem to be terribly predictive of function. The shape of brain structures seems to be more important, and our preliminary results have found subtle differences in hippocampal shape between people with normal brains and people with schizophrenia."

## Volunteers with diabetes needed to test heart disease drug

By GILA Z. RECKESS

Individuals with type 2 diabetes may be eligible for a new study at the School of Medicine. Researchers are testing a drug called Losartan to see if it can help prevent heart failure in these patients.

Diabetics are four to five times as likely to develop heart failure as nondiabetics, even if their blood-sugar levels are well controlled. About 60 percent of type 2 diabetics who have no other risk

factors for heart disease show early signs of heart failure.

Researchers believe the increased heart risk in diabetics results from abnormally high amounts of angiotensin II, a hormone that increases blood pressure and triggers other changes that endanger the heart and brain. They therefore are studying whether Losartan, a drug known to block angiotensin II, can prevent the development of heart problems in these patients.

Individuals who do not have high blood pressure and are not already being treated for a heart condition may qualify for the study. Participants will receive either Losartan or a sugar pill for one year. They also will receive five free follow-up evaluations, including echocardiograms, blood and stress tests, and will be compensated for their time.

For more information about this study, contact John Boyer, M.D., at 747-4532.



# University Events

## Cyrus Chestnut brings 'A Charlie Brown Christmas' to Edison

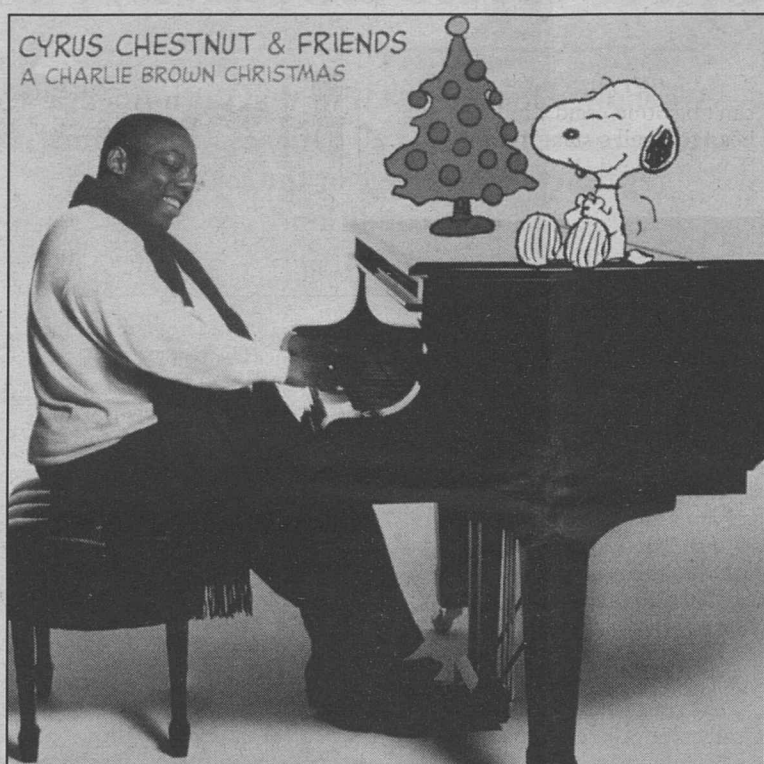
By LIAM OTTEN

**T**ime sure flies when you're dancing like a beagle! Charles Shultz's cartoon classic "A Charlie Brown Christmas" may have debuted in 1965, but the Peanuts television special still feels as fresh and alive as ever. It also *sounds* as fresh as ever, thanks to Vince Guaraldi's ambling, poignant and instantly recognizable score.

On Dec. 9, jazz pianist Cyrus Chestnut and his musical friends will perform Guaraldi's elegant yuletide compositions at the University as part of the Edison Theatre OVATIONS! Series. The special one-night-only concert begins at 8 p.m. and features a guest appearance by the Greater St. Louis YMCA Boys' Choir.

The performance is co-presented by the University's Black Alumni Council, the Friends of Edison Theatre and the College of Arts & Sciences' Alumni and Development Office, with additional support from the Missouri Arts Council and the Regional Arts Commission.

"A Charlie Brown Christmas" remains the most familiar and probably the best loved of Guaraldi's works, which include some 15 Peanuts soundtracks as well as more traditional jazz recordings. Signature tunes like "Linus and Lucy" and "Christmas Time Is Here" have introduced generations of viewers to Snoopy, Schroeder, Charlie Brown and the rest of the gang, matching



Jazz pianist Cyrus Chestnut and his musical friends will perform Vince Guaraldi's "A Charlie Brown Christmas" at 8 p.m. Dec. 9 at Edison Theatre. The concert also will feature a guest appearance by the Greater St. Louis YMCA Boys' Choir.

Schultz's warmth and wry humor with smooth piano, bass and drum trios.

Chestnut, as a young musician, was famous amongst his high school peers as the guy who could play "Charlie Brown" on demand. For "A Charlie Brown Christmas," Chestnut and his musical friends return to those early roots,

honoring the simplicity and humanity of Guaraldi's work, which — like that of "Loony Tunes" composer Carl Stallings — is enjoying renewed critical attention.

Guaraldi (1928-1976) was born in San Francisco and earned his jazz chops as a student at San Francisco State College, playing

weddings and high school dances before graduating to his first serious gig, filling in for Art Tatum at the Black Hawk club. His first recorded work came in 1953, on the Cal Tjader Trio's release "Vibratharpe."

Over the next decade, Guaraldi became a fixture of the Bay Area jazz scene, recording both his own music and as a sideman for Nina Simone, Stan Getz, Jimmy Witherspoon and other notable artists. In 1962, his "Jazz Impressions of Black Orpheus," based on the 1959 film, yielded one of the most popular jazz singles ever, the Gold Record and Grammy-winning "Cast Your Fate to the Wind."

In 1965, Guaraldi was commissioned by San Francisco's Grace Cathedral to write a modern jazz setting for the choral Eucharist. In the early 1970s, he even served as an unofficial member of the Grateful Dead, while the group was between permanent keyboardists.

Chestnut began playing piano at the age of 4 and organ at the age of 7, later training at the Peabody Conservatory in Baltimore and the

Berklee College of Music in Boston. His professional career began in 1988, backing such notable musicians as Jon Hendricks, Wynton Marsalis and Betty Carter.

He launched his own recording career in 1994 with "Revelation," which spent seven weeks at the top of the jazz charts and was voted Best Jazz Album in The Village Voice's annual poll.

For the recorded version of "A Charlie Brown Christmas," released last year as Chestnut's sixth album, the pianist was joined by such notable players as Michael Brecker, Don Alias, Stefon Harris, Wallace Roney, Gary Bartz, Kenny Garrett, Pat Martino, Steve Turre and Steve Cole, as well as by the vocals of Vanessa

Williams, the Boys Choir of Harlem, Brian McKnight and The Manhattan Transfer.

Tickets to the Dec. 9 concert are \$25 and are available at the Edison Theatre Box Office, 935-6543, and through all MetroTix outlets. For more information, call 935-6543.

### Cyrus Chestnut

**Who:** Jazz pianist Cyrus Chestnut & Friends; special guest appearance by the Greater St. Louis YMCA Boys' Choir

**What:** Concert, "A Charlie Brown Christmas"

**Where:** Edison Theatre

**When:** 8 p.m. Dec. 9

**Tickets:** \$25, available at Edison Theatre Box Office, 935-6543, or MetroTix; call for discounts.

**Sponsor:** Edison Theatre OVATIONS! Series

For more information, call 935-6543.

## Evo-devo of Butterfly Eyespots • A Matter of Balance • German Opera

"University Events" lists a portion of the activities taking place at Washington University Dec. 7-Jan. 16. Visit the Web for expanded calendars for the School of Medicine ([medschool.wustl.edu/events/](http://medschool.wustl.edu/events/)) and the Hilltop Campus ([cf6000.wustl.edu/calendar/events/](http://cf6000.wustl.edu/calendar/events/)).

### Exhibitions

**"Max Weber in America and Other Paintings."** Werner Gephart, Fulbright Distinguished Chair for German Studies. Through March 31, 2002. Room 320 Anheuser-Busch Hall. 935-7988.

**"Shimon Okshteyn Exhibition."** Through Jan. 2, 2002. Des Lee Gallery, University Lofts Bldg., 1627 Washington Ave. 621-8735.

### Lectures

#### Friday, Dec. 7

**9:15 a.m. Pediatric Grand Rounds.** "Emerging Therapies for Inflammatory Bowel Disease in Children." Jeffrey Hyams, prof. of pediatrics, U. of Conn. School of Medicine, Farmington. Clopton Aud., 4950 Children's Place. 494-6006.

**4 p.m. Biology seminar.** "Evo-devo of Butterfly Eyespots and Exploring Constraints." Paul Brakefield, Leiden U., Netherlands. Room 322 Rebstock. 935-6706.

**4 p.m. Neuroscience seminar.** "Dopamine and the Motivation to Eat." Richard Palmiter, U. of Washington, Seattle. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

**5:30 p.m. Radiation Oncology Dept. lecture.** Carlos A. Perez Endowed Lectureship in Oncology. "Radiation Oncology and the NCI's Extraordinary Opportunities: Molecular Imaging, Signatures, and Therapeutics." C. Norman Coleman, dir., Radiation Oncology Sciences Program; assoc. dir., Radiation Research Program; and deputy dir., Clinical Sciences Div., National Cancer Inst., National Institutes of Health. Steinberg Hall Aud. 362-2866.

**6 and 8:30 p.m. Travel Lecture Series.** "Great Trans-American Train Ride." Doug Jones. Cost: \$5. Sponsored by the Washington U. Assoc. Graham Chapel. 935-5212.

#### Monday, Dec. 10

**Noon. Neurology and neurological surgery research seminar.** "Stroke Recovery and Brain Injury Therapy." Alexander W. Dromerick, assoc. prof. of neurology and neurological surgery. Schwarz Aud., first floor, Maternity Bldg. 362-7316.

**4 p.m. Immunology Research Seminar Series.** "Fine Tuning of Innate Responses Against Pathogens by Activating and Inhibitory Myeloid Cell Receptors." Marco Colonna, prof. of pathology and immunology. Eric P. Newman Education Center. 362-2763.

#### Tuesday, Dec. 11

**Noon-1 p.m. Alzheimer's Disease Research Center seminar.** "Mechanism of Tau-based Neurodegeneration." Mark S. Forman, instructor, Center for Neurodegenerative Disease Research, U. of Pa. School of Medicine, Philadelphia. East Pavilion Aud., Barnes-Jewish Hosp. Bldg. 286-2881.

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Respiratory Viruses and Airway Disease." Michael J. Holtzman, the Selma and Herman Seldin Prof. of Medicine, pulmonary and critical care medicine div., and prof. of cell biology and physiology. Cori Aud., 4565 McKinley Ave. 362-8873.

**4 p.m. Tumor Genetics Seminar Series.** "Merlin and Company: Gaining 'Fermi' Control of Cell Growth." David H. Gutmann, assoc. prof. of genetics, of neurology and neurological surgery and of pediatrics. Sponsored by Siteman Cancer Center. Room 426 McDonnell Medical Sciences Bldg. 747-7222.

#### Wednesday, Dec. 12

**4:15 p.m. Biochemistry and molecular biophysics seminar.** "Impact of Protein Folding Landscapes on Biological Function: Longevity Through Kinetic Stability." David A. Agard, prof. of biochemistry and biophysics, U. of Calif., San Francisco. Cori Aud., 4565 McKinley Ave. 362-0261.

#### Thursday, Dec. 13

**Noon-1 p.m. Genetic seminar.** "Genome Evolution in Response to Genetic Linkage and Hitchhiking: Evidence From *Drosophila*, Humans and Yeast." Martin Kreitman, prof. of ecology and evolution, U. of Chicago. Room 823 McDonnell Medical Sciences Bldg. 362-2062.

**4 p.m. Vision Science Seminar Series.** "Regulation of Retinal Ganglion Cell Dendritic Development by Neurotransmission." Rachel O. L. Wong, assoc. prof. of

anatomy and neurobiology. East Pavilion Aud., Barnes-Jewish Hosp. Bldg. 362-1006.

#### Friday, Dec. 14

**9:15 a.m. Pediatric Grand Rounds.** "Branching Morphogenesis and Renal Dysplasia: A Matter of Balance." Norman Rosenblum, assoc. prof. of pediatrics and physiology, U. of Toronto, div. of nephrology, The Hospital for Sick Children, Toronto. Clopton Aud., 4950 Children's Place. 494-6006.

**Noon. Cell biology and physiology seminar.** "Mechanism of Amyloid Formation and Propagation: Lessons From a Yeast Prion." Jonathan Weissman, asst. prof., HHMI, U. of Calif., San Francisco. Room 426 McDonnell Medical Sciences Bldg. 747-1808.

**3 p.m. Basic Science Seminar Series.** The Julia Hudson Freund Memorial Lecture. "Mitochondrial Gateway to Apoptosis." Stanley J. Korsmeyer, prof. of medicine and pathology, Dana Farber Cancer Inst. Eric P. Newman Education Center. 747-7222.

**4 p.m. Anatomy and neurobiology seminar.** "Assembly of a Postsynaptic Membrane." Joshua R. Sanes, prof. of anatomy and neurobiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

#### Monday, Dec. 17

**4 p.m. Condensed matter/materials and biological physics seminar.** "Nonlinear Dendrites and Cortical Computation." Kevin Archie, biomedical engineering dept., U. of Southern Calif., Los Angeles. Room 241 Compton Hall (coffee 3:45 p.m.). 935-6276.

**Noon. Neurology and neurological surgery research seminar.** "Cellular and Transgenic Approaches to Prion Diseases." David A. Harris, assoc. prof. of cell biology and physiology. Schwarz Aud., first floor, Maternity Bldg. 362-7316.

#### Tuesday, Dec. 18

**Noon-1 p.m. Alzheimer's Disease Research Center brown bag lunch seminar.** "Anticholinesterases and Neuronal Protection?" Karin Van Meter, clinical assoc. prof. and dir., GEC, Des Moines U., Iowa. East Pavilion Aud., Barnes-Jewish Hosp. Bldg. 286-2881.

#### Friday, Dec. 21

**9:15 a.m. Pediatric Grand Rounds.** "Disorders of Social Development in Children: An Update." John N. Constantino, asst. prof. of psychiatry and of pediatrics. Clopton Aud., 4950 Children's Place. 494-6006.

**Noon. Cell biology and physiology seminar.** "Looking Forward Through the Rear-view Mirror: Mechanisms of Neuronal Migration in Developing Cerebral Cortex." Alan L. Pearlman, prof. of cell biology and physiology and of neurology and neurological surgery. Room 426 McDonnell Medical Sciences Bldg. 747-4233.

#### Friday, Jan. 4

**4 p.m. Anatomy and neurobiology seminar.** Charles H. Anderson, research prof. of anatomy and neurobiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

**6 and 8:30 p.m. Travel Lecture Series.** "India." Willis Moore. Cost: \$5. Graham Chapel. 935-5212.

#### Wednesday, Jan. 9

**Noon. Orthopaedic research seminar.** "The SEDT Gene: New Insight Into Cartilage Biology." Steve Mumm, research asst. prof. of medicine, bone and mineral diseases div. Room 11300 West Pavilion, Barnes-Jewish Hosp. 454-7800.

#### Thursday, Jan 10

**Noon-1 p.m. Genetics seminar.** "The Molecular Genetics of Meiosis." R. Scott Hawley, Stowers Inst. for Medical Research. Room 823 McDonnell Medical Sciences Bldg. 362-2062.

#### Friday, Jan. 11

**4 p.m. Anatomy and neurobiology seminar.** W. Thomas Thach Jr., prof. of anatomy and neurobiology and of neurology and neurological surgery. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

#### Monday, Jan. 14

**4 p.m. Immunology Research Seminar Series.** "The Parsifal Syndrome in Antigen Presentation." Emil R. Unanue, the Edward Mallinckrodt Prof. and Head of Dept., pathology and immunology. Eric P. Newman Education Center. 362-2763.

### Music

#### Friday, Dec. 7

**8 p.m. Opera performance.** "Beauty and Humor in German Opera." Excerpts from Richard Wagner's "Das Rheingold," Otto Nicolai's "The Merry Wives of Windsor" and Engelbert Humperdinck's "Hansel and Gretel." Jolly Steward, dir., and John Stewart, conductor. (Also Dec. 8, same time.) Umrath Hall Lounge. 935-4841.

#### Sunday, Dec. 9

**3 p.m. Sing-along concert.** Handel's "Messiah." John Stewart, dir. Musical scores provided. Graham Chapel. 935-4841.

**8 p.m. Flute Choir concert.** Jan Smith, dir. Graham Chapel. 935-4841.

### On Stage

#### Sunday, Dec. 9

**8 p.m. OVATIONS! Series.** "A Charlie Brown Christmas." Jazz pianist Cyrus Chestnut & Friends. Guest appearance by the Greater St. Louis YMCA Boys' Choir. Co-presented by Black Alumni Council. Cost: \$25. Edison Theatre. 935-6543.

### Sports

#### Saturday, Dec. 8

**3 p.m. Men's basketball** vs. Ill. Wesleyan U. Bloomington. Field House. 935-5220.

#### Wednesday, Dec. 12

**7 p.m. Women's basketball** vs. Ill. College, Jacksonville. Field House. 935-5220.

#### Thursday, Jan. 3

**7 p.m. Women's basketball** vs. Webster U. Field House. 935-5220.

#### Saturday, Jan. 5

**6 p.m. Women's basketball** vs. U. of Chicago. Field House. 935-5220.

**8 p.m. Men's basketball** vs. U. of Chicago. Field House. 935-5220



# Collins

**Balances two sports, full-time job, classes**  
— from Page 1

tailback in the University's 111-year gridiron history.

His 1,015 rushing yards broke the rookie rushing record by more than 300 yards and marked just the fifth 1,000-yard season in team history. Collins also scored seven touchdowns in leading the Bears to an 8-2 record (just the fourth eight-win season ever for the program) and their second outright University Athletic Association (UAA) title in the last three years.

And to cap it off, in November Collins was named the UAA Offensive Player of the Year.

But why would someone already busy enough with a job and schoolwork want to

complicate matters further by devoting a large chunk of time to sports?

"I've just always loved sports, and I love the game of football," Collins said "But while I do love the game, it was a tough decision to come out for the football team. Originally, I just planned on playing baseball, but after hearing some good things about the football team, I talked to Coach (Larry) Kindbom about proving myself on the football field."

Coming into preseason camp, he had plenty to prove as he sat behind no less than four other players on the depth chart. But a rash of injuries gave Collins the chance to shine, and he took full advantage of the opportunity.

"I always knew I had the talent, and I have a lot of confidence in myself," Collins said "It was just a matter of me applying myself and most importantly, getting an opportunity."

"And that's the thing; you can have all the talent in the world, but if you don't get an opportunity to prove yourself, that talent doesn't do you any good."

He didn't have to wait long.

Returning starter John DeLeon was still recovering from shoulder surgery and the next three tailbacks in line were on the shelf. So Collins got the start in the season opener against Westminster College.

He responded with 152 yards on 21 carries, propelling the Bears to a 34-27 win. Collins never looked back.

He would add three more 100-yard rushing days, including a 206-yard effort against Case Western Reserve University, as the Bears came within a whisker of earning their second NCAA playoff berth in the last three seasons.

Things may have looked easy

**"I think there's a little bit of Bobby Collins in all of us that says, 'I'd like to do something' even though other people say it can't be done. People say, 'You can't get a Washington University degree. You can't work full-time, play football and go to school.' All of us have that (drive) inside, but most of us don't get there. Bobby Collins is one of the few, and I think that really speaks to his maturity and perseverance."**

LARRY KINDBOM

for Collins, but they certainly didn't come that way over the course of a long season.

"I enjoy football — I must, or I wouldn't do it," Collins said. "But it does take its toll at times. When it does get hard with everything else going on, I just have to look at the positive side. I try not to think about all the things I have to do, I just go ahead and do it."

It's that kind of hard-nosed effort that got the St. Louis native to the University in the first place. After two years at Ritenour High School, Collins moved to Denver, where he graduated from East High School.

After more than four years of work, he decided he needed to go back to school and get his degree. A promising football player, he attended Ventura Junior College in California for a year, and a successful season on the field had him drawing the attention of some big-time programs. But a knee injury ended his hopes for a scholarship.

Still intent on getting a degree, he decided to enroll at Washington University. He has continued to

work and attends classes at night.

"I believe in myself no matter what obstacles are in my way," Collins said. "I tune all the nonsense out, play my game and do what I have to do."

Kindbom has been impressed.

"I think there's a little bit of Bobby Collins in all of us that says, 'I'd like to do something' even though other people say it can't be done," said Kindbom, the head football coach. "People say, 'You can't get a Washington University degree. You can't work full-time, play football and go to school.'"

"All of us have that (drive) inside, but most of us don't get there. Bobby Collins is one of the

few, and I think that really speaks to his maturity and perseverance."

The only question now is, will Collins keep doing all that he's doing? He wants to be a family therapist, so after he's finished with his undergraduate work in two years, he plans to set out after a doctorate. Bear

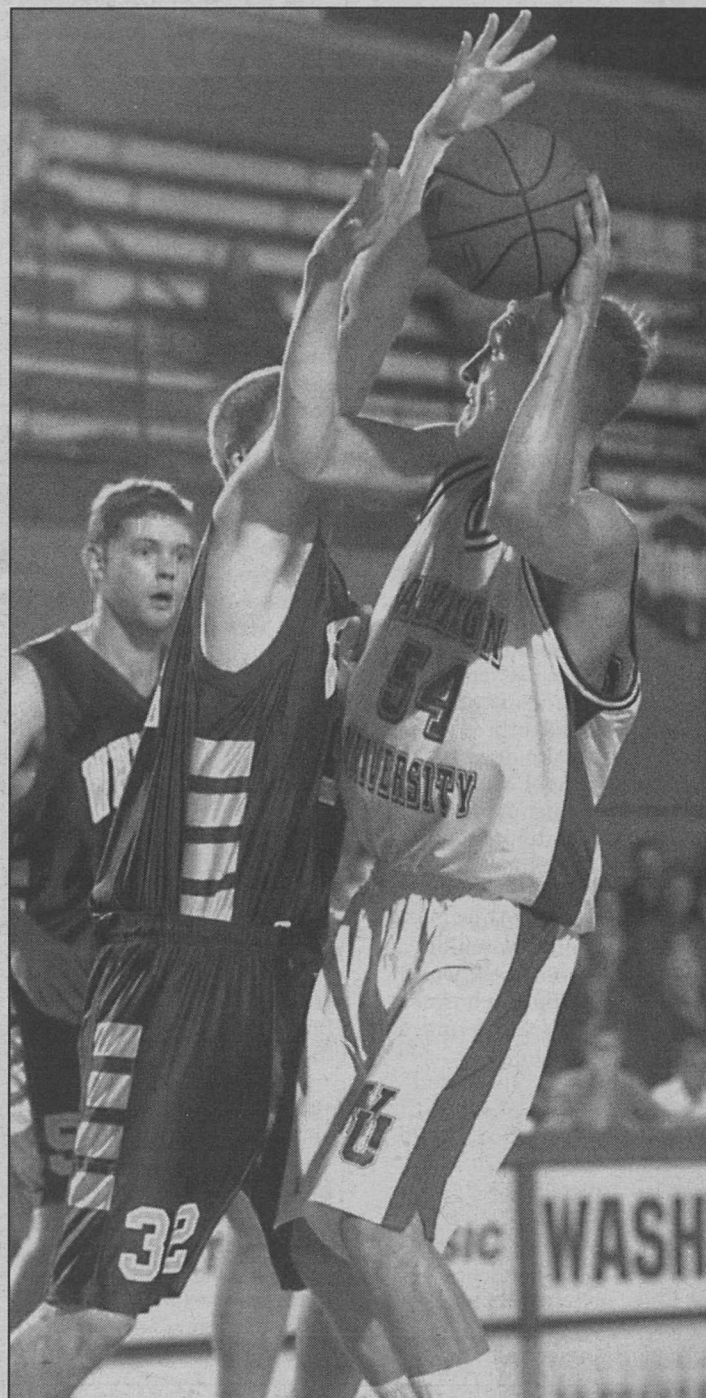
football fans hope Collins sticks around to pursue the school rushing record.

So whether he's opening holes as a running back, filling holes as a plumber or doing anything else he chooses to do, you can bet Collins will work hard at it.

"Well, I can't quit working, so I'll just continue on doing what I'm doing" Collins said. "It's simply a matter of me being able to handle everything and stay consistent with everything. I have to make sure I don't let one area fall behind the others. As the school year progresses, school gets harder, financial issues come up and football gets tougher, so you have to make sure you keep on top of all of them. If you let one slide, if you let one bother you, it's going to affect you in terms of the other two, and then you're struggling with all three."

"And I think that's what keeps me going, actually ... having all three things going on. I don't have time to think about all that needs to get done, I just have to start working and keep working until it's finished."

## Sports



Junior forward Jarriot Rook (right) battles in a recent game at the Field House. The 10th-ranked men's basketball team has started the 2001-02 campaign at 6-1 and hosts No. 22 Illinois Wesleyan University at 3 p.m. Dec. 8.

### Women's hoops gets revenge on Fontbonne

The top-ranked women's basketball team used a 31-7 run in the first half and a 17-0 run in the second half to win its 60th consecutive game at home, a 95-65 drubbing of Fontbonne College Nov. 30 in front of 1,511 fans, moving the Bears to 5-0. After Fontbonne took an early 7-2 advantage, junior Laura Crowley spearheaded the 31-7 run with three consecutive three-pointers as the Bears took a 33-14 lead with 8:28 left in the first half. The Bears grabbed their largest lead of the half at 49-24 after sophomore Suzy Digby hit two free throws. Fontbonne cut the WU lead to 17 at 63-46 before the Bears added a 17-0 run in the next 5:35 to grab their largest lead of the game at 80-46. The Bears, whose 81-game winning streak was broken last season with a 79-68 loss at Fontbonne, shot .478 (33-69) for the game, while the Griffins shot .328 (21-64). WU dominated the boards, out-rebounding the Griffins, 54-31. Robin Lahargoue finished the game with a season-high 19 points and 11 rebounds, while Digby added 17 points and six rebounds. Crowley added 12 points and four assists.

### Men's basketball rolls to 2 home victories

The Red and Green improved to 6-1 on the year and topped the 90-point plateau for the fourth

and fifth times with home wins over Coe College (Iowa), 100-80, Nov. 30 and Wisconsin Lutheran College, 97-66, Dec. 1. Against Coe, junior Jarriot Rook scored 21 points and became the University's all-time leader in blocked shots. He blocked four to give him 154 for his career, moving him past Fred Amos for the career lead. Dustin Tylka hit seven three-pointers en route to a game-high 27 points, and Chris Jeffries had 26 points. Against Wisconsin Lutheran, five players scored in double figures as the Bears rolled to the 31-point win. The Bears ripped off a 27-5 run over eight minutes to take a 29-8 lead. Wisconsin Lutheran would get no closer than 23 points in the second half. Sophomore Barry Bryant led the Bears with a career-high 16 points, while Rook had 13 points, 10 rebounds and three blocks. Jeffries had 12 points and 10 rebounds.

### Swimming, diving goes to DePauw, Wabash

The swimming and diving team had a successful weekend Nov. 30-Dec. 1, as the swimmers competed at the DePauw University Invitational and the divers competed at the Wabash Diving Classic. The men's swimming team successfully defended its 2000 DePauw Invitational title by rounding up 852 points. On the women's side, the Bears placed second with 789 points, 16.5 behind DePauw. At the Wabash Diving Classic, Julie Heidebreuer and Ryan Braun set event records and made the NCAA cut with their first-place finishes.

### On the Internet

For more sports information, go to [bearsports.wustl.edu](http://bearsports.wustl.edu).

## Antarctica's land, mountains focus of project

By TONY FITZPATRICK

Images of Antarctica are of a forbidding continent covered with a thick sheet of ice. A group of scientists from Washington University, Pennsylvania State University and the University of Alabama (UA) are scouring Antarctica now to help determine what the land is like under that ice and the origin of the Antarctic mountains.

The project is called the

TransAntarctic Mountains SEISmic Experiment, or TAMSEIS. The researchers arrived there in the middle of November and, until the end this month, they will be installing an array of broadband seismometers in a line across the Transantarctic Mountains. The array will provide images of the structure of the Antarctic crust and the roots of the mountains.

Team members from the Department of Earth and

Planetary Sciences in Arts & Sciences are Douglas A. Wiens, Ph.D., professor of earth and planetary sciences and a veteran Antarctic researcher; computer and equipment specialist Patrick Shore, also a veteran; postdoctoral research associate Rigobert Tibi, Ph.D.; and graduate student Jesse Fisher.

Other team members include co-investigators Sridhar Anandakrishnan, Ph.D., of UA, and Andy Nyblade, Ph.D., of Penn State. Research and technical experts are Don Voigt and Bruce Long of Penn State and Tim Parker of the Program for the Array Seismic Studies of the Continental Lithosphere.

Students are Maggie Benoit, Juliette Florentin and Ted Voigt of Penn State and Yongtau Luo from UA.

Elementary school science teacher Jennifer Curtis, of Fall River, Mass., is participating thanks to the National Science Foundation's Teachers Experiencing Antarctica program.

Writer John Pollack is a team member and is providing regular dispatches from Antarctica to keep followers of the expedition abreast of the progress. To access Pollack's dispatches, photographs and more detailed descriptions of the expedition, go to [epsc.wustl.edu/admin/whatsnew/tamseis](http://epsc.wustl.edu/admin/whatsnew/tamseis).

## Worship

### Friday, Dec. 7

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

**1:10 p.m. Muslim Friday prayers.** Prayer service. Lower level, Lopata House. 920-1625.

### Thursday, Dec. 13

**Noon. Catholic Mass.** Danforth Chapel, Olin Residence Hall. 935-9191.

### Friday, Dec. 14

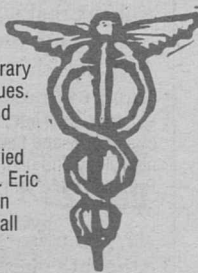
**11:15 a.m. Catholic Mass.** Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

**1:10 p.m. Muslim Friday prayers.** Prayer service. Lower level, Lopata House. 920-1625.

## And more...

### Friday, Dec. 7

**8 a.m. Continuing Medical Education seminar.** Contemporary Women's Health Issues. "Topics in Cancer and Aging." Cost: \$125, physicians; \$110, allied health professionals. Eric P. Newman Education Center. To register, call 362-6891.



### Saturday, Dec. 8

**8 a.m. Continuing Medical Education seminar.** "Cardiovascular Disease in the Older Adult." Cost: \$75 (lunch included). Eric P. Newman Education Center. To register, call 362-6891.



## Diversity

**Spending with minority- and women-owned firms up**  
— from Page 1

continued the "Business of Construction" course, which was held at the Olin School of Business from Oct. 31, 2000-Feb. 27, 2001. Twenty people completed the course taught by University professors and leaders of St. Louis' Associated General Contractors. Due to increased demand, an additional summer session was held May 1-July 31, 2001, with 11 participants.

Marks again offered the Minority Youth in Construction Summer Program, in which 35 African-American students entering ninth grade and 25 returning students participated during June and July. This year, McCarthy Construction partnered with the University to provide full sponsorship of the program for the next three years.

Beyond the realm of construction, the Olin School continued its 14-year sponsorship of the Minority Youth Entrepreneurship Program, a six-week summer session developed to expose African-American students entering their junior or senior years of high school to the world of entrepreneurship and business planning. The program, founded by three successful minority business owners and supported by the Urban League of Metropolitan St. Louis, selected 37 students this year from all area public and private high schools.

On April 23-24, the University's Office of Resource Management held the second Vendor Fair, highlighting preferred suppliers and minority suppliers.

"The fair received amazing

### Supplier Diversity Initiative executive summary

- Total spending with minority- and women-owned firms increased substantially between 2000 (\$8.6 million) and 2001 (\$22.2 million).

- 24.3 percent of the total dollars paid out on capital projects in 2001 were paid to minority- and women-owned firms. This is a 1 percent decrease from 2000.

- 19.5 percent of the total work hours expended for work-in-progress on capital projects in 2001 represented minority and female labor.

- 20 individuals completed the "Business of Construction" course held Oct. 31, 2000-Feb. 27, 2001, in the Olin School of Business. Due to increased demand, an additional summer session was held May 1-July 31, 2001, with 11 individuals participating.

- On April 23-24, the Office of Resource Management held the second Vendor Fair, highlighting preferred and minority suppliers. The fair

received tremendous support from both campuses with increased attendance over last year.

- McCarthy Construction partnered with the University to provide full sponsorship of the Minority Youth in Construction Summer Program over the next three years, renewable upon review of program outcomes. The second summer session was conducted June 16-July 27, with 35 African-American students entering ninth grade and 25 returning students participating.

- In September, the University officially adopted a five-year strategic plan outlining specific tactics to accomplish the following: sustain minority business in the St. Louis community; create viable new minority businesses in the St. Louis community; and increase minority representation in the St. Louis work force.

support from both the Hilltop and Medical campuses, with increased attendance over last year," Marks said.

Through a five-year strategic plan adopted in September, the University will continue its efforts toward supplier diversity by focusing on sustaining minority business in the St. Louis community, creating viable new minority businesses in the St. Louis community and increasing minority representation in the St. Louis work force.

When creating this plan, strategic departments representing the focus areas of the University's Supplier Diversity

Initiative provided input and assumed responsibilities for implementation, working in collaboration with the Office of Supplier Diversity.

"Moving forward, the implementation of the strategic plan will result in some exciting new opportunities for minority- and women-owned firms," Marks said. "Particular emphasis will be placed on strategic relationships with suppliers and contractors and the further development of educational programs. A new Web site is also under development to improve internal and external communications."

## Harris

**Lifelong achievements recognized by University**  
— from Page 1

the University is well on its way to becoming one of the leading institutions in the country for international law.

In the institute's mission statement, Legomsky said: "We live in a truly global age. People, goods, services, information and capital flow freely across international boundaries. From the Internet, e-mail and fax machines to travel, migration, commerce and foreign relations, the story of the new millennium will be our ever-shrinking planet. The world's problems — and the problems entrusted to lawyers — will increasingly require international cooperation and international solutions."

In the past two years, close to 30 individuals or delegations of speakers from throughout the world have made presentations at the institute. Harris was among the participants in the institute's inaugural colloquium this year on "The United Nations and the Protection of Human Rights." Harris spoke about his role as one of the prosecutors in the Nuremberg war crimes trial after World War II.

As a young naval officer proficient in German intelligence, he was selected to join the Office of Strategic Services in 1945, and later served on the prosecuting team during the trial of Nazi war criminals. He documented the experience in the 1954 publication of "Tyranny on Trial," the first comprehensive study made of the Nuremberg record.

Leila Nadya Sadat, J.D., D.E.A., professor of law and international law expert, believes the significance of Harris' work cannot be overstated.

**"This gift from Whitney to the law school will provide critical support to place the Whitney R. Harris Institute for Global Legal Studies among the top centers of its kind in the world."**

MARK S. WRIGHTON

"The entire foundation of international human rights law is built upon the legacy that the Nuremberg Charter and Judgment bequeathed to the world," Sadat said. "In addition, the current understanding that there can be no peace without bringing justice to war-torn areas and the work of the Hague tribunals in attempting to achieve this by prosecuting those who have committed war crimes, genocide and crimes against humanity is directly attributable to the principles established at Nuremberg 50 years ago."

Since Nuremberg, Harris has continued to champion the cause of international human rights. Three years ago, he served as a nongovernmental delegate to the United Nations conference in Rome. The conference resulted in a treaty calling for the establishment of a permanent international criminal court, an outcome Harris strongly endorses.

Noting the currency of his experience in today's global world, Harris believes this is an exciting period for the expansion of law, its precepts and its sanctions around the world.

"We, in America, have a once-in-history opportunity to bring world society under law," Harris said. "It is an opportunity we must seize, or we shall continue to witness vast areas of the world under autocratic rule."

A retired attorney, Harris also taught at Southern Methodist University from 1948-1954. He earned a bachelor's degree from the University of Washington in

1933 and a juris doctoris from the University of California in 1936.

He holds doctor of humane letters degrees from the University of Missouri-St. Louis and from McKendree College.

Harris is a member of the California, Texas and Missouri bars, as well as the U.S. Supreme Court bar. He also is a member of Phi Beta Kappa and the Order of the Coif. In addition to "Tyranny on Trial," Harris authored the casebooks "Family Law" (1953) and "Legal Services and Procedure" (1955).

Harris and his late wife, Jane Freund Harris, have supported Washington University in numerous ways. They established the Jane and Whitney Harris Saint Louis Community Service Award in 1999. The award, administered by the University, is presented to a husband-and-wife team chosen for their efforts to improve the St. Louis region.

In 1981, Harris donated his collection of books and documents on the Third Reich to Olin Library, beginning a valuable collection that has grown to nearly 2,500 items. The collection is housed in the Jane and Whitney Harris Reserve Reading Room in Olin Library.

In addition to these gifts, the Harrises have supported a number of departments, schools, scholarship endowments and cultural organizations on campus, as well as being Life Members of the William Greenleaf Eliot Society.

For more information regarding the Whitney R. Harris Institute for Global Legal Studies, go to law.wustl.edu/igls.

## Analyzer

**Small-scale device can be used for fire protection**  
— from Page 1

industries where air quality in the work environment must be monitored. The device also can be used for fire protection and can be so fine-tuned as to be able to detect fire and also potentially the fire's source.

A nanometer is one-billionth of a meter and invisible to the naked eye. A nanometer is one-thousandth of a micrometer; in comparison, a strand of human hair is typically 50 to 100 micrometers thick.

Chen's analyzer can measure nanoparticles as tiny as two nanometers. Its resolution is 0.2 percent — compared with 10 percent for traditional analyzers — meaning it can distinguish differences between two nanoparticles with close diameters.

For instance, particles with the sizes of 20 and 21 nanometers, which would be not distinguished by traditional analyzers, will be able to be classified in Chen's device. Moreover, Chen's analyzer, thanks to a separate charger that he also has patented (U.S. patents: 5,973,904; 6,145,391; 5,992,244), will charge a high percentage of nanoparticles.

Charged particles are essential for detecting in his device. Charging the nanoparticles allows for a higher level of detection or sensitivity.

A conventional apparatus will charge only eight particles out of a thousand, whereas Chen's device will charge 400 out of 1,000 particles in the 3-nanometer range; at a 7-nanometer range, 100 percent of nanoparticles will be charged.

"The device is not only for measuring, but it's for classifying, too," said Chen, who noted that burning materials, for example, coal and fuels, produce particles in the nanometer range. "Essentially anything in the nanoparticle size can be sized with it, and it shows great promise for a number of applications."

Chen said that his analyzer is one-third less expensive to manufacture than current ones, and that many units have been sold to industry through a Minneapolis-based company, TSI Inc.

"I've designed the instrument to be able to do as much as it possibly can," Chen said. "Fire detection is one possibility, and it's being tested now in that capacity at the National Institute of Tests and Standards. This application will provide more insight into the initiation of a fire."

## Mars

**Analyses: Red Planet water there longer than thought**  
— from Page 2

are following the topography formed by Tharsis. The argument is that during emplacement, or formation, of Tharsis approximately 4 billion years ago, volatiles from volcanoes probably created an atmosphere that would have led to a hydrogeologic cycle to help form the valley networks. This work was reported in the journal Science earlier this year.

"MOLA data are starting to put together a coherent picture of early Mars that couldn't be done or tested before," Hynek said.

The spacecraft Mars Odyssey, just recently placed in orbit around Mars, carries a high-resolution thermal emission spectrometer that will help look for water-related minerals, such as carbonates and sulfates, on the surface of the planet. If water once existed on the planet's surface, compositional data should show evidence of its ancient

presence to back up topographic evidence.

The search for definitive evidence of water represents a focus in a NASA debate over proposed landing sites for the 2003 rover mission to the planet. Hynek and Phillips are involved in the landing-site selection process for the mission.

Their recent research has involved the analysis of a top-candidate landing site that has distinctive minerals that may be indicative of extensive water. Geologic mapping of the deposit, combined with topographical and compositional analyses, has helped to constrain how and when it formed.

"It is likely that these materials formed in middle Martian history, possibly from the circulation of ground water or hydrothermal springs," Hynek said. This is additional evidence for a long-lived history of water on Mars.

Hynek noted that this unique region of Mars would almost certainly be chosen for the 2003 mission.

"The battle cry for the upcoming rover mission is, 'Follow the water,'" Hynek said.

## Campus Watch

The following incidents were reported to University Police **Nov. 26-Dec. 3**. Readers with information that could assist in investigating these incidents are urged to call **935-5555**. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at **police.wustl.edu**.

### Dec. 1

1:25 p.m. — University Police was contacted regarding a male subject that was possibly wanted for attempting to illegally sell books back to the campus bookstore. The suspect, a nonstudent, was questioned and released.

### Dec. 2

12:40 a.m. — A student and the student's guest were taken into custody for assault after they were found arguing on a South 40 walkway. The incident will be referred to the Judicial Administrator.

### Dec. 3

2:47 p.m. — A student stated that between 6 p.m. Nov. 30 and 9 a.m. Dec. 1, an unknown person removed his laptop computer from the common room of the Theta Xi fraternity house by means and manner unknown. Total loss is valued at \$2,000.

*Additionally, University Police responded to five reports of theft, three reports of vandalism and one report each of disturbing the peace and automobile accident.*



# Notables

## Introducing new faculty members

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

**Kathleen B. McDermott**, Ph.D., joins the Department of Psychology in Arts & Sciences as assistant professor. She earned a bachelor's degree from the University of Notre Dame in 1990 and a master's degree in 1994 and doctorate in 1996, both from Rice University. McDermott did postdoctoral work in the Washington University School of Medicine, conducting neuroimaging analyses of cognitive processes with Marcus E. Raichle, M.D., professor of anatomy, neurobiology, neurology and radiology, and Steven E. Petersen, Ph.D., professor of anatomy and neurobiology, neurology and neurological surgery and radiology. Her research is concerned with human memory, particularly functional imaging of memory, false memory phenomena, mental imagery, and implicit or unconscious uses of memory.

**Michelle Putnam**, Ph.D., joins the George Warren Brown School of Social Work as assistant professor, teaching students in the gerontology concentration. She earned a master's degree in gerontological studies from Miami University in Oxford, Ohio, and a doctorate in social welfare from the University of California, Los Angeles. Prior to coming to the University, Putnam was a National Institute on Disability and Rehabilitation Research postdoctoral fellow at the Rehabilitation Research and Training Center on Health and Wellness for Persons with Long-term Disabilities at Oregon Health and Sciences University in Portland. Her research is in the area of aging and disability policy with an emphasis on political identification, political coalition building and the way older adults and persons with disabilities think and feel about themselves as individuals in society. While at UCLA, Putnam was active in the Center for Policy Research on Aging. The co-author of multiple book chapters, Putnam is working on several papers stemming from her research on aging and disability.

**Anthony G. Durmowicz**, M.D., joins the School of Medicine as associate professor of pediatrics in the Division of Critical Care Medicine. His clinical and basic science research interests include altitude-related lung illnesses and the development of the pulmonary circulation and its response to injury. He earned a bachelor's degree in biology from Loyola College in Baltimore and a medical degree in the same city from the University of Maryland School of Medicine. He completed his pediatric residency and fellowships in both pediatric pulmonology and pediatric critical care at the University of Colorado. He held faculty positions at the University of Colorado and University of Utah before his appointment at Washington University.

## Of note

**David Callon**, doctoral candidate in the Department of English, and **Michael Divine**, doctoral candidate in the Department of Germanic Languages and Literatures, both in Arts & Sciences, conducted a session titled "Training Graduate Students to Use Technology to Enhance Professional Development: A Graduate School Initiative at Washington University" at the national meeting of the National Association of Graduate-Professional Students Nov. 9 in Tucson, Ariz. The session described an innovative training initiative launched by the Graduate School of Arts & Sciences and directed by **Elaine Berland**, Ph.D., associate dean of the Graduate School of Arts & Sciences, to develop skills needed as future faculty and professionals in a technology-intensive 21st-century world. Student work can be viewed at [www.artsci.wustl.edu/GSAS/GOL](http://www.artsci.wustl.edu/GSAS/GOL). ...

**Joel S. Perlmutter**, M.D., professor of neurology and neurological surgery & radiology, and associate professor of anatomy and neurobiology, has received a three-year, \$1,156,210 grant from the National Institute of Neurological Disorders and Stroke for research titled "Mechanism of Deep Brain Stimulation." ...

**Robert S. Wilkinson**, Ph.D., professor of cell biology and physiology, has received a four-year, \$1,232,334 grant from the National Institute of Neurological Disorders and Stroke for research titled "Determinants of Synaptic Strength in Muscle." ...

**Paul W. Hruz**, M.D., Ph.D., instructor in pediatrics, has received a five-year, \$541,781 grant from the National Institute of Allergy and Infectious Diseases for research titled "Mechanism of GLUT4 Inhibition by HIV Protease Inhibitor." ...

**Randy J. Larsen**, Ph.D., the Stuckenberg Professor of Human Values and Moral Development in the Department of Psychology

in Arts & Sciences, is serving as a member of the National Institutes of Health Study Section on Risk, Prevention and Health Behavior-4, Center for Scientific Review. Selection for membership is based on research accomplishments, publications and other significant scientific achievements and honors. ...

**Donna B. Jeffe**, Ph.D., research assistant professor of medicine, has received a two-year, \$154,063 grant from the National Cancer Institute for research titled "Social Support in Older Lung Cancer Patients." ...

**Kenneth Botnick**, associate professor in the School of Art, Department of Visual Communications, will be a juror for the Stiftung Buchkunst in Leipzig, Germany, in February. The Stiftung Buchkunst has come to be known as the competition of the "most beautiful books in the world." ...

**Susan E. Mackinnon**, M.D., the Sydney M. and Robert H. Schoenberg Professor of Surgery, has received a five-year, \$2,636,194 grant from the National Institute of Neurological Disorders and Stroke for research titled "Nerve Allograft transplantation for Traumatic Nerve Injury." ...

**Nancy Picker**, manager, and **Joe Moehl**, storeroom assistant, both in the Chemistry Store-room, and **Dennis Nagy**, chemical waste technician for the Hilltop Environmental Services, attended the 28th annual National Association of Scientific Materials Managers conference recently in Grand Rapids, Mich. They hosted a booth promoting the 29th annual conference that will be held in St. Louis July 29-Aug. 2. ...

**Thomas W. Ferkol Jr.**, M.D., associate professor of pediatrics, has received a four-year, \$1,078,219 grant from the National Heart, Lung, and Blood Institute for research titled "Targeted Delivery of Interleukin-10." ...

**Rosa Brefeld**, the acting director of the English as a second language program in the



**Capitol job** Senior Kendall Gladen recently performed on Capitol Hill in Washington, D.C., as part of the recognition ceremony for the Coming Up Taller Awards, sponsored by the President's Committee on the Arts and the Humanities, the National Endowment for the Arts and the National Endowment for the Humanities. Gladen, who sang "He's Got the Whole World in His Hands," is an alumna of the Opera Theatre of Saint Louis' Artists-in-Training Program, one of 10 organizations from around the country honored for their work with at-risk youth. Also participating in the program are Chris Armistead and Vera Parkin, lecturer and accompanist in the Department of Music in Arts & Sciences, respectively.

International Office, recently received the highest award for service from the MidAmerica Teachers of English as a Second Language (TESOL), a local professional organization for the states of Missouri, Kansas, Iowa and Nebraska. Brefeld was recognized for her work as one of TESOL's local co-chairs for the international organization's weeklong conference held in St. Louis in February. ...

**Louis J. Muglia**, M.D., Ph.D., assistant professor of pediatrics, molecular biology and pharmacology, and obstetrics and gynecology, has received a one-year, \$24,948 grant from the Rockefeller Brothers Fund for research titled "Genetic Analysis of Parturition Control," and a one-year, \$30,000 grant from The Lalor Foundation for research titled "The Role of Myometrial Gq Signaling in the Progression of Labor." ...

**Thalachallour Mohanakumar**, Ph.D., the Jacqueline G. and William E. Maritz Chair in Immunology and Oncology in the Department of Surgery in the School of Medicine, recently received the 2001 Fujitsawa Career Basic Science Award from the American Society of Transplantation. The award honors investigators who have made substantial contributions to the field of transplantation medicine. The award was presented during the Joint Plenary Session at the recent Transplant 2001 in Chicago. ...

**Timothy A. Graubert**, M.D., assistant professor of medicine, has received a one-year, \$402,822 grant from the National Center for Research Resources for research titled "Acquisition of a Cytomation Moflo Cell Sorter." ...

**John F. DiPersio**, M.D., Ph.D., the Lewis T. and Rosalind B. Apple Professor of Medicine and associate professor of pathology, has received a five-year, \$1,598,010 grant from the National Cancer Institute for

research titled "Genetic Manipulation of T Cells: Preclinical Models." ...

**F. Sessions Cole**, M.D., Ph.D., the Park J. White M.D. Professor of Pediatrics and professor of cell biology and physiology, has received a five-year, \$3,607,887 grant from the National Heart, Lung, and Blood Institute for research titled "Epidemiology of Surfactant Protein-B Deficiency." ...

**Dennis W. Choi**, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor of Neurology, has received a four-year, \$1,387,053 grant from the National Institute of Neurological Disorders and Stroke for research titled "Zinc Neurotoxicity." ...

## To press

**Stephen Molnar**, Ph.D., professor emeritus of anthropology in Arts & Sciences, recently completed the fifth edition of "Human Variation: Races, Types and Ethnic Groups." This book, published by Prentice Hall, examines the genetic basis and adaptive significance of human biological diversity. ...

## Speaking of

**Shirley K. Baker**, vice chancellor for information technology and dean of University Libraries, gave the keynote address at the conference "Shaping Interlibrary Loan/Document Delivery in the 21st Century" at the University of Michigan Nov. 8. ...

**André d'Avignon**, Ph.D., director of the NMR Facility in McMillen Hall, presented a poster titled "P31-NMR Spectroscopy in Hypophosphatemia: Diagnostic Urine Profile Indicating Multiple New Natural Substrates for Bone Alkaline Phosphatase" at the recent International Bone and Mineral Society in Madrid, Spain.

## Employment

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

### Hilltop Campus

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

**Research Technician** 000256

**Research Assistant** 010023

**Administrative Secretary** 010032

**Senior Medical Sciences Writer** 010108

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

**Reference/Subject Librarian (German)** 010242

**Catalog Librarian** 010290

**Custodian and Maintenance Assistant (part time)** 010349

**Reference/Subject Librarian** 010387

**Serials Librarian** 010415

**Career Center Project Leader/IS** 020039

**Administrative Assistant** 020044

**Media/Editorial Advisor (part time)** 020053

**Research Technician** 020054

**Director of Annual Giving Programs** 020064

**Senior Site Operator** 020065

**Director, International Alumni & Development Programs** 020067

**Working Supervisor (Bargaining Unit Employee)** 020072

**Accounts Payable Coordinator** 020085

**Planned Giving Officer** 020086

**Senior Prospect Researcher** 020095

**Mechanic (Bargaining Unit Employee)** 020102

**Research Assistant** 020104

**Plant Relief Engineer Maintenance Mechanic** 020116

**Registrar** 020122

**Senior Technician** 020128

**Laboratory Technician** 020133

**Library Technical Assistant (part time)** 020134

**Senior Prospect Researcher** 020135

**Lab Technician** 020137

**Programmer** 020142

**Administrative Assistant** 020143

**Shop Technician** 020145

**Private Grants Specialist** 020147

**Counselor with Expertise in Awards/Grants** 020148

**Research Assistant (part time)** 020149

**Regional Director of Development** 020151

**Lab Technician** 020152

**IRS Audit and Tax Manager** 020153

**Operations Manager** 020154

**Senior Grants Specialist** 020159

**Administrative Aide** 020160

**Student Financial Services Manager** 020162

**Legal Clinic Coordinator** 020163

**Sponsored Project Accountant** 020164

**Computer Systems Coordinator** 020165

**Head Women's Soccer Coach** 020166

**Associate Director of Parent Programs** 020167

**Executive Director Scholarship Giving** 020168

**Manager of Employer Relations** 020169

**Career Development Specialist** 020170

**Project Coordinator** 020171

**Administrative Assistant** 020172

**Medical Assistant** 020173

**Shelving Assistant** 020174

### Medical Campus

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

**Grant Assistant** 020008

**Garage Attendant (part time/weekends)** 020200

**Senior Analyst - Patient Accounts/Revenue** 020445

**Professional Rater II** 020505

**Medical Assistant II** 020516

**Medical Secretary II (part time)** 020551

**Research Technician** 020618

**Senior Research Technician** 020665

**Professional Rater I** 020666

**Secretary III** 020668

**Coordinator: Protocol** 020706

**Senior Research Administrator** 020734



## Washington People

**A**fter four years of medical school, new physicians face three to nine years of training under the guidance of specialists.

That's where James P. Keating, M.D., has found his niche.

For 32 years, Keating, the W. McKim Marriott M.D. Professor of Pediatrics in the School of Medicine, has directed the pediatric residency program, training pediatricians to care for children.

And for more than three decades, he has demanded excellence, valued teaching, nurtured collegiality and lived a life of service.

"Jim Keating represents the best in graduate medical education," said Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoehrer Professor and head of pediatrics at the medical school and pediatrician-in-chief of St. Louis Children's Hospital. "He has been program director of our pediatric residency for 32 years, during



James P. Keating, M.D. (second from left), the W. McKim Marriott M.D. Professor of Pediatrics in the School of Medicine, leads a physical examination with residents (from left) Jared Muenzer, M.D., Angela Feng, M.D., and Stephanie Hsieh, M.D.

# Training decades of pediatricians

The style and approach to clinical practice of James P. Keating, M.D., has influenced hundreds of physicians

By ANNE ENRIGHT SHEPHERD

which he has been the central mentor and educator of more than 700 pediatric residents. He has shaped the careers of hundreds upon hundreds of pediatricians throughout the United States, and he does this with enormous energy, humor, passion and creativity."

### Lifelong learner

Born in Pittsburgh during the Depression to first-generation Irish-American parents, Keating learned about service and hard work at a young age.

He grew up in the small industrial town of Braddock, Penn., on the shores of the Monongahela River. Life changed dramatically when his father was killed in an industrial accident at the Edgar Thomson steel mill, the same mill in which Keating's grandfather had died in a similar accident years earlier.

After his father's death, Keating's mother returned to teaching school to support the 11-year-old Keating, his sister and two brothers.

His ability to play high school football and get A's earned him a scholarship to Harvard College, which, he said with a chuckle, "my family thought was in New York at the time."

He quickly learned his way around the Boston area as an undergraduate and was the first-string middle linebacker and left guard for Harvard's varsity football team.

Medical school at Harvard followed, and the roots of his career began to take shape.

"During medical school, I was always opting for rotations that had me actually doing the medicine, delivering the babies and sewing people up rather than listening to the theories behind it," he said. "I was headed toward being a clinician from early on."

After a rotating internship in Seattle and pediatric residency at Boston City Hospital and the Massachusetts General Hospital, he volunteered to serve his time in the Navy in Vietnam, where he was one of three physicians in a civilian hospital in Quang Tri for more than a year. In 1968, he was recruited by Philip R. Dodge, M.D., then-chair of pediatrics at the School of Medicine, as a chief

resident on what he thought would be a one-year assignment. He stayed, becoming professor of pediatrics 10 years later.

Today, Keating still sees young patients nearly every day. He thrives on conversing with parents and working with pediatric residents to develop a diagnosis.

With satisfaction, over the years he has noted the "maturing of the teaching clinician." That is, respect not only for clinical researchers and bench scientists, but also for faculty members dedicated wholeheartedly to the care of patients and to teaching future generations of physicians.

"Watching such people be recognized at Washington University as an essential, strong part of our faculty has been a source of considerable personal pleasure," Keating said.

### The teaching clinician

Keating pulls binders off a shelf in his office and flips through photos of pediatric residents throughout the years. He fingers the pages, pondering memories of eager young residents, also known as St. Louis Children's Hospital's house staff, who have passed through the program.

From one noteworthy class of residents in 1970, most or all have gone on to senior leadership positions chairing pediatrics departments at major academic medical centers or heading divisions of infectious diseases, newborn medicine, endocrinology and other specialty areas.

"I just happen to be the person who was their program director during that time," he said modestly, attributing the accomplishments to each individual.

Although he's not quick to claim credit, his guidance was probably more than coincidental with their later success. Just ask one of his former residents.

"Physicians here in St. Louis and across the country who have gone through the residency program with Dr. Keating all acknowledge his impact on their medical education," said Michael R. DeBaun, M.D., assistant professor of pediatrics at the medical school. "Because of

Dr. Keating, we all know how to care for the patient. His style and approach to clinical practice have been a model for how to be consummate lifelong learners."

Educating residents, Keating said, includes not only quizzing them on the right lab tests or guiding them to an accurate diagnosis but also developing a person's values and character.

"It's helping them learn to take care of kids in a way that you'd feel comfortable if they were caring for your own children or someone you care about," said Keating, who speaks in part from his experience as a parent. Many years ago, Keating and wife Susan's premature infant son, Matthew, died at St. Louis Children's Hospital.

### Improving public health

In 1982, Keating took Susan and children Tom and Amy to London for a year. There, he studied how diseases spread throughout a community, earning a master's degree in epidemiology from the London School of Hygiene and Tropical Medicine.

Keating's background in public health allows him to view illness within a social context and to understand how living situations can affect health and illness in children.

In the early 1990s, Keating noticed a sharp rise in the number of infants admitted to St. Louis Children's Hospital with water intoxication, a condition in which bottle-fed infants are fed excessive amounts of water instead of formula or breast milk. The water floods brain cells, causing them to swell, and can result in life-threatening seizures and lowered body temperature.

In a study of the problem, Keating and his colleagues discovered that 3-to-6-month-olds living in poverty suffered most from the illness. The study allowed physicians nationwide to educate parents and caregivers of the dangers of excessive water intake by infants.

"Public health is wrapped up into his entire approach of how to care for the patient," said DeBaun, who also has a public health degree. "He integrates the principles of clinical epidemiol-

ogy, particularly evidence-based medicine, into the everyday teachings of house staff. He used this approach to educate residents well before it became a major component of current medical teaching. He's been teaching this way for more than three decades."

### True collaboration

Keating feels strongly about honoring the strong partnerships between hospital-based specialists and pediatricians in private practice. Developing understanding and mutual respect between these groups has been a challenge in many academic medical centers, but Keating actively fought divisiveness and now feels that the physicians at Children's Hospital exhibit an admirable degree of trust across the so-called "town-gown" line.

Almost 15 years ago, he wrote a paper called "Scapegoating," about how terminology is used to denigrate community pediatricians in research hospitals. Instead of collective terms like "privates," he advocates calling doctors by their names or "pediatrician" or "family practitioner" to avoid even an unconscious creation of a "them and us" environment.

This message has been conveyed consistently for so many years, Keating said, that some applicants to the residency program can tell the difference on the basis of a one-day visit.

"I'm very proud of the relationship St. Louis Children's Hospital and Washington University physicians have with community pediatricians," Keating said. "We encourage community pediatricians to be in charge of their patients' care even when they're in the hospital. Some other places close them out."

In 1991, Keating launched the Community Outpatient Practice Experience (COPE) program to give residents hands-on experience outside the hospital. Through COPE, each resident is paired with a practicing pediatrician in the community for one-half day each week throughout the three years of residency.

The true educator always looks for innovative opportunities to teach, and Keating is no exception.

"The one who learns the most is the one doing the teaching," Keating said.

It's a lesson he lives.

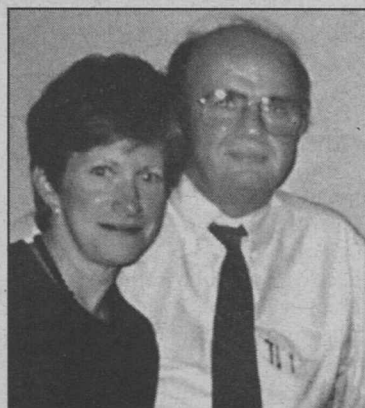
### James P. Keating, M.D.

**Born:** Pittsburgh

**Degrees:** A.B., Harvard College, 1959; M.D., Harvard Medical School, 1963; M.Sci. in epidemiology, London School of Hygiene and Tropical Medicine, 1983

**University positions:** W. McKim Marriott M.D. Professor of Pediatrics, director of the pediatric department's Division of Diagnostic Medicine, director of the pediatric residency program

**Hobbies:** Hiking, visiting state parks, bird-watching, reading history, going to the Saint Louis Symphony Orchestra



Susan and James Keating.