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# Record

Dec. 6, 2002

Volume 27 No. 14



Washington University in St. Louis

## 'Bear Cub Fund' to bolster University research

### Individual awards to be available to faculty to kindle development

By ANDY CLENDENNEN

In an effort to make University research more widely accessible to the public, a research development fund has been formed that will support faculty awards for applied studies not normally funded by the National Institutes of Health, the National Science Foundation or other grant-funding sources.

The purpose of the "Bear Cub

Fund" — in which individual awards will be made available to University faculty — is to support research or development that is designed to extend basic observations to make them more attractive for licensing by commercial entities, or to serve as the "foundation" for a startup company.

"I think our primary function with this fund is to add value to our current technologies so they will be more attractive to poten-

tial licensees," said Theodore J. Cicero, Ph.D., vice chancellor for research. "More importantly, we might actually be able to do some platform studies, which could form the basis for a startup company that would be housed in the St. Louis region and have an enormous impact on the St. Louis community."

University researchers have many basic observations or concepts that have been patented and have commercial potential, either through licensing or the formation of a startup company. But often, further studies are required to fulfill the "proof of concept" required

by most investors.

Because the University is a nonprofit institution receiving federal support, it can't fund further research to satisfy proof of concept from federal research funding. Rather, nonfederal or private sources of money are needed to make that happen.

Now, the University has a non-federal source for these efforts.

"Chancellor Mark S. Wrighton and I have been discussing this research development fund for the last three or four years, and

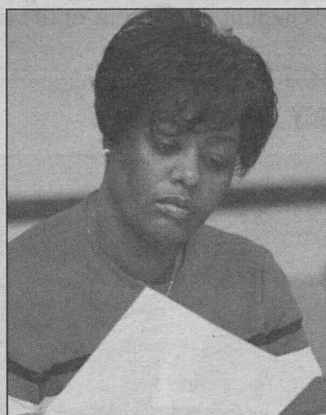
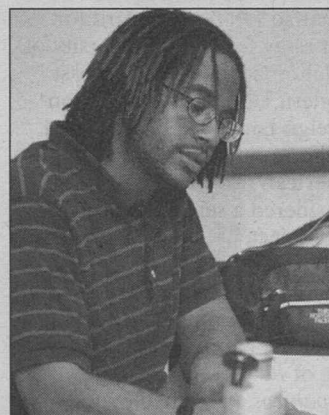
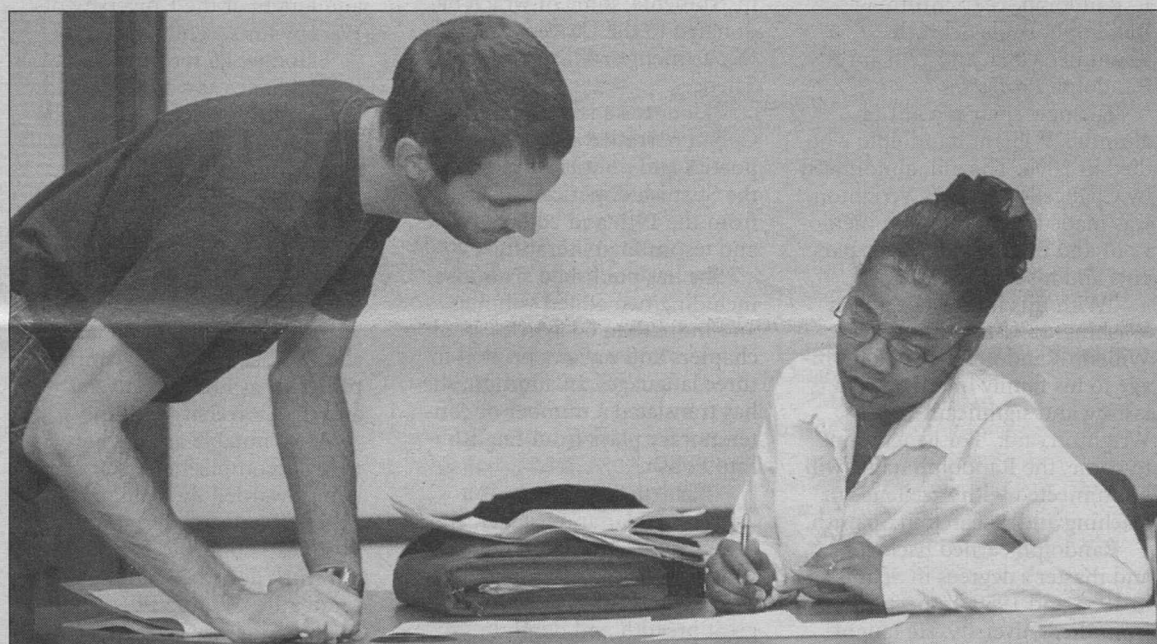


Cicero

this was the first time we've had some money available," Cicero said. "We're really hoping it will permit us to bring technology much more rapidly to the commercial sector than it is right now."

"We want to enhance the commercial appeal of our technologies either in terms of a license with a company, or potentially more exciting for us is the potential that this could form the basis for a startup company."

Individual awards of \$20,000-  
See **Bear Cub**, Page 6



University College in Arts & Sciences has seen a huge upswing in enrollment. Here, instructor Jason Mabry (top left) works with students (clockwise from top) Sherry Holmes, coordinator, student technology services; Cynthia Bowdry, administrative assistant in public affairs; Scott Bonner, technical assistant, Olin Library; and George McMurray, animal caretaker in the Department of Biology in Arts & Sciences, in their "Present Moral Problems" philosophy class in Arts & Sciences.

## University College enrollment spikes

### Tuition remission benefit sparks sharp increase

By ANDY CLENDENNEN

You can never have too much education.

And University College in Arts & Sciences is finding that out firsthand.

When a 100 percent tuition remission plan for full-time University employees taking undergraduate courses and programs went into effect this summer, most people thought the reaction would be positive.

But no one expected what has occurred: University College enrollment has jumped from about 90 undergraduate students

to more than 650 in the span of one semester — an increase of more than sevenfold.

"We were expecting to double the current participation, but we weren't expecting this significant of an increase," said Tom Lauman, director of benefits in the Office of Human Resources. "One of our objectives with this benefit enhancement was to encourage the personal development of our employees, and I think we've achieved that goal right away."

"We are very pleased with the initial level of interest."

And so are the folks at University College. Because of the

relatively small class sizes prior to the new benefits plan, the college was able to absorb most of the increased enrollment with little hassle.

In fact, only two or three areas of study needed to be substantially added to in order to accommodate all of the students.

"The only area in which we had to really increase was English composition," said Robert E. Wiltenburg, Ph.D., dean of University College. "We are now running five sections of English composition for the first time in anybody's memory. Typically,

See **U. College**, Page 6

## Is assisted reproduction linked to birth defects?

By KIMBERLY LEYDIG

Scientists from Washington and Johns Hopkins universities have discovered that in vitro fertilization (IVF) appears to be associated with a rare combination of birth defects characterized by excessive growth of various tissues.

After studying data from a national registry of patients with Beckwith-Wiedemann Syndrome (BWS), the researchers found that IVF-initiated conception was six times more common in those patients than in the general population.

The findings are slated to be published in the January issue of the *American Journal of Human Genetics*.

Children born with BWS — which may predispose them to Wilms' tumor, hepatoblastoma, neuroblastoma or other cancers —

would likely represent only a tiny fraction of babies conceived via IVF if the findings are confirmed, the researchers emphasized.

The results should stimulate further investigation — not change prospective parents' decisions — they stressed.

"At this point, we simply have a strong association between BWS and IVF," said lead author Michael R. DeBaun, M.D., assistant professor of pediatrics. "We need additional data to verify our findings, and if confirmed, to understand why there is an association."

"This analysis should not affect people's decisions about whether to have IVF, because our findings still need to be validated," added co-author Andrew Feinberg, M.D., the King Fahd Professor of Medicine at Johns

See **Defects**, Page 6



DeBaun

## Watson among 'The 50 Most Important Women in Science'

By SUSAN KILLENBERG MCGINN

Patty Jo Watson, Ph.D., the Edward Mallinckrodt Distinguished University Professor of anthropology in Arts & Sciences, has been named one of "The 50 Most Important Women in Science" by *Discover* magazine.

Featured in an article in the magazine's November issue, Watson is recognized for her path-breaking work in cave archaeology and for helping introduce the scientific method into archaeological studies.

In describing Watson's research, *Discover* Associate Editor Kathy A. Svitil wrote: "For more than 2,000 years, Native Americans forayed into the deep chambers of Kentucky's vast Mammoth Cave system. Watson

has spent four decades tracking their movements and sifting through their refuse: charred bones, and the seeds, nuts, and other bits of food in paleo-fecal material, establishing the best qualitative and quantitative data for an early agricultural complex in North America."

The selection of Watson and the 49 other "extraordinary women across all the sciences" was the result of a project *Discover* started three years ago to look into the status of women in science.

"To read their stories is to understand how important it is that the barriers facing women in science be broken down as quickly and entirely as possible," Svitil wrote in the article introducing the 50 scientists. "If just one of these women had gotten fed up

See **Watson**, Page 5



Watson



## Individual Development Account experts gather for conference

By JESSICA N. ROBERTS

Individual Development Account (IDA) experts from across the United States met at a conference, "States and IDA Policy: Knowledge-Building, Networking and Creating New Opportunities," Nov. 6-8 at the Chase Park Plaza.

On hand at this second annual meeting were key individuals in IDA policy advocacy and development, state program development, administration, fund-raising and statewide coalition-building.

The conference was organized by the Center for Social Development (CSD) at the George Warren Brown School of Social Work and the Corporation for Enterprise Development (CFED).

The goal of the meeting was to continue to develop and strengthen state-level support for IDAs by creating opportunities for building the capacity and knowledge of key state IDA policy leaders.

IDAs are high-return investment accounts that allow low-income families to save money for major expenditures — a home, college education for their children or a new business. Much as employers match deposits in employee retirement accounts, financial institutions, foundations, churches and state and local governments will match deposits that

low-income Americans make in their personal IDAs.

The Annie E. Casey, Ford, and Charles Stewart Mott foundations provided support for the conference.

This year's meeting included discussions regarding how state IDA policies relate to existing and proposed federal policies and provided opportunities for in-depth discussions on common IDA policy and program issues.

"The conference gave over 100 people from 37 states plus the District of Columbia and Puerto Rico an excellent opportunity to discuss IDA policy," said Gena Gunn, CSD project associate and co-organizer of the conference.

"This annual conference is the only one of its type offered in the world. There are a few 'how-to' IDA meetings, but there are none that offer a venue for exchange of policy information and ideas between IDA policymakers and advocates."

Karen Edwards, CSD project coordinator, served as conference co-organizer and gave presentations on statewide policy trends and implications.

Michael W. Sherraden, Ph.D., the Benjamin E. Youngdahl Professor of Social Development and CSD director, delivered the keynote address.



Elzbieta Sklodowska, Ph.D., professor of Spanish in Arts & Sciences, receives congratulations from Chancellor Mark S. Wrighton at her installation as the inaugural Raymond R. Randolph, Lee Schroth Randolph, Paula Schroth Krummenacher, and William R. Randolph Professor on Dec. 3 in Holmes Lounge in Ridgley Hall. The chair is a gift of alumnus William Randolph, who died in 2000.

## Sklodowska installed as Randolph professor

By BARBARA REA

Elzbieta Sklodowska, Ph.D., professor of Spanish in Arts & Sciences, was installed Dec. 3 as the inaugural Raymond R. Randolph, Lee Schroth Randolph, Paula Schroth Krummenacher, and William R. Randolph Professor.

The new chair is a gift of alumnus William Randolph, who died in 2000. The gift, announced by Chancellor Mark S. Wrighton, was made by Randolph in memory of and in gratitude to his parents and his aunt.

"With this important gift to Washington University, the late William Randolph has paid homage to his family members in a lasting and significant way," Wrighton said. "For generations to come, the Randolph name will be connected with excellence in teaching and research in Spanish."

Randolph earned bachelor's and master's degrees in Spanish, in 1953 and 1959, respectively, from the University. He taught Spanish at Morton West High School in Berwyn, Ill., until his

retirement in the 1980s.

Early in his teaching career, Randolph received a Fulbright Scholarship to study in Iran. He cultivated a lifelong interest in music and collected rare instruments, some of which he donated to the University's Department of Music in Arts & Sciences.

Sklodowska is an expert on Cuban narrative and culture, the poetics and politics of memory, the Spanish-American narrative from the 19th and 20th centuries, and testimonial literature.

She has published six books, including two edited volumes, and more than 60 articles, book chapters and reviews printed in three languages. In addition, she has translated a number of contemporary plays from English into Polish.

"Elzbieta Sklodowska is a superb scholar and teacher, and brings to the Department of Romance Languages and Literatures in Arts & Sciences great breadth and depth in undergraduate and graduate programs in Spanish," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences.

Her teaching ranges from undergraduate survey courses to graduate-level seminars. Currently, she directs the graduate studies program in Spanish.

In March, Sklodowska led a group of first-year students as part of a new FOCUS program on Cuba, which she created in partnership with Joseph Schraibman, Ph.D., professor of Spanish.

Her contributions to students in Spanish recently were acknowledged with a Certificate of Recognition for Excellence in Mentoring, awarded by the Graduate Student Senate.

After earning a master's

degree in Spanish from the University of Warsaw in 1979, Sklodowska came to the United States and earned a doctorate from Washington University in 1983. She returned to Poland and taught at the University of Warsaw for several years.

Sklodowska returned to the United States as a Mellon Fellow at the University of Pittsburgh and followed that with another fellowship at the National Humanities Center in North Carolina.

She joined the Washington University faculty in 1990 and became a full professor seven years later. During her tenure, she also has served as visiting professor at Emory University and the University of Illinois.

Most notable among her many accomplishments are being awarded the *habilitacj*a, a degree granted in certain European countries for substantial work done beyond the doctorate; the "Premio Plural," the Mexican literary award for best critical essay; the "Premio Discurso Literario," award for best essay from the University of Oklahoma; and the Northeast Modern Language Association Foreign Language Book Award, for her monograph on Latin American testimonial narrative, considered a seminal study on the subject.

Furthermore, she serves on the editorial boards of five scholarly journals and is the general editor for Latin American literature of *Revista de Estudios Hispánicos*, published by the Department of Romance Languages and Literatures.

William Randolph's gift is one of 115 endowed professorships established during the Campaign for Washington University.

## Weather info available from media, Web page

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.

Separate announcements will be made regarding the Hilltop Campus (includes all campuses other than the Medical Campus), evening-school classes and the Medical Campus and will apply only to Washington University students, faculty and staff.

Media outlets that air such announcements are KSDK-TV Channel 5, KMOV-TV Channel 4, KTVI-TV Channel 2, KDNL-TV Channel 30, KMOX-AM

(1120) and WSIE-FM (88.7).

Radio station KTRS-AM (550) has an off-air telephone snow-closing system. To access it, call 550-KTRS (5877) or 453-5555. You will be prompted to enter an ID number.

For the Hilltop Campus, the ID number is 1278; for evening classes, the number is 1440; and for the Medical Campus, it's 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 2-3 p.m. To check for the following day, you will need to call after 3 p.m.

## PICTURING OUR PAST



You probably won't find many pianos or statues of Venus de Milo in many dorm rooms these days. But in 1915, this room in Liggett Hall, now known as Prince Hall, had those amenities and much more. Currently, the University has 29 buildings under the jurisdiction of Residential Life. The South 40 alone has 21 buildings and offers 2,953 beds. Four buildings on The Village offer 359 more beds, while the three off-campus apartment complexes — University Drive, Greenway and Rosedale apartments — have 316 beds available. And the one on-campus apartment complex, Millbrook Apartments, made up of four buildings, offers 287 beds. Living arrangements now include recreational spaces, computer clusters, eateries and a copy center. And the occasional piano, as well.

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

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



## Record

Washington University community news

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Washington University in St. Louis



## School of Medicine Update

# Defensive block

## Scientists open door for new UTI treatments

By DARRELL E. WARD

**C**lingy bacteria often spell trouble.

University scientists have discovered how bacteria manufacture hair-like fibers used to cling to the lining of the kidneys and bladder where they cause urinary tract infections (UTIs).

The results were published in the Nov. 15 issue of the journal *Cell*.

"Our findings should lead to new drugs to treat UTIs by blocking the formation of these protein fibers," said study leader Scott J. Hultgren, Ph.D., the Helen Lehbrink Stoeber Professor of Molecular Microbiology. "They also should improve our general understanding of how disease-causing bacteria build, fold and secrete proteins that enable them to cause disease."

Hultgren and his team worked in collaboration with Gabriel Waksman, Ph.D., the Roy and Diana Vagelos Professor of Biochemistry and Molecular Biophysics, whose laboratory conducted the X-ray crystallography studies showing the structure of the molecules involved in the fiber assembly process. X-ray crystallography reveals the 3-D arrangement of atoms in proteins.

UTIs are the second-most common infectious disease in the

United States, Hultgren said. Each year they account for 100,000 hospital admissions and 8 million doctor visits.

UTIs mainly affect women, about half of whom experience at least one UTI in their lifetime and 20 percent to 40 percent of whom develop recurrent infections.

UTIs begin when bacteria gain a foothold on cells lining the kidneys or bladder and grow into colonies. They latch onto cells using tiny fibers known as pili. Similar fibers also are produced by bacteria responsible for a variety of gastric, respiratory and other infections.

The fibers are made up of identical individual pieces, or subunits, linked together like plastic snap beads.

Earlier work by Hultgren and Waksman found that as each subunit is made within a bacterium, it is joined to another molecule known as a chaperone. Chaperones are proteins found in all living cells, and — as their name implies — protect other molecules from trouble. In this case, they shield subunit proteins from interacting with one another at the wrong time and place.

The present study, however, found that the chaperones here also play a key role in fiber assembly.



Scott J. Hultgren, Ph.D. (left), discusses the role of bacteria in urinary tract infections with graduate student Fred Sauer.

The crystallographic images revealed that each subunit molecule contains a deep groove. The images further showed that an edge of the chaperone molecule fits into this groove and holds it open.

The chaperone-subunit pair then shuttles to a place at the bacterial membrane where pili are assembling. There, the chaperone slips free of the subunit and is replaced by a tail-like strand projecting from another subunit at

the base of the growing fiber.

The strand fits into the groove like a hot dog in a bun. With the chaperone no longer

holding the groove open, the edge of the "bun" snaps shut around the strand, firmly locking the two subunits together. This way, the fiber grows longer one "snap bead" at a time.

Discovering that the fibers consist of interlocking tails explains why bacterial pili are so durable and able to resist harsh conditions in the laboratory, Hultgren said.

Researchers now are working to develop a drug that will block the fiber-assembly process. Without pili to help them cling to cells, the bacteria could be swept more readily from the urinary tract and prevented from forming colonies.

"This collaboration is an example of microbiology, biochemistry and structural biology coming together in a beautiful and complementary fashion," Waksman said. "As a result, we now have a much better idea of how bacteria produce pili, and that knowledge may lead to new and better treatments for UTIs and other bacterial diseases."

## Noninvasive imaging detects plaques in vessels

By GILA Z. RECKESS

**A** new imaging method successfully identifies miniscule, young blood vessels that form during the development of plaques, according to a study in rabbits led by University researchers.

These plaques are akin to atherosclerosis in humans — the primary cause of heart attack and stroke.

"We've developed a way to take noninvasive images of very early plaques, before they're detectable by any other means," said Samuel A. Wickline, M.D., professor of medicine and of biomedical engineering and one of the study's senior authors. "This same technology, we think, will allow us to detect very early cancers and other inflammatory events as well."

Patrick M. Winter, Ph.D., research instructor of medicine and first author of the study, presented the team's results last month during the Russell Ross Memorial Lecture and New Frontiers in Atherosclerosis at the American Heart Association's Scientific Sessions 2002 in Chicago. Gregory M. Lanza, M.D., Ph.D., assistant professor of medicine and of biomedical engineering, is co-senior author. Wickline also presented an overview of molecular imaging and nanotechnology at the Molecular Basis for Cardiac Imaging session last month.

Atherosclerosis — the progressive hardening of arteries — results from the accumulation of plaques in key blood vessels. In order for plaques to form, a crowd of capillaries must develop around the diseased site.

In this study, the team used a relatively new imaging method — developed primarily at the University — to label growing capillaries, thereby identifying locations where plaques are about to form.

They loaded an extremely small particle (roughly 200 nanometers long) called a nanoparticle, with about 80,000 atoms of gadolinium that shows up as a bright spot on a magnetic

resonance image (MRI). Other carriers for gadolinium hold only a few such atoms at a time and therefore result in less-bright images.

In order to ensure that gadolinium highlighted only new capillaries, the team also packed the nanoparticle with molecules that specifically detect a protein called avb3, which is abundant in rapidly growing capillaries. In so doing, the nanoparticles mainly latched onto cells that contain avb3.

"You can load these nanoparticles with whatever you want, like a Mr. Potato Head," Wickline said. "The targeting agent allows us to select where the particle goes, and then we can either add an imaging agent, like gadolinium, or a drug, like plaque-stabilizing medications or anti-cancer agents."

The team injected nanoparticles loaded with avb3 detectors and gadolinium into 13 rabbits. Four of the rabbits had been fed normal diets and nine had been fed high-cholesterol diets for about 80 days. The team then took MRI

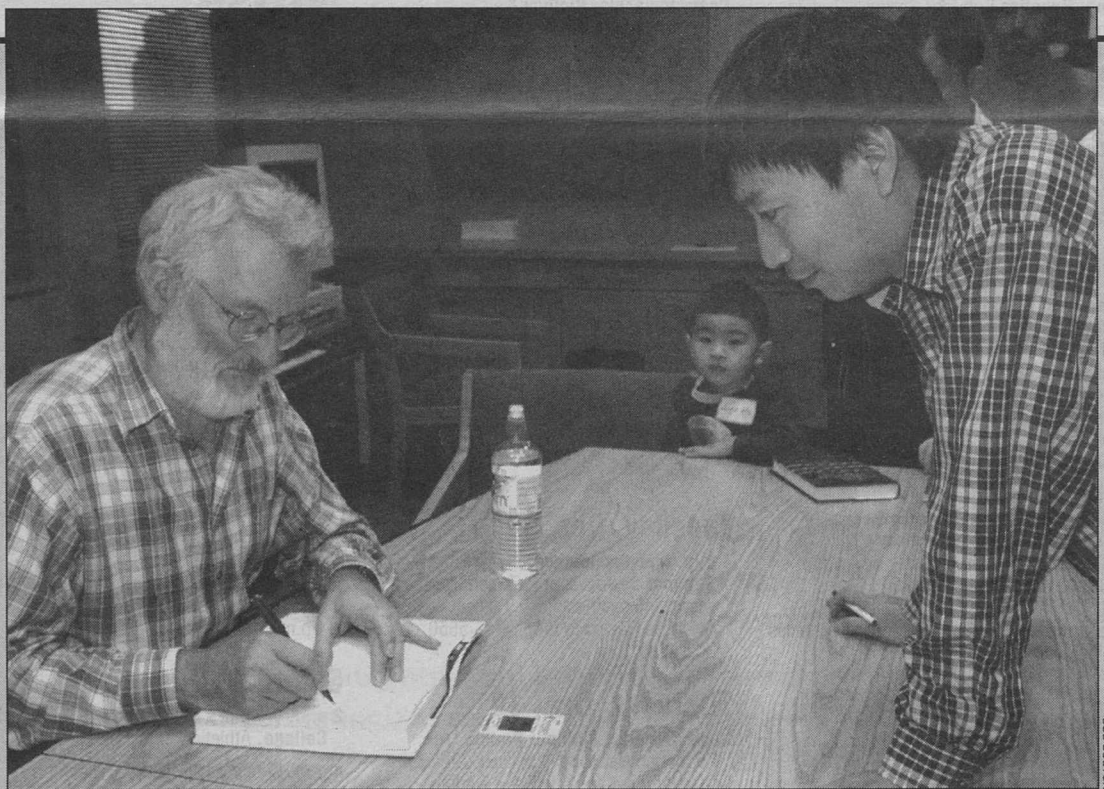
scans of the abdominal aorta, the largest artery in the body, for two hours after injection.

The cholesterol-fed rabbits injected with targeted nanoparticles had gadolinium signals in the abdominal aorta more than twice as bright as the other rabbits.

Post-mortem examination confirmed that the cholesterol-fed animals were in fact developing dangerous capillaries around the aorta, in contrast to the control-diet rabbits.

"These preliminary results suggest that we can manipulate nanoparticles to image plaques as they are just beginning to form," Wickline said. "Previous research of ours also suggests that this technique can distinguish between patients with stable plaques from those whose plaques are about to rupture and thereby cause a heart attack or stroke."

Because tumors also require new populations of capillaries, the team believes this technique will enable scientists to detect very early cancers at the beginning stages of tumor development.



**Book smart** Sir John Sulston — winner of the 2002 Nobel Prize in physiology or medicine — signs *The Common Thread: A Story of Science, Politics, Ethics and the Human Genome*, for research associate Shiao-Pyng Yang, Ph.D., at a book signing held at the Genome Sequencing Center last month. Throughout the book, Sulston prominently details his collaboration with Robert Waterson, M.D., Ph.D., director of the University's sequencing center. "I just heard the prison door shut behind us," Sulston begins the book, as he and Waterson wait on the platform of the Long Island Rail Road station after attending a symposium on the biology of the nematode worm in May 1989. From there, the book offers a behind-the-scenes look at the controversial and riveting story of the Human Genome Project.

## DiAntonio receives research-development award

By GILA Z. RECKESS

**A**aron DiAntonio, M.D., Ph.D., assistant professor of molecular biology and pharmacology, has been named one of five 2002 Keck Distinguished Young Scholars in Medical Research.

DiAntonio will receive \$1 million in research support over the next five years.

Since joining the School of Medicine in 1999, DiAntonio has been investigating the development of connections between nerve cells in the fruit fly. Having been the first to discover that a gene known as *highwire* helps determine the number of connections between nerve cells in the

fly, he now wants to explore the gene's role in vertebrate animals, starting with mice.

"The National Institutes of Health does a wonderful job supporting medical research, but it's unlikely to fund a young fruit fly investigator who wants to study mice, particularly with an ambitious project like this one," DiAntonio said. "But the Keck Award is geared toward doing just that — allowing young scientists to explore new avenues. It's a thrill and an honor to get this award, and I really appreciate the opportunity it will provide to take my research in new directions."

DiAntonio earned a bachelor's degree from Harvard College in

1988 and medical and doctoral degrees from Stanford University Medical School in 1995.

DiAntonio already has received several awards and honors in recognition of his research, including the McKnight Scholar Award and the Burroughs Welcome Career Award in the Biomedical Sciences. He is also this year's Sloan Research Fellow.

The W.M. Keck Foundation chose DiAntonio based on his "demonstrated ability to carry forward groundbreaking basic medical research, the potential for this research to make a significant impact in the field of biomedicine and (his) capacity for future academic leadership."



# University Events

## The Misty Isles of Scotland • Opera in December

"University Events" lists a portion of the activities taking place at Washington University Dec. 6-19. Visit the Web for expanded calendars for the Hilltop Campus ([www.wustl.edu/calendar](http://www.wustl.edu/calendar)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

## Exhibitions

**6-9 p.m. School of Art Sculpture Major Area exhibition.** *Take With Food.* Through Dec. 13. MOSSA Center, 1214 Washington Ave. 725-8881.

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

**Targets.** Christian Jankowski, video artist. Through Dec. 8. Gallery of Art. 935-4523.

**H.W. Janson and the Legacy of Modern Art at Washington University in St. Louis.** Exhibition from the University collection. Through Dec. 8. Gallery of Art. 925-4523.

## Lectures

### Friday, Dec. 6

**7:30-9:30 a.m. Center for the Application of Information Technology Technical Breakfast Briefing.** "The Evolution of Wireless Technologies — Standards, Security, and Successful Implementation." Paul Congdon, chief architect of HP's ProCurve Networking Business, and James Gagliarducci, network engineer, medical networking services. Open to CAIT members only. 5 N. Jackson Ave., Clayton. 935-4792.

**8 a.m. Contemporary Women's Health Issues CME seminar.** Sponsored by the Academic Women's Network. Cost: \$125 for physicians, \$110 for allied health professionals. Eric P. Newman Education Center. 362-6891.

**Noon. Cell Biology & Physiology seminar.** "The Role of Sir2 NAD-dependent Deacetylase and NAD Biosynthesis Enzymes in the Mechanism of Mammalian Aging and Longevity." Shin-ichiro Imai, asst. prof. of molecular biology & pharmacology. McDonnell Medical Sciences Bldg., Rm. 426. 362-4690.

**4 p.m. Music Lecture Series.** "The Lady Who Swung the Band": Mary Lou Williams, Jazz Style, and the "Heavenly City." Amy Bauer, asst. prof. of music. Music Classroom Bldg., Rm. 102. 935-4841.

**6 & 8:30 p.m. Travel Lecture Series.** *The Misty Isles of Scotland.* Tom Sterling. Cost: \$5. Graham Chapel. 935-5212.

**7 p.m. Gallery of Art Friday Forum lecture.** "Public Dialogues and the Work of Christian Jankowski." Lutz Koepnick, assoc. prof. of Germanic languages & literatures and of Film and Media Studies. (Reception, 6:30 p.m.) Cost: \$10. Gallery of Art. 935-4523.

### Saturday, Dec. 7

**8 a.m.-1 p.m. CME Course.** "Current Concepts in Congestive Heart Failure." Cost: \$75. Eric P. Newman Education Center. 362-6891.

### Monday, Dec. 9

**Noon. Molecular Biology & Pharmacology Research seminar.** "From Growth Cone to Synapse: Signaling Mechanisms That Control Neuronal Morphogenesis." David L. Van Vactor, assoc. prof. of cell biology, Harvard Cancer Center. South Bldg., Philip Needleman Library, Rm. 3907. 362-0183.

**4 p.m. Immunology Research Seminar Series.** "Molecular Checkpoints in the Pathway to Autoimmune Disease." Harvey Cantor, prof. of pathology and chair, dept. of cancer immunology and AIDS, Dana-Farber Cancer Inst., Harvard U. Eric P. Newman Education Center. 362-2763.

**4 p.m. Physics seminar.** "In the Node: Exploring the Gap Geometry of Unconventional Superconductors." Myron B. Salamon, prof. of physics, U. of Ill. (Coffee, 3:45 p.m.) Compton Hall, Rm. 241. 935-6276.

### Tuesday, Dec. 10

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Microbial Defense Against Reactive Nitrogen Intermediates." Carl Nathan, prof. of microbiology and immunology, Weill Medical College, Cornell U. Cori Aud., 4565 McKinley Ave. 362-2742.

**2 p.m. CME Satellite Conference.** "2002 STD Treatment Guidelines Update." U. of Mo.-St. Louis, Lucas Hall, Rm. 117, Instructional Technology Center. Registration required. 747-1522.

**4 p.m. Anesthesiology Research Unit Seminar Series.** Xiao-Ming Xia, research asst. prof. of anesthesiology. Clinical Sciences Research Bldg., Rm. 5550. 362-8560.

### Wednesday, Dec. 11

**4 p.m. Biochemistry & Molecular Biophysics seminar.** "Structure and Mechanism of Human Monoamine Oxidase B." Dale E. Edmondson, prof. of biochemistry, Emory U. Cori Aud., 4565 McKinley Ave. 362-0261.

**4 p.m. Physics colloquium.** "New Chandra X-ray Results on Clusters of Galaxies." Maxim Markevitch, Harvard-Smithsonian Center for Astrophysics, Cambridge, Mass. (Coffee, 3:30, Compton Hall, Rm. 245.) Crow Hall, Rm. 204. 935-6276.



**The art of grace and balance** Visiting choreographer Bebe Miller, founder and artistic director of the Bebe Miller Company in New York, leads a recent "Modern Dance and the African-American Legacy" class in the Dance Program in Arts & Sciences. Miller was in residence to train students in *Field Work*, her contribution to the annual Washington University Dance Theatre (WUDT) concert. Titled *The Body Poetic*, this year's WUDT features 44 student dancers performing seven professionally choreographed works at Edison Theatre Dec. 6-8. For more information, call 935-6543.

### Thursday, Dec. 12

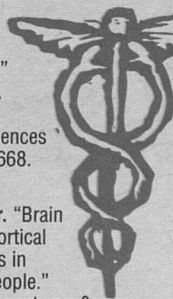
**Noon. Genetics Seminar Series.** "Protein Interactions." Stan Fields, prof. and chair of genome sciences and prof. of medicine, U. of Wash. 362-2139.

**4 p.m. Ophthalmology & Visual Sciences Seminar Series.** "Sources of Neural Regeneration in the Retina." Andy Fischer, senior fellow in biological structure, U. of Wash. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 362-1006.

### Friday, Dec. 13

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

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



### Monday, Dec. 16

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

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

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

### Tuesday, Dec. 17

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

### Thursday, Dec. 19

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

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

## On Stage

### Friday, Dec. 6

**8 p.m. Washington University Dance Theatre production.** *The Body Poetic.* Cecil Slaughter, artistic dir. (Also Dec. 7, 8 p.m., Dec. 8, 2 p.m.) Cost: \$12, \$8 for WUSTL faculty, staff and students. Edison Theatre. 935-6543.



### Friday, Dec. 13

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

## Music

### Saturday, Dec. 7

**8 p.m. Concert.** Chamber Choir of Washington U., John Stewart, dir. Graham Chapel. 935-4841.

### Tuesday, Dec. 10

**8 p.m. Concert.** Washington U. Chorus, Eric Anthony, dir. Graham Chapel. 935-4841.

### Sunday, Dec. 15

**7:30 p.m. Messiah singalong.** John Stewart, dir. of vocal activities, dir. Graham Chapel. 935-4841.

## Sports

### Friday, Dec. 6

**5:30 & 7:30 p.m. Women's Basketball WU Tip-Off Tournament.** (Also Dec. 7, 2 & 4 p.m.) Athletic Complex. 935-4705.

### Saturday, Dec. 14

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

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

## Worship

### Sunday, Dec. 8

**8 p.m. Evening Prayer.** Sponsored by Lutheran Campus Ministry. (Also Dec. 15.) Bethel Lutheran Church. Big Bend and Forsyth boulevards. 863-8140.

## And more...

### Friday, Dec. 6

**Noon. Reading and Book Signing.** *Ethical Ambition: Living a Life of Meaning and Worth.* Derrick Bell, author. Mallinckrodt Student Center, Washington U. Campus Store. 935-5580.



### Tuesday, Dec. 10

**Noon-1 p.m. Wellness Connection Brown Bag Lunch.** "Dump Your Barriers — Declare Your Independence and Shape Up!" Martha Tillman, dir., Fitness Center. Mallinckrodt Student Center, Lvl. 3, Lambert Lounge. 935-5990.



**That's a wrap** Students (from left) Josh Kowitt, Josh Isaacs and Suman Adhya wrap donated presents at a Nov. 23 gift-wrapping party for the Give Thanks Give Back campaign. The University adopted more than 75 families as part of the program, which works with the 100 Neediest Cases to support families in need during the holiday season. Before this year, no single organization in the St. Louis region had ever adopted more than 40 families in a season.

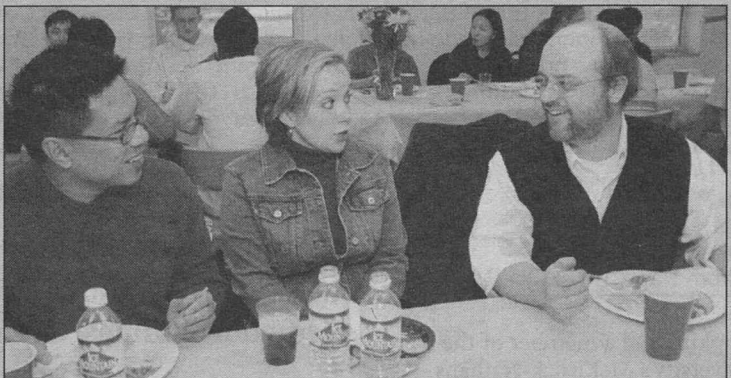




KEVIN LOWDER

## There's room at the University's table

Many students and faculty were not able to leave the University during the Thanksgiving break. But that didn't mean they went hungry. At top, Nicholas Dopuch, Ph.D. (left), the Hubert C. and Dorothy R. Moog Professor of Accounting in the Olin School of Business, serves Kazuyoshi Yoshinaga, a graduate student in the Olin School, at the school's eighth annual Thanksgiving Day celebration in the Charles F. Knight Executive Education Center. And above, Philip M. Freeman, Ph.D. (right), assistant professor of classics in Arts & Sciences, talks with RJ Holmes, residential college director in Koenig



KEVIN LOWDER

Residence Hall, and graduate student Anna Beale during a dinner hosted by Freeman in Lien House on Thanksgiving Day. More than 60 students participated. Freeman and his family are participants in the University's Faculty Family program and live in Gregg House.

## Watson

*'Almost legendary figure in the field of archaeology'*  
— from Page 1

and quit, as many do, the history of science would have been impoverished."

Watson said that while she did not experience any overt discrimination during her graduate-student and early career days, she did become aware of problems women scientists faced once she started doing sustained research in North America.

"I heard stories and observed myself the problems women had in getting supervisory and field experience," Watson said. There were a few senior male archaeologists in the United States as

recently as the 1960s who — as a matter of principle — did not take women into the field. 'Only men need apply.'

"That blatant discrimination has gone now, so far as I am aware, and there are many more women getting advanced degrees in archaeology than was the case 30 years ago and before," she added. "But, of course, because of the decades of discriminatory, androcentric and sexist nature of field archaeology in some places, most of the senior, prestigious

positions in academic archaeology are held by men. And there is still the proverbial "chilly climate" syndrome in some places — women aren't denied, but they are made in subtle ways to feel unwelcome."

Fortunately, in Watson's 40-plus-year career, she's felt only the chilly climate of deep, dark caves.

Watson, who joined the Washington University faculty in 1969, has conducted groundbreaking fieldwork on agricultural origins in both the Near East and North America. She began her career excavating prehistoric sites in Iraq, Iran and Turkey, and then shifted her primary focus to North America, where she has

icate charred plant remains from study sites. Plant evidence collected in this way has revolutionized understanding of the pattern and timing of plant domestication in many parts of the world.

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, was not surprised by *Discover's* selection of Watson.

"Pat Watson is an almost legendary figure in the field of archaeology," Macias said. "The methods she has developed have no less than revolutionized the way research is conducted in her field, and she has been honored numerous times for her contributions. She is also a splendid mentor and teacher, and Washington University has twice recognized her for her work with students."

"She does it all, and in the process, enriching and advancing her field as well as Arts & Sciences."

Watson is a member of both the American Academy

of Arts and Sciences and the National Academy of Sciences and a fellow of the American Association for the Advancement of Science.

Other recent honors for Watson include election to the prestigious American Philosophical Society, the Gold Medal for Distinguished Archaeological Achievement from the Archaeological Institute of America, the Science Award from the National Speleological Society, and the University's Arthur Holly Compton Faculty Achievement Award.

In 1995, she was one of six women scientists featured as role models in a PBS television series called *Discovering Women*.

A scholar of both Old World and New World archeology, Watson has authored or co-authored seven books and nearly 100 scientific articles and co-edited three books. She continues to study archaeological remains from caves and shell mounds in Kentucky and Tennessee.

excavated prehistoric pueblos in New Mexico and rock shelters, shell mounds and caves in Kentucky.

She is especially well known for her work with artifacts left by prehistoric people who explored and mined Salts Cave, Kentucky, a portion of the world's longest cave system in Mammoth Cave National Park.

She was among the first to develop techniques for flotation of archaeological remains to create efficient means to retrieve del-

Performing Arts Department in Arts & Sciences served as extras, and students from Film and Media Studies, also in Arts & Sciences, worked as production assistants.

*As the World Turns* is aired in St. Louis from 1-2 p.m. weekdays on KMOV-TV Channel 4.

## Sports

### Volleyball advances to 11th Final Four

The No. 2 volleyball team defeated top-ranked California State University, Hayward, in the NCAA Division III quarterfinals Nov. 23 at the Field House. With the win, the Bears (40-1) advanced to the 11th Final Four in school history. The Bears open the Final Four with No. 4 Trinity University at 4:30 p.m. today, while No. 5 Juniata College and No. 6 — and host — University of Wisconsin-Whitewater meet in the other semifinal. The losers meet in the third-place match at 4:30 p.m. Dec. 7, while the winners meet for the national title at 7 p.m. The Bears now rank second all-time in Division III with 54 NCAA Tournament wins and 11 Final Four appearances.

### Other updates

The No. 1 **men's basketball** team is off to a flying start, winning each of its five games. The first week of the season saw the Bears win the 19th Annual Lopata Classic at the Field House by beating Wesleyan University 91-63, then beating Pomona-Pitzer College 77-44 in the championship game. The wins continued in the second week, as the Bears beat the University of Dallas 91-72 on Nov. 26, then posted two wins at the Trinity University Classic in San Antonio. The Bears downed Southwestern University 70-64 Nov. 29 and held on for a 68-65 win against Trinity Nov. 30. Chris Jeffries earned all-tournament honors, Matt Tabash was named the tournament MVP and Dustin Tylka scored 10 points in the championship to become the 14th player in school history with 1,000 career points (1,003).

The **women's basketball** team also captured two tournament titles to open the season, first winning the Rockford College Tip-Off Tournament in Rockford, Ill., then taking the Second Annual McWilliams Classic at the Field House. In the first tournament, WUSTL defeated Wheaton College

### Volleyball tourney webcast by engineering school

A webcast team under the supervision of Alan Norman, Ph.D., assistant dean for information technology in the School of Engineering & Applied Science, will make the women's NCAA Division III volleyball championship available online. The first game is at 4:30 p.m. today, when the Bears face Trinity College. The start time of the Dec. 7 championship match is 7 p.m. A link to the webcast will be provided on the athletic department Web site, [bearsports.wustl.edu](http://bearsports.wustl.edu).

65-53, then took down Rockford College 80-50 in the championship game. After beating Webster University 59-40 Nov. 26, the Bears defeated the Massachusetts Institute of Technology (94-38) and Carthage College (90-49). Sophomore Hallie Hutchens and senior Jennifer Rudis were named to the All-Tournament Team.

The **men's and women's swimming and diving** team captured the 5th Annual Washington University Thanksgiving Invitational at Millstone Pool. The men's team placed first of seven teams with 1,022 points, while the women's team steamrolled the competition by placing first of six teams with 1,181 points.

A week after winning the first regional championship in school history, the No. 6 **women's cross country** team made history again. Led by junior Emily Lahowetz and senior Brooke Lane, the women's team had its highest finish ever by finishing fourth of 24 teams with 256 points at the NCAA Division Women's Cross Country Championships Nov. 30 at St. Olaf College in Northfield, Minn. Lahowetz earned all-America honors for the second straight season, as she placed 35th with a time of 22:30.4. Lane finished her career with a 42nd-place finish in a time of 22:39.2.

## Construction Update

Construction Update is published periodically and provides information about the progress of major University building and renovation projects on the Hilltop, Medical and West campuses. Information is provided to the *Record* by facilities management.

### Earth and Planetary Sciences Building

The concrete foundation and underground plumbing continue to progress. Earthwork at the perimeter of the foundation walls is continuing as backfill is placed. Structural concrete work will continue through the winter.

### Phase III Housing

Installation of the frame continues with structural steel. The joist/deck system and the load-bearing walls are complete through the second floor. The chimney steel was set Nov. 15. Work on overhead rough-ins continues in the lower level.

### 276 N. Skinker

The concrete has been poured for all three floors. This will allow mechanical, electrical and plumbing rough-ins to proceed during the next month. Also scheduled for next month is the installation of the metal stud

framing on the exterior of the building and interior metal stud partitions.

### Whitaker Hall for Biomedical Engineering

Work is in the final stages. The roof and first- and second-floor construction have been completed. Lab furniture is being installed. Slate floor finish work continues in the atrium and decorative stair. All sidewalks are complete except the south side, where work continues. The south and west paver installation continues.

### Olin Library

Level B is open to the public and the temporary offices on the north are occupied. Level A work continues with drywall, wood window walls and casework, and audiovisual rough-ins. System work continues in the penthouse.

*No large-scale University projects currently are under way at either the Medical Campus or at West Campus.*

## Soap filmed at University to air Dec. 12-13

Episodes of the soap opera *As the World Turns* featuring scenes filmed on the Hilltop Campus Sept. 27 will be broadcast Dec. 12-13 on CBS.

Two scenes were shot — one in front of Brookings Hall and another in Brookings Quadrangle. Students from the



## U. College

**Increased enrollment means additional advising**  
— from Page 1

we'd fill one-and-a-half sections, maybe.

"There were some dance course enrollments that went up, too. But there have been interesting increases in many different subjects. After English composition, math and anthropology were the two that gained the most, so really people have had interests across the board."

But while class size wasn't much of a problem, Wiltenburg said the entire University College staff encountered a hurdle to enrolling that many students.

Advising.

"The main strain on us has not been in the courses we're teaching; it's been in the advising,"

Wiltenburg said. "We scheduled six informational meetings for mid-July and mid-August, and I think we saw about 450 people in those information sessions. That's when we began to get a sense of the magnitude."

"Then, almost all of the people wanted to have individual advising sessions, so everybody was helping out. It would get to be 5 o'clock in the afternoon and somebody would pop their head in my door and say, 'We have a student, can you advise them?' So everybody from the dean on down was doing advising as needed."

Some of the increased enrollment came from people who had been taking classes at other colleges or universities and decided to stay on campus. Others had started their studies here and are continuing to do so.

But a good many are first-time students, at least in the University College sense.

"I have been thinking about taking classes for some time," said Cynthia Bowdry, an administrative assistant in the Office of Public Affairs who was once an education major, but is now planning to transfer her hours and pursue a bachelor's degree in some aspect of business.

"However, cost has always been a factor. Now, I decided to take advantage of pursuing my degree for personal satisfaction, and the cost was right."

## Bear Cub

**Potential to form basis for startup company**  
— from Page 1

\$60,000 are intended to provide support for supplies and/or salary for technical help to support short-term research projects of one year or less.

The only requirement for submission is that the technology has been previously disclosed in an invention disclosure to the Office of Technology Management.

A University review committee operating through the Office of Research will make award decisions based on scientific and business merit.

"There's a very serious limit on venture-capital groups investing in this type of research," Cicero said. "They usually want a much later stage of technology that at least shows documented proof of concept. We're talking about so-called pre-seed funds here, which are typically very difficult to secure. Hopefully, the Bear Cub Fund enables us to fund a limited number of such efforts."

"Right now, we're not getting optimal value for our technology. It's not getting out to the commercial sector as rapidly as it should."

Faculty members interested in an application form for the awards should go online to [ctm.wustl.edu/bearcub](http://ctm.wustl.edu/bearcub) or call 747-0920.

"I must say, I am more focused than I was as a traditional college student (averaging a B in philosophy)."

Everyone will be watching the numbers over the next couple of semesters to see if this huge increase is an anomaly, or if it's a sign of things to come.

After all, according to Wiltenburg, there are thousands of employees who could greatly benefit from this new program.

"One of the things we're going to be watching closely is how the pattern develops," he said. "We don't know, for example, if the 500 we saw was an enormous surge that will never be repeated as people try out this new benefit, or is it just the beginning of an even larger group."

"One of the things that came to light was how many Washington University employees could potentially benefit from this. We have, as I understand it, about 10,000 employees, and 3,300 of those do not have a bachelor's degree. Two thousand of them have some college but no bachelor's, and what that says to me is potentially there is a large number of people that could benefit from this."

And another benefit might be on the way soon for those wishing to take some classes with a more short-term goal in mind.

University College is trying to hammer out plans to incorporate an associate's degree into its curriculum, hopefully by next fall, according to Wiltenburg.

"Harvard and Penn do it, largely as an accommodation for employees," Wiltenburg said. "We wouldn't be recruiting people for associate's degrees, but for people who are working with us, it would give a milestone to work toward as they work on their longer program."

For now, though, both University College and human resources are trying to recover from the swell of interest in the tuition remission policy.

"You don't know if this is just an initial reaction to a new benefit change and whether it will decrease and level off," Lauman said. "But at the same time, we expect to see a number of new employees who will take advantage of this opportunity for continuing education."

"All signs indicate that our employee-tuition enrollments are definitely heading upward. Isn't this a great benefit for the employees and for the University?"



**Chorus for a cause** Senior Stephanie Cusworth (left), director of the Greenleaves, leads the female a cappella group during a performance at the St. Louis Coffee House and Silent Art Auction recently in Holmes Lounge in Ridgley Hall. The event featured St. Louis poets, artists and musicians who are homeless or at risk of becoming so. Also featured were performances by a jazz band and an open mic. Students to End Poverty, STONE Soup and Student Union sponsored the event. Proceeds benefited the homeless newspaper *Whats Up St. Louis* and St. Louis Effort for AIDS.

## Defects

— from Page 1

Hopkins and a member of the university's McKusick-Nathans Institute for Genetic Medicine. "What is learned might improve the health of all children."

BWS occurs in about one in 15,000 births. Currently, IVF is not thought to result in birth defects at a higher rate than natural conception, according to the Society for Assisted Reproductive Technology.

DeBaun started the Beckwith-Wiedemann Syndrome Registry in 1994 as part of an effort with Feinberg to find links between altered genes and different versions of BWS.

Prior to June 2001, four of the 279 BWS patients in the registry were known to be conceived by IVF. Suspecting an association, DeBaun began collecting details about conception methods for new patients entering the registry. Subsequently, three of 65 BWS patients added to the registry were conceived through IVF.

In the United States, roughly 0.8 percent of births are due to assisted reproductive technology, including IVF. But the incidence

"At this point, we simply have a strong association between BWS and IVF. We need additional data to verify our findings, and if confirmed, to understand why there is an association."

MICHAEL R. DEBAUN

is 4.6 percent among BWS patients who have been entered into the registry since June 2001.

The researchers note that they did not specifically recruit parents who had used IVF in order to have a baby, but they can't exclude the possibility that these parents may have been more likely to participate.

BWS and other syndromes characterized by excessive growth are frequently due to so-called epigenetic changes — alterations to the gene other than to the DNA sequence itself.

BWS is often caused by abnormal "imprinting" — biochemical marks on DNA that tell the cell whether the gene copy came from the father or mother. For imprinted genes, the cell uses only the copy from a particular parent (the

mother or the father, depending on the gene) to make proteins.

If imprinting marks are lost, the cell may make proteins using both copies or neither, causing abnormal growth, such as in BWS or cancer.

Abnormal imprinting of two genes, LIT1 and H19, normally accounts for about half of BWS cases. At least five of the seven known registry patients conceived through IVF had such changes.

While the association still needs to be confirmed, the researchers suggest that some aspect of culture conditions or the method of combining the sperm and egg could possibly affect the epigenetics of embryos, based on reports of others' experience with animals.

## Escort shuttle service expanded Dec. 9-19

The Department of Transportation and Parking Services once again will be running additional escort shuttle services during reading week and finals week to facilitate transportation for students. The extended hours will be from 6 p.m.-4 a.m. Dec. 9-19.

The escort shuttle service is

provided at no cost to members of the University community who need to get from one place to another on the Hilltop and West campuses. To access this point-to-point shuttle service, call 935-7777 and a van will be dispatched to your location and take you to your destination.

## Campus Watch

The following incidents were reported to University Police **Nov. 21-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](http://police.wustl.edu).

### Nov. 22

10:49 a.m. — A student reported that cash and her ATM/debit card were stolen from her room in Park House. Total loss is estimated at \$69.

### Nov. 24

6:05 p.m. — A large window on the northeast side of Bixby Hall was shattered by unknown means. There was no sign of any thrown object. WUSTL maintenance was notified.

### Nov. 25

8:40 p.m. — A student reported that he parked and secured his vehicle on the second level of Wohl Parking Garage. Upon his

return, he discovered an unknown person had stolen his vehicle. Total loss is estimated at \$1,750.

### Dec. 2

1:55 p.m. — A student reported that between 1:45-1:55 p.m., an unknown person took her wallet from her purse, which was hanging from a coat rack in an open public area of the Psychology Building. No suspects or witnesses were located. Total loss is estimated at \$559.

Additionally, University Police responded to four reports of larceny, three reports of property damage and one report each of disturbance, tampering and fire.

## Employment

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

### Hilltop Campus

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

Senior Medical Sciences Writer 010108

Lab Technician — Part Time 020234

General Lab Asst. — Part Time 020237

Assoc. Dir., Corporate Relations 020365

Career Dev. Specialist — Grad Students 020381

Physical Therapist 030064

Accounts Receivable Service Rep. 030070

Registered Nurse 030079

Data Entry Processor 030081

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

Director of Corporate Relations 030084

Health Services Physician 030099

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

Accounting Systems Data Coord. 030109

Business Development Coord. 030110

Shuttle Driver 030111

Career Development Specialist 030114

Government Publications/Reference Librarian 030116

Asst. Dir. Donor Relations for Stewardship 030117

Communications & Events Coord. 030122

Coord., Regional Visits 030132

Zone Manager 030137

Admissions Counselor 030138

Asst. Accountant II 030139

Research Technician 030141

Research Technician 030143

Deputized Police Officer 030144

Admissions Counselor 030145

Security Officer 030146

Billing Service Rep. 030148

Admissions Counselor 030149

Department Secretary 030151

Switchboard Operator (Weekends 10 a.m. to 4 p.m.) 030152

Switchboard Operator (Weeknights 6 p.m. to 10 p.m.) 030153

Lab Technician 030154

### Medical Campus

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

Secretary III 030529

Research Patient Asst. 030640

Executive Secretary 030705

Medical Secretary I 030707

Financial Operations Manager 030709

Exec. Dir., Psychiatry Dept. 030713

Patient Service Rep. II 030718

Financial Operations Manager 030726

Insurance Billing & Collections Asst. II 030735

Secretary III 030783

Secretary II 030823

Animal Care Technician I 030824

Medical Records Clerk 030825

Professional Rater I 030826

System Support Technician II 030827

Medical Records Clerk 030831

Programmer Analyst II 030853

Administrative Coord. 030856

Research Assoc. 030857

Coord.: Medical Coding 030861



# Notables

## Of note

**Rebecca J. DeRoo**, Ph.D., assistant professor of art history in Arts & Sciences, co-authored two Hampton and Social Science and Humanities Research Council grants, totaling \$80,000, which she used to co-organize two international conferences that brought together world-renowned scholars researching art after the Second World War: "Reconstruction, Consumption, Contestation: Art and Critical Debates in France 1945-1972," held in Vancouver, British Columbia; and "Transatlantic Exchanges: Art and Critical Debates in France and the United States 1945-1972," held in Paris. ...

**Osami Kanagawa**, M.D., Ph.D., associate professor of pathology and immunology, has received a one-year, \$200,000 grant from the Juvenile Diabetes Research Foundation International for research titled "Regulation of Type 1 Diabetes Development." ...

**Michael S. Diamond**, M.D., Ph.D., assistant professor of medicine, has received a one-year, \$65,000 grant from the Edward Mallinckrodt Jr. Foundation for research titled "Study of the Pathogenesis of West Nile Virus Encephalitis." ...

**Bradley L. Schlaggar**, M.D., Ph.D., instructor in neurology, has received a three-year, \$100,000 grant from the Dana Clinical Hypotheses Program in Imaging for research titled "The Development of Cognitive Function in Tourette Syndrome: fMRI Studies." ...

**Daniel P. Schuster**, M.D., professor of medicine, has received a three-year, \$258,740 grant from the Cystic Fibrosis Foundation for research titled "Quantification of Pulmonary Neutrophil Activity in CF Using Radiolabeled Fluoro-deoxyglucose and PET Imaging." ...

**Jeffrey H. Miner**, Ph.D., associate professor of medicine, has received a three-year, \$240,000 grant from the March of Dimes Birth Defects Foundation for research titled "Structure-Function Analysis of Laminin G Domains." ...

**Steven L. Brody**, M.D., assistant professor of medicine, has received a one-year, \$50,000 Career Investigator Award from the American Lung Association Research Committee. ...

**Edwin B. Fisher**, Ph.D., professor of psychology in Arts & Sciences, has received a one-year, \$631,937 grant from The Robert Wood Johnson Foundation for "Programs, Community Support for Diabetes and Diabetes Self-Management." ...

**Mark C. Johnson**, M.D., assistant professor of pediatrics, has received a one-year, \$62,600 grant from the Cystic Fibrosis Foundation for research titled "Activity, Energy Expenditure and Malnutrition in Cystic Fibrosis." ...

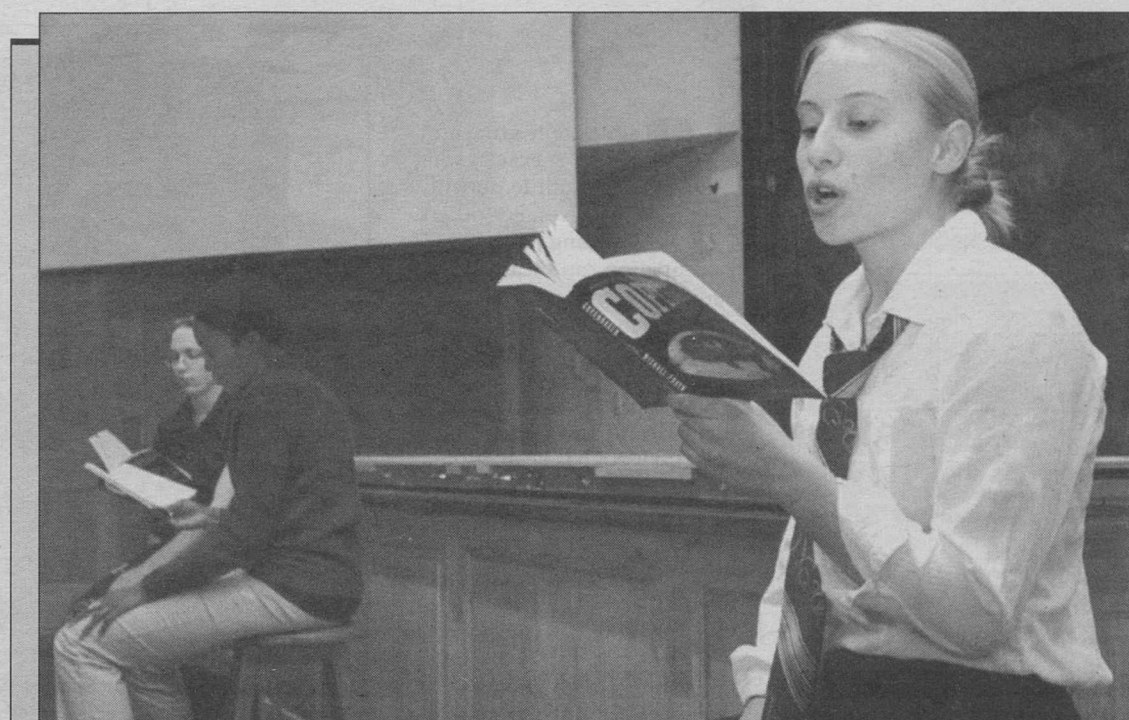
**David M. Ornitz**, M.D., Ph.D., professor of molecular biology and pharmacology, has received a three-year, \$271,854 grant from the March of Dimes Birth Defects Foundation for research titled "Regulation of Lung Development by Fibroblast Growth Factor 9." ...

**Aguan Wei**, Ph.D., research assistant professor of neurobiology, has received a two-year, \$220,002 grant from the National Science Foundation for research titled "Control of Cellular Excitability by KCNQ-Like Potassium Channels in *C. Elegans*." ...

**Ling-Gang Wu**, Ph.D., assistant professor of anesthesiology, has received a three-year, \$353,991 grant from the National Science Foundation for research titled "Regulation of the Kinetics of Vesicle Endocytosis in a Central Synapse." ...

**Jack D. Bui**, M.D., Ph.D., clinical fellow of pathology and immunology, has received a three-year, \$130,500 grant from the Cancer Research Institute for research titled "The Role of Natural Killer Cells in Tumor Surveillance and Rejection." ...

**Rebecca L. Aft**, M.D., Ph.D., assistant professor of surgery, has received a one-year, \$25,000 grant from the Association of Women Surgeons Foundation Ethicon-Endosurgery Fellowship for research titled "Evaluation of



**The awesome 110 players** Students in Clifford M. Will's Physics 110, "Awesome Ideas in Physics," a course for non-science majors, recently put on a staged reading of *Copenhagen* in Crow Hall, Room 201. The Tony Award-winning drama examines a 1941 meeting between physicists Werner Heisenberg (right, played by Alessandra Larson) and Niels Bohr (center, played by Petrice Gaskin) — old friends and colleagues who found themselves on opposite sides in World War II. Heisenberg, a leader of the German atomic bomb project, had traveled to see Bohr, his former mentor and fellow atomic pioneer, at Bohr's home in Nazi-occupied Denmark. Though the exact nature of their conversation remains unclear, by all accounts it included discussion of the atomic bomb project. Because Bohr and Heisenberg were central figures in the development of quantum physics, Will, Ph.D., professor of physics in Arts & Sciences, thought the *Copenhagen* reading would provide his students with an interesting introduction to the study of quantum mechanics. Margaret Bauer (left) portrays Bohr's wife, Margrethe.

2-Deoxy-D Glucose as a Sensitizer to Radiation and Chemotherapy in a Mouse Breast Cancer Tumor Model." ...

**Katherine N. Weilbaecher**, M.D., assistant professor of medicine, has received a one-year, \$65,000 grant from the Edward Mallinckrodt Jr. Foundation for research titled "Mechanisms of Signal Integration by Microphthalmia Transcription Factor in Osteoclasts." ...

**Mark A. Mintun**, M.D., professor of radiology, has received a two-year, \$306,166 grant from the National Institute on Drug Abuse for research titled "Nicotine-Induced Dopamine Changes in Addicted Smokers." ...

**Brad A. Racette**, M.D., assistant professor of neurology, has

received a five-year, \$810,990 grant from the National Institute of Neurological Disorders and Stroke for research titled "Genetics of Parkinson's Disease in the Amish." ...

**L. David Sibley**, Ph.D., associate professor of molecular microbiology, has received a one-year, \$410,398 grant from the National Center for Research Resources for research titled "Confocal Microscope for Microbiology." ...

**Louis J. Muglia**, M.D., associate professor of pediatrics, has received a one-year, \$306,334 grant from the National Institute of Allergy and Infectious Diseases for research titled "Glucocorticoid Receptor Function in Thymocytes." ...

**Phyllis I. Hanson**, M.D., Ph.D., assistant professor of cell biology and physiology, has received a one-year, \$95,554 grant from the Dystonia Medical Research Foundation for research titled "Functional Analysis of Torsin A." ...

**Jeff W. Lichtman**, M.D., Ph.D., professor of anatomy and neurobiology, and **Joshua R. Sanes**, Ph.D., the Alumni Endowed Professor of Neurobiology in the School of Medicine, have received a three-year, \$590,198 grant from the James S. McDonnell Foundation for research titled "Neuronal Ethology: Watching Neurons in Their Natural Setting." ...

**Jonathan M. Green**, M.D., assistant professor of medicine, has received a two-year, \$459,250 grant from the National Institute of Allergy and Infectious Diseases for research titled "How CD2 and CD28 Determine the Susceptibility to *P. Carinii*." ...

**Matthew B. Dobbs**, M.D., assistant professor of orthopaedic surgery, has received a one-year, \$46,124 grant from Ronald McDonald House Charities for research titled "Long Term Follow-up of Surgically Treated Clubfoot." ...

**Janice E. Brunstrom**, M.D., assistant professor of neurology, has received a one-year, \$50,000 grant from the Child Neurology Foundation for research titled "Effect of Levodopa on Motor Function in Cerebral Palsy." ...

**Anne L. Glowinski**, M.D., assistant professor of psychiatry, has received a five-year, \$775,765 grant from the National Institute

of Mental Health for research titled "Familial Transmission of Youth Suicidal Behavior." ...

**Carol S. North**, M.D., professor of psychiatry, has received a one-year, \$205,605 grant from the National Institute of Mental Health for research titled "Mental Health Consequences of Bioterrorism." ...

**Jie Zheng**, Ph.D., research assistant professor of radiology, has received a two-year, \$121,000 grant from the American Heart Association for research titled "Myocardial Flow Reserve Measurement by Magnetic Resonance Imaging: A BOLD Approach." ...

**Mehmet E. Dokucu**, M.D., Ph.D., postdoctoral fellow, has received a one-year, \$15,000 Young Investigator Award from the National Alliance for Research on Schizophrenia and Depression. ...

**Colin G. Nichols**, Ph.D., professor of cell biology and physiology, has received a four-year, \$612,000 grant from the National Heart, Lung, and Blood Institute for research titled "Metabolism-excitation Coupling in the Heart." ...

**Yvette I. Sheline**, M.D., associate professor of psychiatry, has received a five-year, \$546,279 grant from the National Center for Research Resources for research titled "Neuroimaging in Depression Treatment Studies." ...

**Mark P. Goldberg**, M.D., associate professor of neurology, has received a one-year, \$500,000 grant from the National Center for Research Resources for research titled "Multi-Photon/Confocal Microscope for Brain Injury Study." ...

**Jueren Lou**, M.D., Ph.D., research assistant professor of orthopaedic surgery, has received a three-year, \$231,000 grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases for research titled "Bone Repair by Allogenic MSC on Non-Ablated Animal." ...

**Craig M. Coopersmith**, M.D., assistant professor of surgery, has received a four-year, \$998,911 grant from the National Institute of General Medical Sciences for research titled "Gut Epithelial Apoptosis in Shock and Sepsis."

## Campus Authors

Jonathan I. Katz, Ph.D., professor of physics in Arts & Sciences

### *The Biggest Bang: The Mystery of Gamma-Ray Bursts, the Most Violent Explosions in the Universe*

(Oxford University Press, 2002)

After 30 years of studying gamma-ray bursts, Jonathan Katz decided it was time to write a book about them.

After all, the time was right, said Katz, Ph.D., professor of physics in Arts & Sciences.

"The subject of gamma-ray bursts had come to a natural climax, which consisted of what in the book I call the 'Holy Grail' — the discovery of visible light from a gamma-ray burst as it was happening," Katz said.

"In addition, the most important satellite that was studying them, called the Gamma Ray Observatory, was de-orbited in June 2000.

"The hardest problem had been solved, the great discovery had been made, and there wasn't going to be anything happening for a while because the chief source of information was dumped in the

ocean, which meant it was really the right time to write about this."

Gamma-ray bursts are some of the most impressive occurrences in the universe. They put out energy about 10 times that of the brightest supernovae, and at their peak, gamma-ray bursts are

the brightest objects in space — about 100,000 times brighter than an entire galaxy.

But the problem in studying them is two-fold. First, they are very rare. And second, their peak lasts less than a minute.

"Studying gamma-ray bursts is an extremely difficult thing to do because

there are a couple per day in the universe, and they are very unpredictable, so you don't know where to point your telescope," Katz said. "The tricky problem isn't detecting them; they are very easy to detect. The tricky problem is finding out where they are in a hurry because they are very transient events, they last tens of seconds typically, sometimes less."

In *The Biggest Bang*, Katz discusses just about everything about gamma-ray bursts, from their accidental discovery in 1960s (by a satellite designed to detect nuclear explosions in space) to the improvement in techniques and strategies over the years.

But most importantly, he isn't writing for his fellow scientists and astronomers. Rather, he's writing for everyday people.

"This is something of interest, I think, to laymen who have some interest in astronomy, or physics, or even cosmology, so all of these come together," Katz said. "It's a book for laymen. If you open it up you'll see that there isn't an equation in the book, and that's by design."

"There's a proverb in the popular-science business that each equation you put in cuts your readership in half, so clearly you don't want to do that even once."

— Andy Clendennen



Katz



## Washington People

**M**any people grow up knowing exactly what they want to do with their lives. For others, deciding on the perfect occupation can mean choosing among several passions.

Fortunately for Laurie Reitman, her career allows her to live both of her passions every day.

Reitman, M.D., director of the Student Health and Counseling Service (SHCS), has been at the University for 10 years. Prior to that, she was a full-time emergency room doctor at Missouri Baptist Medical Center.

She loved her job, but she knew something was missing.

"I was always interested in business as well as medicine, and I struggled deciding which path to pursue," Reitman says. "So I decided to go into medicine, and I really enjoyed what I was doing."

"But after a period of time working in the emergency room, I knew I wanted to do something more and I wanted to somehow combine my interest in business with my interest in medicine. I was looking for a position that



Laurie Reitman, M.D., director of the Student Health and Counseling Service, talks in her office with Mike Schwartzwald, a senior in Arts & Sciences and president of the Emergency Response Team (EST). Reitman serves as medical director for EST, a volunteer student organization that is first responder to illnesses and injuries on the Hilltop Campus.

# Ensuring students' well-being

Former emergency room physician Laurie Reitman now directs the Student Health and Counseling Service

BY NEIL SCHOENHERR

would allow me to utilize skills in both areas.

"That's when I decided to come to Washington University."

Reitman earned a master of business administration degree from the Olin School of Business in 1995 and is relishing being able to combine her love of medicine and her love of the business world.

"Dr. Laurie Reitman is a superb physician, a creative and skilled administrator and a nationally recognized leader in the field of college health," says Karen Levin Coburn, assistant vice chancellor for students and dean of the freshman transition. "We are fortunate that she has chosen to use her multiple talents and creative energy on behalf of the health and well-being of our students."

Reitman's duties vary greatly. She runs a staff of more than 40 medical and mental-health professionals, develops projects, implements new policies and procedures and performs marketing,

recruitment and promotions for the office.

She also regularly advises doctors, nurses and counselors on special cases, provides emergency support and has sat on several national subcommittees, including the American College Health Association Committee for Continuing Medical Education.

Reitman says the best part of her job is working with students.

"I think working with people at this stage in their lives is very rewarding," she says. "There is so much opportunity to really make a difference."

"I don't get the chance to practice as much clinical medicine as before. So that leaves me with time to not only be involved with the business side of the office but also to work individually with the students on serious concerns."

Part of working with students includes her responsibilities as medical director for the Emergency Support Team (EST).

"EST is a volunteer student organization that is the first responder to illness and injury on the Hilltop Campus," Reitman says. "Most of the students get their EMT license, and all of them are certified in CPR and standard first-aid. They contribute a significant number of on-duty hours each week to provide this emergency service to our community."

The team consists of around 40 students from various academic majors. A three-person team responds to cases of sudden illness or injury on the Hilltop Campus, 24 hours a day, seven days a week throughout the school year.

"I love working with EST," Reitman says. "It allows me to get to know many of the students during their time on the team, and I keep in touch with many of them after they graduate. It's very rewarding to watch them grow and mature during their time at the University and beyond."

In addition to her administra-

tive duties and working with EST, Reitman has taken on the responsibility of being an adviser for undergraduate Arts & Sciences students.

"I really enjoy advising," Reitman

**"Dr. Laurie Reitman is a superb physician, a creative and skilled administrator and a nationally recognized leader in the field of college health. We are fortunate that she has chosen to use her multiple talents and creative energy on behalf of the health and well-being of our students."**

KAREN LEVIN COBURN

says. "It sheds a whole new light on the work that I do. It's an opportunity to work with students on a different level and understand their experience here in a different way. It's one more way I can be involved in their lives."

Reitman grew up in the St. Louis area and graduated from the six-year medical school program at the University of Missouri-Kansas City. She completed her residency at St. Mary's Health Center with a specialty in internal medicine.

Reitman is married to Steve Hadzima, vice president and chief medical officer of Christian Hospital, and has two children — 12-year-old Alyssa and 6-year-old Linzie. Reitman lists her hobbies as reading, Pilates and traveling.

But when she is at the University, her main area of interest is the welfare of students.

"Our office really focuses on putting together projects that will better serve the student population," she says.

One example of that is the merger of the Student Health Service and the Student Counseling Service five years ago.

"It didn't seem to make sense for a student to be seeing a counselor in one office and a psychiatrist in another office, and the two never spoke to each other," Reitman says. "Now when students come to our office, there is a merged mental-health record. Students now enjoy more comprehensive, coordinated care."

Another recently introduced

improvement to the office is a partnership with MDhub, an Internet message center that makes it faster and easier for students to get a prescription refilled, obtain test results or request an appointment.

SHCS began using MDhub in January, and Reitman says it has been a big help.

When students use MDhub to request a prescription renewal,

lab-test results or to schedule an appointment, the request comes to SHCS via fax. The fax is picked up, put with the student's chart, and given to the appropriate nurse.

That nurse makes the response, clicks on MDhub, and the service gets back to the student.

"It's been very successful," Reitman says. "The students who have signed up enjoy it, it's easier on them and it's more convenient for our staff."

Reitman is constantly searching for ways to improve SHCS, and her staff appreciates her hard work and dedication.

"Dr. Reitman and I have worked together for the last two years here at the University and for nearly five years in the emergency room at Missouri Baptist Medical Center prior to that," says Deb Harp, SHCS associate director. "I have enjoyed working with her in both settings and hold high regards for her as a physician and the director of SHCS. The University is truly fortunate to have her as the director of SHCS."

Reitman says that more than anything, she loves working with the people at the University.

"I really enjoy my colleagues and the administration, and of course the students," she says. "The people are really what keeps me here."

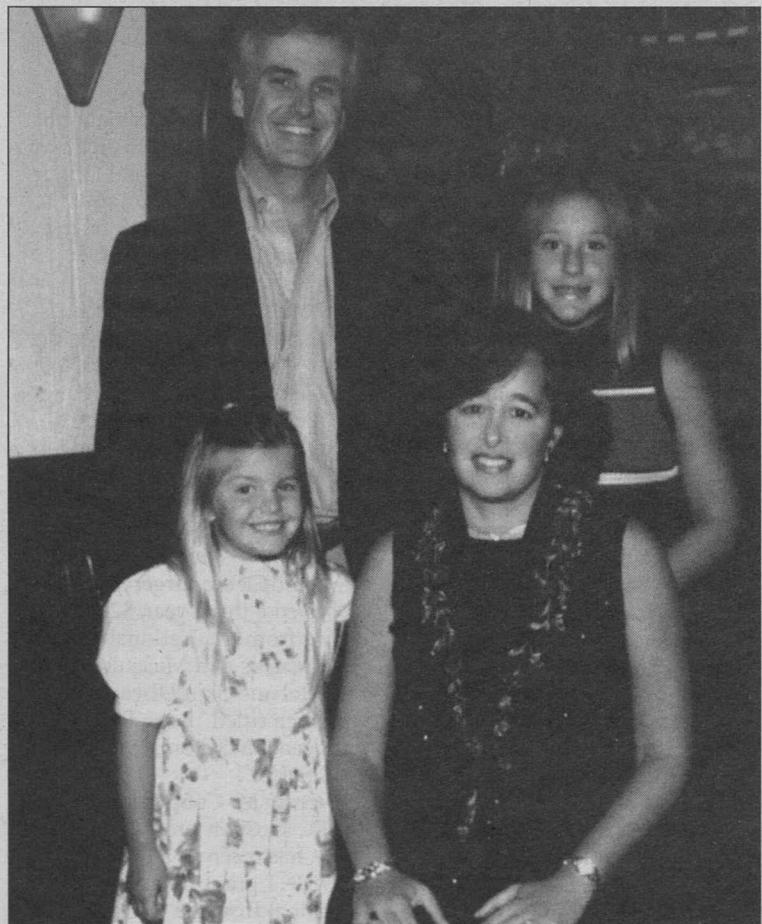
### Laurie Reitman, M.D.

**Title:** Director of the Student Health and Counseling Service

**Years at the University:** 10

**Hobbies:** Reading, Pilates and travel

**Favorite part of her job:** Working with University students, faculty and staff



Laurie Reitman at home with her husband, Steve Hadzima, and their children, 6-year-old Linzie (left) and 12-year-old Alyssa.