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## Washington University Record, October 4, 2002

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# Record

Oct. 4, 2002

Volume 27 No. 6



## Washington University in St. Louis

### Is celecoxib a safer alternative for preventing pre-term labor?

BY GILA Z. RECKESS

The drug celecoxib may be a safer alternative for treating pre-term labor than traditional therapies, according to a preliminary study led by School of Medicine researchers.

One of the established treatments to prevent pre-term delivery is indomethacin, a drug used to slow uterine contractions and delay delivery. But indomethacin is associated with severe side effects.

Recent research suggests that celecoxib, also known as celebrex, may be a safer alternative. The study, which was published in a late September issue of the *American Journal of Obstetrics and Gynecology*, is the first clinical trial testing celecoxib in pregnant women.

"Celecoxib appears to be safer, particularly for the fetus," said Yoel Sadovsky, M.D., director of the Division of Genetics, Maternal-Fetal Medicine and Ultrasound in the medical school. "These preliminary results also suggest that celecoxib is just as effective, and we are currently planning a larger trial to further

examine its effectiveness."

The study is a combined effort between Washington and Northwestern universities. Sadovsky, also associate professor of obstetrics and gynecology and of cell biology and physiology, led the study.

The first authors are Gilad A. Gross, M.D., assistant professor of obstetrics and gynecology at Washington University, and Catherine S. Stika, M.D., at Northwestern.

According to the American College of Obstetrics and Gynecology, about one in every 10 births in the United States occurs within the first 37 weeks of pregnancy and therefore is considered "pre-term." Pre-term labor is responsible for about 75 percent of newborn deaths not related to birth defects, and pre-term infants often experience lifelong complications.

Indomethacin, one of the standard drugs used to treat pre-term labor, prevents the production of a type of protein called cyclo-oxygenase (COX), which is thought to play a critical role in the onset of pre-term labor.

See **Celecoxib**, Page 6



Sadovsky



Elinor Nelson, grants specialist in sponsored projects accounting, helps children try on new shoes at Payless Shoe Source. From left are Ralph Jones, 9; Terrell Shannon, 11; Richard Jones, 9; and Javonte Burrow, 10. The children are from Hope House, a homeless shelter in Wellston, Mo.

### Happy feet, happy kids

#### Shoes for less-fortunate children aim of staff member's program

BY ANDY CLENDENNEN

You can see it first in their eyes. Then, as the smiles gradually cross their small faces, you think that, yes, this is indeed a good thing.

Elinor Nelson sees those reactions quite often.

Nelson, a grants specialist in sponsored projects accounting, has started a nonprofit organization called 2000 Feet Inc. The goal is to put brand-new shoes on as many underprivileged children in the St. Louis area as possible.

"From the time I can remember being a young teenager, I've always had a heart to reach out and help other people," said Nelson, who has been part of the University community for 23 years. "I wanted to someday have my own charitable organization to fulfill the needs of so many

**2000 Feet Inc.**

For more information about 2000 Feet, visit [www.2000feet.org](http://www.2000feet.org); e-mail [pray4kids2day@aol.com](mailto:pray4kids2day@aol.com); or write to 2000 Feet Inc., Attention Jennifer Duncombe, P.O. Box 1121, Ballwin, MO 63022.

less-fortunate children in the community?"

So for Nelson, shoes seemed like the perfect solution.

She drew her final inspiration while volunteering with a group from her church at a camp for less-fortunate children. From there, she formulated her plan.

"I observed that many of the children that came to the camp did not have adequate footwear to participate in the hiking events and the other activities that were

available," Nelson said. "It just made me stop and realize — shoes are something that are easily accessible. It doesn't take a lot of shopping or hassles to get them. And me, I love shoes."

"It's so important for a parent to make sure they change the sizes, take their children on a regular basis to get fitted, so they won't develop foot diseases and other foot disabilities due to improper footwear. So I decided that shoes would be a great benefit to so many families, because I see so many children in schools who need just a simple pair of nice shoes."

But it's not simply buying the shoes and giving them to the children. What makes Nelson's program unique is that she actually meets the kids in the shoe stores, and the kids are allowed to pick

See **Shoes**, Page 6

### 48 retirees honored at annual luncheon for years of service

BY ANDY CLENDENNEN

Quick, name the past six chancellors of the University.

Jean Gaines can. And not only can she name them, she knew them all personally.

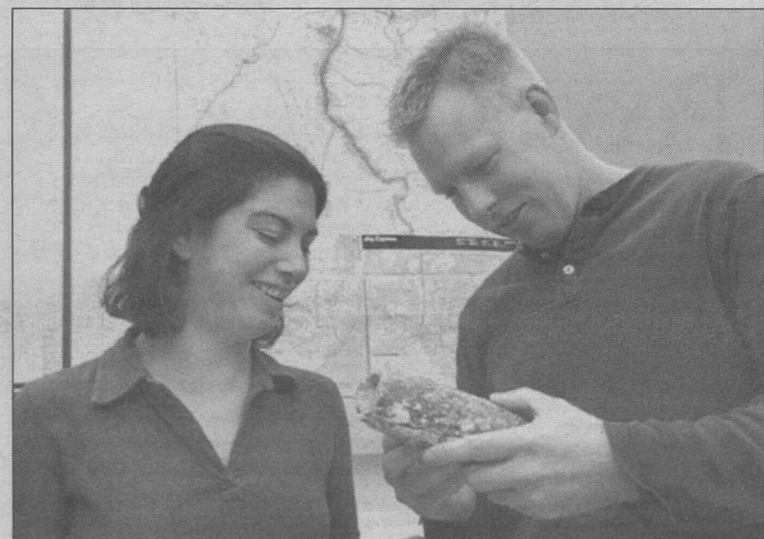
Gaines recently retired from the University after 55 years of service under, in order, Nobel laureate Arthur Holly Compton, Ethan A.H. Shepley, Carl Tolman, Thomas Eliot, William H. Danforth and current Chancellor Mark S. Wrighton.

Gaines was one of 48 recent retirees recognized in a luncheon hosted by Wrighton Sept. 26 at Whittemore House.

From 1946-1998, Gaines worked in the Office of the Registrar, now called Student Records, where she was promoted from secretary to administrative assistant to associate registrar. In 1998, she joined public affairs as director of commencement.

"Jean Gaines was the ultimate Washington University employee,"

See **Retirement**, Page 6



Jennifer Smith, Ph.D., and Josh Smith, Ph.D., assistant professors of earth and planetary sciences in Arts & Sciences, examine the hollowed-out bone of a large predatory dinosaur found in Egypt. In 2000, the Smiths led an expedition to the Bahariya Oasis in the Sahara, where they discovered remains of a new genus of dinosaur. A&E will air a two-hour documentary on the expedition at 8 p.m. Oct. 8.

### Book, documentary chronicle dinosaur discovery quest

BY TONY FITZPATRICK

It's not unusual that a movie follows the publication of a popular book. But Josh Smith, Ph.D., assistant professor of earth and planetary sciences in Arts & Sciences, finds himself in an enviable and rare position.

*The Lost Dinosaurs of Egypt*, a book about his remarkable research expedition — which included the discovery of a new genus of dinosaur — hit bookstores the week of Sept. 16 with an initial printing of 100,000. The "movie" follows at 8 p.m. Oct. 8, when cable television network A&E will show a two-hour documentary of the book's contents.

"The whole thing has been a blur of excitement and unbelievable coincidence," Smith said.

Both he and his wife, Jennifer

**Tuning in**

At 8 p.m. Oct. 8, cable television network A&E will air a two-hour documentary on the remarkable research expedition of Josh and Jennifer Smith and their team of collaborators.

Smith, Ph.D., joined the University Sept. 1. Josh Smith is co-author of the book along with William Nothdurft, who has nearly a dozen books to his credit.

Both the book and documentary chronicle an expedition that the Smiths and 12 other researchers made to Egypt's Bahariya Oasis in the Sahara in 2000. They were retracing the steps of noted German researcher Ernst Stromer, who, in 1911, discovered four new species of dinosaurs,

including the predator *Spinosaurus*, similar in features to the famed *Tyrannosaurus rex*.

Stromer returned to Munich with the fossils, maps and details of his discovery, but all was lost in 1944 when the Allies bombed out the museum where the materials were held.

Josh Smith and fellow University of Pennsylvania geology graduate student Matt Lamanna hatched a scheme to see if they could come up with a doctoral project for Lamanna, who has an encyclopedic knowledge of dinosaurs and dinosaur expeditions.

Lamanna knew that nobody was working in the area that Stromer had found so rich earlier in the century, and the two tried to find a way to get to Egypt.

See **Dinosaurs**, Page 6

## Calvert named Eagleton University professor

BY GERRY EVERDING

Randall L. Calvert, Ph.D., professor of political science in Arts & Sciences, will be named the Thomas F. Eagleton University Professor of Public Affairs & Political Science, announced Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences.

Calvert will be formally installed in a Feb. 18 ceremony.

Calvert, a specialist in American politics and positive political theory, joined the faculty in Arts & Sciences as a professor of political science in October 1999. He also taught here as assistant professor from 1979-1985 and as associate professor from 1985-87.

In 1984-85, he was a postdoctoral fellow in political economy at Carnegie-Mellon University, and he spent 1990-91 as a fellow of the Center for Advanced Study in the Behavioral Sciences.

"A superb scholar with an international reputation, Randy Calvert is an exceptional teacher as well," Macias said. "He brings to Arts & Sciences a truly interdisciplinary approach to the study of politics, and through his work he will add great distinction to this important professorship."

Before returning to Washington University, he was the Don Alonzo Watson Professor of Political Science at the University of Rochester, serving as department chair there from 1991-96.

Calvert earned a bachelor's degree in mathematical analysis in the social sciences from the University of Kentucky in 1975 and a doctorate in social science from the California Institute of Technology in 1980.

Calvert is the author of the 1986 monograph *Models of Imperfect Information in Politics*. His articles on American legislative and electoral politics and on

positive theory are published in a variety of leading journals, including *The American Political Science Review* and *The American Journal of Political Science*.

Over the past decade, his research has concentrated on game-theoretic general models of leadership and social institutions. His current research and teaching focus is on processes of political communication and argument and on American constitutional politics.

Calvert recently chaired the American Political Science Association's Organized Section on Political Economy, and he served on the section's council from 1994-96. He also served on the National Science Foundation's (NSF) Advisory Panel for Political Science and on NSF's Graduate

Fellowship Program evaluation panel.

He is co-editor of the interdisciplinary journal *Economics & Politics* and the Cambridge University Press series on "The Political Economy of Institutions and Decisions."

He serves on the editorial boards of the *British Journal of Political Science*, *Legislative Studies Quarterly* and the *Journal of Theoretical Politics*. He has held similar board roles for the *American Journal of Political Science* and the *Journal of Politics*.

The Thomas F. Eagleton University Professorship in Public Affairs & Political Science was established in 1985 to celebrate the long years of service that Eagleton provided to the people of Missouri upon his coming home to the area and to a faculty position at the University. The inaugural holder of the chair, Eagleton held the professorship until he was named professor emeritus in 2001.



Calvert



**Khinduka professorship** Shanti K. Khinduka, Ph.D. (left), dean of the George Warren Brown School of Social Work and the George Warren Brown Distinguished University Professor, and Chancellor Mark S. Wrighton (right) congratulate Luis H. Zayas, Ph.D., on his installation as the inaugural Shanti K. Khinduka Distinguished Professor of Social Work during a Sept. 19 ceremony in Brown Hall, Room 100. An anonymous donor established the professorship.

## Justice conference Oct. 9 to feature Scheck, Becker

BY JESSICA N. ROBERTS

The School of Law's Clinical Education and Trial and Advocacy programs will host the third annual "Access to Equal Justice Conference: Creating Collaborations Between the University and the Community to Improve Access to Justice in Our Region" Oct. 9 in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

The Criminal Law Society, the American Civil Liberties Union and the Pro Bono Jurists law student groups are assisting with the conference.

The goal of the conference is to provide a forum for University faculty and students, lawyers, judges, community leaders and government officials to collaborate on improving access to justice and the delivery of legal services in our region.

The conference begins at



Scheck



Becker

9 a.m. with a showing of the documentary *First Monday 2002: Civil Liberties in a New America*. The film features David Cole, a Georgetown University law professor; Roger Wilkins, a Pulitzer Prize-winning journalist and George Mason University history professor; and Howard Zinn, a historian, playwright and author.

Barry C. Scheck, professor of law and director of the Clinical Legal Education & Jacob Burns Center for the Study of Law and Ethics at Yeshiva University's Cardozo School of Law, will speak at 11 a.m. on "Wrongful Convictions: Causes and Remedies."

Scheck is co-founder and co-director of the Cardozo Innocence Project and a member of the National Institute of Justice Commission on the Future of DNA Evidence. In addition to the work he has done through the Cardozo Innocence Project, which has represented more than three dozen men exonerated through post-conviction DNA testing, Scheck has represented defendants such as Hedda Nussbaum, O.J. Simpson, Louise Woodward and Abner Louima.

Mary E. Becker, professor at

Barry Scheck is co-founder and co-director of the Cardozo Innocence Project and a member of the National Institute of Justice Commission on the Future of DNA Evidence.

DePaul University College of Law, will speak at 2 p.m. on "Law and the Emotions of Battered Women." She is a co-founder of the Illinois Clemency Project for Battered Women and co-author of *Cases and Materials on Feminist Jurisprudence: Taking Women Seriously*.

Scheck's and Becker's talks are open to the public. However, registration for the conference is required to obtain materials, attend panels and participate in lunch meetings.

Attendance will be limited to the first 150 registrants. There is no fee for registration.

To register, e-mail Kate France at [kjfrance@wulaw.wustl.edu](mailto:kjfrance@wulaw.wustl.edu) or call 935-6419; or, to view the complete conference agenda and register, visit [law.wustl.edu/whatsnew/confsandevents/tokarz/access\\_conf.html](http://law.wustl.edu/whatsnew/confsandevents/tokarz/access_conf.html).

The conference provides six hours of Mandatory Continuing Legal Education credit, including three hours of ethics hours.

## PICTURING OUR PAST



From Hendrix to Hoobastank, from the Mamas and Papas to Papa Roach, students (such as the three above in 1968) have used Olin Library as a place to meet friends, listen to music, check out movies and, yes, even study. Olin Library is the main library on the Hilltop Campus, but others in various schools bring the total count to 14 different libraries. Olin Library currently is undergoing a massive renovation that will add 17,000 square feet, a cyber café and a 24-hour study center, among other improvements. The renovation started in May 2001 and is expected to take three years to complete.



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

An unstoppable drive

# African-American blood-donation program funded by grant

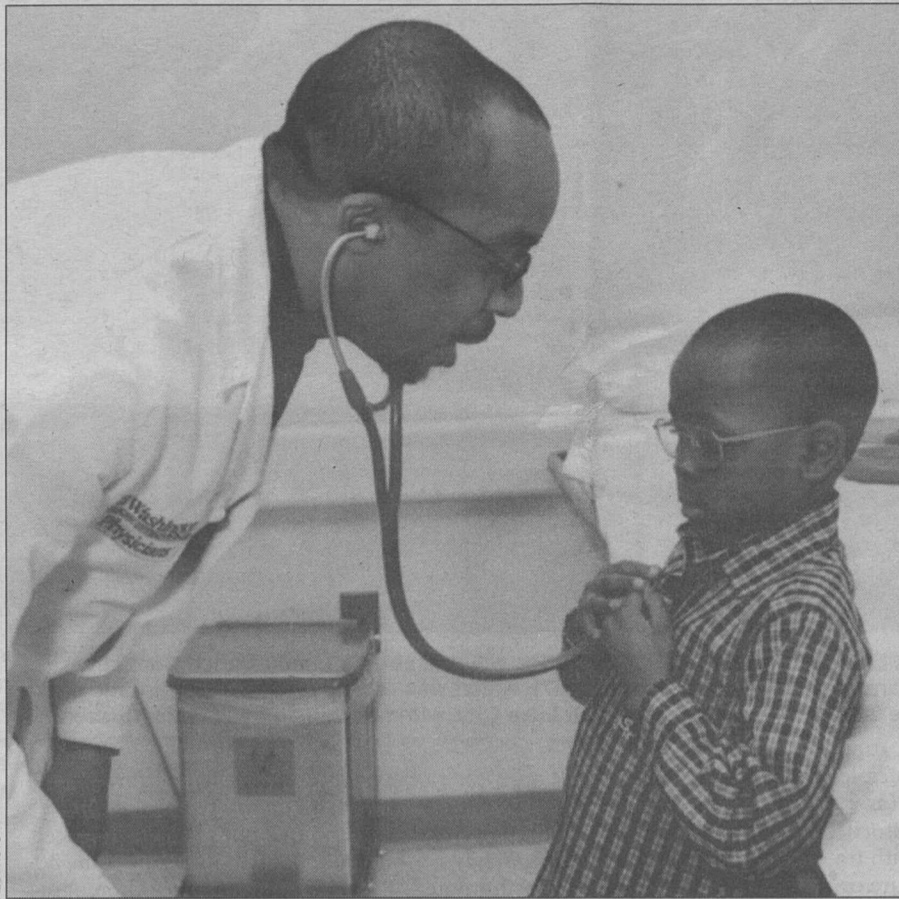
By Kimberly Leydig

**M**ichael DeBaun, M.D., assistant professor of pediatrics in the School of Medicine, has long been devoted to decreasing the health-care disparity in underserved populations.

DeBaun first saw his efforts come to fruition in the summer of 1999 when he and the leadership of the American Red Cross Missouri/Illinois Region established the Charles Drew Community Blood Donor Program that honors the distinguished African-American scientist who pioneered the field of blood plasma preservation and storage.

Medical school researchers recently received a five-year, \$987,440 grant from the National Institutes of Health (NIH) to expand the Charles Drew Community Blood Donor Program to all three children's hospitals in Missouri. DeBaun is the principal investigator of the grant, which is a joint effort with Saint Louis University/Cardinal Glennon Hospital and the University of Missouri-Kansas City/Mercy Children's Hospital.

The impact of the initial Charles Drew campaign in St. Louis has been stunning. In the early 1990s, African-Americans donated only 1,200 units of blood annually. Now — thanks solely to the Charles Drew Community Blood Donor Program — approximately 9,000 units of blood from African-Americans are collected annually.



Sickle cell patient Greg Williams helps Michael DeBaun, M.D., find his heart rate. Greg is one of the many children who benefit from the Charles Drew Community Blood Donor Program.

The NIH grant will allow University researchers to expand the successful local blood-donor program statewide.

"We predict that the number of African-American blood donors in Missouri will increase by 300 percent over the next three

years," DeBaun said.

Sickle cell disease, an inherited disorder of the red blood cells, is the most common genetic disorder in African-Americans. The disease affects about one in 300 African-American infants.

In children with sickle cell dis-

ease, stroke is the most feared complication. About one-third of these children will develop either an overt stroke or silent stroke before completing high school. Children with strokes require frequent blood transfusions — sometimes 15-25 per year — to prevent additional strokes.

The ability to provide ongoing blood-transfusion therapy is vitally important for children with strokes and sickle cell disease.

Because of the frequent requirement for blood transfusions and the increased incidence of African-Americans developing proteins that will reject blood, DeBaun sought out ways to increase the number of African-American blood donors.

"Children with sickle cell disease who are predominantly African-American often have subtle differences in red blood cell proteins that make it more likely that the best-matched donor will come from someone with a similar ethnic background," DeBaun said.

The grant also highlights the potential benefits of cord-blood (or stem-cell) donations for children and adults with sickle cell disease. DeBaun says traditional health-care barriers and misperceptions in educating African-American women about the importance of cord-blood donations has prevented this group from being informed about the importance of donating cord blood.

The St. Louis Cord Blood Bank at Saint Louis University/

Cardinal Glennon Hospital collects, processes and stores donated cord blood for the purpose of stem-cell transplant for children with life-threatening diseases. Stem-cell transplant is an alternative to bone-marrow transplant and offers a chance of a cure for many children with cancer. It also carries a promise of a cure for children with sickle cell disease.

In 2000, only 34 African-American cord-blood donations were collected from 6,800 births in St. Louis. African-Americans comprise approximately 12 percent of those births, but only 2 percent of the total cord blood banked to date is from minorities.

DeBaun believes the lack of formal education programs for the African-American community and paucity of partnerships within the community has resulted in embarrassing low cord-blood donations from African-Americans.

Last spring, DeBaun's team conducted a survey that polled nearly 150 African-American women in north St. Louis. DeBaun reports that approximately 90 percent of the polled women said that they would definitely or probably donate their cord blood if they were aware that it could help save a life of a child.

Through the grant's community awareness program and educational efforts, DeBaun predicts that at least 10 percent of African-American births in the St. Louis region will result in cord-blood donations in the future.

The grant also will allow DeBaun's team to expand programs such as Sickle Cell Sabbath, a faith-based outreach program that encourages African-American churches to educate and increase awareness about sickle cell disease.

"We believe our strategies used for expanding both blood and cord-blood donations in the African-American community will improve the quality of life for children and adults with sickle cell disease, not only at St. Louis Children's Hospital but for all affected individuals with sickle cell disease in Missouri," DeBaun said.

## After stroke, right side of brain learns language skills

By Gila Z. Reckess

**W**hen a stroke affects the language areas in the left side of the brain, the right side takes over and learns how to perform language tasks, according to research in the School of Medicine.

The study, which appears in the Sept. 26 issue of *Neuron*, found that the right side of the brain is more active than normal during a verbal language task, and that the right side's activity decreases with practice, similar to what happens on the left side of the brain in healthy individuals.

"This is the first demonstration that learning and, by extension, speech therapy change the way compensatory pathways in the brain work," said Maurizio Corbetta, M.D., head of stroke and brain injury rehabilitation. "This study supports the hypothesis that brain pathways in the right hemisphere are directly involved in the recovery of language after stroke."

Corbetta, the study's senior author, also is an associate professor of neurology, of radiology and of anatomy and neurobiology. The first author is Valeria Blasi, M.D., a former post-doctoral fellow in neurology in the medical school now at the San Raffaele Scientific Institute in Milan, Italy.

Each year, about 750,000 Americans suffer a loss of blood flow to the brain, a condition known as an ischemic stroke.

Since the left side of the brain houses most of the areas respon-

sible for speech and language, a left-sided stroke often causes language problems, a condition known as aphasia. About 1 million people in the United States have aphasia, resulting in an estimated \$1.5 billion of lost productivity and other costs each year.

Remarkably, many of those who initially lose language abilities after a stroke significantly recover these abilities within six to 12 months. Several studies suggest that language recovery occurs because the right hemisphere of the brain compensates for the loss of the left hemisphere.

To test whether there is a direct link between recovered language abilities and activity in the right hemisphere, Corbetta's team compared performance scores and brain images from 14 healthy individuals with those of eight stroke patients.

The patients all had experienced a stroke at least six months before participating in the study and still had damage near a brain region called Broca's area, which is located toward the front of the brain and thought to be involved in speech.

The team first measured the two groups' performance during a word-stem completion task. Participants saw three letters at a time and were asked to say a word that began with those three letters. Each word stem appeared several times during the experiment.

The patient group was slower and less accurate, but both groups learned and improved at the same rate. Each group was about 400 milliseconds faster on the seventh block of trials than on the first. Participants in each group also repeated the same answer for a given word stem about 20 percent of the time, a sign that they remembered the word and learned the answer.

Participants then performed the same task while undergoing functional magnetic resonance imaging. These images identify which brain regions are active during a given task.

Because the task becomes familiar, the brain does not have to work as hard. With practice, brain activity normally decreases in areas that are important for performing the task.

In this study, as healthy participants' performance improved, language areas on the left side of the brain, including Broca's area, became less active. In addition, areas toward the back of the brain that are involved in vision became less active in both the left and right hemispheres.

Brain images from stroke patients revealed several differences.

Language areas damaged by the stroke were not active during the language task. However, areas on the right side of the brain opposite the damaged areas on the left became active, and that activity decreased with practice. Visual areas on the right side also decreased with practice.

Patients with smaller lesions had slightly different patterns of brain activity.

In addition to learning-related changes on the right side of the brain, the areas near the lesion on the left side also improved with practice. These patients were better at learning the task and ultimately recovered more than the other stroke patients.

According to Corbetta, these results indicate that a stroke produces complex changes in the way both sides of the brain perform during language tasks.

"This information has direct implications for optimizing rehabilitation and pharmacological treatment after stroke," he said.



**Pinkie prognosis** Matthew J. Matava, M.D., assistant professor of orthopaedic surgery, answers questions from reporters at a news conference held by the School of Medicine after University physicians performed surgery on St. Louis Rams quarterback Kurt Warner's little finger. The Oct. 1 procedure, performed by Richard H. Gelberman, M.D., the Fred C. Reynolds Professor of Orthopaedic Surgery and head of that department, stabilized a fracture on Warner's throwing hand. "The surgery went well, and we anticipate that with rehabilitation he will recover function over eight to 10 weeks," said Matava, the Rams' head team physician.

## Depression study needs volunteers

**R**esearchers in the Department of Psychiatry in the School of Medicine are looking for the genes that contribute to depression. To find them, the team is looking for people from families

in which at least two siblings have been depressed. Study volunteers will need to provide a detailed family history and a blood sample for DNA analysis. For more information call, 286-1345.

### On the Web

Need continuing medical education?

American Medical Association category 1 credit is available at CME-Online.wustl.edu

# University Events

## Limón Dance Company comes to Edison Oct. 11-13

BY LIAM OTTEN

**J**ose Limón (1908-1972) was the first male "star" of American modern dance, a striking, charismatic performer and a powerful yet elegantly theatrical choreographer.

This month, Dance St. Louis and the Edison Theatre OVATIONS! Series will present a rare St. Louis concert by New York's Limón Dance Company, which performs classic works from its founder's repertoire as well as new dances commissioned by many of today's finest talents.

Performances begin at 8 p.m. Oct. 11-12 and at 2 p.m. Oct. 13.

Born in Culiacan, Mexico, Limón grew up in Arizona and Los Angeles and planned to become a painter, even studying art for a year at University of California, Los Angeles. He attended his first modern dance concert after moving to New York in 1928 and soon came under the tutelage of choreographers Doris Humphrey and Charles Weidman, whose works he performed throughout the 1930s.

At the same time, he also began to create his own dances, even choreographing and performing in several Broadway musicals, and in 1946, after a stint in the U.S. Army, he formed the Limón Dance Company with Humphrey as artistic director.

Over the next quarter-century, Limón created dozens of athletic, physically demanding works that



Dance St. Louis and the Edison Theatre OVATIONS! Series will present the Limón Dance Company Oct. 11-13. The performances will center on *Psalm* (1967), which was recently restaged by artistic director Carla Maxwell for the 2002 Winter Olympics in Salt Lake City, with new music by Jon Magnussen.

built on Humphrey's principles of weight, fall and recovery (as opposed to the illusory effortlessness of classical ballet) with frequent allusions to literature or current events.

*The Moor's Pavane* (Variations on the Theme of Othello) (1949) distills Shakespeare's sprawling ensemble into a one-act drama for four dancers; *The Traitor* (1949) addresses the poisonous McCarthy hearings through the

story of Judas.

Other seminal works include *There Is a Time* (1956), *Emperor Jones* (1956) and *Missa Brevis* (1958). (Limón was posthumously inducted into the National Museum of Dance Hall of Fame in 1997.)

Over the past three decades, Limón Dance has demonstrated that a company can remain artistically vital even after the passing of its founder. The troupe not

only continues to perform and teach Limón's repertoire and technique but also has produced more than 50 works by some 30 major contemporary choreographers, including Donald McKayle and Billy Siegenfeld.

The Edison Theatre performances will center on Limón's sometimes-overlooked epic *Psalm* (1967), which was recently restaged by artistic director Carla Maxwell for the 2002 Winter

Olympics in Salt Lake City, with new music by Jon Magnussen.

A virtuoso display of ensemble dancing, the piece is inspired by the Jewish legend of 36 just men (here condensed into one figure) who unknowingly carry the sorrows of the world upon their shoulders. Limón's stark yet propulsive choreography captures the isolation, anguish and ultimate redemption of the Just Man as he moves through a symbolic landscape of ritual, history and belief.

The program also features Maxwell's *Etude*, a solo (performed by Jonathan Riedel) that debuted at the Winter Olympics and is derived from movements in *Psalm* and Limón's *Dances for Isadora*. Other works include Humphrey's classic *Invention* (1949), Susanne Linke's *Transfiguration* (1976) and Siegenfeld's recent *If Winter* (2001).

The performance is made possible in part by support from the Missouri Arts Council, a state agency; the Regional Arts Commission, St. Louis; and the New England Foundation for the Arts.

Tickets are \$27 and are available at the Edison Theatre Box Office, 935-6543, the Dance St. Louis Box Office, 534-6622, and through all MetroTix outlets. For further information, call 935-6543.

## Why Values Still Matter • Beauty in America • Happiness

"University Events" lists a portion of the activities taking place at Washington University Oct. 4-17. 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

**The Book of Roots, #0001: Tracajá.** Josely Carvalho. Photolitho-and-mixed-media prints. Through Oct. 27. Des Lee Gallery, 1627 Washington Ave. 621-8537.

**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, Oct. 4**

7:30 a.m.-4:30 p.m. Obstetrics &

**Gynecology CME Symposium.** Randall R. Odem, assoc. prof. of obstetrics & gynecology, course chair. Cost: \$275 for physicians, \$195 for Allied health professionals. Eric P. Newman Education Center. 362-6891.

**9:15 a.m. Pediatric Grand Rounds. Annual Philip R. Dodge Lecture.** "Adaptive Mechanisms of Developing Brain." Laura R. Ment, prof. of pediatrics and neurology, Yale U. Barnes-Jewish Hosp. Bldg., Steinberg Amphitheatre. 454-6042.

**Noon. Politics Ethics and Society workshop.** Eliot Hall, Rm. 300. 935-5716.

**3 p.m. Russian presentation.** "Career Opportunities Supporting Civil Society in the Former Soviet Union: The Experience of a WU Alum." Michelle Kinman, the Caspian and Natural Resources Program Officer for Initiative for Social Action and Renewal in Eurasia (ISAR), Washington, D.C. Eads Hall, Rm. 103. 935-5177.

**Saturday, Oct. 5**

**7 a.m.-5:30 p.m. CME Course.** "New Techniques in Urinary Incontinence and Female Urology." Registration required. Eric P. Newman Education Center. 362-6891.

**10 a.m. Physics Saturday Science Seminar Series.** "From Atoms to Quarks." Claude Bernard, prof. of physics. Crow Hall, Rm. 201. 935-6276.

**Monday, Oct. 7**

**7:30 a.m.-4:30 p.m. STD Laboratory Methods course.** Sponsored by the St. Louis STD/HIV Prevention Training Center. (Continues Oct. 8 & 9.) Cost: \$75. Registration required. 747-1522.

**Noon. Molecular Biology & Pharmacology seminar.** "Regulation of Endochondrial Skeletal Development by Indian Hedgehog." Fanxin Long, asst. prof. of internal medicine. South Bldg., Phillip Needleman Library. 362-0183.

**Noon. Neurology & Neurological Surgery Research Seminar Series.** "Regulation of Potassium Homeostasis and Sodium-potassium ATPase in Apoptosis." Shan Ping Yu, asst. prof. of neurology. Maternity Bldg., Lvl. 1, Schwartz Aud. 362-7316.

**Noon. Work, Families & Public Policy Seminar Series.** "Race, Kinship Care, and Adoption: Does Legal Status Matter?" Margaret Brinig, Edward A. Howry Distinguished Professor of Law, University of Iowa. Eliot Hall, Rm. 300. 935-4918.

**4 p.m. Immunology Research Seminar Series.** "Human T-cell Leukemia Virus Tax Transgenic Mice: A Model for Investigating Pathogenesis and Treatment of Cancer." Lee Ratner, prof. of molecular microbiology and medicine. Eric P. Newman Education Center. 362-2763.

**4 p.m. Physics seminar.** "Giant Moments of 3d-Impurities in Alkali Hosts." Gerd Bergmann, prof. of physics, U. of Southern Calif., Los Angeles. (Coffee, 3:45 p.m.) Compton Hall, Rm. 241. 935-6276.

**7 p.m. Architecture Monday Night Lecture Series.** "Almost Nothing: The Brick Villas of Mies van der Rohe." Leslie van Duzer, visiting assoc. prof. of architecture. Steinberg Hall Aud. 935-6200.

**7:30 p.m. St. Louis Hillel lecture.** "Can a Table Stand on Three Legs? Jewish Identity in the 21st Century." Avraham Infeld, counsel for Jewish Affairs for Hillel, the Foundation for Jewish Campus Life. Hillel Center, 6300 Forsyth Blvd. 935-9042.

**Tuesday, Oct. 8**

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar**

## Writer Santiago, foreign policy expert Gelb to speak

BY BARBARA REA

**W**riter Esmeralda Santiago will deliver the Latin American Awareness Week keynote lecture for the Assembly Series at 11 a.m. Oct. 9 in Graham Chapel.

And at 4 p.m. in Graham Chapel the following day, Leslie H. Gelb, president of the Council on Foreign Relations and Pulitzer Prize-winning journalist, will present the inaugural Elliot Stein Lecture in Ethics, also for the Assembly Series.

**Santiago** is replacing Carlos Fuentes, who canceled his engagement for personal reasons.

Latin American Awareness Week explores the issues of cultural identity for Latinos.

Santiago has been called a remarkable storyteller. In her 1993 autobiographical account, *When I Was Puerto Rican*, she evokes a world informed by two cultures and explains the double bind in which Puerto Rican Americans find themselves.

In her travels from a rural barrio in Puerto Rico to the years of transition in New York City, she explores the notion of identity that is common to many immigrants and their children: Is she black or white; rural or urban,



Puerto Rican or American?

Her first novel, *America's Dream*, also considers the theme of identity and change. Her most recent book, *Almost a Woman*, continues her autobiographical story and was recently featured on PBS's *Masterpiece Theater*.

Born in Puerto Rico, the oldest of 11 children and raised by a single mother, Santiago was well acquainted with hardship. Moving to Brooklyn, N.Y., at age 13, she was thrust into American culture via junior high school.

After stints at community colleges, she transferred to Harvard University with a full scholarship and graduated magna cum laude in 1976. In addition, she holds a master of fine arts in writing from Sarah Lawrence College.

Together with her husband, Santiago founded a film-production company specializing in doc-

### Assembly Series

**Who:** Esmeralda Santiago

**What:** Latin American Awareness Week keynote lecture

**Where:** Graham Chapel

**When:** 11 a.m. Oct. 9

**Who:** Leslie H. Gelb

**What:** Inaugural Elliot Stein Lecture in Ethics

**Where:** Graham Chapel

**When:** 4 p.m. Oct. 10



umentary filmmaking. In addition, she has helped establish shelters and centers for victims of domestic violence.

**Gelb** — who will speak on "Why Values Still Matter" — has extensive expertise in U.S. foreign policy and national security issues. As president of the Council on Foreign Relations, Gelb leads an organization dedicated to increasing America's understanding of the world and contributing ideas to U.S. foreign policy.

He has held a number of positions at *The New York Times*, including serving as a columnist, an op-ed page editor, a national security correspondent and a diplomatic correspondent. He received a Pulitzer Prize for explanatory journalism in 1986.

In addition to his journalism career, Gelb has worked for the Department of Defense, as a visit-

ing professor at Georgetown University, as a senior fellow of the Brookings Institution and as assistant secretary of state for political-military affairs.

His publications include *Anglo-American Relations, 1945-1950: Toward a Theory of Alliances*; *Claiming the Heavens*; *Our Own Worst Enemy: The Unmaking of American Foreign Policy*; and *The Irony of Vietnam: The System Worked*.

Gelb earned a bachelor's degree from Tufts University, and master's and doctoral degrees from Harvard University. At the Department of Defense, he received its highest honor, the Distinguished Service Award.

All Assembly Series lectures are free and open to the public. For more information, call 935-4620 or visit the Assembly Series Web site at [wupa.wustl.edu/assembly](http://wupa.wustl.edu/assembly).



## Celecoxib

May be a safer alternative for pre-term labor

— from Page 1

Recently, however, several research teams including the University group discovered that women in pre-term labor have abnormally high levels of only one type of COX protein, COX-2. The team therefore theorized that a drug like celecoxib, which influences only COX-2, may effectively treat pre-term labor with fewer side effects, since the drug only targets one protein.

Twenty-four women who were older than 18 and who went into labor between 24-34 weeks of pregnancy were treated with either celecoxib or indomethacin. They all were admitted to Barnes-Jewish Hospital or to Northwestern Memorial Hospital.

The women were randomly assigned to one of the two treatment groups. The team examined the health of the mothers and fetuses until delivery.

The team found the two drugs equally safe for mothers. But celecoxib was safer for fetuses than indomethacin.

For example, indomethacin significantly increased the constriction of a major blood vessel in fetuses, while there was no significant change in the celecoxib group. Also, the volume of amniotic fluid in the indomethacin group was less than in the celecoxib group 24 hours and 48 hours after the first treatment.

Blood tests confirmed that celecoxib interfered only with COX-2, while indomethacin also disrupted another COX protein.

"If further testing verifies the safety and effectiveness of celecoxib, we could have a new drug to treat women who are at risk for pre-term delivery," Sadovsky said.

## Dinosaurs

Smiths, collaborators discover new genus

— from Page 1

Jennifer Smith, also a graduate student at the University of Pennsylvania, was going to Egypt on another project in January 1999 and asked her then-boyfriend Josh Smith if he'd like to hire on as a field assistant. He gladly accepted the offer on the condition that he'd be allowed some time to research Stromer's general area.

He was granted just two days to search, but in that time, came up with some dinosaur bone fragments confirming that he had found the area and showing there very likely could be more to be discovered.

With little more than an idea and vague proof and through a series of fortunate happenstances, eventually Smith, through a close friend, convinced a Los Angeles film company to fund the expedition as long as Smith's team

would agree to be the subjects of their documentary. The film company, MPH Entertainment, did all the filming and production.

Smith and his collaborators not only uncovered Stromer's original site, but they also discovered an entirely new genus of dinosaur, *Paralititan stromeri*, the second-most massive dinosaur ever to walk the Earth.

Smith and the team published their results in the June 1 issue of *Science*. Their story subsequently was documented in *The New York Times*, *USA Today*, *Newsweek*, *Scientific American* and a host of other publications and in television interviews that went worldwide.

"It was incredible, the amount of coverage that we got," Smith said. "We were just stunned. It went from finding a little bone in the desert, and the next thing I know I'm on CNN talking to a million people."

There will be more. Smith's publisher, Random House, has him scheduled for a national author tour that will take him to New York, Boston, Philadelphia and Toronto in the coming months.



**Daystar's discourse** Native American dancer Daystar (also known as Rosalie Jones, at far right) recently spent a week in residence with the Dance Program in the Performing Arts Department in Arts & Sciences, where she led several workshops and master classes. Born on the Blackfeet Reservation in Montana, Daystar is of Pembina Chippewa ancestry and — as founder and artistic director of DAYSTAR: Contemporary Dance-Drama of Indian America — an authority on the intersection of Native American and modern dance forms.

## Shoes

Program provides for underprivileged kids

— from Page 1

out whichever pair of shoes they like.

"Everybody likes something new, and this gives the kids something to look forward to," Nelson said. "It builds their self-esteem. The child actually gets to go shopping and pick out their own shoes, and we just pay for it on the spot. That's the neatest and most emotional part of it. You would be amazed to see the gratitude in the parents' eyes and in the child's eyes.

"It's like, 'Wow, I get to go shopping, I have something that I want.' A lot of these families are used to getting hand-me-downs, so we want a different concept and let them pick out something they want."

Nelson started the program from scratch in June 2000. She uses the accounting skills required for her University position to apply for grants and keep the books for 2000 Feet, and she also uses the skills she needed when

she applied her church, Grace Community Church in Maryland Heights, Mo., for nonprofit tax exemption.

But she's had help along the way. Former St. Louis Cardinal All-Star Ray Lankford and his wife, Yolanda, have been very helpful with financial support of the program. In fact, Lankford, who now plays for the San Diego Padres, has been the celebrity chair of the organization for the past two years.

Several local businesses and churches also have pitched in with support. The program has grown and now has a board of seven directors, none of whom receives a salary.

Everyone benefits. During one semester, 2000 Feet purchased shoes for a family with eight children who were wearing sandals to school when the outside temperature was 20 degrees.

The largest family benefiting from Nelson's efforts included 12 kids, who were recently released from various children's homes.

To help fund-raising efforts, the organization holds an annual Walk-A-Thon. In August, the event raised \$5,700.

Amanda Arnold, a 6-year-old whose mother, Pat, also works in sponsored projects accounting, has been the grand-prize-winner for the past two years in terms of

raising the most money.

Nelson also counts her husband, Antwine, among those who lend invaluable support.

In the end, though, it's all about the kids. Generally, 2000 Feet takes the children shopping between August and May, when most kids are in school.

"The majority of our recipients have come through word-of-mouth, requests from our Web site and the radio," Nelson said. "We also contact school social workers and counselors in low-income schools to offer our services."

So far this year, 2000 Feet has served 53 children. Last semester, 2000 Feet reached out to 110 children, most of who were referred by Big Brothers Big Sisters, Our Little Haven and West End Academy. Numerous children in the St. Louis City Public School District also benefited.

And if Nelson has her way, that number will continue to grow over the next few years, with joining United Way a definite possibility.

"Our goal right now is 150 kids per semester," Nelson said. "But our goal after five years is 2,000 kids a year. That might be pushing it because we're still learning as we go, but if it's not five years, it might be six, seven or 10."

## Retirement

— from Page 1

said James Burmeister, executive director of University relations and Commencement, and commencement chair from the late 1960s through the mid-1970s. "She always put the students first in a caring and concerned way."

Of the retirees recognized at the luncheon, 12 had at least 30 years at the University. And while no one approached — or might ever approach — Gaines' mark, Jane Eckert and John Epstein were also singled out for 41 and 40 years of service, respectively.

Gaines, Eckert and Epstein all received bouquets of flowers symbolic of the retirees with the longest service.

"An extraordinary range of talent and contributions is needed to have an institution come to this degree of success," Wrighton said in his congratulatory remarks. "You have my and everyone's gratitude for the important work you have done and for the success you have brought to the University. I'm very grateful to those who have dedicated their careers to advancing the University."

All retirees were given walnut plaques, presented by Christopher I. Byrnes, Ph.D., dean of the School of Engineering & Applied Science; William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; Virginia Toliver, associate dean of University Libraries, M. Fredric Volkmann, vice chancellor for public affairs; and Wrighton.



**Recent retirees (from left) Jane Eckert, Jean Gaines and John Epstein (far right) are honored for their years of service by Chancellor Mark S. Wrighton at a Sept. 26 luncheon at Whittemore House.**

### Retirees recognized

**Forty-eight recent retirees were recognized in a Sept. 26 luncheon at Whittemore House.**

**Retirees from the Hilltop Campus and their years of service are:** Arlene Boulding, 29; Carol Brown, 13; Robert Browning, 23; David Cronin, 25; Sarah Delaney, 32; Susan Felts, 35;

Linda Glassner, 18; Ethel Hochberg, 21; Margaret Hopkins, 11; Joe Kastner, 34; Diana Lee, 16; Mazie Moore, 25; Libby Reuter, 19; Maureen Ronken, 18; John Russell, 33;

Donald Schneider, 11; Phyllis Schomaker, 13; John Silvernail, 10; Gary Sparks, 32; and Leslie Will, 18.

**Retirees from the Medical Campus are and their years of service are:**

Rose Bodman, 20; Tommie Lee deArmas, 10; Phyllis Feagans, 31; Judy Gamblin, 30; Josephine Garcia, 21; Karl Helms, 18; Bettie Jones, 35; Mary Keller, 15; Lois Kopff, 13; Laverne Mason, 23; Katherine McClure, 26; Carole Moser, 22; Patricia Nacci, 27; Martha Nelson, 10; Jo Ann Nowotny, 17;

Mary Peters, 25; Charles Radcliff, 15; Mary Schuetz, 24; Rose Steinert, 10; Roosevelt Stringfellow, 11; Norma Urani, 13; Charles Williams, 28; Thelma Williams, 32; G. William Winter, 29; and Yeqing Zhou, 12.

## Sports

### Football team downs pesky Rose-Hulman

The football team blew a 17-0 first-quarter lead before holding on for a 24-19 home victory against Rose-Hulman Institute of Technology Sept. 28. Freshman quarterback Nathan Szep hit Brad Duesing for a pair of touchdown passes as the Bears rolled up 197 yards in the first quarter. Szep finished 23 of 41 for 280 yards and two touchdowns, Duesing caught eight passes for 108 yards and two scores and Jeff Buening had seven catches for 98 yards.

### Other updates

Freshman Heidi Pfeiffer had a career-high 15 kills and junior Amy Brand added 11 kills as the No. 1-ranked volleyball team defeated Fontbonne University, 3-0, Sept. 25 at the Field House. Pfeiffer had just one error in the match as she hit a career-high .609. Senior Rebecca Rotello had 37 assists, seven digs and six kills in the victory.

The men's soccer team's scoring problems continued as the Bears lost 3-1 to Carnegie Mellon University Sept. 29. It was the University Athletic Association opener for both teams. The Bears were outshot 12-9. James Steidel scored the

first two goals of the match, giving Carnegie Mellon the lead for good. Bears freshman Rob Weeks scored his second goal of the year at 51:06 to cut the lead to 2-1.

The women's soccer team pushed its unbeaten streak to six games with a win and a tie last week at home. The Bears, 5-1-2, made it four straight wins with a 6-0 whitewash of Fontbonne Sept. 26. Kim Raess, Megan Morley, Kara Karnes, Bethany Henderson, Brenda Harpole and Kelly Schoenbeck all tallied goals, while the defense didn't allow a shot to give Readie Callahan and Casey Herrforth a combined shutout in the net. Washington U. then opened the UAA season with a scoreless draw against Carnegie Mellon Sept. 29.

The men's and women's cross country teams participated at the Miner Invitational Sept. 28 in Rolla, Mo. The No. 9 women placed fourth of 11 teams, while the men placed third of five. The women's team sat out its top five runners and failed to win its third straight meet, finishing 51 points behind first-place Truman State University. The men's team also sat out its top five runners and accumulated 81 points, which was 54 behind first-place finisher Northwest Missouri State University.

## Notables

### Introducing new faculty members

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

**Wolfram Schmidgen, Ph.D.**, joins the Department of English in Arts & Sciences as assistant professor. He earned a master's degree in comparative literature from the State University of New York, Binghamton, a master's degree in American studies from the Free University of Berlin, and a doctorate in English language and literature from the University of Chicago. His interdisciplinary research concentrates on locating the work of literary texts in socio-cultural fields of production, including the family, law, aesthetics and property. In his next book, *Eighteenth-Century Fiction and the Law of Property*, he argues that the possessive association of persons and things in the early novel explores the limits of social and political communities.

**Joseph Thompson, Ph.D.**, joins the Department of English in Arts & Sciences as assistant professor. He earned a bachelor's degree summa cum laude in English from the University of Delaware, a master of arts and master of philosophy from Yale University in African-American Studies and English and a doctorate from Yale. His research focuses on the representation of education in African-American literature. Exploring the involvement of educational institutions and practices in the perpetuation of racial ideology, he examines how schools shaped African-American writers' fictional accounts of racial consciousness in the first half of the 20th century.

**Kellie Wells, Ph.D.**, joins the Department of English in Arts & Sciences as assistant professor. She earned a bachelor's degree in English from the University of Kansas, a master of fine arts degree in creative writing from the University of Montana, a master of fine arts in creative writing-fiction from the University of Pittsburgh and a doctorate from Western Michigan University. Formerly assistant professor in the creative writing program at Georgia College and State University, her teaching interests include experimental writing by women and the figure of the female grotesque.

**William Layher, Ph.D.**, joins the Department of Germanic Languages & Literatures in Arts & Sciences as assistant professor. He earned a bachelor's degree from Northwestern University and a doctorate degree from Harvard University. He also studied for a year at the University of Heidelberg as an undergraduate and spent a year at Gteborg Universitet in Sweden. His specialty is medieval literature and culture of the Baltic region, cultural transfer, Low German, Middle High German, Old Norse, and Swedish. His publications are on real and imagined German poets in 13th-century Denmark, origins of the Old Swedish epic *Hertig Fredrik af Normandie*, Nordic medieval ballads and Nordic artifacts. He is working on a monograph on *Hertig Fredrik af Normandie* and a facing-page English translation on the same, as well as projects on warrior-women in the Old Norse sagas and Ibsen's *Peer Gynt*.

### Of note

**Brian D. Carpenter, Ph.D.**, assistant professor of psychology in Arts & Sciences, has received a one-year, \$4,000 grant from the American Psychological Foundation for research titled "Family Dynamics Among In-Laws: Integration, Expectations and Well-Being." ...

**Martha Storandt, Ph.D.**, professor of psychology in Arts & Sciences, has received a one-year, \$329,869 grant from the National Institutes of Health for research titled "Aging and Development." ...

**Kevin Z. Truman, Ph.D.**, chair and professor of civil engineering, has received a one-year, \$453,171 grant from the National Science Foundation for research titled "Partnerships for Math, Science and Engineering Instruction Through Computer Visualization." ...

**Ervin Rodin, Ph.D.**, professor of applied mathematics and systems sciences, has received a two-year, \$660,000 grant from the Air Force Office of Scientific Research for research titled "Simulation and Optimization Methodologies for Military Transportation Network Routing and Scheduling and for Military Medical Services Formerly Entitles as Air Transportation Network Routing and Scheduling." ...

**Shirley J. Dyke, Ph.D.**, associate professor of civil engineering, has received a one-year, \$60,204 grant from the National Science Foundation for research titled "AWARE: Engineering Research Experiences for Undergraduates in Advanced Technology in Japan." ...

**Eric J. Richards, Ph.D.**, associate professor of biology in Arts & Sciences, has received a one-year, \$30,000 grant from the National Science Foundation for research titled "13th International Conference on Arabidopsis Research; June 28-July 2, 2002, Seville, Spain." ...

**Thomas J. Kappock, Ph.D.**, assistant professor of chemistry in Arts & Sciences, has received a two-year, \$35,000 grant from the American Chemical Society for research titled "Mechanism of Acetylene Formation by Enzymes." ...

**Bruce Fegley, Ph.D.**, professor of earth and planetary sciences in Arts & Sciences, has received a three-year, \$219,089 grant from the National Aeronautics and Space Administration for research titled "Chemical Models of the Gas Giant Planets." ...

**Michael R. Brent, Ph.D.**, associate professor of computer science, has received a one-year, \$398,500 grant from the Department of Health and Human Ser-



**High-performance computing** During a Sept. 25 inauguration ceremony and tour of the new Washington University Center for Scientific Parallel Computing in Arts & Sciences, Wai-Mo Suen, Ph.D. (right), professor of physics, discusses one of the center's two supercomputers with fellow Arts & Sciences member Victor Wickerhauser, Ph.D., professor of mathematics. The center's supercomputers, a 64 CPU Origin 2000 and a 16 CPU Itanium cluster, are based on parallel technology harnessing the power of multiple processors to process information and graphics at high speed. Suen was principal investigator and Wickerhauser a co-investigator on the National Science Foundation grant to purchase the supercomputers and establish the center, now located in the Power Plant. Suen noted that students and faculty in 24 University research groups from varying disciplines — science, engineering, business and medicine — are now using the supercomputers. "Work that would take a month on a workstation now takes a few hours on the supercomputers here," Suen said.

vices for research titled "Predicting Gene Structure Vertebrate Genome Comparison." ...

**Peter MacKeith**, assistant dean for the School of Architecture, has received a one-year, \$15,000 grant from the Graham Foundation for research titled "Sounding: Philosophical Encounters — Architecture in Search of Philosophical Depth." ...

**R.M. Arthur, Ph.D.**, professor of medicine, has received a two-year, \$383,229 grant from the National Cancer Institute for research titled "Noninvasive Temperature Estimation with Ultrasound." ...

**Christopher D. Kroenke**, National Institutes of Health post-doctoral fellow in radiology, has received a three-year, \$117,024 grant from the National Institute of Neurological Disorders and Stroke for research titled "Molecular Displacement in Brain Extracellular Space." ...

**Douglas M. Tollefsen, M.D.**, professor of medicine, has received a three-year, \$117,060 grant from the Fogarty International Center for research titled "Antithrombotic Activity of Ascidian Glycosaminoglycans." ...

**Kathleen K. Bucholz, Ph.D.**, research professor of epidemiology in psychiatry, has received a five-year, \$102,705 grant from the National Institute of Alcohol Abuse and Alcoholism for research titled "A New Annual Alcohol Research Forum: Guze Symposium." ...

**Judith M. Gurley, M.D.**, assistant professor of plastic and reconstructive surgery, has received a one-year, \$25,000 grant from the Shriners Hospital for Children for research titled "The Role of Fibroblast Growth Factor and Heparen Sulfate Proteoglycan in Palate Formation." ...

**Washington University School of Medicine** has received a one year, \$25,000 grant from the American College of Rheumatology for the 2002 ACR/REF/Amgen Rheumatology Fellowship Training Award. ...

**Talal A. Chatila, M.D.**, associate professor of pediatrics, has received a three-year, \$261,849 grant from the March of Dimes Birth Defects Foundation for research titled "Role of IL4RA in Asthma Pathogenesis." ...

**Michael M. Mueckler, Ph.D.**,

professor of cell biology and physiology, has received a three-year, \$813,120 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for research titled "HIV Protease Inhibitors and Glucose Transport." ...

**Jae Y. Jung**, National Institutes of Health pre-doctoral fellow, has received a one-year, \$23,744 grant from the National Institute on Deafness and Other Communication Disorders for research titled "Characterization of NOS I Splice Variants in Osteoclasts." ...

**Morgan McLemore, M.D.**, research instructor of medicine, has received a five-year, \$570,780 grant from the National Heart, Lung, and Blood Institute for research titled "The Effect of G-CSFR Mutations on Granulopoiesis." ...

**Iqbal Hamza, Ph.D.**, postdoctoral fellow in immunology and rheumatology, has received a three-year, \$250,759 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for research titled "Biological Role of Metallochaperones in Human Nutrition." ...

**Ling-Gang Wu, M.D.**, assistant professor of anesthesiology, has received a four-year, \$897,878 grant from the National Institute

of General Medical Sciences for research titled "Synaptic Inhibition by Volatile Anesthetics." ...

**Jose A. Conchello, Ph.D.**, research assistant professor of neurobiology, has received a three-year, \$794,800 grant from the National Institute of General Medical Sciences for research titled "Computational Optical Sectioning Microscopy Algorithms." ...

**Marc R. Moon, M.D.**, assistant professor of surgery, has received a three-year, \$808,500 grant from the National Heart, Lung, and Blood Institute for research titled "Pathophysiology and Treatment of Pulmonary Hypertension." ...

**Nancy L. Saccone, Ph.D.**, research instructor in mathematics in psychiatry, has received a five-year, \$516,452 grant from the National Institute on Drug Abuse for research titled "Quantitative Analysis Methods for Complex Trait Genetics." ...

**Rodney D. Newberry, M.D.**, assistant professor of medicine, has received a two-year, \$153,250 grant from the National Institute of Diabetes and Digestive and Kidney Disease for research titled "Immunomodulatory Role of Lamina Propria Stromal Cells."

### Obituaries

#### Dagen, 83

**Margaret "Maggie" Dagen** died Wednesday, Sept. 18, 2002, at her home in University City, Mo., of complications from cancer. She was 83. Dagen taught in University College in the 1940s and served as an admissions counselor from 1963 to her retirement in 1981. A memorial service will be held at 4 p.m. Oct. 6 in Anheuser-Busch Hall, Room 310.

#### Editor's note

At presstime, it was learned that Debra S. Newman, a first-year student in the School of Law, died Tuesday, Oct. 1, 2002, from injuries sustained when she was struck by a car on Forsyth Boulevard Sept. 24. She was 22. A full obituary will be printed in a future issue of the *Record*.

### Campus Watch

The following incidents were reported to University Police **Sept. 24-Oct. 1**. 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).

#### Sept. 24

4:50 p.m. — A person reported that a cell phone left unattended in the Sigma Alpha Epsilon fraternity house was stolen. Total loss is estimated at \$100.

#### Sept. 26

6:16 p.m. — A student reported that an unknown person entered his unlocked suite in Wheeler House and stole his property from the suite common area. Total loss is estimated at \$260.

#### Sept. 30

12:47 a.m. — A person

reported that his vehicle was stolen from Parking Lot No. 26A, near Hall Circle and the Millbrook Apartments. The person later called back stating his vehicle had been returned. An investigation revealed three juveniles had broken into the vehicle, as well as two others nearby.

9:53 a.m. — A staff member stated that an unknown person entered his vehicle, which was parked in Millbrook Garage, and stole his property. Total loss is estimated at \$201.

Additionally, University Police responded to two reports of larceny.



## Washington People

**F**or Karen L. Wooley, Ph.D., professor of chemistry in Arts & Sciences, it's all about connections. Human connections.

Molecular connections.

Ask her what she likes about her job, and she'll tell you the people rank right up there with the subject matter.

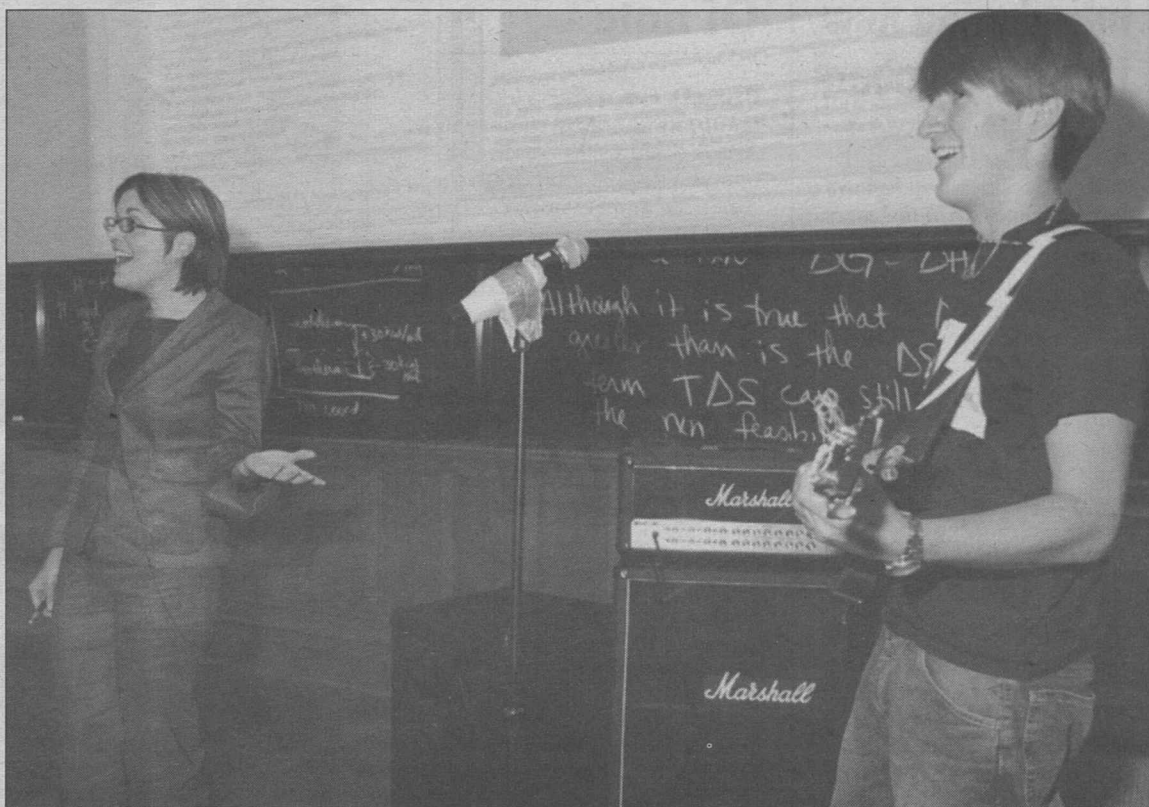
The science is innovative, highly disciplined and difficult to explain in lay terms, but as Wooley is quick to point out, it's the gifted people in her lab who make it happen.

"I generate ideas and I then mentor the Ph.D. students in the lab," Wooley says, "and really much of the recognition that is thrown in my direction is because of all of the hard work of these students."

Wooley grew up in a small logging community in the mountains of Oregon, the "rebellious middle child" of working-class parents who encouraged her active curiosity about science and the workings of the natural world.

Going to college was never a question, she says. It was simply understood to follow after high school.

"I took as much science and



**Karen L. Wooley, Ph.D., professor of chemistry in Arts & Sciences, introduces Jeremiah Johnson and his band, Alisdair (including Theodore Kerman, Bracken King and Joe Schmidt), to her organic chemistry class. The guitar of Johnson — a junior conducting research in Wooley's laboratory — was used to enhance a lesson for the class, and the band also appropriately performed its song "Entropy" — one of the concepts discussed in the course.**

# Making connections

**Karen L. Wooley, Ph.D., says much of her success comes from the hard-working students in her lab**

BY TERRI MCCLAIN

math as was offered, including two years of chemistry in high school," Wooley says. "Chemistry was a subject that I enjoyed quite well because it allowed for an understanding of everything from a molecular perspective.

Chemistry brings together scientific curiosity with mathematics and at the same time allows for not only the gaining of an understanding of matter but also the manipulation of matter."

Her doctoral studies at Cornell University focused on organic and polymer chemistry. Organic chemistry usually focuses on small molecules, whereas polymer chemistry is the study of larger macromolecules, which may be organic, inorganic or a combination of the two.

"I was drawn to polymer chemistry because it is an area of chemistry that is fundamental," Wooley says. "But it also has an applied sense that is valuable to society in general."

Since coming to the University in 1993, Wooley has focused much of her polymer research on synthetic nanoparticles (a nanometer is roughly one-billionth of a yard), called "knedels" because of their resemblance to the Polish dumpling.

What makes the knedels special is that Wooley and her colleagues stabilized the interior portion, thus allowing crosslinking actions to occur only in the outer shell of the particle.

"No one had done this, so this was really considered to be highly innovative," Wooley says. "And from there, again with really excellent students, we've been able to excavate the core. We've shown that we can cause molecules to go inside the shell so that these knedel nanostructures really can serve as hosts or vessels to carry cargo.

"So now we're bringing all of this together and ultimately expect to be able to engineer these materials to the point where they can be truly intelligent drug and gene therapy delivery systems.

"The thought is that if a synthetic material can be of similar

size (10-100 nanometers in diameter) to lipoproteins and viruses, then they will be able to circulate in the body for a long period of time without being rapidly cleared by the immune system," Wooley continues. "What we're attempting to do is make synthetic structures that can mimic, both in size and in structure and func-

**"Karen brings a wonderful sense of excitement and drive to her work. Her research accomplishments have earned her an international reputation. The department is very fortunate to have her on the team."**

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tion, things like lipoproteins and viruses."

Maisie Joralemon, a third-year doctoral student in Wooley's lab, works on the nanoparticle project. She's putting a cocktail of antibiotics inside spherical particles, which are specifically targeted at *E. coli* bacteria.

In addition to delivering the antibiotics, the nanoparticles are being designed to "suck up" the toxins released by the dead bacteria and safely eliminate them from the body.

"I read about the research that Karen was doing, and that's what drew me here to Washington University," Joralemon says.

"Karen is great to work for. We have a lot of fun in our labs. I think she does a great job of communicating with students and also with promoting their careers, doing what's best for the students. Anytime we have an idea, we just sit down with Karen, tell her our plan, and if it's a sensible one she lets us go for it."

The knedels' potential extends beyond biomedical applications. Wooley and her research group also are exploring their use in building composite materials, for example.

The research team always numbers about a dozen people, and each one works on his or her own project. The group's collaborations extend to departments as diverse as radiology in the School of Medicine and earth and planetary sciences in Arts & Sciences. Not all of the group's projects are related to nanoparticles.

And projects can take unusual turns as well. One study yielded an unexpected side reaction that opened an entire new area of research. Chakra Gudipati, a fourth-year doctoral student from India, has been following up on it.

"This project is funded by the Navy," Gudipati says. "We're working on coatings that can prevent their ship hulls from being corroded by marine organisms. It's been great fun so far.

"I was interested in polymer chemistry and, after thorough research, I found that Karen is one of the best in the field, and that's when I decided to apply to Washington University. She is a person who respects the students' opinions, and she encourages us all the time."

Joseph J.H. Ackerman, Ph.D., the William Greenleaf Eliot Professor and chair of the chemistry department, says, "Karen is a first-tier scientist whose research bridges the interface between synthetic organic chemistry, nanomaterials development, and biological compatibility and function. She has worked tirelessly for Arts & Sciences as a skilled teacher, as an undergraduate- and graduate-student mentor and as a member of select committees.

"Karen brings a wonderful sense of excitement and drive to her work. Her research accomplishments have earned her an international reputation. The department is very fortunate to have her on the team."

As a research scientist and mother of three children, Wooley's life is full. She credits her husband's support for much of her success, as he adjusted his own career objectives over the years to accommodate their growing family and her growing commitments.

"My work is my hobby," Wooley says. "I really love chemistry, and I really love the research that we do, and I really love this job because I'm able to teach and conduct research and write papers for publication. I'm able to go out on the road and travel and present the research results."

She credits the University administration with recognizing the importance of personal interaction in higher education.

"I have several long-term goals, and they are as varied as the duties of the job," she says. "One is

to continue providing undergraduate students with a solid foundation in the area of organic chemistry so they can go off and explore their own career paths. Another goal is to mentor these students who are carrying out their Ph.D. dissertation research in my laboratory so that they are well prepared as independent scientists to go off and investigate exciting new areas of research.

"It's my job to mentor," she continues. "No one can do everything alone. No one is an island. What has to be done is for a person to make the appropriate connections and find the appropriate mentors and just work as hard as possible. Then anyone can accomplish anything, no matter who they are."



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### Karen L. Wooley, Ph.D.

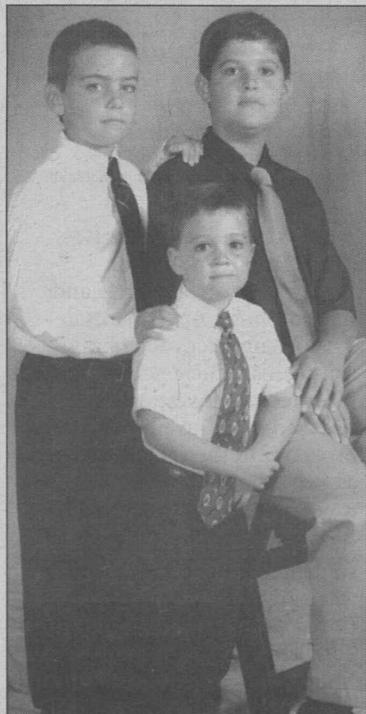
**University title:** Professor of chemistry in Arts & Sciences, with appointment in the Division of Biological and Biomedical Sciences Bioorganic Chemistry Program

**Years at the University:** 9

**Academic degrees:** Bachelor of science in chemistry, Oregon State University; doctorate in polymer/organic chemistry, Cornell University

**Family:** Husband, Mark, is a teacher; sons Isaac, 12; Gabriel, 7; and Iain, 4

**Personal interests:** Reading with her children, sewing, biking



**Karen Wooley's three sons: (clockwise from top left) Gabriel, Isaac and Iain.**