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# Record

Aug. 12, 1999

Volume 23 No. 35



## Washington University in St. Louis



### Groundbreaking Dignitaries, large crowd mark beginning of plant science center

By TONY FITZPATRICK

A host of dignitaries — scholars, educators and a senator — joined a large crowd of wellwishers at the groundbreaking ceremony Aug. 2 for the new Donald Danforth Plant Science Center at Olive Boulevard and Warson Road in Creve Coeur. They spoke of the outstanding opportunity the center promises St. Louis and the region and plant scientists worldwide who will enhance their knowledge of cutting-edge biotechnology research at the center.

U.S. Senator Christopher S. "Kit" Bond; National Science Foundation (NSF) Director Rita Colwell; William H. Danforth, Washington University chancellor emeritus and chairman of the Danforth Plant Science Center board; his brother, former U.S. Senator John Danforth; and Peter H. Raven, Ph.D., the University's Englemann Professor of Botany in Arts and Sciences and director of the Missouri Botanical Garden, were among those who partici-

pated in the official beginning of the \$75 million facility.

Chancellor Mark S. Wrighton presented the Science Coalition's Langer Award to Bond and U.S. Representative Richard Gephardt (in absentia) in recognition of their advocacy for federal government support of basic research. The coalition is comprised of some 400 organizations, institutions and individuals that support research funding.

The three-story building will provide 170,000 square feet of space housing laboratories, an auditorium, offices and conference rooms. Nicholas Grimshaw and Partners of London, in association with St. Louis-based Hellmuth Obata+ Kassabaum (HOK), designed it. McCarthy Co. of St. Louis is construction manager for the facility, which will be completed in June 2001.

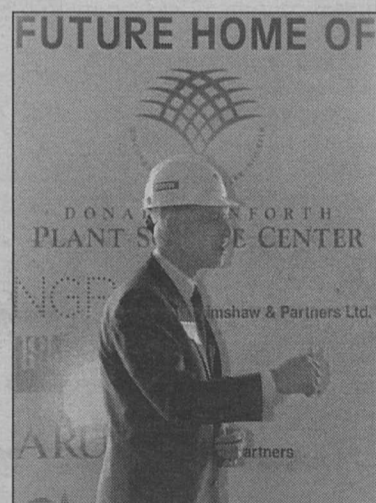
The center's mission is to increase understanding of basic plant biology; apply new knowledge to help sustain productivity in agriculture, forestry and allied fields; facilitate the rapid development and commercialization of promising technologies and products; and contribute to the education and training of graduate and postdoctoral students, scientists and technicians from around the world.

The center is named for the late Donald Danforth, former president of Ralston Purina Co. and father of William and John Danforth. William Danforth served as master of ceremonies for the event, and, in addition to introducing people, he introduced the motif of the day:

"As we break ground today for a building, we are also breaking ground on the realization of a dream," Danforth said. "Our dream has four parts."

Danforth said the first part of the dream is the collaboration of

See Center, page 5



Roger N. Beachy, Ph.D., director of the plant science center, helps celebrate the groundbreaking Aug. 2.

### Summer outreach programs draw crowds

By TONY FITZPATRICK

Summertime and the living is anything but easy at Washington University. Laboratories on the Hilltop and Medical campuses have been teeming with students and teachers from the area and across the nation. They came here to hone their research expertise in a wide variety of outreach and enhancement programs.

University faculty from the schools of Arts and Sciences, Medicine and Engineering and Applied Science lent their knowledge to participants in programs sponsored by the National Science Foundation (NSF), Solutia, Inc. and the Howard Hughes Medical Institute (HHMI).

The program with the broadest participation was the Solutia/

NSF-sponsored Students and Teachers as Research Scientists (STARS). Washington University partnered with St. Louis University and the University of Missouri-St. Louis in this program, which ran from June 21 to July 30 and involved 31 faculty mentors from the three institutions, plus more than 20 other faculty who participated in various ways, from lecturing to giving demonstrations.

Altogether, 52 talented high school juniors and seniors and some of their teachers from area schools spent six weeks at the different campuses, trying their hands at the whole arc of the modern research experience. From 8 a.m. to 5 p.m. on Tuesdays, Thursdays and Fridays, participants worked in the laboratories of their choice on defined projects. Monday and

Wednesday mornings offered such activities as an ethics class, computer research skills training, statistical analysis, curriculum workshops and career consulting. Participants learned to gather and analyze data and then to write a paper patterned after those published in professional journals. All participants also gave oral presentations the last day of the program to peers and faculty.

"It's important that the youth of this region and their teachers are well educated in the sciences and are aware of how science and engineering research is performed from the beginning to the finished product," said Kenneth R. Mares, Ph.D., lecturer at the University of Missouri-St. Louis and co-director of the STARS program. "From the teaching perspective, teachers will incorporate their summer learning

See Outreach, page 6



Helping hands Gloria Stukenbroeker, assistant records coordinator in Master of Business Administration Admissions at the John M. Olin School of Business, plays a game with children at the Jewish Community Center in Creve Coeur last week as part of the United Way Days of Caring. A total of 68 employees will have spent a half day volunteering at various area organizations when the project wraps up this week.

### Keck Foundation honors two faculty

#### Choi to lead studies of spinal cord repair

By LINDA SAGE

The W.M. Keck Foundation of Los Angeles has awarded \$900,000 to the School of Medicine for research on repairing the injured spinal cord. Dennis W. Choi, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor of Neurology and head of the Department of Neurology, will lead the project.

The grant will support pioneering work on spinal cord transplantation. The long-term goal is to use cells derived from embryonic cells to replace lost tissue. Such transplants might enable the cord to function once more so patients could regain lost



Choi: Pioneering transplantation study



Hanson: Receives new Keck award

bladder and bowel control. Perhaps they might one day result in enough regeneration for people to walk again.

"We are deeply appreciative of the support extended to Professor Choi and his colleagues," Chancellor Mark S. Wrighton said. "Their fundamental work promises to lead to approaches overcoming the tragic consequences associated with spinal cord injuries."

William A. Peck, M.D., executive vice chancellor and dean of the Medical School, said: "We are very pleased that the Keck Foundation has seen the enormous potential of this work and is willing to fund it in its early

See Choi, page 6

#### Hanson singled out as young scholar

By BARBRA RODRIGUEZ

Phyllis I. Hanson, M.D., Ph.D., assistant professor of cell biology and physiology at the School of Medicine, is among five first-time recipients of the Distinguished Young Scholar in Medical Research Award from the Los Angeles-based W. M. Keck Foundation. Hanson was picked from 10 finalists for the award.

The Young Scholars program will provide Hanson with \$1 million in research support over five years. The program was created to promote the development of young scientists who exhibit extraordinary promise in biomedical research and academic leadership.

"Phyllis Hanson's powerful grasp of research, her scientific dedication and her sense of academic excellence have contributed greatly to the field of

See Hanson, page 5

### Leading political scientist named to new Souers chair

By GERRY EVERDING

James L. Gibson, Ph.D., one of the world's leading survey researchers in political science, has been named the second Sidney W. Souers Professor of Government.

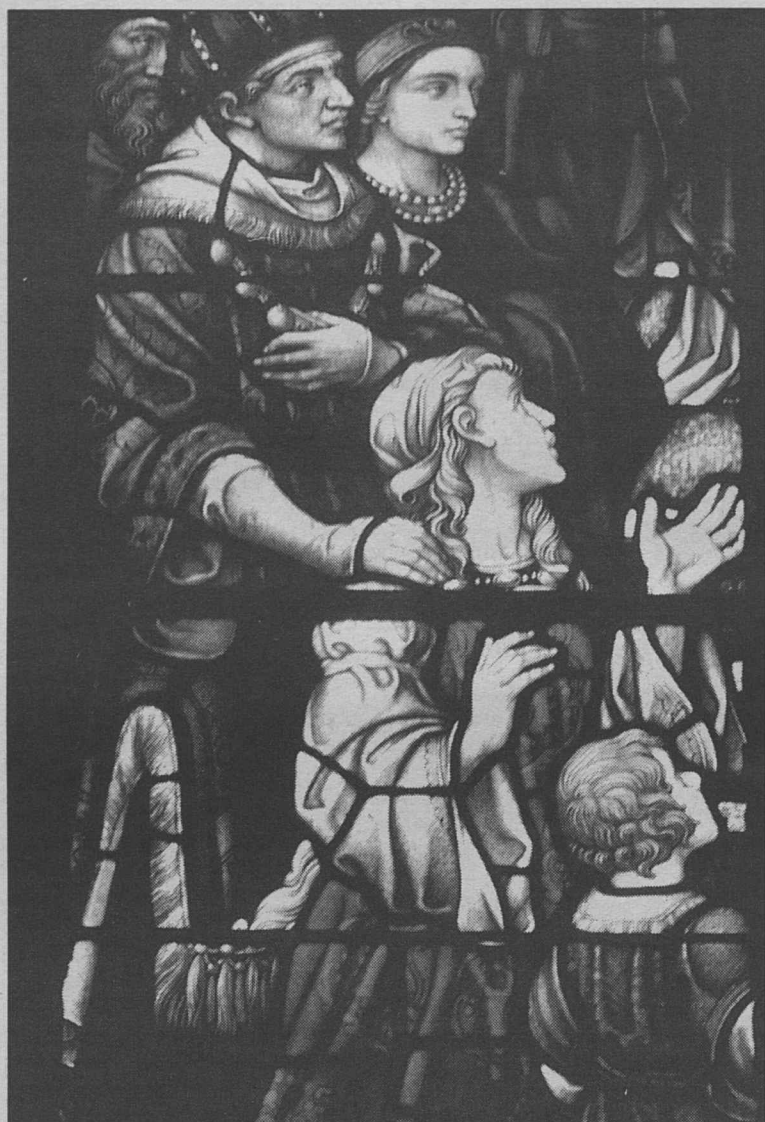
Gibson joined the Department of Political Science in Arts and Sciences July 1. He will be formally installed in the professorship at a ceremony Sept. 28. He comes from the University of Houston where he

taught for 16 years, most recently as the Cullen Distinguished Professor in the School of Social Sciences. He taught previously for eight years at the University of Wisconsin in Milwaukee.



Gibson: Renowned survey researcher

See Gibson, page 7



Graham Chapel's exquisite stained glass gets much-deserved attention in a new exhibit at Olin Library.

## New exhibit highlights Graham Chapel

By CHRISTINE FARMER

A new exhibit on the architecture of the University's beloved Graham Chapel not only traces the building's history but also looks at two key medieval elements: stained glass and grotesques.

The exhibit, which opened last week, will run through Oct. 8 on the fifth floor of Olin Library. Jay Kempen, archives assistant, is the writer and curator of the exhibit, titled "Grotesques Glass Graham: Marriage of Masonry."

It is the first exhibit to focus on a single campus structure.

"I was asked to do an exhibit on architecture," Kempen said. "From what I could tell there had only been one exhibit on architecture, and it looked at the whole campus plan done by Walter Cope and John Stewardson. I thought it would be nice to focus on a single structure. I hope people gain an appreciation for the spiritual as well as the intellectual impetus behind the design."

In his exhibit, Kempen also dispels two sculptural misconceptions common on campus. The first is that Graham Chapel has gargoyles. The figures are in fact grotesques. A gargoyle is a stone or wood waterspout that projects from the upper part of a building and grotesques are nonfunctional decoration.

"In medieval architecture, gargoyles were often carved with images of fearsome beasts from whose mouths poured water when it rained," he said. "At Graham, rainwater collects in hidden gutters at the roofline behind the battlement and is directed away from the building into the ground by pipes buried in the walls."

The second misconception is that Graham has ornamentation known as bosses. The figurative details that might appear to be bosses are actually corbels.

"A boss is a functional block of stone or wood carved with fanciful floral or animal motifs that covers the intersection of ribs in a vault or ceiling," Kempen said. "Corbels are projecting blocks of stone or wood supporting or appearing to support a vault from its point of origin."

The building, dedicated in 1909, was designed to resemble a medieval English college chapel.

In his detailed description of the interior and exterior of the campus landmark, Kempen wrote of the west window, "To the right, or south (symbolic for warmth) we see an angelic figure. To the left, or north (symbolic for worldly coldness) we see a large demonic creature devouring a smaller figure."

He points out that a stonemason's subtle attempt to remind us who designed and built the edifice is visible in a man clasp a banderole marked C&S

for Cope and Stewardson and a figure holding a carpenter's square and mallet.

He goes on to describe the subject of the east window, the Dedication of Solomon's Temple, and explores several possibilities for its selection.

"Because of his comparatively peaceful reign, Solomon may be seen as a 'safe' figure from biblical history, one that bridges Judaic, Christian and Muslim traditions," Kempen explained. "From biblical conventions, Solomon is the model of worldly wisdom and a hero of toleration. Perhaps because of his rather gentle nature and passion for intellectual pursuits, Solomon is often regarded as the epitome of knowledge and learning."

"Solomon too, is sometimes seen as an allegorical figure standing for the love of husband and wife — fitting in that Mrs. Graham dedicated the chapel in her husband's memory," St. Louis philanthropist Christine Blair Graham donated funds for the chapel in memory of her husband, Benjamin Brown Graham.

The exhibit includes reproductions of original drawings of the building, photographs, book materials and a sketchbook of grotesques used on other campus buildings. The exhibit is also accessible online at <http://library.wustl.edu/Units/Spec/exhibits/graham>.

## Young entrepreneurs hone business skills in summer program

By GREG MOODY

A laundromat-cum-fitness center, interactive software that teaches mathematics, hot and cold water dispensers for autos, disposable diapers that change color when the baby needs changing, a soap dispenser that attaches to the shower head and uses water pressure to dispense soap...

No, this is not a missing verse from "My Favorite Things." These are just a few of the business plans participants in the Minority Youth Entrepreneurship Program

(MYEP), co-sponsored by Washington University, have proposed since 1987.

This year the John M. Olin School of Business hosted the program June 27-Aug. 7, welcoming 36 juniors from 20 local high schools. This is the 12th year that the business school has sponsored the program, along with area minority business people and the Urban League.

"The program tries to teach students not to give up, and gets them to think of a creative way to spice a business up," said Sandra Marks, the program director. "We

want them to get involved in an industry and find out everything they can about it."

As in years past, this summer's students researched many possible products, ranging from clothing to sports bottles to silverware covers.

University faculty taught the students courses in human resources, accounting, marketing, finance, operations, team building and economics. At the same time, field trips to local minority-owned businesses gave the students a chance to ask successful entrepreneurs questions.

This year the students visited

Andy's Seasonings, the company that manufactures the breading for McDonald's Chicken McNuggets®, and Unlimited Water.

Marks attributed some of the most important lessons learned to the alumni who return to work with the program as facilitators after they have gone on to college.

"There is a lot of commitment to the program. Our students become bonded to it and want to give back," Marks said. "Our facilitators give the students real-life mentors — someone to relate to or go to for advice about college or life in general."

The program concluded with group presentations about the students' proposed business ventures. Members of the Urban League and minority business leaders judged the presentations and projects.

"We put a lot of time into our presentation and a lot of consideration," said RoShonda Franklin, a student at Hazelwood East High School. "I started thinking about it when I was first accepted into the program."

Franklin's group developed a plan for a medical computer disc that diagnoses diseases of the blood. Questions from the judges followed the 45-minute presentations.

"We ask a lot of questions, but they have to understand it is a process," said Paul Miller, businessman and co-founder of the program. "They have to show that an idea is practical and not just an idea. They need to be forthcoming with the information about their

product and learn to be thorough."

Each member of the team with the strongest plan won a \$500 Urban League scholarship. Members of the team with the second-place plan won a \$250 scholarship from World Wide Technology, Inc.

The program does more than hand out scholarships to encourage students to continue their education — participants may earn three college credits through the program. This year all but one student paid the \$75 to receive the credit.

Recently, the Urban League surveyed the alumni of the program and found that the majority of the students had gone to college and many had chosen business careers. Some alumni businesses include a cookie company, a law firm, a driving range and a Web site that sells clothing related to fraternities and sororities.

"It benefits the St. Louis area by giving the students another option," said Raquelle Wallace, a program alumna and MYEP contact at the Urban League. "It is a first-class program that helps students get an interest in and an understanding of business."

Local business owners Ronald Thompson, Paul Miller and Jamie Rivers, with the support of the Urban League, developed the program in 1987 when only 3.1 percent of business owners in America were black, despite accounting for 12 percent of the population.

## News Briefs

### Sharing hope

Asha-St. Louis, a student group at the University, is taking part in a worldwide Internet campaign Aug. 16 to raise funds for basic education in India. The national Asha ("Hope") organization is mounting the "Work an Hour" campaign to help some of the 50 million Indian children who have never seen a school.

Participants are invited to donate at least an hour's worth of their pay to support the three projects that are the beneficiaries of Work an Hour '99 — a school for child laborers, another for landless children and a shelter for homeless girl students. Work an Hour '98 raised \$32,000 for three schools in central India, and this year's goal is \$40,000.

For more information about how to participate, call Garima Bhatia, 935-6028 (office) or 863-8286 (home) or visit the "Work an Hour" website at <http://www.workanhour.com>.

### Volunteers sought

School of Medicine researchers continue to seek volunteers for a study evaluating how family health decisions are made. The study, funded by the National Institute on Aging, is recruiting women whose husbands (65 or older) have either heart or memory problems. Researchers

are looking for factors influencing wives' decisions to consult a health care provider, treat symptoms themselves, seek advice from relatives or friends or wait and observe symptoms.

Participants will be interviewed twice in their homes or at another convenient place and will be asked to fill out daily health checklists for two weeks. Each will receive a free one-hour consultation, a Community Resource Guide and a \$20 gratuity. For more information, call 286-1657.

### Winner!

Washington University has been singled out as a top school in five categories of Kaplan's 1999 Guidance Counselor survey. Kaplan surveyed guidance counselors from public and private high schools across the country to find out which colleges they recommend to their students and why.

The University was selected in the following categories: Schools for the Academically Competitive Student, Schools with the Best Co-op Programs, Schools with



Campus quiz: This fanciful creature gumbles through the ivy beside a Hilltop Campus doorway. Which one? (Clue: the ivy has prospered since this photo was taken.)

the Best Range of Extracurricular Activities, Schools Providing a Good Liberal Arts Education and Schools Representing the Best Value for Your Money.

The complete results of this national survey have just been published in Kaplan Newsweek College Catalog 2000, which also includes detailed admissions information, required admissions tests and financial aid deadlines.

Answer: Our fanciful friend lurks in the leaves beside the main south entrance to Wilson Hall.

"News Briefs" includes short items on a wide range of subjects, including information about resources, benefits and opportunities available to faculty and staff. Readers are invited to submit briefs, which will be used as space permits, to Betsy Rogers, Campus Box 1070, or by e-mail, [betsy\\_rogers@aismail.wustl.edu](mailto:betsy_rogers@aismail.wustl.edu).

## Record

Washington University community news

### News & Comments

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## Medical School Update

# Study halted; common therapy to prevent miscarriage isn't helpful

By LINDA SAGE

**A**widely used and expensive therapy that is supposed to prevent miscarriage doesn't work, a major study shows. The Recurrent Miscarriage Study (REMIS) found that women treated with immunotherapy had more and later miscarriages than those not receiving the treatment.

The findings appeared in the July 31 issue of *The Lancet*. "They show that mononuclear-cell immunization ought not to be used to treat miscarriage," said James R. Schreiber, M.D., professor and head of obstetrics and gynecology at the School of Medicine.

Thirteen years ago, Schreiber and Carole Ober, Ph.D., lead author of the paper and professor of human genetics and of obstetrics and gynecology at the University of Chicago, became concerned that women were being subjected to an untested and expensive therapy that might have untoward effects. With funding from the National Institutes of Health, they organized the gold standard of clinical trials — a prospective, randomized, double-blinded study.

"Physicians have to be willing to question what they do through very good clinical research," said Randall R. Odem, M.D., associate professor of obstetrics and gynecology and head of the medical school's Division of Reproductive Endocrinology. Odem also played a major role in the study.

Mononuclear-cell immunization — also called lymphocyte immunization — first was tried in humans in 1978. It now is offered

in private doctors' offices and medical centers throughout the world and costs many thousands of dollars.

The therapy is based on the idea that the placenta sometimes is recognized as foreign tissue because it contains genes from the father as well as the mother. Immune cells then destroy it, killing the fetus. Injections of mononuclear cells prepared from the father's blood therefore might elicit a protective immune response to help maintain the pregnancy. "But there's little underlying science that supports this idea," Schreiber said.

From July 1992 to December 1997, 179 women participated in REMIS, which was coordinated by the University of Chicago. Sixty-six participants were studied at the School of Medicine, 62 at the University

of Chicago and the others at the University of Utah School of Medicine in Salt Lake City and the University of British Columbia in Vancouver. The women had suffered at least three miscarriages but still wanted to conceive. Between 0.5 percent and 1 percent of couples — thousands in the United States — experience multiple miscarriage.

The women at each center were randomly assigned to one of two groups. Those in the treatment group were immunized with mononuclear cells from their partners. The control group received saline injections. All the women were given weekly ultrasounds to follow the progress of the pregnancy. The study's main goal was to determine the percentage of women in each group who subsequently managed to carry a

pregnancy to 28 weeks, the time at which a fetus can survive outside the womb.

Neither the researchers nor the participants knew who received mononuclear cells and who received saline. But a Data Monitoring and Safety Board kept track of the data. At the end of 1997, the board asked the researchers not to immunize any more women. "That phone call took my breath away," Schreiber said.

The data showed that 131 of the 179 women had become pregnant within 12 months of being assigned to a study group. Fifty-five percent of the 131 had

delivered a baby, and 45 percent had miscarried. Unexpectedly, only 46 percent of the treated women who became pregnant had a live baby, whereas 65 percent of the pregnant but untreated women were successful. Statistically, this difference was highly significant.

"We were looking to see whether immunotherapy was helpful," Odem said. "To our surprise, we found that the patients who were treated did worse than those who received the saline."

Women with a history of multiple miscarriage shouldn't be discouraged by the study's results,

Schreiber said, because 65 percent of the untreated women delivered a baby. The best strategy for these women is a weekly ultrasound, he suggested. That way, they can keep track of the baby's development.

Women with reproductive problems also need a careful work-up, Odem said. "There are many reasons for recurrent miscarriage — thyroid problems, ovarian dysfunction, uterine abnormalities, chromosome abnormalities," he said. "Many of these problems can be corrected."

But, Schreiber added, "We shouldn't be giving these women immunotherapy. This study clearly shows that it's ineffective."

**"We were looking to see whether immunotherapy was helpful. To our surprise, we found that the patients who were treated did worse than those who received the saline."**

RANDALL ODEM



**Reviving Forest Park Southeast** At a July 31 celebration of the Forest Park Southeast neighborhood, (from left) Beth Stohr, senior vice president of Mercantile Community Development Corp. Inc.; Bryan Young, president of the Forest Park Southeast Housing Corp. Board of Directors; William A. Peck, M.D., executive vice chancellor and dean of the School of Medicine; and I. Jerome Flance, M.D., special associate for community redevelopment at the medical school, break ground for two new houses. The neighborhood unveiled a master plan for revitalization that will include 17 new homes, renovation and re-opening of Adams School, a new elderly living facility and other improvements. The medical school and BJC Health System are supporting the revitalization project with a \$1 million donation.

# Drug treatment might help patients with abdominal aortic aneurysms

By LINDA SAGE

**A**School of Medicine pilot study suggests that doxycycline, an inexpensive and safe antibiotic, might help patients with abdominal aortic aneurysms, which kill at least 15,000 Americans each year. These aneurysms are weak areas in the wall of the body's main artery. At present, only surgery can prevent them from growing to the size at which they rupture and cause sudden death.

"If we had a drug therapy that could inhibit the enlargement of abdominal aortic aneurysms, we could shift the management of this condition to screening and aggressive treatment early on," said Robert W.

Thompson, M.D., associate professor of surgery, of radiology and of cell biology and physiology.

Thompson and postdoctoral fellow John A. Curci, M.D., recently presented their findings at the Society for Vascular Surgery's annual meeting in Washington, D.C.

Abdominal aortic aneurysms (AAAs) develop in 6 percent to 9 percent of people older than 65. Ninety-five percent of patients with ruptured AAAs die, including 50 percent to 70 percent of those who have emergency surgery. Preventive surgery can save patients whose aneurysms happen to be detected earlier, though it is

reserved for defects that have grown to a particularly large size. So a drug treatment that could prevent small aneurysms from enlarging could prevent thousands of operations and deaths each year.

AAAs arise in the large artery that carries blood from the heart to the abdomen. A weak area in the wall tends to enlarge and eventually to balloon out, like a rupturing inner tube. Blood then courses into the abdomen, killing within

**"If we had a drug therapy that could inhibit the enlargement of abdominal aortic aneurysms, we could shift the management of this condition to screening and aggressive treatment early on."**

ROBERT W. THOMPSON

hours or even minutes.

For the past seven years, Thompson's group has explored the relationship between enzymes called matrix metalloproteinases (MMPs) and abdominal aortic aneurysms. These protein-degrading enzymes are secreted by white cells called macrophages. Two MMPs — MMP-2 and MMP-9 — are under suspicion because they are much more abundant in aneurysm tissue than in a healthy artery wall. They also attack elastin, a protein that helps strengthen the wall, enabling it to withstand the force of the heart's pumping. "It is believed that the breakdown of elastin and another key protein,

collagen, allows an abdominal aortic aneurysm to form and then to grow," Thompson said.

He thought doxycycline might be a useful drug because this chemical cousin of tetracycline was known to inhibit MMPs — it now is being tested in clinical trials for patients with gingivitis, osteoarthritis and rheumatoid arthritis, three connective tissue diseases.

Encouraged by their years of laboratory studies, the researchers gave a one-week course of doxycycline to eight patients who were about to undergo preventive surgery for AAAs. The patients took 100 milligrams of the drug each morning and evening. After the operations, Curci analyzed aneurysm tissue that had been removed. He also

looked at similar specimens from seven AAA patients who did not take doxycycline.

The results revealed that doxycycline has several potentially therapeutic effects on aneurysm tissue in addition to its ability to inhibit the activity of MMPs. The aneurysm samples from the patients who had not taken the drug contained two and one-half times as much MMP-9 protein as those from the doxycycline-treated patients. And they contained five and one-half times as much messenger RNA for MMP-9. This messenger carries the blueprint for MMP-9 from the gene to the cellular machinery that makes the

enzyme. "So doxycycline decreases MMP-9 production," Curci said.

He also showed that the drug decreased the ability of cultured white cells to produce MMP-9 messenger RNA and MMP-9 protein.

Doxycycline had a different effect on MMP-2. Instead of decreasing its production, it inhibited its activation. Protein-degrading enzymes come with a "safety cap" that is removed only after they leave the cell. Curci determined that the aneurysm samples from the patients who had not taken doxycycline contained nearly one and one-half times as much of the active form of MMP-2 as the samples from the doxycycline-treated patients. "So in the body, doxycycline affects MMPs by

a complex mixture of mechanisms," Curci said.

The drug's effect on the two MMPs resembles a military campaign involving ground troops as well as air attacks. "So doxycycline may have a distinct advantage over drugs that act simply as MMP inhibitors. The idea of using a drug that employs several mechanisms in concert is very attractive," Thompson said.

A pilot study at the medical school and four other Midwest institutions now is testing the effects of a six-month course of doxycycline on the growth of AAAs. With those data, the researchers hope to persuade the National Institutes of Health to fund a clinical trial involving several hundred patients.

## Apply now for cancer research grants

**A**pplications now are being accepted for awards from the University's American Cancer Society Institutional Research Grant Committee (ACS-IRG). Applications are due by Sept. 15.

The program provides seed money for new projects initiated by junior faculty members.

Only instructors and assistant professors are eligible. Individuals who previously have received these awards or major grants from the National Institutes of Health, the National Science Foundation, the American Cancer Society or Veterans Affairs are not eligible. Applicants must be U.S. citizens or

have proof of permanent residency.

Each application should include a letter from the department chair vouching for the independence of the investigator. All new cancer-related research that will involve human subjects must first be reviewed and approved by the Cancer Center Protocol Review and Monitoring Committee. If studies depend entirely on ACS-IRG funding, approvals may be sought following award announcement.

For more information, investigators may call David B. Wilson, M.D., Ph.D., committee chair, at 454-2717.

# University Events

## 1999-2000 PAD season 'runs gamut' of theater and dance

By LIAM OTTEN

The Performing Arts Department (PAD) in Arts and Sciences has announced a 1999-2000 season that "runs the gamut" of theater offerings, according to Henry I. Schvey, Ph.D., professor and chair of the department.

"I think this will be one of our most versatile and balanced seasons," Schvey said. "It really runs the gamut from classical theater to contemporary drama and everything in between — a wonderful, fun musical, some tremendous events in dance and three student-directed plays. It will be a terrific stretch for our performers to work in such a variety of styles."

The season opens Sept. 9-11 in the Dance Studio with "Dance Close-Up," the PAD's annual showcase for dance faculty. Often considered the unofficial start of St. Louis' professional dance season, "Dance Close-Up" features faculty artists performing their own original choreography in styles ranging from modern to ballet, West African to Indian dance. Mary-Jean Cowell, director of the Dance Program, provides artistic direction.

The first drama of the season arrives Sept. 23-26 in the A.E. Hotchner Studio Theatre with "From Blood to Prayer: 2 Plays About Women and Sacrifice," an evening of contemporary one-acts. Robert Neblett, a doctoral student in comparative literature and drama, will direct Ellen McLaughlin's "Iphigenia and Other Daughters," a postmodern



Internationally renowned Shakespearean actress Jane Lapotaire with May 1999 graduate Jaclyn Pryor in "Hannah's Shawl," an original drama by Henry I. Schvey, Ph.D., chair of the Performing Arts Department (PAD). The play, which was commissioned by the St. Louis Holocaust Museum for Holocaust Remembrance Day April 13, will receive its first full production at the PAD in February 2000 in the A.E. Hotchner Studio Theatre.

retelling of the Orestes myth that focuses on the Greek women left behind during the Trojan War. Bonnie Taylor, also a doctoral student in comparative literature and drama, directs Hélène Cixous'

"The Conquest of the School at Madhubai," which tells the story of Sakundeva, the so-called "Bandit Queen" of India.

Gilbert and Sullivan's classic "The Pirates of Penzance" is the

fall mainstage production, opening in Edison Theatre Oct. 22-24 and 29-31. Directed by artist-in-residence Jeffery Matthews with musical direction from local composer William Whitney, this swashbuckling musical follows ex-pirate Frederic as he's forced to choose between his love for Mabel, the beautiful daughter of a "modern major-general," and his allegiance to the fearsome Pirate King.

Samuel Beckett's "Endgame," directed by Andrea Urice, artist in residence, concludes the fall semester Dec. 2-5 in the A.E. Hotchner Studio Theatre. A classic of absurdist drama, Beckett's circular and often darkly funny work strikes an appropriate note on which to end the millennium. Or, as the author himself would surely ask, does it?

The spring semester opens in the Dance Studio Jan. 28-30, 2000, with "Washington University Dance Theatre," an annual showcase for the PAD's finest student dancers. With artistic direction from Cowell and Christine O'Neal, artist in residence, the evening features students performing professionally choreographed pieces by faculty and guest artists. Offerings will include ballet, modern, jazz and world dance.

"Hannah's Shawl," a new drama written by Schvey, premieres in full production Feb. 17-20 in the A.E. Hotchner Studio Theatre and continues Feb. 24-26. Directed by Annamaria Pileggi, artist in residence, "Hannah's Shawl" examines the Holocaust's impact

as it plays out through three generations. Set in St. Louis in 1970, the story follows 17-year-old Hannah as she struggles to come to terms with her own adolescence while confronting the horrific experiences endured by her grandmother, mother and uncle in Auschwitz. The work was commissioned by the St. Louis Holocaust Museum, where it received its first performance on the occasion of Holocaust Remembrance Day April 13.

Molière's comedic masterpiece "The Imaginary Invalid" is the spring mainstage production, opening March 31-April 2 in Edison Theatre and continuing April 7-9. First performed in 1673, this satire — written in the last days of the playwright's life — takes a scalpel to hypochondriacs, the medical profession and health care quackery of all sorts. William Whitaker, artist in residence, will direct.

"gitanjali," by graduate student Sakena Abedin, concludes the season April 26-30 in the A.E. Hotchner Studio Theatre. A touching exploration of the mother/daughter relationship and its vulnerability to time, distance and cultural heritage, "gitanji" was the winner of the 1999 A. E. Hotchner Student Playwriting Competition, an annual contest endowed by playwright and alumnus A.E. Hotchner. Schvey and PAD senior Dana Friedman will direct the production.

For more information or to request a season brochure, call the PAD office, 935-5858. For tickets, call the Edison Theatre Box Office, 935-6543.

## Egyptian Mummies • Childhood Asthma • Taste of St. Louis • Choices 101

"University Events" lists a portion of the activities taking place at Washington University through Aug. 26. For a full listing of medical rounds and conferences, see the School of Medicine's website at [medschool.wustl.edu/events/](http://medschool.wustl.edu/events/). For an expanded Hilltop Campus calendar, go to [www.wustl.edu/thisweek/thisweek.html](http://www.wustl.edu/thisweek/thisweek.html).

### Exhibitions

"Structure and Surface: Contemporary Japanese Textiles." Through Aug. 15. Fiber arts by leading designers and fabricators. Sponsored by the Asian Art Society and the Joint Center for East Asian Studies. St. Louis Art Museum. 721-0072, ext. 204.

"Grotesques Glass Graham: Marriage of Masonry." Through Oct. 8. The architecture of Graham Chapel. Fifth floor, Olin Library. 935-5583.

"Affinity of Form: African and Modern European Art." Aug. 27 through Oct. 24. Gallery of Art. 935-4523.

"Coins from St. Louis Collections." Aug. 27 through Dec. 12. Gallery of Art. 935-4512.

"Egyptian Mummies: Pet Menekh and Henut-Wedjebu." Aug. 27 through Dec. 12. Gallery of Art. 935-4523.

### Lectures

Friday, Aug. 20

9:15 a.m. Pediatric Grand Rounds. "Childhood Asthma Management Program: Baseline Data on Correlates of Hospitalization and Nocturnal Asthma." Robert C. Strunk, prof. of pediatrics, and Leonard Bacharier, instructor in pediatrics and medicine. Clopton Aud., 4950 Children's Place. 454-6006.

### Orientation

The following events are part of orientation for new students. For further information, call 935-6679.

Thursday, Aug. 19

8 a.m.-5 p.m. New student check-in. Residence halls.

11 a.m.-4 p.m. Campus tours. Information desks in Mallinckrodt and Wohl centers.

7:30-9 p.m. Convocation. The first gathering of the Class of 2003. Athletic Complex.

9-10 p.m. Celebration on the Quad. The chancellor's procession from the Athletic Complex to Brookings Quadrangle for entertainment and a "taste" of St. Louis.

Friday, Aug. 20

1-3 p.m. Departmental open houses. Opportunity to meet with faculty and staff and learn more about the curriculum.

11 p.m.-1 a.m. Club 40 Dance. Second floor, Wohl Center.

Saturday, Aug. 21

4:30-6 p.m. Bears, BBQ and Fun. Watch the Battling Bears football team in action in an intra-squad scrimmage between the freshman and varsity teams. BBQ dinner during the game. Francis Field.

7 and 8:30 p.m. Choices 101 — An introduction to the first year experience. Skits presented by upper-class students. Edison Theatre, Mallinckrodt Center. 935-6500.

8 and 9 p.m. Making Choices. Upper-class students will lead a discussion about the Choices 101 program.

Sunday, Aug. 22

1-5 p.m. John M. Olin School of Business advising meetings. Rooms 107-110, Simon Hall. 935-6315.

1-3 p.m. Transfer bus tour of St. Louis. Help in finding the necessities for living in St. Louis. Brookings Hall steps.

4-6 p.m. Engineering academic and peer advising meetings. Lopata Gallery, Lopata Hall. 935-6100.

4:30-6 p.m. Arts and Sciences academic advising meeting. (Refer to the dean's letter for meeting locations.) 935-6800.

8-11 p.m. Evening of fun at the Science Center. St. Louis Science Center, 5050 Oakland Ave.

Monday, Aug. 23

8:30 a.m.-4 p.m. Academic advising appointments, various schools. (Refer to deans' letters for meeting locations.)

8:30 a.m.-5 p.m. Academic registration.

9 a.m.-4 p.m. Library tours. Help desk, Olin Library.

Tuesday, Aug. 24

8:30 a.m.-4 p.m. Academic advising appointments, various schools. (Refer to deans' letters for meeting locations.)

8:30 a.m.-5 p.m. Academic registration.

9 a.m.-2 p.m. Library tours. Help desk, Olin Library.

4-5 p.m. Art faculty slide show. School of Art faculty will show slides and discuss their work. Steinberg Hall Aud. 935-6500.

7-9 p.m. Performing Arts Open House. For students interested in drama, film and dance. Edison Theatre, Mallinckrodt Center.

Friday, Aug. 27

2-10 p.m. First Friday. The first all-campus social event. Carnival games, talent showcase and a comedienne. Bowles Plaza and Women's Building lawn.

### And more...

Friday, Aug. 20

2 p.m. Russian dept. presentation. "Cyrillic in 60 Minutes." Room 122 S. Ridgley Hall. 935-5177.

## Mark Weil to head new Visual Arts and Design Center

By LIAM OTTEN

Mark S. Weil, Ph.D., the E. Desmond Lee Professor for Collaboration in the Arts and director of the Washington University Gallery of Art, has been appointed director of the University's new Visual Arts and Design Center (VADC), according to Chancellor Mark S. Wrighton. Weil has served as a member of the VADC's executive committee since its formation in 1996.

"Professor Weil already has made distinguished contributions to the development of the Visual Arts and Design Center, both in the development of programs and the plans for facilities," Wrighton said. "I am grateful for Mark's commitment in taking on this important role. I am confident he will do an outstanding job."

Said Weil: "I am honored by Chancellor Wrighton's confidence in me. I look forward to working with the other members of the

VADC Executive Committee in continuing to organize a strong interdisciplinary center and to construct the facilities that will house it."

Weil is a noted scholar of Italian Renaissance and baroque art and architecture. He has written widely on Italian baroque sculpture,

16th- and 17th-century garden and stage design, "The Age of the Marvelous" and connoisseurship, and is the author of "The History and Decoration of the Ponte S. Angelo" (1974). In 1983, Weil organized the exhibition "Baroque Theatre and Stage Design" for the Gallery of Art; in 1989 he collaborated with Roger Ward, curator of



Weil: Renaissance and baroque art scholar

the Nelson-Atkins Museum of Art, on the exhibition "Master Drawings from the Nelson-Atkins Museum of Art," which also debuted at the gallery.

In 1990-91, Weil was one of several scholars to work with the Hood Museum at Dartmouth College in mounting the exhibition "The Age of the Marvelous," for which he also contributed an essay to the exhibition catalog. During the same years, Weil helped curate the exhibition "German Renaissance Prints from St. Louis Collections" for the St. Louis Art Museum.

Weil joined the University faculty in 1968. An alumnus, he received a bachelor's degree in art history here in 1961 before going on to earn a master's degree and doctorate, both also in art history, from Columbia University in 1964 and 1968, respectively. He has served twice as chair of the Department of Art

History and Archaeology in Arts and Sciences — first from 1982 to 1988 and again from 1995 to July of this year.

The VADC's physical facilities are currently being designed by the internationally renowned architect Fumihiko Maki, with University alumnus Harish Shaw of RMW Architects + Design in San Francisco serving as project architect. The new facilities will link five University areas — the School of Art, School of Architecture, Department of Art History and Archaeology in Arts and Sciences, Gallery of Art and the Art and Architecture Library — to enhance interdisciplinary collaboration. Plans include the construction of a new building, which will house the Gallery of Art and some departments from the School of Art, as well as the renovation and modernization of the three existing visual arts buildings, Bixby, Steinberg and Givens halls.

## 'Dual Muse' proceedings collected in new volume

**T**he Dual Muse: The Writer as Artist, the Artist as Writer" has been released by John Benjamins Publishing Co., Amsterdam. The volume is edited by William H. Gass, Ph.D., the David May Distinguished University Professor Emeritus and director of the International Writers Center in Arts and Sciences, and by Lorin Cuoco, the center's associate director.

The new book collects the proceedings of "The Dual Muse" conference, presented by the International Writers Center in 1997 in conjunction with an exhibition at the University's Gallery of Art.

The book features essays by four world-renowned artists and writers: Derek Walcott, a Nobel Laureate poet and watercolorist from the West Indies; Breyten Breytenbach, a writer and painter from South Africa; Jennifer Bartlett, a New York novelist and painter; and Tom Phillips, an English artist and writer-translator. Also included are edited transcripts of the panel discussions that followed each of the featured essays, as well as a number of artworks created especially for the event.

At the conference, Walcott stunned the audience by presenting a major new poem, "Tiepolo's Hound," in which he recounted his own history as an artist and mused on some of the artworks that have influenced him. Several of these — including paintings by

Camille Pissarro, Paolo Veronese and Paul Cezanne — are reproduced alongside Walcott's text.

In all, the book features 18 black and white reproductions as well as eight color plates of works produced especially for the event. These include five illustrations by Phillips on the theme of the muse, done in the style of his celebrated volume "A Humument," and three photolithographs (one each by Breytenbach, Phillips and Bartlett) that were created in collaboration with the Washington University School of Art's Island Press.

"The Dual Muse" retails for \$35 and is available through most bookstores, including the University's Campus Store, and online through Amazon.com. The book is designed as a companion volume to the previously published exhibition catalog, also released by John Benjamins Publishers, which features 40 color and 40 black-and-white illustrations along with essays by Gass and Drucker and an introduction by Homburg.

Other books from the International Writers Center include "A Temple of Texts" (1991), "The Writer in Politics" (1996), "The Writer and Religion," forthcoming in 2000, and "Literary St. Louis: A Guide," also to be published in 2000.

For more information, call the center at 935-5576.

## Central computer systems are clear for Y2K takeoff

**A**s the sands of the old millennium drain to the bottom of the glass, concern about Year 2000 (Y2K) computer problems acquire increasing personal as well as professional urgency.

Will I have power at my house? Should I fly during the holidays? Will my bank account be all right? Should I have cash on hand? Will my paycheck be issued? — and if so, will my bank deposit it?

The University's Computing and Information Systems Office can't answer all these questions, but it has been working hard since November 1996 to see that central administrative systems on campus are ready and waiting for Y2K, according to Director Bill Smith.

His staff have reviewed millions of lines of computer code, Smith said. They also are working with outside partners with whom the University conducts electronic business and putting contingency plans in place so that any overlooked problems can be corrected quickly.

"All the computer programs have been changed," Smith said. "They've been tested to make sure they work in today's date period and moved into production. Most — about 90 percent of all critical programs — have been tested with year 2000 dates." These include payroll, check requests, accounting, financial aid, student information, purchasing, alumni services and others.

Smith said all the signs indicate that the plan is successful.

"In reality," he noted, "the central administration computer systems would already have begun to experience problems if the required changes had not been made. The University started fiscal year 2000 processing in April 1999 for functions like personnel appointments and new year

accounting. We avoided problems because the necessary program changes were already in place.

"The fact that there have been no serious Y2K problems so far is evidence to us that our process is working," he said. But his office is not letting its guard down. "We do have a contingency plan in place that will assign a 'swat team' for any unanticipated problems that do arise," he added.

The bottom line? "Yes, you will get a paycheck in January 2000," he said, "and if you have direct deposit, it will get deposited. The banks have assured us of that."



Central players in the development of the Donald Danforth Plant Science Center, (from left) Roger N. Beachy, Ph.D., William H. Danforth, John Danforth and Peter H. Raven, Ph.D., discuss plans for the new facility.

## Center

*Friends and dignitaries celebrate groundbreaking*

— from page 1

some of the most talented and interactive plant scientists in the world in an independent institution; the second part is to make the St. Louis region a world leader in the study of plants and agriculture; the third is to develop practical applications at the center that will benefit the entire world; and the fourth is to bring scientists from around the globe to the center to take back new techniques that will benefit their homelands.

The National Science Foundation is expected to be one of the major funding sources for the center. NSF Director Colwell noted that within a 500-mile radius of St. Louis are 54 percent of the country's crop production and 50 percent of the crop acreage, an area she referred to as a "field of dreams." She said: "In the 21st century, advances in plant

science will be a major mechanism for improving quality of life. There can be no better center for plant science."

Center Director Roger N. Beachy, Ph.D., said that when the center becomes operational in 2001, he expects 100 scientists to be working there, with 100 more involved by 2002. Beachy said that the center will bring new resources to St. Louis in research funding and business opportunities and "new economic development focused on the strength of the life sciences in St. Louis."

The center's \$146 million in start-up money comes from the Danforth Foundation, Monsanto Co. and the Monsanto Fund, and the state of Missouri. Washington University, the Missouri Botanical Garden, Monsanto, the University of Missouri, Purdue University and the University of Illinois are partners in the effort.

Bond has been a supporter of biotechnology research and is chairman of the Senate subcommittee that funds NSF and other agencies. He called the event "a day of celebration," but cautioned that critics of biologically altered

food in Europe and elsewhere are vocal and are spilling over to the United States. He urged the scientists at the Danforth Center to "work to make sure that consumers understand the benefits" of the new technologies and "be vigilant to correct publicly those who are not careful with the facts."

Ralph S. Quatrano, Ph.D., Spencer T. Olin Professor in Arts and Sciences and chair of the biology department, is a renowned plant scientist who foresees great benefits from the center.

"I'm extremely excited about both the scientific and educational possibilities that the Danforth Plant Science Center will provide," said Quatrano. "There will be interdisciplinary opportunities, postdoctoral and adjunct faculty appointments, and of course a good number of our own biologists will be working there. There will be a constant infusion of new ideas and people. This will greatly enhance plant science expertise in the St. Louis area, and it will be an outstanding advantage for our students."

## Hanson

*Wins Distinguished Young Scholar Award*

— from page 1

neurobiology," William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school, said. "We are thrilled to have the W. M. Keck Foundation recognize one of the medical school's and the nation's

outstanding young scientists as a future leader in this field."

Hanson studies the molecular machinery that neurons use to communicate. The machinery permits the release of sacs of chemical signals so one neuron can talk with neighboring neurons. Hanson will determine how membrane-associated proteins direct these sacs to release their cargo and then to reform. The work could one day suggest treatments for some neuromuscular, neurologic and psychiatric

disorders that result from faulty communication between neurons.

Using biochemical and imaging techniques, Hanson will visualize how proteins called SNAREs tether a storage sac to the inner face of the membrane that forms a neuron's surface. During this process, one type of SNARE jutting from a sac's surface interacts with similar tethering proteins at the cell's surface. When the SNAREs entwine, the sac can momentarily fuse with the surface membrane to dump the chemical cargo. These studies might clarify when the tethering proteins act during the fusion of the two membranes. And they might reveal other factors needed for fusion or reversal of this process.

Hanson graduated magna cum laude from Yale University in 1985 with a major in molecular biophysics and biochemistry. She then received medical and doctoral degrees from Stanford University in 1993. She returned to Yale for a postdoctoral fellowship before joining Washington University in 1997.

Hanson has held a three-year Helen Hay Whitney Foundation award as a postdoctoral fellow. As a faculty member at the medical school, she also has received a Scholar Award from the McKnight Endowment Fund for Neuroscience, a Searle Scholar Award from the Chicago Community Trust and a fellowship from the Alfred P. Sloan Foundation.

The Keck Foundation, one of the nation's largest philanthropic organizations, was founded in 1954 by the late W.M. Keck, founder of the Superior Oil Company. The Foundation's grants primarily support pioneering efforts in medical research, science, engineering and higher education.



**Lifelong learning** Author and feminist Betty Friedan (seated) greets conferees — including Jane Kahn (left), Joan Delbringge (center) and Frances Franklin from the University's Lifelong Learning Institute — at the 10th anniversary conference of the Elderhostel Institute Network in Washington, D.C., this summer. The three were among 10 institute members who attended the event along with Richard Diemer, institute coordinator. The institute's Saul Boyarsky, M.D.; Henrietta Freedman; Lawrence Kahn, M.D.; and Diemer were conference presenters. In all, about 550 people from 159 Institutes for Learning in Retirement took part.

## Outreach

### Summer programs offer many opportunities

— from page 1

experiences into curriculum development and sharing with their colleagues at professional meetings. We think the program is effective in reaching young scientists and illuminating their teachers on ways to incorporate research into secondary teaching."

Faculty and St. Louis industrial professionals regularly addressed different aspects of science and technology careers in the career discussion series.

Washington University mentors were: Muthanna Al-Dahhan, D.Sc., assistant professor of chemical engineering; Shirley J. Dyke, Ph.D., assistant professor of civil engineering; Patrick C. Gibbons, Ph.D., professor of physics in Arts and Sciences; Stan Kwasny, Ph.D., senior research associate in computer science; Ronald P. Loui, Ph.D., associate professor of computer science; Julie Morris, Ph.D., research associate in earth and planetary sciences in Arts and Sciences; J. Gail Neely, M.D., professor of otolaryngology; Joseph L. Price, Ph.D., professor of anatomy and neurobiology; and Paul A. Schlesinger, M.D., associate professor of cell biology and physiology.

Theodosios Korakianitis, Sc.D., associate professor of mechanical engineering, was not a faculty mentor but lent his expertise to STARS by opening his combustion engine laboratory to students

from Vashon High School. Their teacher, Ray Cummings, was a STARS participant working with mentor Charles Granger, Ph.D., biology education professor at the University of Missouri-St. Louis.

"I'm working on developing an entire curriculum based upon one straightforward technology, and I chose the internal combustion engine," Cummings said. "It's very helpful getting background from the Washington University faculty."

Dyke participated in two outreach programs this summer. She mentored STARS participant Tim Huegerich of St. Louis University High School in an earthquake engineering project. She also directed eight students from colleges and universities nationwide in the NSF Research Experiences for Undergraduates (REU) program.

For five years, the NSF has funded a program in civil engineering's structural engineering division that brings undergraduate students to campus for 10 weeks of intensive summer research in areas of interest. Students receive a stipend for their contributions and live at Olin Hall on the Medical Campus.

Beyond conducting research, the undergraduate students took part in activities that enhanced their communication skills (including having their oral presentations videotaped), received an introduction to ethics and visited area industries to observe engineers working in different environments. The program concluded Friday, Aug. 6, with the Washington University Undergraduate Research Colloquium, where students presented

the final results of their projects.

"This was a very bright, industrious group of students who accomplished a tremendous amount of work in a short time," Dyke said.

Over at the Life Sciences Building and Rebstock Hall, 21 St. Louis County and City science teachers received instruction in the Science Outreach Modern Genetics Program by Victoria L. May, Outreach Director in the Department of Biology in Arts and Sciences, and Gary Corbin, Genetics Program Coordinator. The curriculum, supported by HHMI, is a collection of experiments, activities and lessons that have been developed over the past six years by May; former Outreach Coordinator Cynthia Moore, Ph.D.; and Professor of Biology David L. Kirk, Ph.D. Since 1994, teachers from area suburban and city schools have attended the two-week workshop to familiarize themselves with the curriculum and then implement it in their classrooms.

The high school teachers learned hands-on approaches to molecular biology, cell biology, genetic engineering and biotechnology, and they were treated to guest lectures by Kirk; H. Mark Johnston, M.D., professor of genetics; Doug Johnson, Ph.D., medical research technologist with the Genome Sequencing Center; and Moore, now a biology professor at Illinois State University.

"Genetics used to be boring, but now it's exciting with a curriculum like this," said Loretha Allen, science department head at Beaumont High School and a 32-year teaching veteran. "None of the biology we learn here was in



Victoria May, Biology Outreach Director, and Amy Kadner, biology teacher at Webster Groves High School, discuss "fast plants," which can be raised from seed to pollination in just 36 days. Kadner was one of 21 St. Louis County and City science teachers to learn curriculum tips in the Science Outreach Modern Genetics program.

textbooks when I was an undergraduate. This is a lifesaver for teachers of biology."

The genetics curriculum now is a part of science programs in Jennings, St. Louis Public, University City, Parkway Central, Webster Groves, Pacific and Washington high schools. Of the 40 biology teachers in the 11 St. Louis public high schools, 20 have participated in the genetics course. The total number of St. Louis city and county teachers

using the materials is 46, and they are instructing approximately 5,500 students.

"It's been gratifying to see the program grow as it has, to see the excitement of new teachers applying the curriculum and to see some of the ones we've had before come back," May said. "We want to continue to reach more students and teachers and enhance the activities to make genetics approachable, understandable and fun."

## Choi

### Project will research spinal cord repair

— from page 1

stages. We believe that Washington University, with its long tradition of neuroscience, neurosurgery and rehabilitation research, will become one of the leading spinal cord injury centers in the world."

More than 500,000 Americans are paralyzed from injury to the spinal cord, and there are about 20,000 new injuries each

year. "The time is right for us to focus our attention on this terrible problem, both because of the human toll it exacts and because science has brought us to the point where a solution is possible," Choi said.

Because the spinal cord does not repair itself, the best hope for restoring lost functions lies in replacing lost tissue. Fetal cells have been used in animals, but ethical concerns and the limited availability of such cells limit practical application in humans. "We feel that embryonic stem cells may be the best source of cells to replenish cells lost from the spinal cord," said

John McDonald, M.D., Ph.D., assistant professor of neurology and director of the medical center's new Spinal Cord Injury Unit.

Over the past two years, McDonald, Choi and David I. Gottlieb, Ph.D., professor of neurobiology and associate professor of biochemistry and biophysics, have conducted the initial studies that led to the current project. The pioneering work showed that cultured rodent embryonic stem cells can be chemically instructed to develop into nerve cell precursors suitable for transplantation into the injured spinal cord.

Embryonic stem cells are the raw material of the body, able to develop into all of the cell types needed to make a human being. Because they can reproduce themselves indefinitely, a single cell line theoretically could provide transplants for many patients. Therefore, a continual source of embryos would not be required.

Embryonic stem cells also are very amenable to genetic modification,

so they could carry genes that would make a transplant more likely to succeed. Combining genetic modification with transplantation will be one of the novel features of the current

apoptosis in nerve cell precursors, destroying them over days or weeks. He is the Norman J. Stupp Professor of Neurology, professor of molecular biology and pharmacology and co-director of the Alzheimer's Disease Research Center.

McDonald will apply insights from these two projects to transplantation studies, again using rats. "We will determine whether interventions that enhance the survival of cultured embryonic stem cells also promote the survival of the cells after

transplantation," he said. "Then we will determine whether increased survival translates into enhanced function."

In the fourth project, Mark F. Jacquin, Ph.D., research professor of neurology, and colleagues will use anatomical and physiological methods to determine whether cell transplantation restores electrical circuits from the injured part of the spinal cord. They also will find out whether the transplanted cells must integrate themselves into these circuits for functional recovery to occur.

Gottlieb; David H. Gutmann, M.D., Ph.D., associate professor of neurology, genetics and pediatrics; and Chung Hsu, M.D., Ph.D., professor of neurology, also are co-investigators. Hsu will oversee studies of functional changes after transplantation; Gottlieb and Gutmann will genetically engineer the transplantable cells. "We hope our work will offer a new paradigm for how best to use embryonic stem cells for transplantation," Gottlieb said. "Our aim is to advance the science of embryonic stem cell genetic engineering to make it much more efficient and accessible."

The researchers see applications of their work to many neurological conditions. "The need to promote recovery of function is common to all diseases that damage the brain and spinal cord," Choi said. "Developing treatments to help people who already have sustained damage to the central nervous system is a great frontier in clinical neurology and neurosurgery."

## Employment

Use the World Wide Web to obtain complete job descriptions. Go to [cf6000.wustl.edu/hr/home](http://cf6000.wustl.edu/hr/home) (Hilltop) or [medicine.wustl.edu/wumshr](http://medicine.wustl.edu/wumshr) (Medical).

### Hilltop Campus

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

Researcher 990242

Gift Accountant

990244

Department Secretary

990269

Director/Executive

Faculty Liaison

990280

Computer Support

Specialist 990283

Writing Lab Director

990298

Department Secretary

990303

Assistant Director,

Annual Giving 990306

Assistant Director of

Career Services

990312

Administrative

Secretary 990315

Administrative

Coordinator 990316

Correspondence

Secretary (part time)

990317

Curator, Modern

Literature Collection

990318

Administrative

Secretary 990320

Administrative

Assistant 990336

Senior Project Leader

990340

Assistant 990346

Lab Mechanic 990355

Administrative

Assistant 990356

Administrative

Assistant 990357

Office Manager/

Grants Specialist

990359

Administrative

Assistant I 990360

Administrative

Assistant 990362

Engineering Librarian

990364

Assistant Auditor

990367

Counselor 990368

Investment Analyst

990369

Assistant to the Dean

and Vice Chancellor

990372

Career Development

Specialist 990373

Career Development

Specialist 990374

Research Technician

000003/Grants and

Accounts Specialist

000004

Administrative Aide

000005

Accountant 000009

Counselor 000014

Assistant Director of

MBA Admissions

000017

Library Technical

Assistant 000021

Legal Clinic

Coordinator 000022

Receptionist (part

time) 000024

Administrative

Assistant 000025

Admissions

Coordinator/

Counselor 000027

Administrative

Assistant 000028

Accounting Clerk

000029

Mailroom Supervisor

000032

Administrative Aide

000033

Systems

Programmer I 000034

Assistant Crew Coach

000036

Assistant Director

Publications and

Advertising 000038

Department Secretary

000041

University

Communications

Secretary 000042

Department Secretary

000044

Administrative

Secretary 000045

Senior Research

000046

Assistant Graphic

Designer 000047

Public Service

Coordinator/

Administrative

Secretary 000048

Office Manager

000052

### Medical Campus

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

Certified Coder

991200

Research Administra-

tor 991436

Driver 991471

Coding Coordinator

991492

Supervisor, Insurance

Billing and

Collections 991510

Nurse Practitioner

991525

Certified Coder

991587

Manager, Graduate

Student Coordinators

991637

Systems Manager

991742

Medical Records

Clerk 991743

Health Physics

Technologist II

991750

## Campus Watch

The following incidents were reported to University Police from July 12-Aug. 8. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Website at [rescomp.wustl.edu/~wupd](http://rescomp.wustl.edu/~wupd).

### July 14

12:57 p.m. — A student reported that someone stole a computer, valued at \$2,000, from a room in Fraternity No. 9.

### July 20

3:51 p.m. — A computer was stolen from Room 302 Crow Hall.

### July 30

9:46 a.m. — A staff member reported that someone stole an air conditioner from Room 10 Sever Hall.

### Aug. 2

2:31 p.m. — A 25-inch television, valued at \$400, was stolen from the first floor lounge area of Beaumont Residence Hall.

University Police also responded to 17 additional reports of theft, six public disturbance reports, five lost articles reports, three auto accidents and one report each of a disturbance, telephone harassment, a burglary, a fire alarm, tampering and a suspicious person.

## Notables

### Of note

**Anne L. Glowinski, M.D.**, instructor in child psychiatry and post-doctoral fellow in psychiatric epidemiology, has been awarded a Klingenstein Third Generation Foundation Fellowship in Depression. The two-year \$60,000 grant will support Glowinski's research studying psychopathology in children and adolescents, through a systematic analysis of depressive syndromes in a population of young female twin adolescents at risk for major depressive disorder. ...

**Peggy A. Neufeld**, instructor in the Program in Occupational Therapy, received the Berlex Award for the Best Paper Presentation in Patient Education at the annual conference of the Consortium of Multiple Sclerosis Centers (CMSC), held recently in Kansas City. The conference is attended by international and interdisciplinary participants. ...

**Krovvidi S.R. SivaSai**, Ph.D., research associate in the Department of Surgery, recently received a Transplant Research Fellowship Award and a one-year fellowship of \$40,000 from the International Society for Heart and Lung Transplantation. The award was for a research project titled "Indirect Recognition of Donor HLA Peptides and Its Role in the Pathogenesis of Bronchiolitis Obliterans Syndrome in Lung Transplant Recipients," which was presented at the society's annual meeting in San Francisco. ...

**Salvatore P. Sutera**, Ph.D., the Spencer T. Olin Professor of Biomedical Engineering, has been selected to receive the 1999 UNICO National Guglielmo Marconi Science Award. UNICO ("unique" in Italian) is the largest Italian service organization in the

United States. The award was established to recognize Italian Americans who have excelled in the sciences. Sutera will receive the award at UNICO's National Midwestern Regional Meeting, to be held Sept. 25 at the Adam's Mark Hotel in St. Louis. ...

**Virgil Terrell**, supervisor of housekeeping in the Department of Pediatrics, was selected by the Cleaning Management Institute as 1999 Custodial Supervisor of the Year. The award was presented to him in June at the Cleaning Management Educational Conference in San Francisco.

### Speaking of

**Matthew K. Arthur**, associate director of residential computing, recently hosted a panel discussion on "Automated Registration for Student In-room Data Connections" at the ResNet '99 Symposium, held at Kent University in Kent, Ohio. ...

**Dana L. Beth**, art and architecture librarian, and **Deborah K. Ultan**, reference/subject librarian for art and architecture, recently presented a paper titled "Digital Image Technology in the Classroom: A Model for Implementation" at the Art Museum Image Consortium (AMICO) University Testbed Research Meeting at Carnegie Mellon University in Pittsburgh. The paper presents a model highlighting the shared funding and points of collaboration that were needed to begin introducing digital technology, in particular AMICO, into the visual arts curriculum at Washington University. In addition, it describes specific projects implemented during the testbed and discusses issues that need to be addressed at the organizational level. ...

**Susan M. Binzer**, coordinator and rehabilitative audiologist for the Hearing Rehabilitation and Cochlear Implant Program in the Department of Otolaryngology, and **Laura K. Holden**, research audiologist, recently presented results of their work with the Hearing Rehabilitation and Cochlear Implant Program at the American Academy of Audiology Annual Convention in Miami. Binzer participated in a panel discussion on the need, value and methods of maximizing cochlear implant recipients' benefits from the device. Holden was invited to present her research with advanced processing strategies of the Nucleus 24 Cochlear Implant System. ...

**Stephen H. Legomsky, J.D.**, D.Phil., the Charles F. Nagel Professor of International and Comparative Law, recently delivered the annual John C. Paulus lecture at Willamette University in Salem, Ore. He also has spoken on various migration and refugee issues at conferences organized by Georgetown University, Southern Methodist University, the University of Miami and the Center for Migration Studies in Washington. In addition, he recently gave a luncheon address at a workshop at the City University of New York. ...

**Daniel R. Mandelker, LL.B.**, J.S.D., the Howard A. Stamper



**Honors** Chancellor Mark S. Wrighton (left), gives U.S. Sen. Christopher "Kit" Bond the Science Coalition's Langer Award for Bond's steadfast support of research funding. U.S. Rep. Richard Gephardt, who was not present, also received the award from the coalition, which is made up of 400 organizations, institutions and individuals who advocate research support. Bond received the award on Aug. 2.

Professor of Law, made presentations on land-use law at a conference of state hearing examiners in Washington state; at the annual conference of the Federalist Society in Washington, D.C.; and at a conference on wetlands preservation in St. Louis. He also made presentations on growth management techniques at

a conference at the William and Mary School of Law.

#### Guidelines for submitting copy:

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

## Clover named associate dean of business school

**William H. Clover, Ph.D.**, an organizational consultant, former corporate director of learning, former professor and retired career officer in the U.S. Air Force, has been appointed associate dean and Vernon W. Piper Director of Executive Education at the John M. Olin School of Business.

Clover will oversee all executive programs, including degree and nondegree programs. Degree programs include the executive MBA, the executive master of

chief learning officer in charge of all nontechnical education at Amoco Oil Co., director of the company's Management Learning Center, and director of executive education and leadership development for TRW Inc.

From 1968 to 1989 he served in the U.S. Air Force, retiring as lieutenant colonel. While in the Air Force, Clover taught behavioral sciences and leadership and was director of the psychology division and of the Cadet Counseling and Leadership Center.

He also was adjunct associate professor in the School of Business at the University of Colorado in Colorado Springs, and for five years he provided executive coaching and feedback through the Center for Creative Leadership in Colorado Springs.

Clover earned a doctorate in industrial psychology from Bowling Green State University in Bowling Green, Ohio, a master of arts degree in psychology from St. Mary's University in San Antonio, and a bachelor of arts degree in psychology from Southern Illinois University at Edwardsville.

He is a member of the American Psychological Association, the Society of Industrial and Organizational Psychologists, the Organization Development Network and the Conference Board. He serves on the editorial board of Human Resource Management Journal and has been published in The Human Resources Professional and other journals.

## Gibson

### Named to Souers chair in government

— from page 1

"We at Washington University are pleased to be able to attract Professor Gibson to join us as a distinguished member of our faculty in the Department of Political Science," Chancellor Mark S. Wrighton said. "Appointment to a named professorship signals his very high standing in the academic community. Endowed professorships assist in attracting and retaining the most outstanding faculty, and we are fortunate to be able to award the Souers professorship to Jim Gibson."

Gibson is a noted expert in judicial politics, political parties, the democratization of emerging countries, comparative politics, public opinion and several other political science fields. His teaching interests are broad and include courses on the judicial

process, law and research methods.

"I am delighted that Jim will be joining our political science department," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences. "His expertise will fill gaps in our department as well as reinforce existing strengths, and I look forward to many years of working with him. His important research and great teaching will be a wonderful addition to Arts and Sciences."

Gibson earned two political science degrees from the University of Iowa, a master's in 1973 and a doctorate in 1975. He received a bachelor's in political science from Emory University in 1972.

A specialist in survey research, Gibson has examined such issues as mass behavior and democratization in the United States, Europe and Africa. His research explores why people think the way they do about political issues (especially political tolerance) and how such thinking translates into public policy and democratic reform. He is the author of four books and more than 80 articles, including

publications in all of the leading national and international journals in his field.

Gibson is the immediate past president of the Midwest Political Science Association. Until recently, he served on the main policy advisory board of the National Science Foundation's Directorate for Social, Behavioral and Economic Sciences. He has served on the editorial boards of many political science journals, including a long tenure as associate editor of the Law and Society Review.

The Sidney W. Souers Professorship in Government is the second chair created by a 1982 gift from Sylvia N. Souers to honor her late husband and to carry on his dedication to public affairs and government service. Sidney Souers was the second director of the U.S. Central Intelligence Agency.

John Sprague, Sidney W. Souers Professor in Government, was named to the first of these professorships in March 1997, succeeding Robert H. Salisbury, Sidney W. Souers Professor Emeritus of Government.

## Weidenbaum to lead U.S. commission

**Murray L. Weidenbaum**, Ph.D., the Edward Mallinckrodt Distinguished University Professor and director of the Center for the Study of American Business (CSAB), has been elected chairman of the U.S. Trade Deficit Review Commission.

The commission, which includes six Republicans and six Democrats, was appointed by Congress to examine the causes and consequences of the U.S. trade deficit. In 1998, the U.S. current account deficit reached a record high of \$227 billion.

At the commission's first public meeting, to be held Aug. 19 in Washington, D.C., representatives of various think tanks will present their analyses of the causes of the trade deficit. A series of regional public hearings will provide the opportunity for obtaining the views of business, labor and other interest groups. The commission is expected to provide the president and Congress with a report on its findings and recommendations by August 2000.

The commission is comprised

of public policy experts drawn from a wide range of backgrounds, including business, government, academia and a labor union. Weidenbaum has been an economist in three worlds — business, government and academia.

Known for his research on economic policy, taxes, government spending and regulation, he is the author of eight books and hundreds of academic articles.

A member of the economics faculty here since 1964, he served previously as a fiscal economist in the U.S. Bureau of the Budget and as the corporate economist at Boeing Co. He is a member of the boards of directors of the Harbour Group, Tesoro Petroleum Corp. and Center for Strategic and International Studies.

As chairman of President

Reagan's Council of Economic Advisers from 1981 to 1982, he helped formulate the economic policy of the Reagan administration and was a key spokesman on economic and financial issues. During the years 1982–1989, he was a member of the President's Economic Policy Advisory Board. He also served as the nation's first Assistant Secretary of the Treasury for Economic Policy from 1969 to 1971.

Because the commission is a part-time position, Weidenbaum will continue to teach and to serve at the CSAB. Based at Washington University since its formation in 1975, CSAB is an internationally recognized not-for-profit research institute conducting scholarly research on issues affecting the American business system. Weidenbaum helped found the center and has served as its director for much of the last two decades. He became CSAB chairman in 1995, but recently agreed to resume his role as director while the University conducts a nationwide search for a successor.



**Clover:** Will oversee all executive programs

designed to a company's specifications, as well as open-enrollment programs offered to executives of varied companies.

"Bill has a wealth of invaluable experience preparing him for the formidable challenges of leading our executive programs," said Stuart I. Greenbaum, Ph.D., dean of the business school. "Lifelong learning has become a necessity for all, and these programs help executives remain nimble as they lead their companies in adapting to change and competing effectively in a global economy."

Clover, a native of East St. Louis, Ill., began his post on Aug. 2. Previously, he was de facto



**Weidenbaum:** Faculty member since 1964

# Washington People



All smiles, this "Living Buddha" hopped into Grant's lap for a photo during her visit to Mount Wutai.

## Pilgrimage to Mount Wutai

Research brings Beata Grant and 'Living Buddha' together on sacred mountain

BY GERRY EVERDING

**B**eata Grant, Ph.D., had just spent over a week in hot and dusty Beijing visiting several different language-study programs to determine which would be most suitable for Washington University students studying in China. But now, after 11 hours traveling by train and car through the windy roads of China's remote and beautifully mountainous Shanxi Province, she became not a professor but a pilgrim.

With hundreds of visitors from other parts of China, Inner Mongolia and Tibet, she spent four very full days visiting the temples and climbing the terraces of Mount Wutai, considered to be the most sacred of the four Buddhist holy mountains of China.

Hundreds of temples, monasteries and nunneries have arisen on Mount Wutai since early in the first millennium, when Buddhism first entered China from India. Despite its relatively remote location, many of them have managed not only to survive but to flourish as centers of living Buddhism.

"Even as a woman travelling alone, I felt very safe, and certainly never lonely," said Grant, an associate professor of Chinese and new chair of the Department of Asian and Near Eastern Languages and Literatures (DANELL) in Arts and Sciences. "After over 20 years of study, I finally feel completely comfortable in the language and the culture. Given my long-standing interest in Buddhism and my deep love for mountain landscapes, I felt right at home."

Grant, whose research focuses on the poetry and other writings of 18th-century Chinese Buddhist nuns, was particularly delighted to find herself welcomed into a thriving Buddhist convent, where she spent a day with its 300 young nuns and their vibrant and energetic abbess, Reverend Miaoyin.

On another day, she met a 10-year-old "Living Buddha" from Tibet who, together with his teachers and other family members, was also on pilgrimage

to Mount Wutai. The mountain has special significance for Tibetan Buddhists because several Dalai Lamas have spent time there.

According to Buddhist beliefs, explained Grant, what the Chinese call a "Living Buddha" is actually the reincarnation of a deceased religious teacher, who because of high spiritual attainment is able to determine his or her rebirth. The young monk she met was considered to be the reincarnation of a just such a spiritual teacher — a fact confirmed by none other than the present Dalai Lama himself.

### Tibetan humor

"The Tibetans are a particularly warm and lovely people," Grant noted, "and they have a wonderful sense of humor. Religion is central to their lives, but it is never considered to be a reason to be overly solemn. This 'little Buddha' was no exception—I spent many hours talking and joking with him — and teaching him a bit of English, which he was very eager to learn."

When the time came to part, he insisted on having his picture taken with her, plopping himself on her lap for the shot.

While some tourists might have found the experience a bit daunting, Grant has always been at ease in multicultural settings. Born in northern New Mexico, she grew up in a series of rural villages that even today might be considered part of Third World America. Her father, a writer and a free spirit, didn't like to stay in one place too long. The family, she recalled, seemed to move to a new village, a different adobe dwelling almost every year.

"Most of my classmates in school were either Spanish American or American Indian, and it was as likely that they would speak Spanish or Tewa as they would English," Grant said. "In addition, my family lived for several years in Mexico and in Central America when I was a child. I suppose this sort of upbringing meant that I have always felt at home in other cultures — sometimes even

more so than in my own."

Grant planned to major in Spanish and at age 17 took a break from college to spend time in Costa Rica with a family friend, Hilda Chen-Apuy. There, however, her career took a sharp and unexpected turn to the East. As it happens, Chen-Apuy is the daughter of a Costa Rican native and a Chinese immigrant. She also is a noted scholar of India with a wonderful library of books on Asia. Grant, an avid reader, read almost every book on the shelves and left two years later thoroughly hooked on Asia.

Grant returned to the United States and began looking for universities that offered Asian studies. She settled on the University of Arizona because it was close to home and offered a degree in "Oriental Studies," a broad field that would allow her to explore all the cultures of Asia. She also liked the program's strong interdisciplinary approach.

"It quickly became clear that it was impossible to study the philosophy of China, for example, without also studying its literature and its history," Grant said. Grant earned a bachelor's degree from Arizona in 1976 and headed for Taiwan, where she spent two years mastering the fundamentals of Chinese language. She then enrolled at Stanford University where she earned two degrees in Chinese, a master's in 1981 and a doctorate in 1987.

Always interested in the intersection of religion and literature, she focused her dissertation on the Buddhist writings of a Song dynasty literary giant named Su Shi. Her research, which required two years in Beijing, was eventually published in 1994 as her first book, "Mount Lu Revisited: Buddhism in the Life and Writings of Su Shi (1037-1107)."

Grant had become increasingly interested in the depiction of women in Chinese literature, but she soon discovered that women of Su Shi's era had left behind little in the way of published writings.



Through her research, Beata Grant, Ph.D., has illuminated the lives and contributions of women in Chinese history.

Searching forward in time, she learned that it was not until the Ming and Qing dynasties, in particular the 17th through 19th centuries, that Chinese women began to display a distinctive literary voice.

Her early research focused on the characterizations of women in religious popular literature, such as ballads and drama. More recently, she has worked to reconstruct the lives and the writing of Chinese Buddhist nuns and laywomen of the period, struggling to bring life back to their letters, poems and sermons. She has since published many scholarly articles, translations and book reviews on this topic and added considerably to our

understanding of the women of early China.

"The primary materials are scarce and piecemeal," Grant said, "but there is enough to provide us a glimpse into the world of an extraordinary group of women, some of whom may have unhappily found themselves in convents and monasteries involuntarily, but also others who found in the religious life a physical, intellectual and, yes, spiritual, freedom which at that time they could have found nowhere else."

Since coming to Washington University in 1988, Grant has taught a range of language, literature and poetry courses. Five years ago, she revived a course on "Masterpieces of Asian Literature" and began teaching it with a spiritual twist. Now titled "Introduction to the Religions of Asia," the popular course takes students on a whirlwind tour of the major religious traditions of India, China and Japan. She also has offered a course on Buddhism in the various cultures of Asia.

### Asian insights

By studying Buddhism, Grant suggested, students gain insights into a religious tradition that has traveled from its birthplace in India to become a central player in cultures across Asia and beyond. The exploration also provides a feel for the similarities as well as the striking cultural contrasts found in what we in the West often lump together under the heading of "Asia." Recently, she has also been adding readings on the impact of Asian religions in America to her syllabi.

Robert Hegel, Ph.D., professor of Chinese and a longtime colleague of Grant, credits her with bringing increased attention to the study of Asian religions on campus.

"As an outsider to those traditions, she has been able to present them very clearly," Hegel said. "I think she brings the sensitivity of someone who has studied poetry to her reading of religious texts, and this background gives a special insight to her students."

Last fall, Grant agreed somewhat reluctantly to take over as chair of Asian and Near Eastern Languages and Literatures. Despite administrative headaches, she admits some delight in "having a legitimate reason to poke my nose" into the different language sections, which now include Chinese, Japanese, Korean, Hebrew, Persian and Arabic. She looks forward to the introduction this fall of yet another language, Hindi, which she sees as a bridge between the Asian and the Near Eastern sides of the Department.

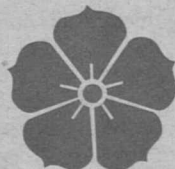
"I have long felt that the study of India and the other countries of the South Asian subcontinent is very important, not only for the growing population of students of South Asian heritage on campus, but also for all students of arts and sciences," Grant said. "Apart from the inherent interest of its long and immensely rich cultural, literary and religious history, today South Asia is also a central player in the fast-paced globalization of international affairs and as such must be taken into full account."

"The primary materials are scarce and piecemeal, but there is enough to provide us a glimpse into the world of an extraordinary group of women."

Grant's department offers instruction in seven languages.



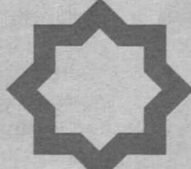
Chinese



Japanese



Korean



Arabic



Hebrew



Hindi



Persian