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# Record

Dec. 5, 2003

Volume 28 No. 16

Treasuring the Past



Washington University in St. Louis

Celebrating 150 Years

Shaping the Future



## Mental health effects of 9-11 attacks studied

By JIM DRYDEN

School of Medicine researchers have received a five-year, \$2.5 million grant from the National Institutes of Health to lead a study of the persistent mental health impact of the September 11 terrorist attacks on people who were in the World Trade Center towers when the planes struck.

"Previous studies have looked more at the general mental health effects on the population in Manhattan, but no studies to date have looked systematically at the psychiatric effects on people who were employed in the towers," said principal investigator Carol S. North, M.D., professor of psychiatry. "It's important to understand long-term mental health effects, to appreciate the mental health problems and the needs of the people involved so services and interventions can be designed."

North and co-investigators Barry Hong, Ph.D., professor of psychiatry, associate professor of medicine and adjunct associate professor of psychology in Arts & Sciences, and Edward L. Spitznagel Jr., Ph.D., professor of mathematics in Arts & Sciences, will team with researchers from New York and Oklahoma City in the new study.

Investigators will conduct diagnostic psychiatric assessments on 400 survivors, including the most exposed workers from businesses on the highest floors of the World Trade Center towers and their spouses or partners. The goal is to follow the course of psychiatric disorders — especially post-traumatic stress disorder (PTSD) — in the years following a major disaster to assess the treatment needs and to develop and implement interventions that might restore individuals to more

productive functioning in the post-disaster workplace.

By studying survivors of the Oklahoma City bombing — the deadliest terrorist attack in the United States prior to September 11 — North and her colleagues found that although most survivors did not develop psychiatric illness, more than one-third did experience PTSD in the months and years after the bombing. Pre-existing psychiatric conditions increased the risk of PTSD.

Survivors who were more seriously injured in the blast were at greater risk for PTSD, as were those who experienced the injury or death of a family member or close friend.

By studying World Trade Center survivors, the team expects to find many of the same influences on psychiatric health. Even more than two years after the attacks, North expects many survivors will still be suffering.

"In Oklahoma City, healing was not always rapid," she said. "Many people healed quite slowly, and we would anticipate that with a disaster of an even larger scope and magnitude, healing might take even longer for many survivors."

Over the years, North and her colleagues have done extensive disaster research with survivors. They have studied earthquakes and floods, industrial and technological accidents such as plane crashes, and man-made disasters such as the Oklahoma City bombing and a mass shooting at a cafeteria in Killeen, Texas.

Although North believes the scope of the World Trade Center attack makes it difficult to compare with those disasters, she believes the knowledge gained from survivors of those events

See 9-11, Page 6



North



MARY BURTON

Rhodes Scholars Allison Gilmore (left) and Bethany Ehlmann chat in Holmes Lounge. Ehlmann is a double major in earth and planetary sciences and environmental studies, both in Arts & Sciences. Gilmore is studying for joint bachelor's and master's degrees in mathematics in Arts & Sciences.

## Rhodes Scholars 'bring great honor'

By TONY FITZPATRICK

Arts & Sciences seniors Bethany Ehlmann and Allison Gilmore received early holiday presents Nov. 22, when they were announced as recipients of Rhodes Scholarships.

Since 1902, 23 Washington University students have won the highly acclaimed award. Six have been named in just the past five years.

The two were among 32 students in the United States chosen from 963 applicants. Winners were selected based on high academic achievement, personal integrity, leadership potential and physical vigor.

Ehlmann and Gilmore will be provided two years of all-expenses-paid study at Oxford University in England and will begin their studies next fall.

"It is gratifying to see such tal-

ented, creative and committed students like Bethany and Allison achieve at such a high level," Chancellor Mark S. Wrighton said. "Washington University is proud of them and their accomplishments. They are representative of the kind of students we have at Washington University, and their success ennobles the entire Washington University community."

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, echoed Wrighton.

"It is with great pride that we congratulate Bethany and Allison for their extraordinary achievement," Macias said. "They bring great honor to Washington University and reflect well the academic and social environment at our university, the quality of our students and faculty, and the commitment of Washington Uni-

versity to the world. We wish them well at Oxford University."

As chair of the Washington University Committee on Post-Graduate Scholarships and Fellowships, Michael R. Cannon, executive vice chancellor and general counsel, became acquainted with Ehlmann and Gilmore.

"Bethany and Allison are wonderfully accomplished, intellectually dynamic and service-oriented young women," said Cannon, a WUSTL Rhodes Scholar in 1973. "The committee tries to identify students who could be strong candidates for the most rewarding and prestigious postgraduate scholarships, makes them aware of those opportunities, offers a limited amount of advising in connection with the competition, and then gets well out of their way as they do all the rest."

See Rhodes, Page 6

### This Week In WUSTL History

Dec. 5, 1958

Groundbreaking took place for the 10-story Spencer T. Olin Residence Hall for medical students.

Dec. 9, 1981

Best-selling American novelist John Irving gave an Assembly Series address titled, "Remarks on His New Novel, *The Cider House Rules*."

Dec. 11, 1947

Carl and Gerty Cori of the School of Medicine received the Nobel Prize in physiology or medicine for their research on the catalytic conversion of glycogen. Six other Nobel Prize winners received training under their auspices.

This feature will be included in each 2003-04 issue of the Record in observance of Washington University's 150th anniversary.



DAVID KUEPER

**Dance concert** Student dancers perform Asha Prem's *Narasimha*, part of *dance@stl.art*, a showcase of professionally choreographed works Dec. 5-7 in Edison Theatre. Thirty-eight dancers selected by audition will perform seven works by faculty and guest choreographers. To read more, see Page 4.

## Researchers explore ocean floor with rare instrument

By TONY FITZPATRICK

In collaboration with oceanographers and engineers at the Monterey Bay Aquarium Research Institute (MBARI), a team of University geologists is using a rare instrument on the ocean floor — more than two miles beneath the surface — just west of California.

One of the group's earliest projects was to see if it's possible to capture carbon dioxide from the atmosphere and store it on the ocean floor. The research is supported by the Department of Energy.

The geologists, headed by Jill Pasteris, Ph.D., professor of earth and planetary sciences in Arts & Sciences, and their MBARI colleagues are the first to deploy

a Raman spectrometer on the ocean floor. The instrument combines a portable focusing lens with a potent laser to examine minerals, gases and liquids — even seawater itself.

The University team comprises Pasteris and John Freeman, Ph.D., and Brigitte Wopenka, Ph.D., research scientists in earth and planetary sciences. They and their MBARI colleagues are using Raman spectroscopy to see what carbon dioxide in either a pure liquid or a complex solid phase will do on the sea floor.

They are also examining the feasibility of synthetically trapping carbon dioxide in solids called clathrate hydrates — ice-like solids that form a cage

See Ocean, Page 6



# GWB's Rank named to Hadley professorship

By JESSICA MARTIN

Mark R. Rank, Ph.D., professor in the George Warren Brown School of Social Work, has been appointed the inaugural Herbert S. Hadley Professor of Social Welfare, announced Shanti K. Khinduka, Ph.D., dean and the George Warren Brown Distinguished University Professor.

Hadley was the University's chancellor from 1923-27. He also served as governor of Missouri from 1909-1913.

Rank's formal installation will take place Dec. 11.

"Mark Rank is one of the most important scholars of poverty in our nation today," Khinduka said. "His work is a blend of scientific rigor and a passionate commitment to the American idea of equality."

"His approach to estimating the likelihood of someone becoming poor in contemporary America is novel, and his argument for treating poverty as a concern of all Americans, rather than the fate of only a small segment of the society, is compelling. Rank's thesis is of as much relevance to policy-makers as it is to social work practitioners."

Rank earned bachelor's, master's and doctoral degrees in sociology from the University of Wisconsin-Madison. After graduate school, he spent a year as a fellow at the Frank Porter Graham Child Development Center at the University of North Carolina.

Rank joined the Washington University faculty in 1985 as an assistant professor of sociology in Arts & Sciences, and in 1989 he became a GWB faculty member.

His areas of research and

teaching have focused on issues related to poverty, social welfare, economic inequality and social policy. His recent research investigated the life-course probabilities of experiencing poverty in America.

Rank's first book, *Living on the Edge: The Realities of Welfare in America*, explored the circumstances of surviving on public assistance and achieved widespread critical acclaim. His most recent book, *One Nation, Underprivileged: Why American Poverty Affects Us All*, is scheduled for publication this spring.

In addition, Rank has written numerous articles for a variety of journals such as *Social Work*, *American Sociological Review*, *Psychological Science* and *Social Science Quarterly*. He has also provided his expertise to members of

the U.S. Senate and House of Representatives, as well as many national organizations involved in economic and social justice issues.

At the University, Rank is well respected by faculty and students alike, having received a Distinguished Faculty Award at Founders Day, the Kemper Foundation Faculty Award to Improve Learning and the Council of Students of Arts & Sciences' annual Faculty Teaching Award.

He has also received the Feldman Award from the Groves Conference on Marriage and the Family and the Outstanding Research Award from the Society for Social Work and Research. He has been listed in *Who's Who in America* and *Who's Who Among America's Teachers: The Best Teachers in America Selected by the Best Students*.



Rank



**A discussion of his craft** Hong Kong film director Johnnie To talks about his work with students from the Film & Media Studies Program in Arts & Sciences recently in Mallinckrodt Student Center. To, who has produced and directed more than 30 feature films, is best known for cops-and-gangsters action movies such as *A Hero Never Dies* (1998), *Running Out of Time* (1999) and *The Mission* (1999). He was in St. Louis to screen his latest thriller, *PTU* (2003), as part of the St. Louis International Film Festival. His visit to the University, which also included a symposium about his work, was sponsored by the Visiting East Asian Professionals Program in Arts & Sciences.

## Online journal search service available

By ANDY CLENDENNEN

It can be a time-consuming hassle to look through various journals in search of articles supporting a particular area research.

But thanks to a new service available through University Libraries, that search process just became a whole lot easier.

This service allows University faculty, staff and students to go online and read the full text of articles from more than 15,000 electronic journals in virtually all subject areas.

Users benefit even when a given journal is not available online, because the service lists

source information — including the journal, issue number, date and page number — and shows whether University Libraries has the print version of the journal.

If an article that you want is not available online or at the libraries, you can simply click on a button to order the article through interlibrary loan.

This service is a breakthrough for anyone conducting research, and it will only get better in the future as more journals become available electronically and the search process is simplified.

Anyone with access to the University's computer network may use the service. This includes anyone working at a public access terminal on campus and any student living in housing that has network access.

In addition, faculty, staff and students can access this service from off-site computers by com-

**This service allows access to more than 15,000 electronic journals in virtually all subject areas.**

pleting a setup procedure that takes about 30 seconds. Directions for setting up a connection are available online at library.wustl.edu/about/proxy.html.

Using the new service requires a short learning process. For additional information and a brief tutorial, go online to library.wustl.edu/whatsnew/newlinking.html.

If you encounter problems or prefer personal assistance, visit the help desk at Olin Library or at any of the departmental libraries, or talk to a librarian.

## PICTURING OUR PAST



Francis Gymnasium has been home to athletic victories, guest lectures and presidential debates in the University's illustrious past. In 1918, it even served as a barracks for Vocational Unit, Section B, as World War I drew to a close. Francis Gym, completed in 1903, was one of the buildings used in the third modern Olympic Games in 1904, the first Olympics held in the Western Hemisphere. After the Games, the Olympic Games Committee turned the gym over to the University to be used as part of the athletics department. This three-story, multi-level building also contains Olympic-sized Millstone Pool, built in 1985. Francis Gymnasium and Francis Field are named for David Rowland Francis, an 1870 alumnus, governor of Missouri, president of the Louisiana Purchase Exposition Co., U.S. ambassador to Russia and president of Merchants Exchange.

Washington University is celebrating its 150th anniversary in 2003-04. Special programs and announcements will be made throughout the yearlong observance.



Treasuring the Past  
Shaping the Future

## Record

Founded in 1905  
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Washington University in St. Louis



## School of Medicine Update

# At your service Parkway Hotel opens on Medical Campus

STORY BY KIM LEYDIG  
PHOTOS BY BOB BOSTON

For decades, patients from across the globe have traveled to the Medical Campus to receive care from the University's renowned physicians. And one of the first questions many patients ask is: "Where can my family stay?"

With the opening of the Parkway Hotel late last month, the Medical Campus now features an elegant hotel specifically designed to serve patients, visitors, family members and physicians affiliated with the School of Medicine and Barnes-Jewish and Children's hospitals.

"As our renowned physicians and health-care staff continue to attract an increasing number of patients and their families from around the world, the Parkway Hotel allows us to become a 'destination medical center' by offering accommodations that are not only comfortable but also convenient and specifically tailored to the needs of patients and their families," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.



The lobby of the new Parkway Hotel welcomes visitors to the eight-story, \$25 million structure conveniently located on the Medical Campus at the corner of Forest Park and Euclid avenues.

The \$25 million hotel, conveniently located on the corner of Forest Park and Euclid avenues, offers visitors, patients and their families all the amenities of a luxury hotel — room service, a business center, plush rooms, a workout facility — but its staff is specifically trained to meet the needs of recovering patients and their families.

"Our staff has been trained to go out of its way for our visitors because we understand that our

guests may have different needs than other travelers," said hotel General Manager April Risk.

"People have different needs when they are recovering, and the staff has been trained to anticipate and accommodate the special requests of patients and their families before they arrive and throughout their stay."

Dwyane Ingram, Children's Hospital senior guest relations specialist, explained that parents have been requesting a hotel near the hospital ever since he started working at the Medical Campus 13 years ago.

"The hotel is a blessing because parents want to stay close to their kids," he said. "We'll have so many of our families staying there because it's so convenient."

Hotel rates range from \$99-\$299, with discounts offered to patients, guests and University and BJC employees.

A full-service restaurant and bar, with indoor and outdoor café seating, is slated to open in late spring.

Other amenities include a covered walkway to the Center for Advanced Medicine, a business center with computer sta-



The Parkway Hotel has been specifically designed to serve the needs of patients, visitors, families and physicians affiliated with the School of Medicine and Barnes-Jewish and Children's hospitals.

tions, a conference room and a gift shop.

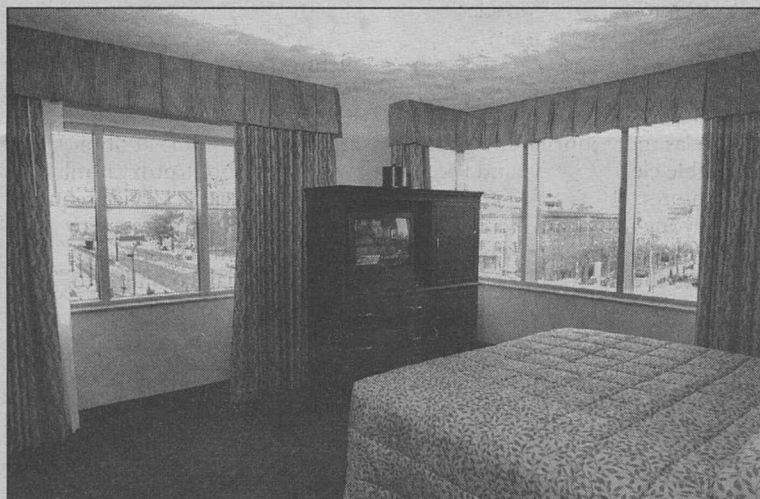
Even the hotel's décor has been designed with patients and their families in mind. The Country-French rooms have a contemporary flair and are styled in shades of warm yellow and soft blue to create a cheerful and soothing atmosphere.

"We wanted the rooms to be cheerful and comfortable," Risk said. "We want to help visitors

and their families have the best recovery possible, and we want them to feel like they're staying in a hotel, not a hospital."

Although the hotel has been designed with the special needs of patients in mind, it is open to the public, and many guests who are traveling to St. Louis for business and pleasure are expected to stay there.

For reservations, call 256-7777 or go to [theparkwayhotel.com](http://theparkwayhotel.com).



A spacious king suite showcases a view of the Central West End.

## Gelberman, Ley elected to Institute of Medicine

BY DIANE DUKE WILLIAMS

Two School of Medicine faculty members have been elected to the prestigious Institute of Medicine. They are Richard H. Gelberman, M.D., the Fred C. Reynolds Professor and chair of the Department of Orthopaedic Surgery; and Timothy J. Ley, M.D., the Alan and Edith Wolff Professor of Medicine.

As a component of the National Academy of Sciences, the Institute of Medicine advances and disseminates scientific knowledge to improve human health. Election to the institute is considered one of the highest honors in the fields of medicine and health care.

Gelberman and Ley are among 65 new members recently announced by the National Academy of Sciences.

Members are chosen for their professional achievement and commitment to service. With election, members devote time on committees engaged in a broad range of studies on health policy issues.

Gelberman joined the medical school in 1995 as the

first head of the Department of Orthopaedic Surgery. He also is chief of hand and wrist surgery and director of the medical school's hand and upper extremity fellowship training program.

Additionally, Gelberman is the orthopaedic surgeon-in-chief at Barnes-Jewish and Children's hospitals.

Gelberman is a leader in hand and wrist microsurgery. He studies dense regular connective tissue — the ligaments, tendons and muscles that allow us to move. He also investigates radius fractures, carpal instability and nerve injuries.

Gelberman has received numerous honors for his research, including the Kappa Delta, Nicolas Andry, Emmanuel Kaplan, Sumner Koch and Marshall Urist awards.

He is a former president of the American Academy of Orthopaedic Surgeons and has served on numerous executive committees for several national and international academic orthopaedic associations.

Ley joined the University faculty in 1986. He directs the Division of Oncology's stem cell biology section and serves

as the associate director of basic research for the Siteman Cancer Center.

Ley, who also is a professor of genetics, is renowned for advances in understanding the biology and genetics of acute myeloid leukemia.

He has identified the mechanisms that cytotoxic lymphocytes (a type of immune cell) use to kill tumor and virus-infected cells and has shown that the same mechanisms cause severe tissue damage after allogeneic bone marrow transplantation.

Additionally, he is known for his work to preserve the physician-scientist career track and encouraging physicians to pursue careers that involve both research and patient care.

Among his many honors, Ley was named Teacher of the Year in the Department of Medicine at Jewish Hospital in 1994 and received the Alumni/Faculty Award from the University Medical Center Alumni Association in 1998.

Ley is a past president of the prestigious American Society of Clinical Investigation.

## Depression in bypass surgery patients studied

BY JIM DRYDEN

School of Medicine researchers are seeking patients who have recently had coronary artery bypass graft surgery and are suffering from depression to participate in a research study.

"Clinical depression makes it harder for a person to recover, to enjoy life and to return to an active lifestyle," said principal investigator Kenneth E. Freedland, Ph.D., professor of psychiatry. "It increases the risk of other problems after surgery, including memory impairment and inability to return to work. Recent studies have shown that depression also increases the risk of dying in the first year or two after bypass surgery."

Freedland and his colleagues want to learn whether treating depression can reduce some of these medical risks. They are comparing cognitive behavior therapy, stress management and usual care for depression to determine which strategy is most effective.

"We know these therapies are effective in other depressed heart patients, but we don't know how they work in patients who face the special difficulties that are unique to bypass surgery," Freedland said. His team is studying people

who have had bypass surgery during the past one to 12 months and who have also been depressed for at least two weeks. Those who volunteer for the study will be evaluated for depression and memory problems and will have their heart rate, blood pressure and breathing tested.

Volunteers will be randomly selected to receive either 12 weeks of counseling or to continue with their usual care. During the study period, participants will be allowed to receive antidepressant prescriptions from their own physicians, but antidepressants will not be prescribed or dispensed by study personnel.

Study volunteers will have follow-up evaluations at three, six and nine months after their initial testing.

The testing sessions last about two hours. Counseling sessions take about one hour per week for 12 weeks.

All counseling and testing are free, and participants will be eligible for a cash stipend when they complete follow-up evaluations.

For more information, call study coordinator Angela Misuraco at 286-1314.



# University Events

## Student dance performances at Edison Dec. 5-7

By LIAM OTTEN

Washington University Dance Theatre (WUDT), the annual showcase of professionally choreographed works performed by student dancers, will present a concert called *dance@stl.art* in Edison Theatre.

Performances will begin at 8 p.m. Dec. 5-6 and at 2 p.m. Dec. 7.

Thirty-eight dancers selected by audition will perform seven works by faculty and guest choreographers. Cecil Slaughter, artist-in-residence and director of WUDT, noted that *dance@stl.art* will celebrate the richness and variety of St. Louis arts and culture.

"This is arts and culture in motion," Slaughter said. "*Dance@stl.art* pays homage to dance, music and visual art by St. Louis artists both past and present. At the same time, it also embodies — through its sheer diversity of forms and styles — the amazing artistic and creative diversity that resides here."

Slaughter's own contribution, *Miles In Between*, is inspired by the life and music of jazz great Miles Davis, an East St. Louis native. The piece for 10 dancers also features imagery by St. Louis artist Riccardo Hayes.

"*Miles in Between* is not a literal interpretation of Davis' music," Slaughter said, "but an impetus for the dancers to celebrate the energy and moods that went into the creation of the music itself"

Similarly, *Joplin's Ragtime Rolls*

### *dance@stl.art*

**Who:** 38 student dancers selected by audition

**What:** Washington University Dance Theatre, the annual showcase of professionally choreographed works

**Where:** Edison Theatre

**When:** 8 p.m. Dec. 5-6; 2 p.m. Dec. 7

**Tickets:** \$12, \$8 for students and senior citizens; available through the Edison Theatre Box Office, 935-6543, and all MetroTix outlets

— a work for six dancers by Christine Knoblauch-O'Neal, senior artist-in-residence and director of the Performing Arts Department in Arts & Sciences' Ballet Program — is inspired by the music of ragtime pioneer Scott Joplin and a strong sense of local history.

"The work is set in any of the pavilions or grassy areas in Forest Park just following the St. Louis World's Fair" in 1904, Knoblauch-O'Neal said. "The choreography blends both classical ballet and ragtime ballroom dances such as the tango, the waltz and the castle walk."

Other works on the program give testimony to the breadth of contemporary St. Louis dance.

Mary-Jean Cowell, coordinator of the Dance Program, choreographed *On Location IV: Perspective(s)*, the latest in a series of modern pieces exploring "the effect of the moving figure in relationship to specific spatial configurations." The work for 15

dancers also features visual projections of videographer Susan Volkan, adjunct faculty member in the PAD.

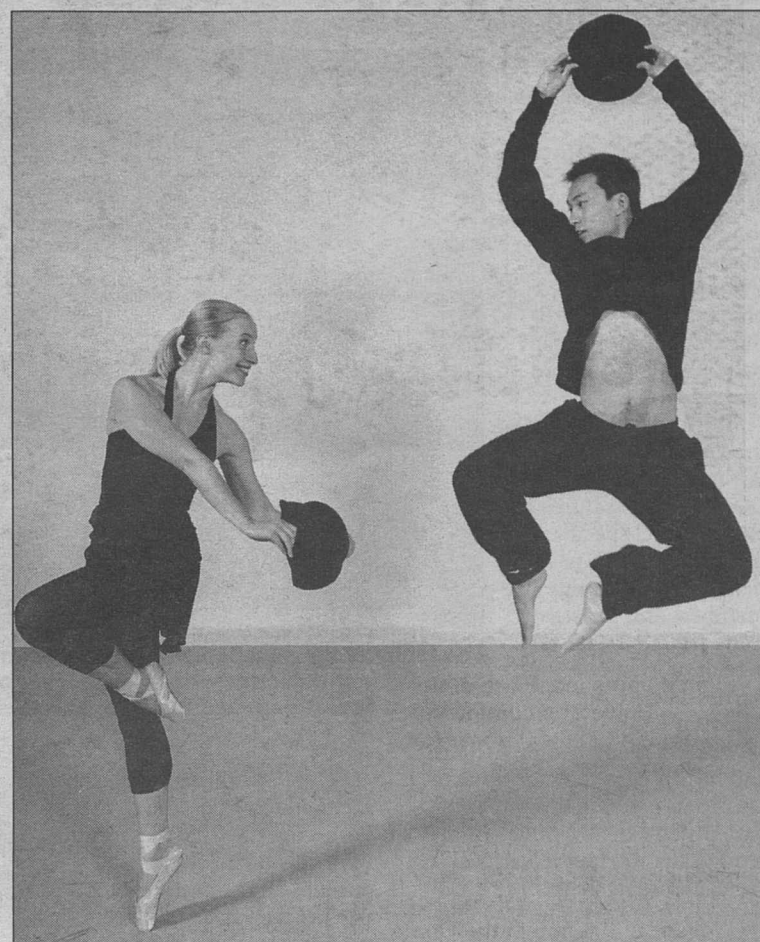
Adjunct faculty member Asha Prem, founder of the company Dances of India, choreographed *Narasimha*, an expressive, rhythmic piece for five dancers dedicated to the titular half-man, half-lion incarnation of the Hindu deity Vishnu. The work reflects the angular, Bharatha Natyam style of Indian classical dance, characterized by tight coordination of footwork with hand and eye movements.

David W. Marchant, senior artist-in-residence, will offer an untitled work for 10 dancers that explores "our increasingly distant, technological communication media" and the meaningfulness of touch as expression and interpersonal communication.

"Human touch is a basic human need, vital to our health and relationships with others," Marchant said. "Where words fail us, the depth of direct, physical contact is the most simple and profound way to reach one another."

In addition to faculty choreographers, WUDT will feature works set by two fall visiting artists. New York's Carlos Fittante, a celebrated performer of both Baroque and Balinese dance, choreographed a series of eight Baroque dances, set to selections from Jean Phillippe Rameau's opera *Les Indes Galantes*.

And St. Louis' own Jennifer Medina — a young dancer/choreographer teaching at Webster



Student dancers Alessandra Larson and Jun Cai will perform Christine Knoblauch-O'Neal's *Joplin's Ragtime Rolls* as part of Washington University Dance Theatre, an annual showcase — this year titled *dance@stl.art* Dec. 5-7 in Edison Theatre — of professionally choreographed works.

University — will offer *Arcadia*, a work for 10 dancers inspired by Nicholas Poussin's painting *Et en Arcadia Ego*.

Tickets are \$12, \$8 for WUSTL faculty, staff and stu-

dents and senior citizens, and are available through the Edison Theatre Box Office, 935-6543, and all MetroTix outlets. The concert is sponsored by the Dance Program and the PAD.

## The Awakening • Righty Tightly, Lefty Loosey

"University Events" lists a portion of the activities taking place at Washington University Dec. 5-16. Visit the Web for expanded calendars for the Hilltop Campus ([calendar.wustl.edu](http://calendar.wustl.edu)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

#### Friday, Dec. 5

6-9 p.m. **Righty Tightly, Lefty Loosey.** Sculpture and ceramics exhibit. (Also noon-4 p.m. Dec. 6.) Kastle Gallery, 3207 Washington Ave. 935-6500.

150 years

**History of Adult Education at Washington University, 1854-2004.** Through May 31. January Hall, Rm. 20. 935-4806.

150 years

**Influence 150: 150 Years of Shaping a City, a Nation, the World.** Through Dec. 7. Gallery of Art. 935-4523.

**Inscriptions of Time/Topographies of History: The Photographs of Alan Cohen.** Through Dec. 7. Gallery of Art. 935-4523.

**New Beginnings: The First Decade of the Washington University Medical Campus, 1915-1925.** Through May 31. Glaser Gallery, Becker Medical Library, 7th Fl. 362-4236.

### Lectures

#### Friday, Dec. 5

9 a.m.-5 p.m. **Radiation Oncology CME Seminar.** "ASTRO Review Seminar." Co-sponsored by the Mallinckrodt Inst. of Radiology, Siteman Cancer Center and Barnes-Jewish Hosp. Cost: \$95. To register, call 362-6891.

**Noon. Cell Biology & Physiology Seminar.** "The Role of Rho GTPase and Lethal Giant Larvae Families of Proteins in Exocytosis and Cell Polarity." Patrick J. Brennwald, assoc. prof. of cell & developmental biology, U. of N.C. McDonnell Medical Sciences Bldg., Rm. 426. 747-4233.

9:15 a.m. **Pediatric Grand Rounds.** "Antenatal Associations with RDS and BPD." Alan Jobe, prof. of pediatrics,

Cincinnati Children's Hospital Medical Center. Clopton Aud., 4950 Children's Place. 454-6006.

4 p.m. **Anatomy & Neurobiology Seminar.** W. Thomas Thach, prof. of neurobiology. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

#### Monday, Dec. 8

**Noon. Molecular Biology & Pharmacology.** "Mouse Models of Prostate Carcinogenesis." Cory Abate-Shen, prof. and chair of advanced biotechnology & medicine, Rutgers U. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**Noon-1 p.m. Work, Families, and Public Policy Seminar Series.** "Who Marries Whom and Why." Aloysius Slow, prof. of economics, U. of Toronto. Eliot Hall, Rm. 300. 935-6691.

4 p.m. **Biology Seminar.** "Epulopiscium spp. Bacteria Living Large." Esther Angert, asst. prof. of microbiology, Cornell U. Rebstock Hall, Rm. 322. 935-7888.

4 p.m. **Immunology Research Seminar Series.** "The Regulation of CD4 Memory." Susan Swain, dir. Trudeau Inst., N.Y. Eric P. Newman Education Center. 362-2763.

#### Tuesday, Dec. 9

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.** Andreas J. Baumber, assoc. prof. of medical microbiology and immunology, Texas A&M U. Cori Aud., 4565 McKinley Ave. 286-2891.

#### Wednesday, Dec. 10

4:30 p.m. **Physical Therapy Professional Conclave.** 4444 Forest Park Blvd., Rm. B108/B109. 286-1406.

5 p.m. **Medical Humanities & Social Sciences.** "The Female Gaze: Anatomist Anna Morandi Manzolini's Study of the Male Reproductive System and Genitalia." Rebecca Messbarger, assoc. prof. of Romance languages and literatures, Busch Hall, Rm. 113, Cohen Lounge. 935-5340.

#### Thursday, Dec. 11

**Noon. Genetics Seminar Series.** "Transvection: When Homologues Meet." Ting Wu, dept. of genetics, Harvard U.

### How to submit 'University Events'

Submit "University Events" items to Genevieve Podleski of the *Record* staff via:  
(1) **e-mail** — [recordcalendar@wustl.edu](mailto:recordcalendar@wustl.edu);  
(2) **campus mail** — Campus Box 1070; or  
(3) **fax** — 935-4259.  
Deadline for submissions is noon on the Thursday eight days prior to the publication date.

McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. **Ophthalmology & Visual Sciences Seminars.** "Demonstration of Efficacy on Anti-glaucoma Medication in African-Americans." Mae Gordon, prof. of ophthalmology and visual sciences, Maternity Bldg., Rm. 725. 362-1006.

#### Friday, Dec. 12

8 a.m. **Radiation Oncology Seminar.** Annual Carlos A. Perez Lectureship in Oncology. "Approaching the Limits in Radiation Dose Delivery." Herman D. Suit, Andres Soriano Distinguished Professor of radiation oncology, Harvard U. Barnes-Jewish Hosp. Bldg., Steinberg Amphitheatre. 362-2866.

9:15 a.m. **Pediatric Grand Rounds.** "Recent Advances in the Treatment of Cystic Fibrosis." Robert Wilmott, IMMUNO Professor and chairman of pediatrics, St. Louis U. School of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar.** "A Pore Way to Die. The BCL-2 Proteins." Paul Schlesinger, assoc. prof. of cell biology & physiology, McDonnell Medical Sciences Bldg., Rm. 426. 362-3964.

1-6 p.m. **Internal Medicine CME Course.** "Prevention and Treatment of Venous Thromboembolism; An Update." Co-sponsored by the Dept. of Pathology & Immunology. Cost: \$75. Eric P. Newman Education Center. To register: 362-6891.

4 p.m. **Anatomy & Neurobiology Seminar.** Rachel Wong, assoc. prof. of neurobiology. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

4:30 p.m. **Medical Humanities & Social Sciences Meeting.** Ira Kodner, prof. of surgery, Busch Hall, Rm. 113, Cohen Lounge. 935-5340.

#### Monday, Dec. 15

4 p.m. **Biology Seminar.** "Phototropins 1 and 2: Two Versatile Blue Light Receptors in Plants." Winslow Briggs, dept. of plant biology, Carnegie Inst. of Washington, Stanford U. Rebstock Hall, Rm. 322. 935-7915.

4 p.m. **Immunology Research Seminar Series.** "Naturally Arising CD25 CD4 Regulatory T Cells: Their Roles in Immunological Self-Tolerance and Negative Control of Immune Responses." Shimon Sakaguchi, dept. of experimental pathology, Kyoto U., Japan. Eric P. Newman Education Center. 362-2763.

#### Tuesday, Dec. 16

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "How Bacteria Make Magnetite." Dianne K. Newman, asst. prof. of geobiology & environmental science, Calif. Inst. of Technology, Cori Aud., 4565 McKinley Ave. 935-8651.

### Music

#### Sunday, Dec. 6

8 p.m. **Chamber Choir of Washington University Concert.** "Music of the Human Spirit." John Stewart, dir. Graham Chapel. 935-4841.

#### Tuesday, Dec. 9

8 p.m. **Chamber Music Concert.** Washington University String Players. Elizabeth Macdonald, dir. Ridgley Hall, Holmes Lounge. 935-4841.

#### Friday, Dec. 12

8 p.m. **Washington University Opera.** *The Village Singer.* Written by Stephen Paulus. Jolly Stewart, dir. (Also 8 p.m. Dec. 13.) Umrath Hall Lounge. 935-4841.

#### Sunday, Dec. 14

3 p.m. **Messiah Singalong.** John Stewart, dir. Musical scores provided. Graham Chapel. 935-4841.

### On Stage

#### Friday, Dec. 5

8 p.m. **Performing Arts Department Performance.** *dance@stl.art.* Washington University Dance Theatre. (Also 8 p.m. Dec. 6 and 2 p.m. Dec. 7.) Cost: \$12, \$8 for seniors and WUSTL faculty, staff and students. Edison Theatre. 935-6543.

#### Saturday, Dec. 6

2 p.m. **HotHouse Stage Reading Series.** *The Awakening.* By Henry I. Schvey. Jason Cannon, dir. Sponsored by the Performing Arts Department. Cost: \$5 suggested donation. Art Loft Theatre, 1527-29 Washington Ave. 935-5858.

### Sports

#### Friday, Dec. 5

8 p.m. **Men's Basketball vs. Claremont-Mudd-Scripps.** Annual Lopata Classic Tournament. Athletic Complex. 935-4705.

#### Tuesday, Dec. 9

7 p.m. **Women's Basketball vs. Maryville U.** Athletic Complex. 935-4705.

#### Saturday, Dec. 13

3 p.m. **Men's Basketball vs. Greenville College.** Athletic Complex. 935-4705.

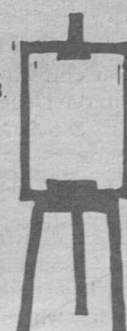
### And more...

#### Friday, Dec. 5

7 p.m. **Gallery of Art Public Exhibition Tour.** Led by student docents. Gallery of Art. 935-4523.

#### Sunday, Dec. 14

11 a.m.-6 p.m. **Art Sale.** WUSTL School of Art's Island Press print shop works. Bixby Hall. 935-6571.



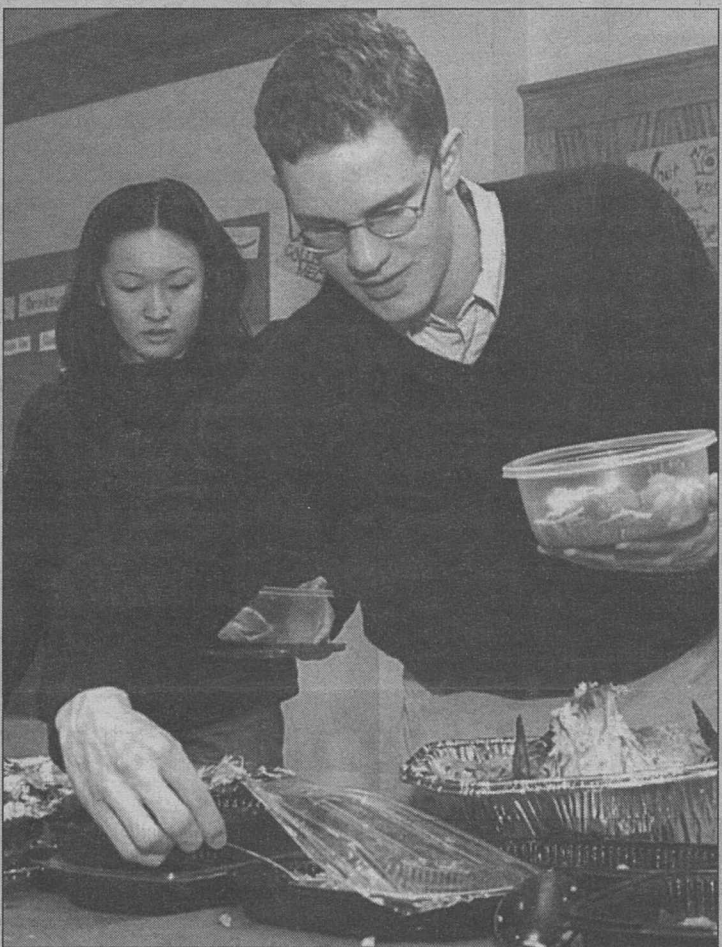




### Thanksgiving feasts

Even if some members of the University community couldn't make it home for Thanksgiving, various dinners held on campus ensured that they wouldn't be left out of the holiday celebration. Above, Guofu Zhou, Ph.D. (right), associate professor of finance in the Olin School of Business, wife Hui Xia Li and baby Jason Zhou enjoy the trimmings at the Olin School's feast at the Charles F. Knight Executive Education Center. And at right, senior Tania Lee looks on as sophomore Jeff Christiansen digs into the spread at Lien House. The dinner there was hosted by Philip M. Freeman, Ph.D., assistant professor of Classics in Arts & Sciences, and his wife, Alison. The Freemans are the faculty family in Brookings Residential College. Among the other events held on campus was a dinner held by the School of Law.

KEVIN LOWDER PHOTOS



## International art at rock-bottom prices

### Island Press holiday sale Dec. 14

BY LIAM OTTEN

Over the past 25 years, Island Press, the professional print shop in the School of Art, has published dozens of editions by internationally renowned artists, displayed work at major museums around the world and generally earned a reputation for pushing the boundaries of the printmaking medium.

It has never, however, had a sale. Until now.

The Island Press Holiday Sale

— a special one-time-only event including discounts of 30 percent to 50 percent off list prices and a large selection of works between \$100-\$500 — will take place from 11 a.m.-6 p.m. Dec. 14 in the School of Art's Bixby Hall. Cash, checks and credit cards will be accepted, and payment plans will be available.

Artists include nationally and internationally known figures such as Ed Boccia, Michael Byron, Hung Liu, Marvin Lipofsky, David Nash, Phyllis Plattner,

Franco Mondini Ruiz, Jane Sauer and Catherine Wagner. Also available will be new and in-production editions by Frida Baranek, James Barsness, Tom Friedman and Shimon Okshteyn.

Island Press was founded in 1977 by Peter Marcus, professor emeritus of printmaking. It has placed works in major collections around the world, including the Whitney Museum of American Art in New York.

For more information on the sale, call 935-6571. For more information on Island Press, go online to [islandpress.wustl.edu](http://islandpress.wustl.edu).

## WUSTL opera to present *The Village Singer* Dec. 12-13

BY LIAM OTTEN

The Washington University Opera will present Stephen Paulus' one-act opera *The Village Singer* at 8 p.m. Dec. 12-13 in Umrath Lounge in Umrath Hall.

Jolly Stewart, director of the Washington University Opera, will direct the opera. John Stewart, director of vocal activities in the Department of Music in Arts & Sciences, will conduct.

Based on a story by Mary Wilkins Freeman, *The Village Singer* focuses on the character of Candace Whitcomb, a paid soloist at a New England church, circa 1900. The choir members surprise her with a party in celebration of 40 years of service, after

which she finds a note left by the choir director (also her suitor) informing her that she has been dismissed and that her niece will succeed her.

During church services the following Sunday, a defiant Candace, who lives next door to the church, loudly sings her own solo, clashing with that of her niece.

Paulus is one of the most popular contemporary composers in the country, with operas presented by such major regional companies as the Washington Opera and Boston Lyric Opera. *The Village Singer* was given its world premiere in 1979 by Opera Theatre of Saint Louis, which also commissioned three other works

by the composer — *The Postman Always Rings Twice* (1982), *The Woodlanders* (1985) and *The Woman at Otowi Crossing* (1995).

Lead roles in *The Village Singer* will be sung by graduate students in vocal performance in the music department. Carrie Fulton sings the role of Candace, and Joseph Michels is the choir director. The role of the niece is sung by Megan Higgins, and Clark Sturdevant — who recently played Sky Masterson in the University's production of *Guy and Dolls* — sings the role of Candace's nephew.

Performances are free and open to the public and are sponsored by the Department of Music. For more information, call 935-4841.

## Sports

### Volleyball team reaches Final Four

The No. 2 volleyball team is in La Verne, Calif., for the 2003 NCAA Division III Final Four today and Dec. 6. The Bears, who defeated No. 5 Ohio Northern University in the national quarterfinals, will make their 12th appearance in the semifinals when they take on the University of La Verne at 7 p.m. Pacific time (9 p.m. locally) today.

University Athletic Association rivals New York University and Emory University will also make the trip. Both Emory and NYU are making their first appearance in the Final Four. The three UAA teams in the field marks the first time in Division III history that three teams from the same conference reached the semifinals the same year.

The Bears are back in the Final Four for the second-straight season after finishing as the national runner-up last year. With a 3-0 tournament record so far this year, WUSTL is 58-10 all-time, giving the Bears the second most wins in tournament history. Juniata College's 63 tournament wins rank first all-time.

La Verne, the No. 3 team in the country, is back for the second time in three seasons and sixth time overall after upending No. 4 Wisconsin-Lacrosse, 3-1, in the quarterfinals. La Verne is 29-2 and has not lost since Oct. 10, a 3-1 decision to Juniata.

Emory and NYU will face each other in the other semifinal today. The third-place match will be Dec. 6 at 4:30 p.m. and the championship is slated for 7 p.m., both Pacific times.

### Other updates

The **men's basketball** team dropped its home opener Nov. 25, then posted a 1-1 record at the Jackson Brothers Basketball Classic at Fontbonne University Nov. 29-30.

The Bears fell to Webster University, 80-70, Nov. 25 at the Field House. With the game tied at 59, Jerry Vogt and Scott Spinner hit back-to-back three-pointers with less than three minutes to play, sparking a 10-0 run to give the Gorlocks the lead for good. Washington U. led 30-24 at half-

time despite shooting just 3 of 12 from the free-throw line. Junior Rob Keller led WUSTL with 10 points at the break and 16 for the game.

On Nov. 29 against Otterbein College, Tony Borghese hit an 18-footer at the buzzer as the Cardinals defeated the Bears, 74-72, in the Jackson Brothers Classic. The Bears fought back from a 71-66 deficit with less than one minute to play after back-to-back three-pointers from Keller and Scott Stone to knot the score at 72 with 24.7 seconds left. Otterbein then ran the clock down to two seconds before Borghese provided the game-winning shot.

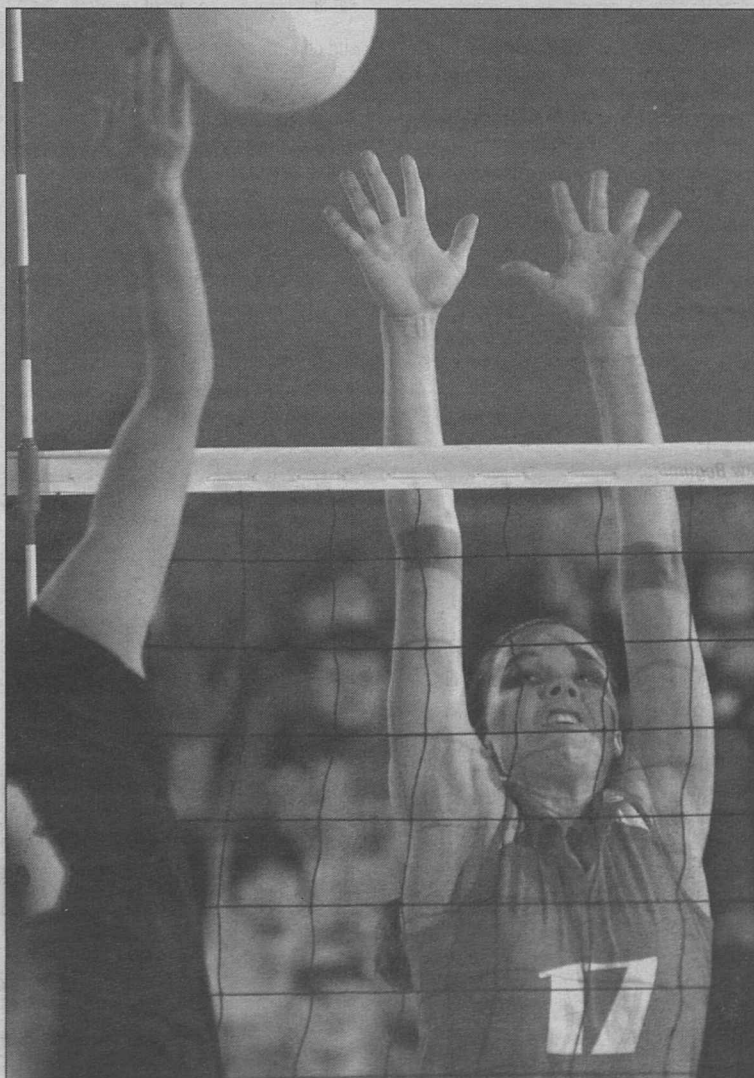
The next day, the Bears snapped a three-game losing streak with a 74-59 win against Edgewood College. Senior Ryan DeBoer led four Bears in double figures with a career-high 18 points and 14 rebounds.

Washington U. (2-3) will return to action today and Dec. 6, hosting the 20th Annual Lopata Classic. WUSTL opens with an 8 p.m. game today against Claremont-Mudd-Scripps Colleges.

The No. 1 **women's basketball** team went 2-1 from Nov. 25-30. The Bears opened their home slate by defeating Webster University, 77-51, on Nov. 25. Sophomore Kelly Manning led WUSTL with 15 points, including 13 in the first half. Senior center Suzy Digby added 11 points and eight rebounds, while classmate Lesley Hawley tallied 13 points.

The Bears maintained the momentum in the first game of the Third Annual McWilliams Classic Nov. 29-30 at the Field House. Washington U. upended Rose-Hulman Institute of Technology, 83-67, in its tournament opener behind sophomore forward Danielle Beehler's career-high 20 rebounds.

In the championship game, Washington U. rallied from 18 points down against Johns Hopkins University, but it was not enough as the Blue Jays held on for a 77-72 win. The Bears opened the second half with a 18-6 run, giving them their first lead (53-51) since a 2-0 edge to open the game. Beehler finished the game with a career-high 20 points and 14 rebounds.



Senior Cindy McPeak goes for a block in a match earlier this season. McPeak has 300 kills and 101 blocks this year for the Bears, who play in the NCAA Division III Final Four starting today in La Verne, Calif.

JOE ANGELES



# Ocean

— from Page 1

around gas molecules, such as methane, trapping them and storing them. Such solids occur naturally on the ocean floor.

The hope is that someday carbon dioxide can be trapped in a similar way.

"It's a remotely controlled laboratory on the ocean floor manipulated by a robot and controlled from the research ship above," Pasteris said. "The Raman signals so far are telling us that we can track the carbon dioxide and tell the different types — gas or liquid — and the spectra also can distinguish clathrate hydrates."

Carbon dioxide is the major gas that contributes to global warming. It is primarily the result of burning fossil fuels, and while there are ways to reduce its levels in the atmosphere, scientists are researching new methods to capture it and store it. The ocean floor is chief among alternative sites being studied.

"The ocean floor is still a mysterious place," Pasteris said. "You can't get scientists directly on the floor, so you either send them down in miniature subs or operate remotely, as the MBARI group does."

"Ultimately, we want to get more expertise on the mineralogy of the sea floor, and we believe the Raman spectrometer is the best thing going to give on-the-spot analysis and identification."

Pasteris explained her collaborative research at the Geological Society of America annual meeting held last month in Seattle.

In the past, Pasteris' team has analyzed the kind of sulfur that unusual bacteria oxidize on the

ocean floor for MBARI scientists, again using their specialty, Raman spectroscopy.

In the carbon sequestration research, MBARI scientists have dismantled the Raman spectrometer system and placed its components in three pressure-resistant cylinders connected by fiber-optic cables. A robotic arm controlled from the research ship manipulates the probe head containing the laser.

The laser excites various effects in samples, including what is called the Raman effect. The same lens system used to focus the laser then captures backscattered radiation and routes it to the cylinder with the electronics instrument for analysis.

"The emergence of global positioning systems and remotely operated vehicles such as MBARI employs make the use of our instrumentation in extreme environments more and more feasible," Pasteris said. "We expect to get valuable data on the growth of carbon dioxide clathrate hydrate, the formation of secondary solid and dissolved species, the formation of carbon dioxide-saturated boundary layers in ocean water, and the dissolution of sea-floor minerals, among other information, in future deployments."

She said that hydrothermal vents on the sea floor — a possible site for the origin of life on Earth — and their attendant bacterial colonies are possible future candidates for DORISS, the deep-ocean Raman in-situ spectrometer system. MBARI scientists are studying ways of downsizing the Raman instrument package so that other instruments can piggyback together with it on the robotic vehicles that are sent to the sea floor.



COURTESY PHOTO — MBARI

A fish on the ocean floor off California gazes at a sight no human has seen first-hand: the University's Raman spectrometer gathering data on a carbon dioxide sample. Jill Pasteris, Ph.D., professor of earth and planetary sciences in Arts & Sciences, heads the University group collaborating with researchers at the Monterey Bay Aquarium Research Institute to determine the feasibility of storing the greenhouse gas carbon dioxide on the ocean floor. The Raman spectrometer is the first-ever deployed on the ocean floor.

# 9-11

— from Page 1

will guide the researchers in this study.

Past studies — particularly from survivors in Oklahoma City — suggest most people need time to process grief and anger before moving on.

Others survivors, particularly those who develop a class of symptoms known as avoidance and numbing symptoms, are at high risk for developing PTSD. Avoidance and numbing symptoms include not wanting to think about the disaster, feeling distant or isolated from others and avoiding reminders of the event.

In Oklahoma City, those with at least three avoidance and numbing symptoms went on to develop PTSD 94 percent of the time.

But this study will differ from North's past disaster work because it will focus on the work-

place.

"The workplace has been largely neglected in disaster studies," North said. "We hope this study will help us learn specific ways companies might be able to help their employees get better and return to productive functioning after these sorts of events."

The study will examine questions about how soon survivors should return to work and whether companies should hold events — such as memorial services — or offer counseling services to workers.

"What about emergency communication plans that could allow people to check on the well-being of their co-workers?" North said. "A lot of anecdotal evidence suggests stress and worry over the well-being of others is a major problem for survivors in the days after a disaster."

"Might businesses put procedures in place to help their employees avoid that type of stress in the future? We hope this study will provide some answers."

# Rhodes

Recipients credit their advisers, role models

— from Page 1

Both students are in the Arts & Sciences Honorary Scholars Program, which provides various named full-tuition scholarships with stipends to outstanding applicants.

Ehlmann is from Edwardsville, Ill., but grew up in Tallahassee, Fla. Her family moved to Edwardsville in 2000 when her father, Bryon Ehlmann, became a computer science professor at Southern Illinois University Edwardsville.

"This is a tremendous honor," Ehlmann said. "There are so many great candidates from which to choose. It's just sinking in that I'm actually going to England to study."

"I owe a big tip of the hat to my adviser, Dr. Ray Arvidson, but there have been so many great people at Washington University who have influenced me that I want to thank them all."

Ehlmann is a double major in earth and planetary sciences and environmental studies, both in Arts & Sciences. She will work as a collaborating scientist in January on the Mars exploration rover mission and travel to NASA's Jet Propulsion Laboratory in Pasadena, Calif.

She will pursue a master's degree in geography at Oxford, where she will study environmental geomorphology, which involves the relationship between landscape evolution and human factors.

Ehlmann has been a Robinson Fellow and an Arthur Holly Compton Scholar for four years at Washington University. She was both a Barry M. Goldwater Scholar in Science, Mathematics and Engineering and Morris K. Udall Scholar in Environmental Studies in 2002-03. She won the Varney Prize in Undergraduate Physics in 2001.

She received a Fossett Fellowship for the Pathfinder Program in environmental studies in 2001. In the Pathfinder Program — a special curriculum allowing students the chance to specialize in topics and to examine them from many different academic perspectives — Ehlmann works in the earth and planetary science department's Remote Sensing Laboratory.

She made trips to Hawaii and modeled various geographical features, which led to her submitting several scholarly papers and making presentations at professional conferences.

Ehlmann has been a teaching assistant for the "Remote Sensing" course in earth and planetary sciences. She has also been a peer adviser for freshmen in Arts & Sciences and academic mentor for geology courses for Student

Educational Services.

Twice she's been elected as an Arts & Sciences senator for Student Union, and since 2002 she has been a student representative on the Chancellor's Committee on Environmental Quality.

She has been a member of the women's ultimate Frisbee club team since 2001 and was its president in 2002-03. She is active in intramural sports, runs and lifts weights, among other activities.

Gilmore is studying for joint bachelor's and master's degrees in mathematics in Arts & Sciences. Her area of study at Oxford will be social network theory, in which she intends to study social and political movements using mathematical tools.

"This is an amazing opportunity," Gilmore said. "I expect it to feel the same way as the first time I stepped onto a college campus — at MIT for a research program my junior year in high school."

"It's the feeling that I'll be in this special place among peers, all of us intently devoted to learning. I expect the feeling to be like that, only 100 times stronger."

Gilmore, from Eagan, Minn., a suburb of St. Paul, is president of the Washington University Students for Sensible Drug Policy and has been active in the Stop the War Coalition on campus.

Gilmore noted that Robert Canfield, Ph.D., professor of anthropology in Arts & Sciences, has been influential in her choice of study at Oxford. His "Social Movements" class, which she took in the spring of her sophomore year, introduced her to the topic of mathematically model-

ing social movements.

In her mathematics studies, she credits co-advisers John McCarthy, Ph.D., professor of mathematics, and Rachel Roberts, Ph.D., associate professor of mathematics, as being influential — McCarthy as a teacher who helped her in demanding courses, Roberts as an adviser and role model.

At Oxford, she expects to have supervisors in both sociology and mathematics.

Since starting Washington University in fall 2000, Gilmore has been an Arthur Holly Compton Scholar for merit in mathematics or physical sciences; a Howard Nemerov Scholar, awarded for merit in writing; and a Robert C. Byrd Scholar for general academic merit.

Her minor will be in writing, and she has been a news reporter and editorial writer for *Student Life*. She has also been a Florence Moog Scholar, awarded to science students with broad interests, since fall 2002.

Gilmore was inducted into Phi Beta Kappa this spring. She has been a member of the Undergraduate Math Club all four years; has been a mentor through Student Educational Services since fall 2002; and has assisted students at the calculus help desk.

During her freshman year, she mentored K-12 students in the Each One Teach One program, which reaches out to city students bused to suburban schools.

Gilmore has been a pianist in the Washington University Jazz Band since her freshman year and likes to sail, cycle and play intramural softball.

## Campus Watch

The following incidents were reported to University Police **Nov. 20-Dec. 2**. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at [police.wustl.edu](http://police.wustl.edu).

### Nov. 20

5:21 p.m. — A person reported that stereo equipment had been stolen from the Sigma Nu fraternity house. The equipment was last seen at 2 a.m. Nov. 19, and at 4 p.m. on this date the person discovered it was missing.

### Nov. 21

11:04 a.m. — A faculty member reported the theft of a Samsung laptop computer from her office in Goldfarb Hall sometime in the previous two weeks.

### Dec. 1

8:09 p.m. — A person stated his wallet was in the pocket of his jacket, which he hung on the coat rack in the weight room of the Athletic Complex. Upon his return, he discovered an unknown

person had stolen the wallet from the jacket.

### Dec. 2

2:46 p.m. — A person stated that she left her laptop and its case inside of the Arts & Sciences Laboratory Science Building. When she returned, she found an unknown person had stolen the laptop but left behind her keys and wallet.

*Additionally, University Police responded to nine reports of larceny, five reports of trespassing, three reports each of harassment and alarm, two reports each of disturbance and judicial violation, and one report each of property damage and traffic violation.*

## Employment

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

### Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to [hr.wustl.edu](http://hr.wustl.edu). For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

General Lab Assistant-Part Time 020237

Business Development Specialist 030334

Regional Dir. of Development 030252

Admissions Counselor 040025

Earth & Planetary Sciences Library Assistant 040029

Assoc. Director, Business Library 040066

Administrative Assistant 040073

Senior Research Assistant 040078

Department Secretary 040082

Services Manager 040085

Asst. Dean & Academic Coord. 040090

Regional Dir. of Development 040096

Grants Coord./Office Support 040097

Dir., Planned Giving 040098

Asst. Dir., Student Financial Services 040100

Grant Development Manager 040104

Events Coordinator 040105

Medical Sciences Writer 040106

Hazardous Materials Manager 040107

Network Administrator 040108

Student Records Office Assistant 040109

Programmer Analyst II 040111

Well Women's Health Nurse Practitioner 040112

Accounts Payable Service

Representative 040114

Production Programmer Analyst (3rd Shift) 040115

Assoc., Dir. of Dev., Arts & Sciences 040116

External Reporting Accountant 040118

### Medical Campus

This is a partial list of positions in the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources.

4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Medical Secretary II 040615

Professional Rater 040617

Patient Billing Services Rep. I 040618

Polysomnographic Trainee 040620

Sr. Research Technician 040621

RN — Research Patient Coord. 040623

Data Entry Operator II 040624

Facilities Technician II 040625

Facilities Technicians 040626

Research Associate 040629

Coder II 040630

Coder, Certified 040631

Research Patient Coord./Professional 040635

Secretary III 040636

Assistant: Account/Payroll/Purch. I 040637

Sr. Research Technician 040638

Sr. Research Technician 040639

Practice Office Manager 040642

Lab Assistant I (Part Time) 040643

Nursing Administrator 040645



## Notables

### Introducing new faculty members

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

**Dmitri Kuksov**, Ph.D., joins the Olin School of Business as assistant professor of marketing. Kuksov was a graduate student instructor for the undergraduate core marketing class at the University of California, Berkeley. His research and teaching interests include endogenizing market structure parameters, consumer information processing, customer satisfaction, brand image, Internet marketing, marketing strategy, marketing management and new product marketing. Kuksov earned a doctorate in marketing from the University of California, Berkeley in 2003 and a doctorate in mathematics from Brigham Young University in 1998, and a bachelor of science degree in mathematics from Moscow State University in 1994.

**Ryan W. Quinn**, Ph.D., joins the Olin School of Business as assistant professor of organizational behavior. Quinn most recently worked as an independent consultant from 1995-2002 for companies such as FUJI Vending. He spent a year studying competitive strategy and international business at Hitotsubashi University in Tokyo. He received a certificate of graduate studies in complex systems from the University of Michigan for his study of modeling dynamic systems and complex adaptive systems. Quinn earned a doctorate in organizational behavior and human resources management from Michigan in 2003, and a bachelor of science degree in statistics from Brigham Young University in 1997.

### Of note

**Brian Faddis**, Ph.D., research assistant professor of otolaryngology, has received a one-year, \$39,959 grant from the American Otological Society for research titled "Role of Glutamate Receptors in NOS1 Mediated Bone Resorption in the Ear." ...

**Deborah Dubin**, adjunct faculty member of University College, was recently named by Missouri Gov. Bob Holden to the board of directors for the Ameren Community Development Corporation (CDC). The not-for-profit CDC will be dedicated to addressing critical economic development initiatives in the state of Missouri. It is the state's first utility-driven economic community development corporation to operate across the 20,000 square miles of Ameren-UE retail electric service area in Missouri. ...

**Adrian Luchini**, the Raymond E. Maritz Professor of Architecture, recently served as a juror for the design awards of the New York Chapter of the American Institute of Architects. In addition, Luchini's \$1.8 million, 18,000 square-foot addition/renovation of Chesterfield Montessori School in St. Louis County recently was published in the Argentine architecture magazine *Summa* as part of a special issue on the "Argentine Architecture and Architects." ...

**Keith Brandt**, M.D., associate professor of surgery in the division of plastic and reconstructive surgery, and program director for the plastic surgery residency program and the plastic surgery hand fellowship, was recently elected president of the American Society for Peripheral Nerve, and secretary of the American Society for Reconstructive Microsurgery.

### In print

**Jane Wolff**, assistant professor of architecture, published excerpts from *The Delta Primer*, her forthcoming book on the Sacramento-San Joaquin River Delta in northern California, in the Fall 2003 issue of *Zyzzuya*, a literary magazine featuring West Coast writers and artists.

those simply hoping to prevent unconscious habits that can interfere with good health and physical activity.

Deadline for applications is Jan. 1, with awards to be announced in mid-to-late February.

A scholarship has been made possible by a donation from Samuel E. Schechter in memory of his son, David.

For more information, go online to [arts.wustl.edu/~marchant/alexanderfund](http://arts.wustl.edu/~marchant/alexanderfund).

### Alexander Technique funding available

BY LIAM OTTEN

The Performing Arts Department in Arts & Sciences is taking applications from University faculty, staff and students who wish to receive funding assistance to study Alexander Technique.

The method, which focuses on improving body movements and physical function, commonly is studied by athletes and performing artists, as well as by

### Steedman competition applications being accepted

BY LIAM OTTEN

Registration for "Dirty Play," the School of Architecture's 2004 Steedman Fellowship in Architecture International Design Competition, is open.

The biannual, \$30,000 fellowship enables graduates of accredited professional degree programs in architecture to travel for architectural research and study for nine months in foreign countries.

Winners are selected based on the quality of both competition design entries and their

research proposals.

Competition adviser Adrian Luchini, the Raymond E. Maritz Professor of Architecture, and members of an international jury of architects and designers will meet at the School of Architecture in March to select the winner.

Registration forms are available online at [www.arch.wustl.edu](http://www.arch.wustl.edu).

Registration closes Dec. 15, and entries are due March 12.

For more information, e-mail Shannon Platt at [shannonp@architecture.wustl.edu](mailto:shannonp@architecture.wustl.edu) or call 935-6293.



**Wrapper's delight** Gift-wrapping parties were held Nov. 15 and 22 in support of the Give Thanks Give Back program; here, juniors Sarah Bickel (left) and Morgan Davis share a laugh in Umrah Lounge as they lend their help. Hundreds of gifts, ranging from bedding and clothes to cash, were collected for 165 needy families in the St. Louis area, nearly double the number of families adopted by the University last year.

## Campus Authors

Walter H. Lewis, Ph.D., professor emeritus of biology in Arts & Sciences

Memory P.F. Elvin-Lewis, Ph.D., professor of microbiology and ethnobotany in biomedicine in Arts & Sciences

### Medical Botany: Plants Affecting Human Health

(John Wiley & Sons Inc., 2003)

Two biologists have written a book that clarifies and classifies the roles that plants and herbs play in human health. The intended audience encompasses both consumers of natural products and herbs as well as traditional physicians who today treat many such patients.

The work can be a cornerstone of an individual's research and practice in this area, whether it be parsing the properties of Echinacea or St. John's wort, or learning the calcium content in black beans, or the medicinal value of garlic and red wine.

*Medical Botany: Plants Affecting Human Health*, is the second edition of a 1977 book written by Walter H. Lewis, Ph.D., professor emeritus of biology in Arts & Sciences, and Memory P.F. Elvin-Lewis, Ph.D., professor of microbiology and ethnobotany in biomedicine in Arts & Sciences.

The earlier book was patterned after texts on internal medicine. It was intended to be a guide to how certain pharmaceuticals evolved

plants, herbs, vitamins and minerals as well as the dangers of ingesting certain plants or combining certain herbal therapy with conventional treatments. There are countless such descriptions in the 812-page book.

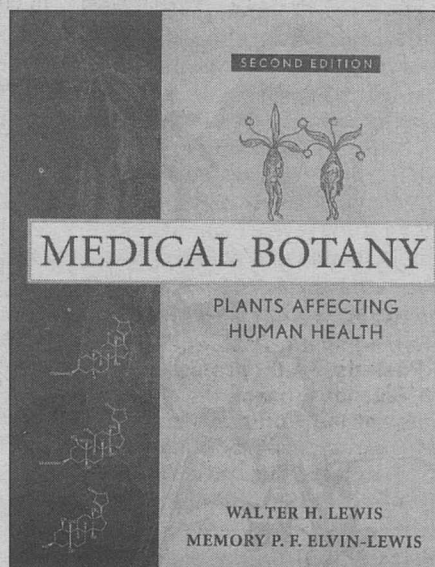
There are lightly written sidebars in each chapter, extolling the healthy properties of soybeans, for instance, or the good news about chocolate's benefits.

Part I consists of three chapters on injurious plants, including a very long table describing the symptoms of plant poisoning complete with antidotes.

There are twelve chapters in Part II that look at every conceivable part of the human body and mind as they relate to plant and herbal treatments, including plants that affect metabolism and the gastrointestinal tract, and plants as they relate to cancer.

Part III is composed of four chapters on psychoactive plants, dealing with stimulants, hallucinogens and depressants.

—Tony Fitzpatrick



from plant sources and how the use of plants and herbs for health reasons has evolved in many cultures.

The new book is a cornucopia of information on the benefits of

## Obituary

### Joseph Chole, architecture graduate student, 31

Joseph Chole, a graduate student in the School of Architecture, died Thursday, Nov. 27, 2003, after a lengthy battle with cancer. He was 31.

Chole was born Nov. 28, 1971, in Fontana, Calif. He earned a bachelor's degree in political science with a minor in religious studies in 1994 from the University of California, Davis, and worked at the ABC affiliate, Channel 10, in Sacramento before moving to St. Louis to attend school.

"Our sympathies and condo-

lences go out to Joe's family and friends," said Peter MacKeith, associate dean in the School of Architecture. "Those who knew him here in the school will especially miss his humor, optimism and spirit."

He loved to build, travel, sing and laugh.

He is survived by his parents, Richard A. Chole, M.D., the Lindburg Professor and head of the Department of Otolaryngology in the School of Medicine, and Cindy Chole; brother and

sister-in-law, Tim and Noelle Chole; sister, Katy Chole; sister and brother-in-law, Lindy and Wes Matthews; grandparents, Wendy Chole and Tom and Ethel Beiseker; niece Lauren Chole; and many aunts, uncles, cousins and friends.

A memorial service will be held at 2 p.m. Dec. 6 at the First Evangelical Free Church of St. Louis County, 1375 Carman Road, Manchester, Mo. Family will receive friends at the church from 1 p.m. until the time of the service.



## Washington People

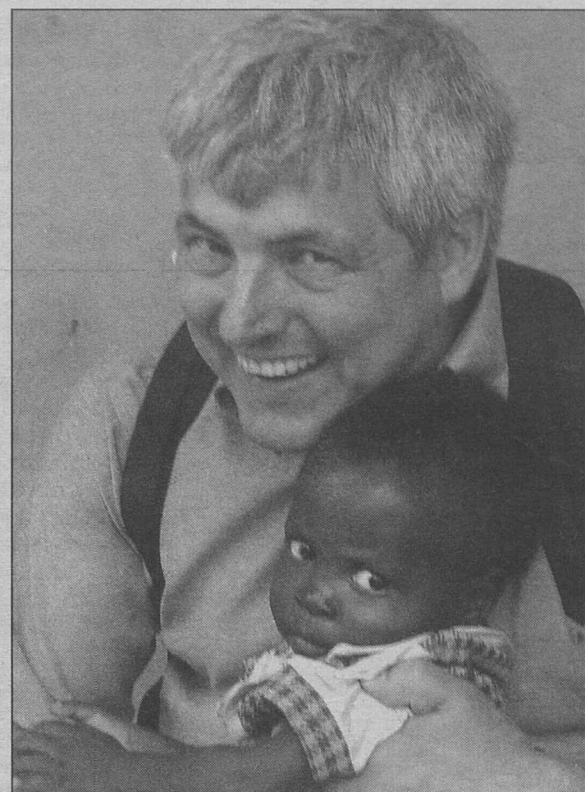
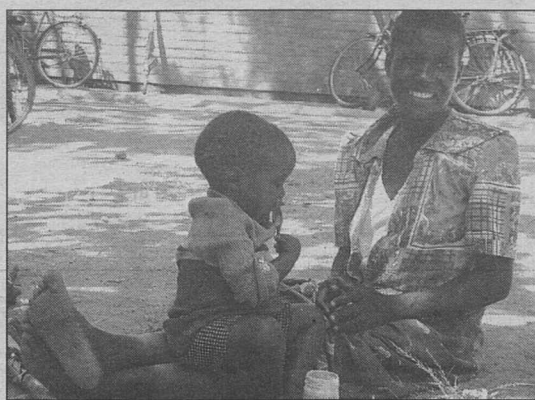
**P**eanut butter could save the world. If Mark J. Manary, M.D., has his way, that ooey, gooey lunchbox staple might be some kids' best hope for the future.

Manary, associate professor of pediatrics, started a program two years ago that has saved hundreds of starving children in one of the poorest countries in southern Africa. And some day, the Peanut Butter Project could benefit millions of children in the developing world.

"Optimism is very powerful," Manary says. "If you believe that something's possible, you will put your heart and soul in it and try it. And sometimes, it will work out."

Manary first visited Africa in 1985 and returned a second time almost a decade later as a Fulbright Scholar at the University of Malawi's College of Medicine. When he arrived, the pediatrics chief at the medical school advised him to pick a specialty but warned him of the pitfalls of tackling malnutrition.

He told Manary the ward was a



At top left, a Malawian mother holds her young son while he eats Mark Manary's peanut butter mixture, which helps an amazing 95 percent of the malnourished children who receive it. At right, Manary, M.D., associate professor of pediatrics, bonds with a Peanut Butter Project patient. And above left, medical student Heidi Sandige feeds one of the 3,000 children who benefited from the project last year.

# Peanut butter progress

A project started by Mark J. Manary feeds thousands of starving African children

BY DIANE DUKE WILLIAMS

mess, kids seemed to die very frequently and doctors didn't know why. But Manary has always liked a challenge and a chance to make things better.

At the university's hospital, Manary and his staff added large amounts of potassium to children's diets, decreasing the hospital's case fatality rate from 40 percent to 10 percent.

In Malawi, a country about the size of Kentucky and mostly made up of poor farmers, more than half the children are chronically malnourished, and one in eight children die because they don't get enough to eat. Each year, tens of thousands of kids are sent to inpatient feeding centers — established solely for the treatment of starving children — where they are fed milk diets for weeks.

Only 25 percent fully recover.

After his experience at the University of Malawi's College of Medicine, Manary knew he wanted to study severe malnutrition and return to that country. He now treks there several times a year, sometimes with his wife, Mardi, and his children, Megan, 16, and Micah, 14.

Health-care workers in Malawi believed starving children needed to take nutritious food home from the hospital. After consulting a French nutritionist who was developing peanut butter recipes, Manary launched the Peanut Butter Project in 2001.

As part of it, some of the children discharged from the country's largest hospital took home a peanut butter mixture to eat three times a day for five weeks. The conveniently packaged mixture included peanut butter, vitamins, minerals, sugar and vegetable oil.

As part of this project, they also were discharged from the hospital sooner than usual — after days instead of weeks. Manary had discovered that children recover more quickly at home.

An amazing 95 percent of the children who ate the peanut butter mixture fully recovered, reaching 100 percent of their weight for their heights. Only 1 percent of the group died.

"I said, 'Wow, this is really working!'" Manary says.

The Peanut Butter Project, which is sometimes called home-based therapy, enrolled 1,000 children in the first two years. Last year, with the help of medical student Heidi Sandige, about 3,000 children participated in the Peanut Butter Project.

This year, Manary expects more than 7,000 will be involved.

The peanut butter concoction is produced and packaged in Malawi. Over the years, the project has received funding from the Allen Foundation; the Children's Hospital Foundation; William H. Danforth, chancellor emeritus and vice chairman of the University's Board of Trustees; Valid International; and local community groups.

"This year, we're going to continue the project through the local Malawian institutions — they themselves are going to manage and take care of the kids," Manary says. "When everything is running smoothly, we hope to scale it up to something that can be used all over the country."

Most children in Malawi don't become malnourished until they're between 6-30 months old — the time frame in which breastfeeding stops. Because food is scarce, most families eat just once or twice a day, gathering around a pot and grabbing pieces of a corn mixture.

"This isn't enough, and that's why they fall into this pit of malnutrition," Manary says.

Finding something for mothers to feed their children at 6 months of age is one of the most important problems in global nutrition today, Manary says. That's where his ready-to-use peanut butter food comes into play.

### Always helping

Manary and his wife, a parish nurse at Gethsemane Lutheran Church in St. Louis, have always helped the less fortunate.

When he finished his pediatric training in 1985, they decided to work at a mission hospital in Tanzania. Upon returning to the United States two years later, they provided medical care at an Indian reservation in South Dakota.

"I've always been an activist for causes and changes that I think are going to make life better for people," Manary says.

The oldest child of a traveling auto-parts salesman and an English teacher, Manary and his two sisters grew up in Michigan and the New York City area. He says his family didn't travel much, and that he was the odd one out in trying to change the world.

In high school, Manary started a club to promote recycling and established an Earth Day in his hometown. He also was active in the anti-Vietnam War movement.

He majored in chemical engineering and chemistry at the Massachusetts Institute of Technology, planning to become a scientist. Students there were able to choose an elective in which they could study whatever they wanted. Many chose to work in a laboratory, but Manary organized students to go into tenements in Boston and help families overwhelmed by substance abuse.

After college, Manary took an engineering job with a company in St. Louis that produced huge pieces of aluminum called ingots.

Unexpectedly, the School of Medicine contacted him because of his undergraduate academic achievements. He took another leap of faith and decided to give it a try in 1978.

Medical school initially was difficult for Manary because he had no training in biology and wasn't used to memorization. He chose to specialize in pediatrics because children usually get better.

In 1989, Manary was hired as an instructor in pediatrics in the Division of Emergency Medicine. "It is a good fit for me personally," Manary says. "I enjoy the intellectual challenge of figuring out what the problem is, and I also like helping families in crisis. The helper in me wants to meet people in a moment of need and provide something for them."

Robert Kennedy, M.D., associate professor of pediatrics and one of his colleagues in the emergency department, says Manary is an intriguing physician and person who holds his highest admiration.

"Mark has not only managed to become intimately aware of the medical struggles that many children face in developing economies, but he has also worked hard throughout his career to find

answers to basic health questions that have a tremendous impact on their daily lives," Kennedy says. "In the process, he has developed a world view that most of us can only admire."

Manary also teaches nutrition courses to second-year medical students and nutrition electives to fourth-year medical students.

Sandige, who spent last year working with Manary as part of a Doris Duke Clinical Research Fellowship, describes him as a team player who makes everyone feel appreciated.

"He has this amazing quality of every now and then stepping back and saying, 'Thank you, you're very important to this project. This couldn't go on without you,'" she says.

Last year, Manary and his team conducted a small project in which 6-month-olds in Malawi were fed the peanut butter mixture to see if malnutrition could be prevented. The results were promising.

André Briend, M.D., Ph.D., a nutritionist who works for a French health institute, believes Manary's work will change the way children in the developing world are fed. He recently went to a meeting in Dublin, Ireland, attended by 70 experts on the treatment of severe malnutrition from either the academic world or major United Nations or nongovernmental aid agencies.

"The whole meeting was about home-based therapy, and the idea obviously is gaining more and more attention and having major practical implications," Briend says.

Manary's colleague James P. Keating, M.D., the W. McKim O. Marriott, M.D., Professor of Pediatrics, adds: "Mark is a man of solid intelligence with hard-earned skills who always has taken responsibility for those with less power than himself. What the folks who know his work consider courage and dedication is 'just doing his job' to him."

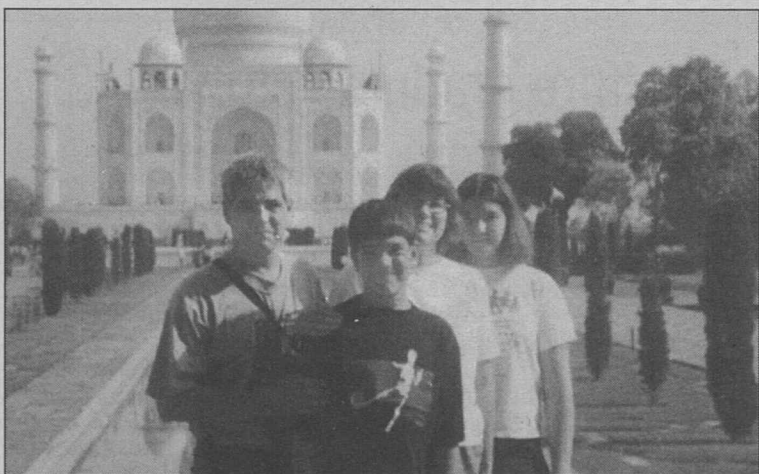
"He has combined the power of the scientific method with the humanity and humility of the biblical Good Samaritan in his work in Malawi."

### Mark J. Manary

**Born:** April 5, 1956, in Bay City, Mich.

**Family:** Wife, Mardi; children, Megan, 16; Micah, 14

**Degrees:** B.S. 1977, chemistry and chemical engineering, Massachusetts Institute of Technology; M.D. 1982, Washington University School of Medicine



Mark Manary with his family, (from left) Micah, Mardi and Megan, in front of the Taj Mahal in India.