Family on the 40: Wysessions move onto campus

Michael E. Wysession, Ph.D., associate professor of earth and planetary science in Arts and Sciences; his wife, Joan; and their son, Willie, move into their new home — the Elizabeth Gray Danforth House on the South 40. Wysession is the University’s first residential Faculty Fellow.

Inner-city community workers to get new tools for social services

BY GERRY EVEREDING

When social policy experts set out to solve the ills of inner-city neighborhoods, they sometimes forget that a highly dedicated corps of community workers and social service providers already are hard at work in most neighborhoods. Often underpaid and seldom provided with adequate resources, these front-line workers usually find some way nonetheless to make an important difference in their communities.

Recognizing that these practitioners already possess the compassion, drive and street smarts critical to effective community development, the George Warren Brown School of Social Work is launching an innovative, multi-university, public-private partnership to help these workers get the advanced training and education necessary to advance their careers and become true leaders in the urban communities of St. Louis.

"Our goal is to take people already working in important community programs such as substance abuse, delinquency, mentoring and latch-key education and give them the tools to do their job smarter, better and more effectively," said James Herbert Williams, Ph.D., assistant professor of social work and chair of the program.

Known as the Urban Family and Community Development Program, the interdisciplinary project will be based at and administered by the social work school. Academic partners include the schools of Law, Business and Architecture and the Department of Education in Arts and Sciences at Washington University; the schools of Law and Public Health and the Department of Public Policy at Saint Louis University; and the Department of Criminology at the University of Missouri-St. Louis.

"Our partners in the venture, scientists and students from the Department of Earth and Planetary Sciences in Arts and Sciences, continue to pore through data returned to Earth from Fossett’s Solo Spirit, taking advantage of the unique educational opportunity created by the venture." Fossett lifted off at 6:30 p.m. CDT Aug. 7 from Mendoza, Argentina, and though he was thwarted once again in this, his fourth attempt to circle the globe, the trip set numerous records, including:

• the first manned balloon crossing of the South Atlantic and Indian oceans;
• the longest distance — 14,233 miles by unofficial estimate — traveled by balloon;
• the fastest balloon flight across Australia — 19 hours, 31 minutes, a time that cut the previous record by more than half.

Fossett maintained 63 percent of the globe longitudinally and eclipsed his own prior distance.

They’re here!

Class of ’02 brings wealth of talent to campus

BY MARTY EVERETT

The incoming freshman class is an exceptional group. The 1,495 students in the Class of 2002 constitute the largest class in the University’s history. For their young years, the new students have amassed some impressive statistics. And not surprisingly so: They were culled from a record 16,200 applicants.

Of those students, half chose to enroll. Of the 1,500 who visited, about one-third elected to enroll.

"It’s an extreme compliment to the Washington University community," said Nasirette Turpentine, director of recruitment in the Office of Undergraduate Admissions. "We are excited that more students chose to attend than expected."

The incoming freshmen hail from all over the world, representing 21 countries, 46 states, the District of Columbia, Puerto Rico and Guam. During their high school years, they were academic leaders, officers in student government and active participants in extracurricular activities and athletics.

About 70 percent are National

Students were “invaluable” throughout Solo Spirit mission

Safe on land after a harrowing, 29-hour plunge into the sea and-a-half day balloon journey through much of the southern hemisphere, Fossett provides students an advantage of the unique educational opportunity created by the venture. Fossett lifted off at 6:30 p.m. CDT Aug. 7 from Mendoza, Argentina, and though he was thwarted once again in this, his fourth attempt to circle the globe.
Freshmen are gifted group from page 1

Honorary Society members, and nearly 10 percent are National Merit or Achievement Scholars. Almost one third were officers in service organizations, while 58 were scholar class officers. Just under 16 percent were editors of school newspapers. Nearly 25 percent were members of their school band or orchestra, and 15 percent were members of a choir or chorus. In athletics, almost a third of the incoming freshman class were team captains.

International Office seeks volunteers

I nspired by world events to participate in a large international volunteer program, some members of the student community may be interested in the volunteer opportunities the International Office offers.

If so, the International Office is accepting volunteer applications for the next academic year. Volunteers will be assisting international students in making the transition to a new environment.

The "Host Family Program" is designed to introduce international students to the American way of life. Volunteers must be single or married couples with children or single parents. They must be interested in foreign cultures and willing to host an international student for a specific time period.

Volunteers will provide a welcoming atmosphere for the student, helping them to feel comfortable and at home. They will also be responsible for providing transportation, meals, and other support services.

The application deadline is October 15, and volunteers will be selected on a first-come, first-served basis. If interested, please contact the International Office at x8100.

Chancellor Mark S. Wrighton writes "We have a great year!" on a student's door on move-in day Aug. 20.
Cells can learn to report pain

Researchers gain new understanding of how the brain can enhance or block pain

by Jim Dryden

T he brain can teach cells in the spinal cord to forget what scientists have discovered. Once receptors on these cells are activated, they continue to transmit pain signals even if there is no longer any reason for them to do so, leading to persistent pain.

"Nerve fibers from the brain can help control pain just like medications," said Min Zhuo, M.D., professor of microbiology, has been named the Director of Pediatric Infectious Diseases.

The appointment was announced by Allen L. Schwartz, M.D., Ph.D., and the Harriet B. Spohrer Professor and chair of the School of Medicine. She will lead the Division of Infectious Diseases at St. Louis Children's Hospital.

"Dr. Zhuo is an excellent investigator and a wonderful teacher," said Dr. Schwartz.

Zhuo, who is also an associate professor of molecular microbiology, has been named director of the Division of Infectious Diseases.

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"Dr. Zhuo is an excellent investigator and a wonderful teacher," said Dr. Schwartz.

Gastroenterology pioneer honored

 Clauson receives research award

Ray E. Clauson, M.D., professor of medicine in the Division of Gastroenterology, has received a two-year Award nominations are made by deans and department chairs at medical schools across the United States.

The good news is that silent synapses can be activated by both strong pain signals and messages from the brain. The investigators found that after silent synapses are awakened, they continue to transmit pain signals. The investigator who first identified that silent synapses can be activated by both strong pain signals and messages from the brain is Dr. Zhuo. Zhuo found that silent synapses are awakened by extreme or chronic pain, they remain open for a few weeks. The effects of these silent synapses are felt for months. The synapses fund silence and messages from the brain.

Just as we can't forget an old memory, Zhuo said, once activated by extreme or chronic pain, the silent synapses persist over time. Efforts to block pain by preventing signals from crossing synapses fail because why some soldiers can continue to fight even though they are gravely wounded.

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Carla Maxwell, dancer and choreographer, on campus

Dancer-choreographer Carla Maxwell, artistic director of the Limon Dance Company, will be a visiting artist in the Performing and Media Arts and Sciences Aug. 28-30. She will offer two weekly classes and hold auditions with selected students for a Limon work. Maxwell’s class will be offered as part of "Washington University Dance Theatre" in early December.

Maxwell joined the Limon Dance Company, one of the world’s finest repertory dance ensembles, in 1963 and soon became a principal dancer under the direction of company founder Judith Olson. Maxwell has received wide acclaim as a dramatic dancer and has taken on major roles in the Limon company’s productions, including the title role in "Carlotta," Limon’s final ballet, which he choreographed for her.

In 1973, three years after Limon left the company, she became assistant artistic director and, in 1976, was appointed assistant director. Under her direction, the Limon Company has staged numerous reconstructions of Limon’s work as well as several original works, including "Sonata" in 1980 and "Kodama" in 1988. Maxwell received the 1995 Dance Magazine Award for her work with the company.

Maxwell’s visit is made possible by the Missouri Water Dance Fund, which recently was established by Raymond and Mary Worswick to promote dance in the St. Louis region. In addition, the fund will underwrite the $1,500 to $2,000 gift to be given annually to an outstanding student with demonstrated financial need.

In late October, Pamela Jones Malave, a dancer with the Limon Company, will visit the University for three weeks to continue training the student dancers in Limon’s work.

Films

Friday, Aug. 28
6 p.m. New York Series
Finkelstein Feature: "Hunting" (Also Aug. 29, 29 Aug., and Aug. 30, 6 p.m.) Cost: $3 first visit; $2 subsequent visits. Room 100 Brown Hall. 935-5983.

Monday, Sept. 4
6 p.m. New York Series
Finkelstein Feature: "Dancing Lady" (Also Aug. 29, same time and place. Cost: $3 first visit; $2 subsequent visits. Room 100 Brown Hall. 935-5983.

Kotlin: "New York Series"

Carla Maxwell: Visiting artist

Visible Poetry & Posters: Israeli dancers

University Events

Constructions American images

Assembly Series offers stellar fall lineup

Film director Spike Lee, National Public Radio host Terry Gross and economist Dean Acheson are among the lineup of other speakers will bring a wealth of knowledge, perspective and experience to Washington University in the Fall 1998 Assembly Series. The series now in its 45th year, offers free lectures to students, faculty and the general public. The lectures are presented each year by the Department of Arts and Sciences at the Graham Chapel unless otherwise noted.

This fall, the series incorporates a special focus on the connection between great images in the arts and the media, a focus represented by faculty speakers Koppie, Mark Crispin Miller, and Gross and Marcus and others. Cloning will be the topic when Gina Kolata, science and medicine reporter for the New York Times, opens the Assembly Series Sept. 9, with the lecture "Cleaning: Its Past, Present and Future." Kolata will write more than 1,000 articles for the paper in the past 11 years. Her articles have appeared in almost every section of the paper, including the front page. Kolata also is the author of three books: "The End of Doctors: Probing the Limits of Medical Fate?" "Sex in the City," and "Sex in the City: Sex after AIDS." "Sex in the City" and has written numerous books on the subject, including "Science and Philosophy in the Soviet Union," which was nominated for the National Book Critics Circle Award, and "The Ghost of the Executed Engineers: Technology and the Fall of the Soviet Union," listed as one of the "Notable Books of 1993" by The New York Times.

Director of the Limon Dance Company, which has more than a million readers, and has worked as a private consultant for a number of Fortune 500 companies. Gross also has written for a variety of publications, including The Nation and The New York Times. Miller also directs New York University’s Project on Media Ownership. Music critic and sociologist Grell Marcus will give a lecture titled "On the Birth of the Cool." Oct. 7. Marcus is one of popular music’s pre-eminent critics. He has written for music magazines such as Rolling Stone and Creem and also has written extensively for Artforum, the Village Voice and The New York Times. Marcus is also the editor of the "Mystery Train: Images of America in Rock ‘n’ Roll Music" released earlier this year, but Marcus is more a musicologist than a writer on the world of some of the century’s most important popular musicians.

Peggy Orenstein, journalist and author, will deliver the annual Olin Conference’s Gwendolyn Hall Lecture titled "Woman’s Work: Fierce and Essential." Oct. 27. Orenstein has spent seven years as a Roman Catholic nun, taking vows in 1965. She later published "Through the Narrow Gate," an account of her life in the convent.

Cost: $3 first visit; $2 subsequent visits. Room 100 Brown Hall. 935-5983.


Exhibitions     Lectures

Lectures

Tuesday, Sept. 1

Wednesday, Sept. 2
1:30-4 p.m. Physics colloquium. "Masud" by Fred Dard, director of the National Center of Sciences and Arts and Sciences Lecture at 4 p.m.

Thursday, Sept. 3

Saturday, Aug. 29
7 p.m. Kilroy soccer game. Men’s soccer team vs. Gustavus Adolphus.

Saturday, Sept. 5
3 p.m. Kilroy soccer game. Men’s soccer team vs. St. Olaf College.
Campus Store remodeled, offers more, music, gift items

One of the most popular places on campus this time of year has a new book. This month, Washington University's Campus Store in Mallinckrodt Center will complete a major renovation project that increases the bookstore's square footage and convenience. The physical improvements began last November when Follett College Stores—the nation's largest contract manager of college bookstores—took over the store's management.

A major part of the renovation involved connecting the two stores, allowing shoppers to shop at either one in a single trip. The store has been re-opened to better serve the students.

Readers Choice Book Club has moved through the main level, where a new clothing line, which includes a black line, is being added to the store's offerings. In the lower level, the store's gift items and music are on display. A new look. This month, Campus Computers will operate a new computer service center, complete with hardware sales, at the front of the campus store. And throughout the store, there are more areas where customers can just sit and read. Additionally, the entire front entrance to the store has been re-designed to create space for special events such as readings and book signings, where the store hopes to encourage more patrons.

The store's grand opening celebration will be the store's new grand opening celebration from 3-8 p.m. for bookstore hours and more information, call 935-5500 or visit the store's Web site at www.wustl.kb.com.

Campus Watch

The following incidents were reported to University Police from Aug. 10-23. Residents with information that could assist in investigating these incidents are urged to call University Police at 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

The following incidents were reported to University Police from Aug. 10-23.

A female student reported a locked and avoid unnecessary physical confrontation. The ofﬁcer is described as a black male,

Women's soccer set for championship run

Fuelled by the return of nine starters, including five that made its ﬁrst-ever Final Four appearance, and set a school record with 17 wins last season, 10-year head coach Doug Hippler and the women's soccer team look to make a run at the national title in 1998. Leading the way will be the team's senior class, which includes forward Lotus Thompson, the team's all-time leader with 40 goals, 22 assists and 102 points, coming off her best season ever.

Men's soccer begins

Head men's soccer coach Joe Clarke's task in his second season is to continue building the team to make a run at its first NCAA title since 1994. Clarke goes to battle with a solid core of talent. Greg Knehmehl returns after a 16-goal, 11-assist season for Lotus Thompson. He is ﬂanked by three of the top eight scorers from last year, including senior midfielder Josh Karle and backs Bryan Cronin and Dan Ganzler.

Aiming at new streak

With its string of six consecutive post-season appearances last season, the volleyball team has established a new streak in 1998. With 10 of 13 letterwinners and five of six starters returning, an all-American team—University of Iowa's Crystal Moe—helps the chances of the Bears bringing home their eighth national crown in the last 10 years are very good. Moe led the Bears in 1997 and will return for her senior season (1998). Moe was the 1997 NCAA Most Valuable Player for the second straight year. Cafera earned All-America honors each of her last four seasons, including senior year. Cafera earned All-America honors each of her last four seasons, including senior year. Cafera earned All-America honors each of her last four seasons.
Setting up house
School of Business graduate students (from left) Ramashet Shettigar, Rahul Deshmukh and Prashant Patni, all from India, get help from furniture delivery freelance Ed Mahr as they carry a couch frame they purchased last week at the Furniture Exchange. Each of the 10 students helps about 650 students by buying and reselling furniture and household items. The Washington University Women's Society has run the shop, located north of the Millbrook Boulevard overpass, since 1973. Profits from the store are used to fund student scholarships at the University. For more information and store hours, call 835-2296.

Fossett
Solosports.wustl.edu records 11.5 million hits — from page 1

record of 10,360,661.61, set in January 1997. He was a total of about 80 minutes, 18 hours, 16 minutes.

Science payload
Solo Spirit's science payload and the Web site were the domain of Raymond E. Arvidson, Ph.D., professor and chair of earth and planetary sciences in Arts and Sciences. Arvidson and department members Edward A. Guinnis, Ph.D., senior research consultant; Kevin Slattery, systems programmer analyst; Thomas C. Stein, computer systems coordinator; and Todd Bowen, systems analyst and a 1998 engineering graduate, managed the aerostat payload of scientific instruments that helped them achieve their mission objectives and Fossett throughout the flight.

Science payload
"We accomplished everything that we set out to do, including capturing the infrastructure for the mission, providing a dynamic and heavily used Web site, acquiring a great deal of science data, participating in mission operations and involving students," Arvidson said. The aerostat recorded its readings and beamed them to satellite, which relayed them to the Jet Propulsion Laboratory in California, which in turn processed them and sent them to mission control approximately every hour. Arvidson's team posted the data — temperature, barometric pressure, radiance, altitude and speed, among other parameters — on the Web site, which received 11.5 million hits.

A violent thunderstorm Aug. 17 swept a broad swath to Fossett's flight, sending the balloon plummeting into the Coral Sea east of Australia. Fossett was able to soft land a bit by cutting fuel tanks loose just 1,000 feet above the water and migrating slowly was unharmed in the landing.

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James K. Bashkin, Ph.D., assistant professor in the University's Art and Sciences, was one of a group of ten winners to receive the 1998 Presidential Green Chemistry Award for design of a new, environmentally benign material for the manufacture of 4-amino-phenol, a raw material in manufacturing many products that help arrest resistance to antibiotics, cause allergies and make people fat. The process provides dramatic reductions in the chemical waste and water waste generated in the rubber chemicals industry. The process also eliminates the use of chlorinated benzenes — chemicals that are a health risk and likely to redirect the principal use of these chemicals from the manufacture of 4-amino-phenol to other uses.

Nearly 200 teams representing 41 colleges and universities entered the competition that called for both design boards and energy and lighting analysis of the proposals. The students in Design Engineering and Energy Schenring Software for their analysis.

Professor of International and Comparative Law, has received the School of Law's Triennial Award for Distinguished Teaching. This year, three faculty members from the German Marshall Fund, he spoke on migration and refugee issues at comparative law conference.

Jenkins named sports information assistant director

Keith Jenkins has been named assistant sports information director, according to John Schach, director of sports information.

Jenkins is responsible for promoting the University's nationally prominent intercollegiate programs, including women's basketball, the 1998 NCAA National Division III national basketball champions.

The women's volleyball team has captured seven of the last nine national titles and Jenkins' work in the women's basketball program in 1998 NCAA National Division III Men's Basketball Champions.

The Jenkins family,� 1997

Jenkins graduated from Northwestern in 1993 and holds a bachelor's degree in economics and communications. He spent the 1997-98 school year working in the athletic media relations office at Northwestern.

On assignment

Samuel E. Daga-Jack, M.D., assistant professor of radiology, was recently elected president of the board of directors of the American Diabetes Association's St. Louis Chapter.

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Speaking of

A trip to a tour of Europe, two to Latin America, and one to the Far East, Stanley L. Paulson, Ph.D., I.D., professor of law, delivered invited guest lectures and lead conference discussions in 15 countries. He will serve as co-director of four conferences on the work of legal theorists during the next year.

On display

A show of drawings highlighting the last 10 years of work by Metro Gable, associate professor of architecture, recently opened at the Centro de Arte René Portocarrero in the Rio de Janeiro. Among his noteworthy projects, Gableta served as the senior designer for the IBA Flottwellstrasse building competition for the IBA Flottwellstrasse building competition for the design of the Jakschik Award. This honor — and today confronts the finest athlete of the 20th century, and the exalted American and punished playboy and staunch Muslim, Muhammad Ali is incontestably one of the most famous Americans of his time. He has been known over the world not only for his boxing prowess but for his rebellious courage and resilience against controversy. He has been both underdog and champion, exalted and prosaic, celebrated for his boxing prowess and reviled for his controversial political opinions. He was exalted American and punished playboy and staunch Muslim, Muhammad Ali is incontestably one of the most famous Americans of his time. He has been known over the world not only for his boxing prowess but for his rebellious courage and resilience against controversy. He has been both underdog and champion, exalted and prosaic, celebrated for his boxing prowess and reviled for his controversial political opinions. He was...

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Leading the way in skin biology studies

Arthur Eisen's research holds promise of advances in cancer care

BY BARBRA RODRIGUEZ

Clinical, Scientist, Educator, Arthur Z. Eisen, M.D., head of the Division of Dermatology, director of clinical services and dermatologist-in-chief at Barnes-Jewish Hospital, has juggled these roles for three decades at the University. But he's someone who has asked him early on which means the most; the microscope likely would have won over the stethoscope.

"I saw myself more as a scientist for many years, but I always had a strong involvement in medical aspects as well," said Eisen, the Winfred A. and Emma R. Showman Professor of Medicine, who spends most of his time three days with Simon, educational and patient duties. But his strength in both research and clinical practice were evident early in his career. In 1971 he collaborated with Thomas Fitzpatrick, M.D., Ph.D., nowemeritus professor of dermatology at Harvard Medical School, to write one of the first comprehensive dermatology textbooks.

"Eisen's greatest legacy has been the people he has trained and his ability to focus on scientific excellence," said Eugene Bauer, M.D., Ph.D., dean and vice president for medical affairs at Stanford University School of Medicine and Eisen's first clinical fellow.

Under Eisen's leadership, the Division of Dermatology has grown to include 23 full-time faculty studying issues ranging from the cell biology of the skin to the genetic underpinnings of skin diseases to how enzyme play in remodeling tissue. And the dermatology residency program now selects among top medical candidates to fill five slots a year.

"It has been one of the most challenging and fun parts of my job to try and find people who are going to make contributions to dermatology in the future and foster their development," Eisen said.

One beneficiary is Alice F. Peckland, M.D., chair of the Department of Dermatology at the University of Rochester, who benefited from Eisen's guidance while she was a young faculty member at the School of Medicine in the late 1980s. Eisen not only gave her career and other advice, but he also took on her clinical responsibilities so she could attend a physiology course in Woods Hole, Mass., for two months. "I was so happy that he insisted I do this," she said.

"The course was an outstanding training experience that I thought would never be in the cards for me."

Setting a career course

Eisen's own interest in skin biology developed while in the laboratory of one of the fathers of skin biology research: William Montagut, Ph.D., at Brown University in Providence, R.I. Eisen went on to earn a medical degree from the University of Pennsylvania in 1957 and then to work in a dermatology laboratory at the National Cancer Institute. A fellowship in dermatology at Massachusetts General Hospital followed in 1961, in which he heard the lecture that set the future course of his research career.

Jerome Gross, M.D., nowemeritus professor of medicine at Harvard Medical School, had isolated an enzyme called collagenase-1 that degrades collagen, a major structural protein in the extracellular matrix. This matrix provides a supportive network surrounding tissue cells. Gross had isolated the enzyme from the tails of tadpoles, where it is thought to help turn the tadpole-shaped creatures into full-fledged frogs.

"Surprisingly, the tadpole enzyme was primarily produced by cells in the upper layer of skin, called the epidermis, although it acted in the lower, dermal layer of the skin. The researchers also isolated the human enzyme but showed that its primary source was instead the dermis. Eisen came to the medical school in 1967 as an associate professor of medicine to hunt for the cells that synthesize collagenase-1 in the human dermal layer of skin. The enzyme was difficult to detect, but Eisen quickly isolated it and showed that fibroblast cells, which live in the connective tissue, produced most of it. With Gregory I. Goldberg, Ph.D., professor of medicine and biochemistry and molecular biophysics, he soon formed a team of investigators who purified and cloned similar enzyme that attack collagen and other components of the extracellular matrix.

A family of 14 enzymes of this type, called metalloproteinases, are now known to exist. And the enzymes become activated and role these enzymes play in normal tissue architecture during wound healing and other situations. "We felt like someone handed us the key to a Rolls Royce, and we're being shown the ride ever since," he said.

His recent work focuses on the role metalloproteinases play in skin development, including the formation of structures such as hair follicles and relationship of the processes involved to those occurring in tumor invasion. And he is carrying out studies that may reveal ways of hindering metalloproteinases in cancer progression for patients in clinical trials.

In his spare time, Eisen runs about 35 miles a week, as he has done for two decades. And he spends time with his wife, Phyllis Kane, one of their three grown children. The Eisens also travel regularly and particularly enjoy traveling in France. Eisen continues to find fulfillment in the metalloproteinase field that he helped nurture into existence. "Whenever we find out something new," he said, "it's still exciting."