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Record

August 27, 1998

Volume 23 No. 1

Washington University in St. Louis

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.

BY DAVID MOESSNER

Okay, we know they're smart. Michael E. Wysession, bred at Brown and Northwestern universities, is associate professor of earth and planetary sciences in Arts and Sciences. His wife, Joan, matriculated at Northwestern and takes graduate courses at Washington University.

And we know they're brave. How else do you explain the co-existence of both a three-year-old son and a snow-white couch in the family room?

So which attribute — intelligence or courage — was more tested last winter when James E. McLeod, vice chancellor for students and dean of the College of Arts and Sciences, called with one of those are-you-talking-to-me offers?

"Michael said, 'You're not going to believe the phone call I

just got from Jim McLeod,'" said Joan, recalling the conversation. "How would you like to live in the Clayton school district, with a free mortgage and meals — and just one condition?" And I said, "Well, talk to me about it." And Michael said, "We'd get to live with 200 freshmen. ..."

Meet the Wysessions: The Family on the 40.

The address is the Elizabeth Gray Danforth House; the name on the proverbial mailbox is Faculty Fellow for William Greenleaf Eliot College. The Wysessions — Michael, Joan and Willie — moved in two weeks ago.

Their three-bedroom, two-bath, 1,500-square-foot apartment is located in the southeast corner of the otherwise-freshmen Danforth House — one of three newly constructed residence houses. Danforth and the Ethan

See Wysessions, page 6

Fossett provides students rare learning experience

Safe on land after a harrowing, 29,000-foot plunge into the sea and a dramatic rescue, adventurer Steve Fossett plans to "smell the roses" for a time and savor the records he set during his eight-and-a-half day balloon journey through much of the southern hemisphere.

His 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,

Students were "invaluable" throughout Solo Spirit mission

the trip set numerous records, including:

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

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

See Fossett, page 6

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

Three area universities team up in innovative partnership

BY GERRY EVERDING

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 so 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.

The program offers 27 hours of graduate-level training over a 15-month period for people who currently work in predominately low-income neighborhoods. Its objective is to strengthen the skills of practitioners who serve children, youth and families by helping them think beyond short-term crisis intervention and focus on broader strategies that integrate and build upon existing resources in the community.

To ensure an interdisciplinary perspective, courses will be co-taught by teams of instructors drawn from various fields and from diverse academic programs at all three universities.

The program's first semester, See Community, page 5

They're here!

Class of '02 brings wealth of talent to campus

BY MARTHA 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.

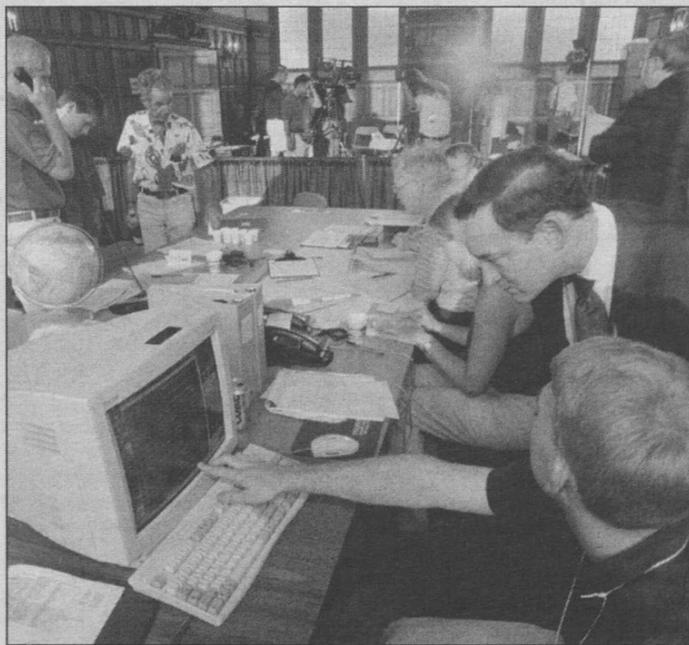
For their young years, the new students have amassed some impressive statistics. And not surprisingly so: They were culled from a record 16,200 applicants.

The phenomenal success of this year's April Welcome contributed to the unprecedented class size. The annual event attracted a record number of prospective students to campus. Of the 1,500 who visited, about half chose to enroll.

"It's an extreme compliment to the Washington University community," said Nanette Tarbouni, 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, 48 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 See 2002, page 2



Chancellor Mark S. Wrighton and systems analyst Judd Bowman, a 1998 engineering graduate, examine data from the Solo Spirit science payload at mission control in Brookings Hall.



Sophomore Jocelyn Gaffney of University Heights, Ohio, joins throngs of arriving students on the South 40 Aug. 20 as she moves into the new Elizabeth Gray Danforth House in Eliot College.

2002

Freshmen are gifted group

— from page 1

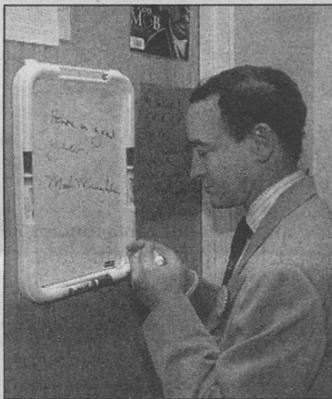
Honor Society members, and nearly 10 percent are National Merit or National Achievement Scholars.

Almost one third were officers in service organizations, while 238 were senior class officers.

Just under 10 percent were editors of their high school yearbooks; 115 were editors of school newspapers. Nearly 25 percent were members of their school bands or orchestras, and 15 percent were members of a choir or chorus.

In athletics, almost a third of the incoming freshman class were team captains.

"The entire University community is delighted to have such a talented and diverse class," Tarbouni said. "We want them to feel very welcome."



Chancellor Mark S. Wrighton writes "Have a great year!" on a student's door on move-in day Aug. 20.

International Office seeks volunteers

Inspired by world events to reach out and become an active part of the global community? Interested in learning more about other cultures — and, in the process, perhaps more about your own?

If so, the International Office is looking for you. The office is seeking volunteers to participate in a pair of community-connections programs that promote international friendships and further cross-cultural awareness.

The "Host Family Program" is designed to advance cultural exchange between international students and local volunteers. As part of the program, volunteers invite students to share in family celebrations, as well as sports or cultural events, at least once a month. Host families include single adults, single parents,

families with or without children, and retirees.

The "Speak English With Us Program" matches community volunteers with international students, faculty and researchers from both the Hilltop and Medical campuses who want to improve their understanding of the English language and culture.

Although courses such as English as a Second Language are available to members of the international community, many have an additional desire for opportunities to improve their practical, everyday English.

Volunteers meet with participants at a mutually convenient time and place, usually once a week for about an hour.

For more information, call the International Office at 935-5910.

Windfall in the Bahamas Hurricane yields rare chance to test ecological theories

BY TONY FITZPATRICK

A biologist at Washington University and colleagues at the University of California, Davis were recipients of a windfall — literally — when Hurricane Lili struck the Bahamas in October 1996, according to an article just released in *Science* magazine.

Fate handed them a unique chance to study phenomena and record results that previously only had been hypothesized. In the wake of the storm, the study that had taken them there metamorphosed into a completely different one, dramatically revealing how natural forces periodically play with an ecosystem's populations and tip the so-called "balance of nature."

The scientists published the results of their study in the July 31 issue of *Science*.

Jonathan Losos, Ph.D., associate professor of biology in Arts and Sciences, and biologists David A. Spiller and Thomas W. Schoener of the University of California, Davis, had just finished taking censuses of lizard and spider populations on 19 tiny islands in the Bahamas when Hurricane Lili hit the area Oct. 19, 1996.

The trio had introduced lizards to the islands in 1993 to conduct an experiment about the effect of predators on island ecosystems. The day after the hurricane blew through the large island of Great Exuma, where they were staying, the biologists quickly took to their boats to re-examine the islands for a suddenly different study on the effect of natural catastrophe on island organisms.

Eleven of the islands — all about one-third the size of an American football field — were on the southwest side of Great

Exuma and directly in the path of Lili's 110-mile-per-hour winds; eight other islands on the northeast of Great Exuma also sustained direct hits after Lili passed over Great Exuma.

Location made a difference in the fate of organisms. Spiders and lizards were completely wiped out and vegetation greatly damaged on the 11 catastrophically hit islands to the southwest, whereas populations of lizards were reduced approximately by one-third and those of spiders nearly 80 percent on the moderately damaged northeastern islands. Vegetation was affected, but to a much smaller degree.

Proving principles

The group found proof of several ecological principles. One is that the recovery rate of different organisms increases significantly with their ability to disperse. For instance, spiders, which produce a silk string to which they cling and get blown into areas by wind (a phenomenon called "ballooning"), rebounded quickly on islands where they had been wiped out, unlike lizards, which don't have such high-tech dispersal abilities.

Another is that larger organisms — lizards in this case — are more resistant to the immediate impact of moderate disturbance than smaller organisms. On the moderately disturbed islands, lizard populations were less affected by the hurricane than were spider populations.

A third is that the risk of extinction is related to population size when disturbance is moderate but not when it is catastrophic. In relation to this, the biologists uncovered perhaps the first concrete evidence of how hurricanes wreak devastation on

low-lying island organisms. It's not the wind so much as the water. The biologists found a starfish on top of one southwest island and sand deposits on many of the islands that were bereft of spiders and lizards. These discoveries indicated that a tidal surge as high as 15 to 20 feet — a response to the lower air pressure caused by the hurricane — inundated the islands, which are about five feet above sea level.

Unique advantages

Losos said there are several unique aspects to the study.

"We had data on the island ecosystems for the three years preceding the storm," he said. "Many times scientists go into an ecosystem and study the effects in the aftermath of a disturbance, but they don't know the situation beforehand. Moreover, we had information not just on past populations but on populations immediately before the event and immediately afterward. We know exactly what effect the hurricane had on the islands because we had been there just days before and then we repeatedly visited the sites in the following months to see how the ecosystem recovered."

The investigators went back to the islands six weeks after the hurricane and at regular intervals to take censuses of populations and observe vegetation regrowth.

"It has long been a hypothesis that the reason you don't find these common lizards on the small islands is that hurricanes keep coming in and wiping them out," Losos added. "And because lizards don't get from one island to another very readily, once they're wiped out, they don't come back. Well, now that hypothesis is documented."

News Briefs

Access success

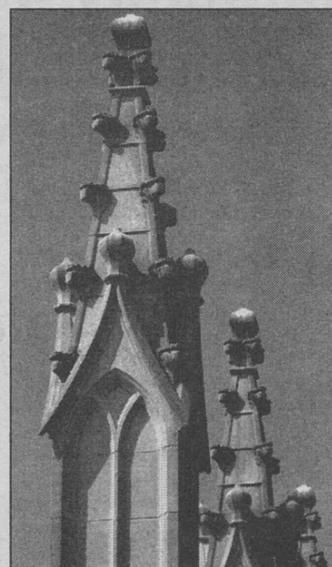
Mark H. Townsend, the new Access Control Services coordinator for the Hilltop and West campuses, is the man to call if your University identification card fails to open a locked building to which you have authorized access. Currently, access to nine buildings on the Hilltop Campus and some West Campus entrances are controlled by Electronic Access Control Systems, which require a specially encoded swipe card. The Office of Human Resources encodes a magnetic stripe on the back of University identification cards for employees authorized to enter the buildings. Employees experiencing problems with the system can reach Townsend at 935-8322.

Olin's fall hours

Fall hours for Olin Library began Wednesday, Aug. 26. The library is open Monday-Thursday 7:30-2 a.m., Friday 7:30 a.m.-8 p.m., Saturday 9 a.m.-10 p.m. and Sunday 10-2 a.m. With a current University identification card, faculty and staff may borrow books and videos. Faculty may borrow books for 90 days, staff for four weeks. Videos may be checked out for five days.

Showtime!

The deadline for purchasing subscription tickets for Edison Theatre's 1998-99 season is Friday, Sept. 25. The season includes 16 different OVATIONS! Series events and seven Performing Arts Department events. The OVATIONS! season kicks off Sept. 25 with a performance by



Campus quiz: Can you identify these spires? Answer below.

the country's premier Cajun band BeauSoleil with Geno Delafosse. The Performing Arts Department season gets started Sept. 10 with Dance Close-Up, performances by



the dance faculty. Faculty and staff receive a discount on most performances. Box Office hours are Monday-Friday 10 a.m.-4 p.m., Saturday 10 a.m.-2 p.m. and one hour prior to showtime. More information: 935-6543.

Get in shape

Fall hours for the Athletic Complex began Wednesday, Aug. 26. The complex is open Monday-Friday

6:45 a.m.-10 p.m., Saturday 10 a.m.-9 p.m. and Sunday noon-9 p.m. Recreational swim hours for the Millstone Pool are Monday-Friday 7-8:30 a.m., 11:30 a.m.-1:30 p.m. and 7-9 p.m.; Saturday-Sunday 1-4 p.m. Athletic membership is free for full-time faculty and staff; however, there is a fee to use the McWilliams Fitness Center. More information: 935-4705.

Back to school

Full-time University employees receive a 50 percent discount on undergraduate tuition in the evening divisions. For graduate-level evening courses, full-time employees receive the same tuition discount if they enroll in a degree program and have departmental approval. University College in Arts and Sciences offers evening classes in more than 50 subject areas. In addition, evening programs are offered through Architectural Technology, the John M. Olin School of Business, the Fine Arts Institute, the George Warren Brown School of Social Work and the School of Engineering and Applied Science.

Delectable dining

The newly remodeled Food Court in Mallinckrodt Center opened Thursday, Aug. 20, with a bountiful selection of great new foods. The hours of operation for the 1998-99 academic year are Monday-Friday 10:30 a.m.-7 p.m. If you want to grab a bite at Holmes Lounge, the hours are Monday-Friday 7:30 a.m.-midnight.

Answer: They top the roof on the south side of Brown Hall.

Record

Washington University community news

News & Comments

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Medical School Update

Cells can learn to report pain

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

BY JIM DRYDEN

The brain can teach cells in the spinal cord to feel pain, scientists have discovered. Once receptors on these cells are activated, they continue to transmit pain signals even if there is no injury, so blocking them may lead to better treatments for persistent pain.

"Nerve fibers from the brain can help control pain just like medications," said Min Zhuo, Ph.D., assistant professor of anesthesiology and of neurobiology. "Now, we have shown that those fibers also can enhance the transmission between the painful stimulus and the neuron in the spinal cord."

The researchers reported their findings in a recent issue of the journal *Nature*. The study was funded, in part, by a grant from the National Institute on Drug Abuse.

When we encounter a painful event, receptors on the skin, muscle or internal organs trigger an electrical impulse that travels along a nerve fiber to the dorsal horn of the spinal cord. That fiber connects with a nerve cell, which passes the pain signal up the spinal cord to the brain. Because the signals cross junctions — synapses — on their way to the brain, they can be modified en route. For example, opioids prevent signals from getting across synapses, thus preventing patients from feeling pain.

The brain also can block pain by preventing signals from crossing synapses. That may be why some soldiers can continue to fight even though they are gravely wounded.



Zhuo: Published article in *Nature*

"Nerve fibers from the brain can help control pain just like medications."

MIN ZHUO

The investigators found that the brain also can enhance pain by activating silent synapses, however. A brain region called the rostroventral medulla (RVM) sends a chemical signal to cells in the dorsal horn of the spinal cord. The neurotransmitter serotonin activates silent synapses in dorsal horn neurons.

Inefficient or silent synapses were proposed more than 20 years ago, but technical limitations prevented detailed studies of how and why they are activated. Using whole-cell patch-clamp recording techniques to monitor the electrical responses of individual neurons, Zhuo and colleagues found that after silent synapses are awakened, they tend to remain active and transmit pain signals.

These synapses can be activated by both strong pain signals and messages from the RVM. Zhuo found that spinal cord neurons, much like those in the brain's hippocampus, become more efficient at transmitting signals through a process called long-term potentiation (LTP).

LTP in the hippocampus is associated with learning and memory. Zhuo suggests that pain learning also is accom-

plished through LTP. After intense or persistent pain, dorsal horn neurons and the RVM learn to anticipate pain, and they continue to transmit pain signals back to the conscious part of the brain.

Just as we can't forget an old phone number or the truth about Santa Claus, silent synapses can't forget how to transmit pain, Zhuo said. Once activated by extreme or chronic pain, they remain open and transmit signals that either increase the severity of pain or the length of time we perceive it. That may be why cancer pain can persist even after treatment.

The good news is that silent synapses provide a potential target for pain blockers. As opioids and other drugs target normal pain pathways, other treatments might target these secondary pain pathways, interrupting the passage of inappropriate signals to the brain.

pediatrics at the same institution from 1987 to 1988. He was a postdoctoral fellow in infectious diseases and microbiology at Stanford University from 1988 to 1992.

"Joe is one of those truly rare triple-threat physicians — he is an outstanding clinician, an excellent investigator and a wonderful teacher."

ALAN SCHWARTZ

A physician at Children's Hospital, St. Geme also teaches microbiology and infectious diseases to pre-clinical students at the medical school.

Among his numerous awards are the American Heart Association Established Investigator Award, the Pediatric Infectious Disease Society Young Investigator Award, the 1995 and 1998 St. Louis Children's Hospital Attending Teacher of the Year awards and the March of Dimes Foundation's Basil O'Connor Award.

Joseph St. Geme to direct the Division of Pediatric Infectious Diseases

Joseph W. St. Geme III, M.D., associate professor of pediatrics and of molecular microbiology, has been named director of the Division of Pediatric Infectious Diseases.

The appointment was announced by Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoehrer Professor and head of pediatrics at the School of Medicine and pediatrician-in-chief at St. Louis Children's Hospital.

St. Geme succeeds Penelope G. Shackelford, M.D., professor of pediatrics and associate professor of molecular microbiology. Shackelford will continue her attending and teaching roles for infectious diseases and also will head Pediatric Ambulatory Services.

"Joe is one of those truly rare triple-threat physicians — he is an outstanding clinician, an excellent investigator and a wonderful teacher," Schwartz said. "We are thrilled that he will lead our Division of Infectious Diseases into the next millennium."

St. Geme studies *Haemophilus influenzae*, a bacterial organism that is a common cause of

respiratory tract infections, including middle-ear infection, sinusitis, bronchitis and pneumonia. He hopes to develop methods of preventing these widespread infections, which often are fatal in developing countries.

St. Geme has identified a series of *H. influenzae* molecules that promote interaction with human epithelial cells, including adherence and invasion. These enable the bacterium to inhabit the respiratory tract and persist over time. Efforts now are under way to incorporate these molecules into a vaccine.

St. Geme joined the University in July 1992 as an instructor of pediatrics and of molecular microbiology. He became an assistant professor of pediatrics and of molecular microbiology in September 1992.

After receiving a bachelor's degree from Stanford University in 1979 and a medical degree from Harvard Medical School in 1984, St. Geme completed residency training in pediatrics at the Children's Hospital of Philadelphia and served as chief resident in



St. Geme: Studies bacterial infections



A symbol of the medical profession On Aug. 14, first-year medical student Jennifer Lee dons her white coat from Will R. Ross, M.D., associate dean and director of the Office of Diversity, in Moore Auditorium at the annual White Coat Ceremony. Lee and 120 other first-year medical students were presented with a white coat, long a symbol of the medical profession. Wearing the white coat at the School of Medicine was initiated by George Dock, M.D., dean from 1910 to 1912 and one of the first full-time professors of medicine in the United States.

Grants totaling \$6.8 million awarded to medical faculty

Numerous School of Medicine faculty have received grants of \$1 million or more during the past few months. The grants fund research on topics ranging from hemoglobin to mechanical properties of cells and tissues to heart function.

The grant recipients include:

- Robert J. Gropler, M.D., associate professor of radiology, has received a five-year \$2.6 million grant from the National Institute on Aging to study how aging and exercise influence heart function;
- Joseph L. Price, Ph.D., professor of anatomy and neurobiology, has received a five-year \$1.5 million grant from the National Institute on Deafness

and Other Communication Disorders to continue his studies of regions at the front of the brain;

- Gary K. Akers, Ph.D., professor of biochemistry and molecular biophysics, has received a four-year \$1.6 million grant from the National Institute of General Medical Sciences. The award will support his ongoing studies of hemoglobin, the blood that carries oxygen from the lungs to tissues; and

- Elliot L. Elson, Ph.D., professor of biochemistry and molecular biophysics, has received a four-year \$1.1 million grant from the National Institute of General Medical Sciences to study the mechanical properties of cells and tissues.

Gastroenterology pioneer honored

Clouse receives research award

Ray E. Clouse, M.D., professor of medicine in the Division of Gastroenterology, has received a Janssen Award in Gastroenterology. The award honors scientists and clinicians who have made important contributions to the field.

The award was presented at the recent annual Digestive Diseases Week (DDW) scientific gathering, held this year in New Orleans. DDW is the world's largest meeting of specialists in the fields of gastroenterology, hepatology, gastrointestinal endoscopy and nutrition.

Clouse is among four winners of the Janssen Award for Basic or Clinical Research in Gastrointestinal Motility. The awards were initiated in 1995 to recognize dedicated clinicians and investigators who have made outstanding contributions to gastrointestinal research and patient care. Award nominations are made by deans and department chairs at medical schools across the United States. Winners are chosen by a panel of distinguished representatives from the field of gastroenterology.

Clouse is a pioneer in the

understanding of gastrointestinal motility — how the intestinal tract moves food from the mouth through the gut. In particular, he studies the esophagus, working to better understand the relationship between motility and disease, between emotional disturbances and motility disorders and the relationship between the brain and the gut.

"The esophagus is an ideal model for studying motility because it is a simple, tubular organ, and our food travels through it in a straight line from top to bottom," Clouse said. "In addition, unlike the rest of the gut, the esophagus only moves things; there is no secretion or absorption involved."

Using catheters to measure pressure in the esophagus, Clouse has mapped the contractions that allow food to pass through the organ. Using computer technology, he has been the first to map those movements in a 3-D, topographic way to better understand the sometimes very minor differences between healthy function and disease of the esophagus.

University Events

Constructing American images Assembly Series offers stellar fall lineup

Film director Spike Lee, National Public Radio host Terry Gross and a stellar 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 the University community and the general public. The lectures are held at 11 a.m. Wednesdays in Graham Chapel unless otherwise noted.

This fall, the series incorporates a special focus on the construction of American images in the arts and the media, a focus represented by Lee, Gross, Barbara Kopple, Mark Crispin Miller, Greil 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 "Cloning: Its Past, Present and Future." Kolata has written 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 Baby Doctors: Probing the Limits of Fetal Medicine"; "Sex in America" (co-written with Edward Laumann, John Gagnon, and Robert Michaels); and, most recently, "Clone: The Road to Dolly and the Path Ahead."

Kolata earned a bachelor's degree in microbiology and a master's in applied mathematics from the University of Maryland.

On Sept. 16, documentary filmmaker **Barbara Kopple** will deliver a lecture titled "The Art of the Documentary Film." Kopple first gained acclaim with her 1976 film "Harlan County USA," the story of a miners' strike and the dangerous opposition the striking workers faced. The film won an Academy Award for best feature

documentary, was named by Congress to the National Film Registry and was designated an American Film Classic. She received a second Academy Award for her documentary "American Dream," which explored the human cost of the rapid economic decline in America's industrial heartland.

Mark Crispin Miller, professor of media studies at New York University, will speak on "Our Masters' Voices: The Growing Power of Global Media" Sept. 30. Miller is a prominent media critic and 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 **Greil 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 on subjects including art, literature, film and television. His 1975 book "Mystery Train: Images of America in Rock 'n' Roll Music" examines the myths and images behind the music of some of the century's most important popular musicians.

Peggy Orenstein, journalist and author, will deliver the annual Olin Conference's keynote address Oct. 14. This year the conference is titled "Girl or Woman? The Status of Female Adolescents." Orenstein has worked extensively in journalism as both a writer and an editor, focusing on women's issues. Her

book "Schoolgirls: Young Women, Self-Esteem and the Confidence Gap" is an in-depth portrait of teenage girls in two disparate communities.

Science historian **Loren Graham** will deliver the annual Thomas Hall Lecture at 4 p.m. Tuesday, Oct. 20, in Room 215 Rebstock Hall. Graham holds a joint appointment as a professor of the history of science at both M.I.T. and Harvard University.

He specializes in the history of scientific thought in the Soviet Union 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

Engineer: Technology and the Fall of the Soviet Union," listed as one of the "Notable Books of 1993" by The New York Times.

Religious scholar **Karen Armstrong** will present a lecture Oct. 21 titled "The History and Future of God." Armstrong's book "A History of God" explores the 4,000-year-old history of monotheism — Judaism, Christianity and Islam — and the evolution of the idea and experience of God. Before her academic career, Armstrong 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.

On Oct. 28, media psychologist and columnist **Gwendolyn Goldsby Grant** will deliver the keynote address for the annual Black Arts and Sciences Festival, sponsored by the Association of Black Students. She writes a

monthly column for Essence magazine titled "Between Us," which has more than a million readers, and has worked as a private consultant for a number of Fortune 500 companies.

Louise Arbour of the International Criminal Tribunal in The Hague will deliver the annual Holocaust Memorial Lecture and Woman's Club Lecture titled "Prosecutions Before the International Criminal Court: Prospects and Pitfalls" at 4 p.m. Thursday, Oct. 29. By resolution of the Security Council of the United Nations, Arbour is the appointed chief prosecutor for the International Criminal Tribunal for the former Yugoslavia and Rwanda. The tribunal's mandate is to prosecute persons responsible for serious violations of international humanitarian law in the territory of the former Yugoslavia and Rwanda.

Medical sociologist **Renée Fox** will speak on "Doctors Without Borders and Doctors of the World: Moral Dilemmas of Medical Humanitarianism and Human Rights Witnessing" Nov. 4. Fox is the Annenberg Professor Emerita of the Social Sciences at the University of Pennsylvania. She is an expert on the social and humanist aspects of medical care and is the author of "Spare Parts: Organ Replacement in Society" and "Experiment Perilous: Physicians and Patients Facing the Unknown."

Film director **Spike Lee** will present the Congress of the South 40/Council of Students of Arts and Sciences Lecture at 4 p.m. Thursday, Nov. 5. Lee directed "Do The Right Thing," "Malcolm X," "Clockers" and,

most recently, "He Got Game." Lee also has made important documentary films, including "Get On the Bus," about a group of men headed to the Million Man March, and "Four Little Girls: Bombing of the 16th Street Baptist Church, Birmingham, Alabama."

Terry Gross, host of National Public Radio's "Fresh Air" interview program, will deliver a lecture at 4 p.m. Tuesday, Nov. 10. In 1975, Gross began hosting and producing "Fresh Air" at WHYY in Philadelphia, and it has since become a daily hour-long program distributed to 200 stations nationwide. The program features Gross' in-depth interviews with prominent cultural and entertainment figures and distinguished experts on current affairs and news.

Retired Sen. **George J. Mitchell**, D-Maine, will conclude the fall series with the Rabbi Ferdinand M. Isserman Memorial Lecture/Hennings Lecture Nov. 11. Mitchell recently served as the chief negotiator for the Ireland Peace Accord. During 14 years in the Senate, Mitchell led the effort to ratify the North American Free Trade Agreement and to create the

World Trade Organization.

Seating for the lectures featuring Lee, Gross and Mitchell may be limited for the general public.

The lectures are planned by the Assembly Series Committee and supported by Student Union, academic departments and other groups. For more information, call 935-4620; more complete biographical information on each speaker is available on the Assembly Series Web page at wupa.wustl.edu/assembly.



Kolata: New York Times writer



Kopple: Discusses documentary films

Carla Maxwell, dancer and choreographer, on campus

Dancer-choreographer Carla Maxwell, artistic director of the Limón Dance Company, will be a visiting artist in the Performing Arts Department in Arts and Sciences Aug. 28-30. She will conduct two master classes and hold auditions with selected students for a Limón work to be presented as part of "Washington University Dance Theatre" in early December.

Maxwell joined the Limón Dance Company, one of the world's finest repertory dance ensembles, in 1965 and soon became a principal dancer under the direction of company founder Jose Limón. Maxwell has received wide acclaim as a dramatic dancer and has taken on major roles in many of the company's productions, including the title role in "Carlotta," Limón's final ballet, which he choreographed for her.

In 1975, three years after Limón's death, Maxwell became assistant artistic director and, in 1978, was appointed artistic director. Under her direction, the Limón Company has staged numerous reconstructions of Limón's work as well as several original works by Maxwell, including "Sonata" in 1980 and "Keeping Still, Mountain" in 1988. Maxwell received the 1995 Dance Magazine Award for her work with the company.

Maxwell's visit is made possible by the Worsack Dance Fund, which recently was

established by Raymond and Mary Worsack to promote dance events at the University. In addition, the fund will underwrite the Worsack Dance Scholarship, a \$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 Limón Company, will visit the University for three weeks to continue training the student dancers in Limón's work.



Carla Maxwell: Visiting artist

Visible Poetry • Posters • Israeli dancers

Exhibitions

"Powerful Grace Lies in Herbs and Plants: A Joint Exhibit on Herbal Medicine." Sponsored by Missouri Botanical Garden Library and Bernard Becker Medical Library. Through Aug. 31. Seventh floor, Bernard Becker Medical Library, 660 S. Euclid. 362-4235.

"Visible Poetry: A Survey of Illustrated Books." Through September. Special Collections, fifth floor, Olin Library. 935-5495.

Films

Friday, Aug. 28

6 and 9 p.m. **Filmboard Feature Series.** "Good Will Hunting." (Also Aug. 29, same times, and Aug. 30, 6 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. **Filmboard Midnight Series.** "Dirty Dancing." (Also Aug. 29, same time, and Aug. 30, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Friday, Sept. 4

7 and 9:30 p.m. **Filmboard Feature Series.** "As Good as It Gets." (Also Sept. 5, same times, and Sept. 6, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. **Filmboard Midnight Series.** "Dune." (Also Sept. 5, same time, and Sept. 6, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Lectures

Tuesday, Sept. 1

12:10-12:55 p.m. **Physical therapy research seminar.** "Dementia and Cardiac Symptom Management by Family Caregivers." Margaret Perkinson, instructor in occupational therapy. Classroom C, lower level, 4444 Forest Park Blvd. 286-1400.

Wednesday, Sept. 2

3:45 p.m. **Physics colloquium.** "Maxwell in Flatland." Gerald Dunne, prof. of physics, U. of Conn. Room 204 Crow Hall. 935-6276.

Thursday, Sept. 3

8 a.m. **Cancer Center lecture.** The Rena Schechter Memorial Lecture in Cancer Research. "Bench-to-Bedside Approaches in the Treatment of Advanced Prostate Cancer." Kenneth Pienta, dir., Specialized Program of Research Excellence, U. of Mich. Clopton Aud., 4950 Children's Place. 747-0359.

4 p.m. **Earth and planetary sciences colloquium.** "The Three 'Paleos': Magnetism, Dynamo and Record of Global Change (And the Mineral Magnetic Thread That Binds Them All)." Subir Kumar Banerjee, prof. and dir., Inst. of Technology, Inst. for Rock Magnetism, geology and geophysics dept., U. of Minn.-Minneapolis. Room 362 McDonnell Hall. 935-5603.

Miscellany

Friday, Aug. 28

3:30 p.m. **School of Architecture all-school meeting.** Cynthia Weese, dean of architecture. Steinberg Aud. 935-5490.

Monday, Aug. 31

7 a.m.-6 p.m. **Poster sale.** Sponsored by Student Union. Schoenberg Gallery. 935-7878.

6:15 p.m. **Fiction and poetry reading.** Author Esther Dischereit, visiting writer, will read from her works. (Reading in German.) Sponsored by the Germanic languages and literatures dept. and the Goethe Inst. Hurst Lounge, Duncker Hall. 935-5106.

8:30-11 p.m. **Israeli dancing.** Beginners instruction and advanced dancing. Umrath Lounge. 726-6177.

Wednesday, Sept. 2

4:30-6:30 p.m. **Activities fair.** Display of information on student and faculty organizations. Sponsored by the Office of Student Activities and Student Union. Outside Olin Library. 935-5994.

Sports

Saturday, Aug. 29

5:30 p.m. **Alumni women's soccer game.** Francis Field. 935-5220.

7:30 p.m. **Alumni men's soccer game.** Francis Field. 935-5220.

Wednesday, Sept. 2

5 p.m. **Women's soccer exhibition game.** WU vs. Meramec Community College. Francis Field. 935-5220.

Saturday, Sept. 5

1:30 p.m. **Washington U. Classic.** Women's soccer team vs. Gustavus Adolphus College. Francis Field. 935-5220.

Campus Store remodeled, offers more books, music, gift items

One of the most popular places on campus this time of year has a new look. This month, Washington University Campus Store in Mallinckrodt Center will complete a 10-month remodeling project that increases the bookstore's offerings 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 levels of the store. Visitors now can enter the course book department located on the lower level through the main level, where school supplies, general reading books and gift items are sold. That means shoppers can check out all their items in one stop.

Students aren't the only ones benefiting from the changes. A Readers Choice Book Club has been created to reward frequent book buyers. After purchasing 10 general books, club members will get one free.

Faculty and staff will continue to receive a 20 percent discount on in-stock general and bargain books, school and art supplies, gift items and clothing. University employees also receive 10 percent off the price of calculators and course books.

Course book shelving and the general book area have been expanded, allowing the store to offer more items. The store now carries a larger line of Washington University products, including bumper stickers, mugs and a new clothing line. And soon, distant University fans will be able to buy their Bears sweatshirts without visiting the store: A new clothing catalogue is being introduced for on-line and mail-order purchases.

The music selection has been increased, and listening stations have been added so shoppers can hear CDs before purchasing them. Compaq Computers Corp. will operate a new computer service center, complete with hardware sales, at the front of the 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 reconfigured to create space for special events such as readings and book signings, which the store hopes to encourage.

One such special event will be the new store's grand opening celebration from 3-8 p.m. Sept. 28.

For bookstore hours and more information, call 935-5500 or visit the store's Web site at www.wustl.bkstr.com.

Grand Opening

Where Campus Store, Mallinckrodt Center

When 3-8 p.m. Sept. 28

Features Ribbon-cutting ceremony, a reading by author William Gass, informational booths about area attractions



Marthelia J. Ellison and Robert Green were among the guests of honor Aug. 13 at a luncheon Chancellor Mark S. Wrighton gave for retiring employees.

Nearly 1,100 years of service honored at employees' retirement luncheon

BY LIAM OTTEN

Marthelia J. Ellison plans to see the world. Since 1957, the School of Medicine veteran has processed microscopic slides for the Department of Pathology, where she served as histology supervisor.

"I've always enjoyed my work," Ellison said. "I also enjoyed the benefits," she added, pointing out that two of her three children graduated from the University.

But the grandmother of five — who began her career with the University at the tender age of 18 — said she is looking forward to her retirement.

"I've done a lot of traveling — Mexico, Alaska, Puerto Rico, Europe, the Orient," Ellison recalled. She and her husband, a retired pastor and schoolteacher, anticipate soon adding to that list. "I'd really like to go to Jamaica," she said.

Ellison was one of 56 staff retirees from the Hilltop and Medical campuses who were recognized at an Aug. 13 luncheon hosted by Chancellor Mark S. Wrighton at the Whittemore House. Each of the retirees, whose lengths of service ranged from 10 years to Ellison's 41 years, received a commemorative walnut plaque.

Retirees received their awards from the heads of their respective departments. Presenters for the Hilltop Campus were Virginia F. Toliver, director of administration and planning for Olin Library; David T. Blasingame, vice chancellor for Alumni and Development Programs;

Richard A. Roloff, executive vice chancellor; and Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences. William A. Peck, M.D., executive vice chancellor for medical affairs, honored medical school retirees.

"In recent years, Washington University has emerged as one of America's finest," Wrighton said. "That is in large part a result of your efforts — we are no better than the people who support us."

"The people in this room represent more than 1,000 years of cumulative service," Wrighton noted. "Some of you can look back three or four chancellors. Yet in some ways your life is now just beginning. I wish you a long and very busy retirement and hope that you will visit us often."

Peck added: "I believe the premiere institution in St. Louis is Washington University. That is due in large part to your dedication."

But the event was perhaps best summed up in a humorous exchange between Roloff and Robert Green, a 37-year veteran of Facilities Planning and Management and head of the Heating, Ventilation and Air Conditioning Department.

"Robert's experience is going to be hard to replace," Roloff remarked as Green made his way toward the podium.

"I know," Green replied without missing a beat.

In addition to Ellison, the medical school retirees and their years of service are: Joan K. Cooper, 14 years; Vernon L. Creasy, 28 years; Ann Galvin, 12

years; Loretta Giacometto, 22 years; Marilyn M. Gordon, 10 years; Doris A. Haley, 35 years; Norman L. Hente, 32 years; Paul P. Hipps, 26 years; George H. Jester, 22 years; James Jones, 23 years; Carol P. Keller, 26 years; Mary K. Keusenkothen, 16 years; Carol A. Ko Mor, 12 years; Roy D. Reid, 22 years; Alberto A. Rohales, 15 years; Mary J. Schmitt, 18 years; Carole N. Schultz, 30 years; Patricia J. Sullins, 33 years; Elvie L. Taylor, 10 years; Carole L. Wellie, 20 years; and Beatrice Wyllie, 13 years.

In addition to Green, the Hilltop retirees and their years of service are: Sheila Andrew, 20 years; Helen J. Cain, 10 years; Estella Cook, 13 years; Elaine A. Cox, 21 years; Phyllis J. Craig, 15 years; Svetlana Elberg, 19 years; Jean E. Elkins, 28 years; Jerry Lynn Ewing, 38 years; James V. Franklin, 28 years; Carver F. Hall, 10 years; Linda L. Hartmann, 13 years; Bennie Jean Hill, 22 years; Charles F. Huck, 40 years; David F. Jones, 18 years; Gregory G. Keutzer, 33 years; John W. Kowalk, 18 years; Catherine E. Kruger, 11 years; Venita Lake, 23 years; William L. Marsden, 22 years; Gordon Mason, 20 years; Robert A. McKay, 11 years; Ruth Mariam, 15 years; Despina L. Pashos, 12 years; Sharon A. Quinn, 19 years; Marilyn Rhodes, 30 years; Joan M. Schloemann, 16 years; Gilbert F. Schroeder, 19 years; Gerald M. Shickman, 10 years; Marcella A. Waddell, 34 years; Margaret M. Watkins, 20 years; Barbara Weston, 15 years; and Gloria W. White, 31 years.

Community

Program offers courses, urban seminars, field work

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which begins Aug. 29, includes "The History and Potential of Urban Living," led by Thomas Thomson, professor of architecture, and Harry Schwartz, an adjunct professor of architecture, and "Building Family and Community Assets," to be led by Sharon Homan, Ph.D., professor of community health, and Elizabeth Baker, Ph.D., assistant professor, both from Saint Louis University's School of Public Health.

The program's curriculum combines core and applied courses with urban seminars and field projects. The experience prepares practitioners for leadership and management positions and thus strengthens the capacity of local agencies to meet their communities' social service needs.

"The program provides a new and innovative educational opportunity for people interested

in making a difference in low-income areas," said Deborah Paulsrud, a lecturer at the social work school here who will serve as interim director for the program. "We hope the program provides a vestibule for ongoing graduate studies and that credit hours earned will transfer toward degrees offered by other schools and departments."

A unique public-private partnership, the program will receive \$225,000 from the St. Louis-based Danforth Foundation and about \$800,000 from the Missouri Department of Social Services. The funds will cover tuition costs for about 60 of the program's first participants, all of whom will be employees of state-funded agencies. Most of the first class of 19 students are employees of the St. Louis Caring Communities Program, a non-profit organization that operates an 18-site network of community-based social service centers in St. Louis' inner city.

For more information, contact Deborah Paulsrud by phone at 935-7263 or by e-mail at deb@gwbsw.wustl.edu.

Campus Watch

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

Aug. 12

9:28 a.m. — A contractor reported the theft of power tools worth \$6,300 from a vehicle parked near Simon Hall.

Aug. 17

6:17 p.m. — A staff member reported that several newly installed computer and electronic cables had been cut, causing damage between \$3,000 and \$5,000.

University Police also responded to 15 additional reports of theft, one report of trespassing, two additional reports of vandalism,

one attempted burglary report, one auto accident and three reports of unauthorized parties.

Crime advisory

A female student reported a purse-snatching in the 6600 block of Washington Avenue Wednesday, Aug. 19. The suspect is described as a black male, about 6 feet tall and slender. He fled in a faded maroon van with damage on one side.

University Police caution students to keep their doors locked and avoid unnecessary risks. Students are advised not to walk alone.

Sports Section

Bears prep for season

With only 11 seniors and 57 underclassmen in the fold for 1998, the football team figures to have a challenging road ahead. The Bears (6-4 in 1997) are searching for their fourth University Athletic Association (UAA) championship in five years but need to fill some holes to produce their ninth winning season in 10 years. Senior Alan Barnette and sophomore Greg Lake are battling for the starting quarterback position. The schedule opens Sept. 5 at Rose-Hulman Institute of Technology.

Women's soccer set for championship run

Fueled by the return of nine starters from a team that made its first-ever Final Four appearance and set a school record with 17 wins last season, 10th-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 top two scorers in Bear history. Junior forward Rachel Sweeney, UAA Player of the Year in 1997, set school records a year ago with 21 goals and 51 points. Senior forward Lori Thomas, the team's all-time leader with 40 goals, 22 assists and 102 points, is coming off her best season ever.

Men's soccer begins

Head men's soccer coach Joe Clarke's task in his second year is to continue building the team to make a run at its first UAA title since 1994. Clarke goes to battle with a solid corps of talent. Greg Rheinheimer returns after a 16-goal, 35-point junior campaign. He is flanked by three of the top six scorers from a year ago — senior midfielder Josh Katke and backs Bryan Cronin and Dan Gansler.

Aiming at new streak

With its string of six consecutive national titles snapped last season, the volleyball team looks to begin a new streak in 1998. With 10 of 13 letterwinners and five of six starters back, including first-team All-Americans Jennifer Martz and Jenny Cafazza, the chances of the Bears bringing home their eighth national crown in the last 10 years are very good. Martz led the nation in hitting last season (.495) and was named the UAA's Most Valuable Player for the second straight year. Cafazza earned All-America honors last season after hitting a career-best .322.

Compiled by Kevin Bergquist, director, sports information, and Keith Jenkins, asst. director, sports information. For up-to-date news about Washington University's athletics program, access the Bears' Web site at rescomp.wustl.edu/~athletics/.



Setting up house School of Business graduate students (from left) Ramesh Shettigar, Rahul Deshmokh and Prashant Patri, all from India, get help from furniture delivery freelancer Ed Mahr as they carry a couch frame they purchased last week at the Furniture Exchange. Each year, the shop 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 935-5206.

Fossett

Solospirit.wustl.edu records 11.5 million hits

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record of 10,360.61 miles, set in January 1997. He was aloft a total of eight days, 13 hours, 58 minutes.

Science payload

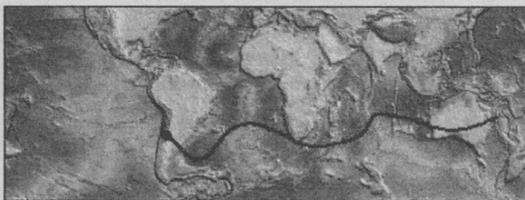
Solo Spirit's science payload and the Web site were the domain of Raymond E. Arvidson, Ph.D., professor and chair of earth and planetary sciences in Arts and Sciences. Arvidson and department members Edward A. Guinness, Ph.D., senior research scientist; Susan Slavney, systems programmer analyst; Thomas C. Stein, computer systems coordinator; and Judd Bowman, systems analyst and a 1998 engineering graduate, managed the aerobot payload of scientific instruments that helped the mission control team and Fossett throughout the flight.

"We accomplished everything that our lab set out to do, including setting up 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 aerobot recorded its readings and beamed them to a

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, sky radiance, altitude and speed, among other parameters — on the Web site, which recorded 11.5 million hits.

A violent thunderstorm Aug. 16 brought a swift end to Fossett's flight, sending the balloon plummeting into the Coral Sea east of Australia. Fossett was able to soften the impact a little by cutting fuel tanks loose just 1,000 feet above the water and miraculously was unhurt in the landing.



Solo Spirit traveled 63 percent of the distance around the Earth. This view of Fossett's route was one of a number of maps on the Web site.

The capsule immediately caught fire, capsized and submerged. Fossett took his emergency beacon and life raft and dove through the hatch into the ocean. He floated in the raft overnight until a French rescue plane from New Caledonia spotted him the next morning. It was 24 hours after the crash that the Australian schooner Atlanta picked him up.

Fossett had had other hair-

raising episodes during the flight, including a fire Aug. 7 and menacing winds over the Indian Ocean. But he made a critical eastward turn at mid-afternoon Aug. 14, setting a course directly for the western coast of Australia.

His speed accelerated and spirits soared among his mission control team in Brookings Hall. The improving conditions and accumulating successes of the trip made its abrupt and harrowing end an even greater disappointment. "The bottom line," chief meteorologist Bob Rice said Aug. 17, "is that a cloud cell of maybe 5-10 miles in diameter offset the achievements of a flight that covered over half a globe. A major disappointment," Rice

acknowledged, "but a flight that proved that a manned balloon can fly around the world, as there's little doubt in my mind that aside from that brief moment, the balloon would have reached Argentina, to complete the elusive global flight."

In addition to recording the aerobot data, the Web site provided a way to do near real-time tracking of the mission by maps, animations and narrative reports. The maps and narratives were the two most popular features of the Web site. There was an educational component on the Web site as well that provided geographical and environmental activities and exercises using aerobot data.

"We got lots of e-mail from teachers who were following the mission with great interest and wanted to do some lessons with it," Guinness said.

Both Arvidson and Guinness praised the role that students played at mission control.

"The students were invaluable and quite dedicated," Guinness said. "They worked closely with team members throughout.

Towards the end, when we lost contact with Steve, the students immediately generated information on the last data we got from him. By keeping track of that data, during the recovery and rescue phase, that information was right there and important to the rescue."

University students working in the Arvidson group were: Heather Brouillet, from Bloomington, Ill.; Brian Ebel, Chesterfield, Mo.; Sarah Johnson, Lexington, Ky.; and Stephanie Nelson, Livonia, Mich.

High school students were Robert Guinness, Webster Groves, Mo., a senior at Christian Brothers College High School, Clayton, Mo., and Anna Mracek, Creve Couer, Mo., a junior at Mary Institute and Country Day School, Ladue, Mo.

Wyssessions

Family moves to residential college

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A.H. Shepley and Burton M. Wheeler upperclassmen houses constitute Eliot College — the South 40's inaugural residential college.

The subset community of about 465 students ushers in the University's new philosophy in student housing. The aim is to provide students an enhanced sense of kinship, expanded programmatic choices, additional common areas for study or gathering and increased faculty and staff presence and support.

The Wyssessions are fulfilling the last charge.

"We're not that large a university," said Justin X. Carroll, assistant vice chancellor and dean of students, "and students come here with expectations that they'll have opportunities to know faculty in a variety of ways — some outside the formal setting of the classroom.

"The Faculty Fellows will take a very active role in shaping the direction of the community," said Carroll of the plan to add seven more live-in fellows over the next five years. "They'll help us bring together and fuse the intellectual and social activities of the South 40 in a more purposeful way."

Said McLeod: "Michael is a distinguished member of the faculty. He is deeply engaged in the undergraduate experience. He's a member of the Undergraduate Council, he has taught very popular undergraduate courses. He's an articulate and thoughtful citizen of the community. We value that and want him a part of the scene there."

"Although I would hasten to add that he — just he — isn't the point," McLeod continued. "Joan and Willie are part of the Wyssession family. And it is the Wyssession family that is taking on this role."

You might as well meet Willie first, unless he's already found you. "Willie is a real magnet for the students," Michael said. "It's an adventure for them to have Willie crawling under the tables and untying their shoelaces and spilling Rice Krispies. If they don't come over and initiate something, he goes over. 'What are you eating? What's that on your head? Why do you have a ring through your nose? Can I have that french fry?' He mooches like you would not believe. We're begging students, please don't feed the Willie!

"But many students who would not normally approach us have that gap immediately bridged by Willie," he said. "It's like he has 500 brothers and sisters."

Which would make Joan...? "I've heard myself referred to as everything from the First Lady to Dorm Mom — which I'm slightly horrified about," she said with an ever-present smile.

"My role will definitely be informal, and I consider it a privilege and a pleasure," she said. "I'm at home with Willie full time, so that's my primary responsibility. We want to make sure he's well taken care of in this environment. Having said that, I'm around a lot. I'm eating in the Bears' Den. I'm shopping at the Bears' Mart and at Bear Necessities. Anything with 'Bear,' I'm there!"

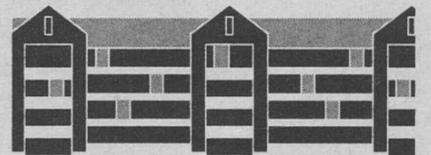
Michael views his own role as multidimensional. "There are going to be two very different aspects to my being here," he said. "One is obvious: I will be another resource for the students. For some of the students. Like any resource, some of the students don't have anything to do with it and some of them do. You hope that you have enough resources out there to reach everybody.

"In a slightly larger sense, I can bring a little bit more of the Hilltop down here," he said. "We've talked about having functions where faculty friends of mine from different departments come down here and give presentations on a major, what jobs are available, what research you can do. We've also talked about having some larger functions, like field trips perhaps.

"I think much more importantly, however, I will be an ambassador from the Hilltop to the South 40," he said. "I really feel like we are foreigners in a different land. They speak a different language here, they listen to different music, they eat different food."

Running with the analogy, Michael continued, "An ambassadorship shows a real act of good faith on both sides. I look forward to being the faculty member on the Undergraduate Council who can say, 'This is what students are saying and this is what they're worrying about and this is what their issues are and this is what's really going on with freshmen these days.'"

But like an ambassador in a foreign land, the Wyssessions will have no legal jurisdiction. They are not housemothers or enforcement officers — nor do they desire to be.



"We don't really have a right to tell someone, 'No, you can't do this,'" Michael said. "There's a whole infrastructure here — with resident advisers and residential college directors and campus police — designed to deal with those issues."

Issues such as noise. Ten students will live directly overhead. Perhaps they should know that Michael, a renowned earthquake expert, has seismographic equipment at his disposal.

Said Carroll with a grin, "We did do some practical things to help with insulation — I will admit to that."

The Wyssessions' motivation for the move ran deeper than the surface. Joan, who focused on Buddhism as a history and literature of religion major, said it was time to simplify their lives and pare down their possessions.

"We had a lovely, charming, small three-bedroom home in a quiet neighborhood," Joan said. "Completely different from what we're doing now. But we spent hours of our lives landscaping and doing home repairs and buying furniture — and that's not in line with who I am."

Michael added: "In that sense, we very much look at this as trading time spent cooking, washing, shopping, cleaning, mowing, mulching, raking, scraping, painting — all that stuff — to time spent socializing with students. So this was a wonderful opportunity to change our lives in a direction that we wanted them to go anyway. Less time maintaining material things and more time being with people."

And people. And people. "We're a rather private family — or we have been!" Joan said. "So this has been very surreal. I feel like I'm on 'The Truman Show!' Everyone knows us — or of us."

McLeod, who made the fateful phone call and talked fast, now wears a relaxed smile. "We have no requirements," he said of the Wyssessions. "It's a plan to be developed among the members of that small community under Michael's leadership. It's very exciting to me because I know what a powerful experience it will be for students. The whole ambience of the place will be different."

Just remember to step over Willie's Rice Krispies and, please, don't share your fries.

Employment

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

Hilltop Campus

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

Secretary 980321
Director of Information Technology 980340
Costume Shop Supervisor (part time) 990010
Assistant Director of Admissions 990011
Director of Corporate Relations 990013
Director, Overseas Programs 990014

Funding and Development Assistant 990015
Department Secretary 990022
Switchboard Operator (part time) 990028
Senior Project Leader 990029
Assistant Intramural Director 990030
Library Assistant-Archives 990032
Editorial and Public Relations Assistant (part time) 990033
Programmer Trainee 990034
Accounts Receivable Service Representative 990036
Department Secretary 990037
Research Assistant 990038
Regional Director of Development 990039

Secretary/Technical Typist (part time) 990040
Administrative Secretary 990041
Administrative Coordinator 990043
Administrative Assistant 990044
Financial Analyst 990047
Legal Assistant/Legal Secretary 990048
Accountant 990049
Communications Technician I 990050
Research Assistant 990051
Department Secretary 990052

Medical Campus

This is a partial list of positions at the School of Medicine.

Employees: Contact the medical school's Department 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.
Clerk II 990218
Purchasing Assistant I 990230
Senior Analyst 990231
Senior Departmental Accounting Assistant 990240
Purchasing Assistant 990249
Secretary II 990259
Network Technician I 990329
Ultrasound Technician 990335
Social Worker/Family Therapist 990359

Notables

Of note

James K. Bashkin, D. Phil., assistant professor of chemistry in Arts and Sciences, was one of a group of scientists to receive the 1998 Presidential Green Chemistry Challenge Award at a ceremony held at the National Academy of Sciences in Washington, D.C. Bashkin was among the scientists honored for their role in the invention of a process to manufacture 4-aminodiphenylamine (4-ADPA), an important raw material in manufacturing many products that help rubber resist oxidation, ozone attack and flex fatigue. The process provides dramatic reductions in chemical waste and waste water generated in the rubber chemicals industry. The process also eliminates the use of chlorinated benzenes — chemicals that harm the environment — and stops the use of a toxic solvent, while improving process safety and reducing production costs. ...

The designs of three graduate students in the studio of **Mark DeKay**, assistant professor of architecture, were among the winning entries in the 1998 Leading Edge Design Competition, sponsored by the California Energy Commission. **Sarah Davis** won second place and **Laura Dulski** and **Henry Mahns**, as a team, received an Award of Merit in the international competition to design an elementary school that is both energy efficient and environmentally responsive. 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 DeKay's studio used Energy Scheming software for their analysis. ...

Stephen H. Legomsky, J.D., D.Phil., the Charles F. Nagel Professor of International and Comparative Law, has received the School of Law's triennial Alumni Award for Distinguished Teaching. This summer, with support from the German Marshall Fund, he spoke on migration and refugee issues at comparative law confer-

Jenkins named sports information assistant director

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

Jenkins is responsible for promotion and publicity of the University's nationally prominent intercollegiate women's programs, including women's basketball, the 1998 NCAA Division III national champions.

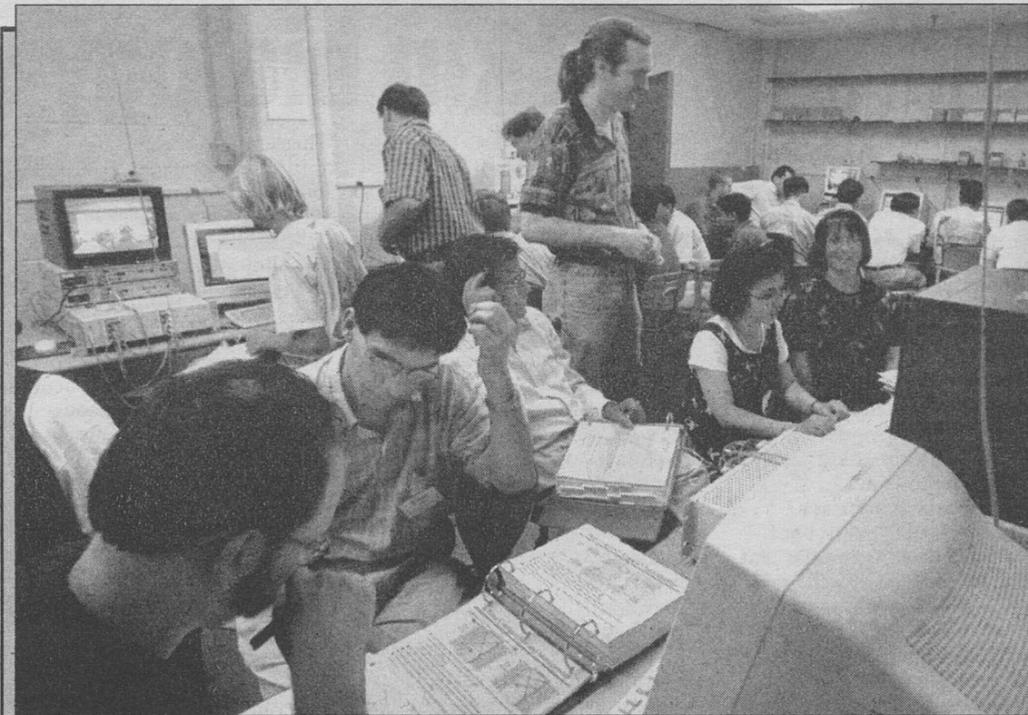
The Bears' volleyball team has captured seven of the last nine national titles and the women's soccer team made its first final four appearance in 1997.

Jenkins also will oversee men's and women's cross country, swimming and diving and track and field, as well as the women's tennis team.

A native of Marion, Ohio, Jenkins graduated from Northwestern University in 1997 with bachelor's degrees in economics and communications. He spent the 1997-98 school year working in the athletic media relations office at Northwestern.



Jenkins: Arrives from Northwestern



Picking up speed John Dehart, (standing, center), senior research associate in computer science, helps out at one of two National Science Foundation workshops held here this summer to train 60 researchers from around the country in ultra high-speed networking technology. Jonathan S. Turner, Ph.D., chair of the Department of Computer Science and the Henry Edwin Sever Professor of Engineering, and his colleagues in the School of Engineering and Applied Science developed the technology. Participants attended lectures and laboratories and left with gigabit network kits consisting of a switch and six network interface cards that plug into workstations. They will try to apply the technology and then return here in six months to report on their progress.

ences in Potsdam and Konstanz, at the Max Planck Institute in Heidelberg and at the University of Freiburg and the University of Tübingen. He also spoke at migration conferences in Paris and at the University of California. ...

Walter H. Lewis, Ph.D., professor of biology in Arts and Sciences, recently received an honorary Doctor of Science from the Faculty of Science at University of Waterloo in Ontario, Canada. Lewis gave the traditional convocation address honoring the university's graduating students. The address was titled "Science from the Old to the New Millennium," a brief tracing of science achievements through two millennia. Lewis is a native of Ontario, and was given the honorary degree for his accomplishments in plant biology. ...

Jonathan B. Losos, Ph.D., associate professor of biology in Arts and Sciences, is one of two co-winners of the David Starr Jordan Prize, an international prize awarded every three years to young scientists making novel, innovative contributions in one or more areas of Jordan's interests. These include evolution, ecology, population and organismal biology. The prize was established in 1986 by Cornell, Indiana and Stanford universities, to honor Jordan, a scientist, educator and institution builder, with important ties to each institution. The other winner is Loren Rieseberg, Ph.D., of Indiana University. The prize recognizes young scientists whose research is likely to redirect the principal focus of their fields. Losos, an evolutionary biologist and ecologist, splits the \$15,000 prize, and in the forthcoming academic year, will visit Cornell, Indiana and Stanford universities to give a presentation of his work. ...

May graduate **Timothy Miller**, M.D., Ph.D., recently received the 1998 Needleman Award from the Division of Biology and Biomedical Sciences. This award is given to a graduating student who has demonstrated outstanding achievements in pharmacology. The division also named **Rachael M. Easton** the 1998 recipient of the Jakschik Award. This honor recognizes an outstanding female graduate student, in her final year of doctoral research, whose work has focused on metabolic regulation. ...

Kelle H. Moley, M.D., an instructor in obstetrics and

gynecology, has received a six-year \$532,400 Career Award in the Biomedical Sciences from the Burroughs Wellcome Fund in Durham, N.C. The funding will provide three years of postdoctoral support and three more years of support after Moley obtains a faculty position. The awards foster the development of promising researchers, helping them make the transition to becoming independent investigators. Moley is one of the few people in the world studying the effects of high glucose levels on the development of embryos, which risk malformation or spontaneous abortion in diabetic mothers. ...

Thomas Thomson, professor of architecture, and **Tim Franke**, assistant professor of architecture, recently took second place in an international competition sponsored by the Diocese of Joliet to design a village center for the community of Channahon, Ill. The competition called for a development plan that would interweave a series of public places with commercial, residential and cultural activity areas in the village of roughly 7,000 residents. Although founded in the early 19th century, Channahon never developed a traditional town center. More than 130 teams submitted proposals in the competition. Thomson and Franke's proposal calls for landscape and architectural solutions that integrate the surrounding farmland and prairie with the fabric of village life. ...

Pamela K. Woodard, M.D., assistant professor of radiology, has been elected a fellow of the American College of Chest Physicians. She will participate in a convocation ceremony at the society's annual meeting in November in Toronto, Ontario. ...

Guofu Zhou, Ph.D., associate professor of finance, has been chosen as the Marcile and James Reid Professor for 1998-99 in the John M. Olin School of Business. The professorship, which includes a cash stipend and is a reward for excellence in teaching, was established in 1994 in honor of the Reids, now deceased.

On assignment

Samuel E. Dagogo-Jack, M.D., assistant professor of medicine, recently was elected president of

the board of directors of the American Diabetes Association's St. Louis Chapter. ...

Gruia-Catalin Roman, Ph.D., professor and chair of the Department of Computer Science, recently attended three professional meetings in Japan. He co-chaired a working track on mobile computing as part of the ninth International Workshop on Software Specification and Design held in Ise-Shima. He also chaired a panel discussion on "Computing and Communication in the Age of Mobility" in conjunction with the International Conference on Software Engineering held in Kyoto. Roman and Professor Carlo Ghezzi of Politecnico di Milano co-chaired the Workshop on Computing and Communication in the Presence of Mobility.

On display

A show of drawings highlighting the last 10 years of work by **Meton Gadelha**, associate professor of architecture, recently opened at the Centro de Arquitetura e Urbanismo do Rio de Janeiro. Among his noteworthy projects, Gadelha served as the senior designer for the IBA Flottwellstrasse building competition won by Daniel Libeskind in Berlin.

Speaking of

In a trip to Israel, four trips to Europe, two to Latin America, and one to the Far East, **Stanley L. Paulson**, Ph.D., J.D., professor of law, delivered 33 invited guest lectures and lead conference papers in 15 countries. He will serve as co-director of four conferences on the work of legal theorists during the next year.

To press

An article by **A. Peter Mutharika**, LL.B., LL.M., J.S.D., professor of law, titled "Creating an Attractive Investment Climate in the Common Market for Eastern and Southern Africa Region," was published in ICSID Review — Foreign Investment Law Journal. Mutharika also recently spent time in Malawi working on economic development matters. He was elected an international representative and a member of the executive committee of the United Party of Malawi and participated in a United Nations Development Programme conference on a long-term development strategy for Malawi.

Guidelines for submitting copy:

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

Campus Authors

Gerald L. Early, Ph.D., the Merle Kling Professor of Modern Letters in Arts and Sciences

The Muhammad Ali Reader

(The Ecco Press, 1998)

Every so often, a sports figure takes America by storm, grabbing headlines and rising to superstardom in a flash of fame. But rarely does a sports figure grip the attention of the entire world — and maintain it through four decades.

Muhammad Ali is such a man, arguably the finest athlete of the 20th century, and incontestably one of the most famous Americans of his time.

He is known the world over not only for his boxing prowess but for his rebellious courage and resilience against controversy. He has been both underdog and champion, villain and prince, playboy and staunch Muslim, exalted American and punished conscientious objector. He was the ultimate athlete — Heavyweight Champion of the World — and today confronts the physical debilitations of Parkinson's Disease.

A one-of-a-kind volume, "The Muhammad Ali Reader"

collects more than 30 of the best writings about this boxing legend in an incredible anthology by the greatest about The Greatest. This

is the amazing story of Muhammad Ali — and the world's reaction to him — told by a stellar array of authors, athletes and social commentators.

Organized by decade, each chapter begins with a few opening remarks by Ali himself, and a 16-page photo insert captures the Champ in all his guises. With an introduction by editor Gerald Early, one of the finest contemporary writers on boxing, "The Muhammad Ali Reader" confirms Ali's standing as one of the most controversial and charismatic Americans of our time.

(Excerpted from book jacket.)



Early: Edited and wrote introduction

A recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (School of Medicine).

Washington People

Leading the way in skin biology studies

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

BY BARBRA RODRIGUEZ

Clinician. 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 if someone had asked him early on which meant 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 these days with administrative and patient duties. But his strength in both research and clinical practice were evident early

to the genetic underpinnings of skin diseases to the role enzymes 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 P. Pentland, 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 Montagna, 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 1962, in which he heard the lecture that would set the future course of his research career.

Jerome Gross, M.D., now emeritus 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 tailskin of tadpoles, where it is thought to help turn the torpedo-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 of biochemistry and molecular biophysics, he soon formed a team of investigators who purified and cloned similar degradative enzymes 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 dermatology division is leading the way in this dynamic area of

investigation, searching for the role these enzymes play in normal biology and disease.

"Eisen has built a strong research group that has remained at the forefront of connective tissue research for several decades," said Jouni Uitto, M.D., Ph.D., chair of the Department of Dermatology and Cutaneous Biology at Jefferson Medical College in Philadelphia.

The enzymes they study earn their keep by doing major and minor remodeling jobs during tissue development and when the finished products need sprucing up or modification. The enzymes help the uterus shrink back to normal size after a baby is born,

can play a role in inflammatory diseases such as rheumatoid arthritis and cancer.

Blocking tumor invasion

Eisen and long-time collaborator Jo L. Seltzer, Ph.D., research associate professor of medicine, are determining how these enzymes become activated and promote cancer metastasis. For this to occur, tumor cells must detach from their tissue of origin, spread locally and eventually enter the bloodstream or lymphatic system. Metalloproteinases are thought to be crucial for this movement, acting like a snowplough that clears away tissue material in the cancer cells' way.

"If you can inhibit the enzymes or interfere with them, it appears you can block tumor cell invasion," Eisen said.

He has helped isolate and characterize several members of a family of natural inhibitors of metalloproteinases. Called tissue inhibitors of metalloproteinases, or TIMPs, these proteins are thought to be too large to be of much use therapeutically. However, drug companies are in hot pursuit of smaller, synthetic versions of the inhibitors, some of which hold promise of halting cancer progression in patients in clinical trials.

In his spare time, Eisen runs about 15 miles a week, as he has done for two decades. And he spends time with his wife, Mimsie, who teaches private piano lessons in the Ladue area. "She's an incredibly supportive person and a good person to bounce problems off of," he said.

The couple play golf together and spend time in St. Louis with the family of their daughter, Phyllis Kane, one of their three grown children. The Eisens also travel regularly and particularly enjoy visiting colleagues 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."

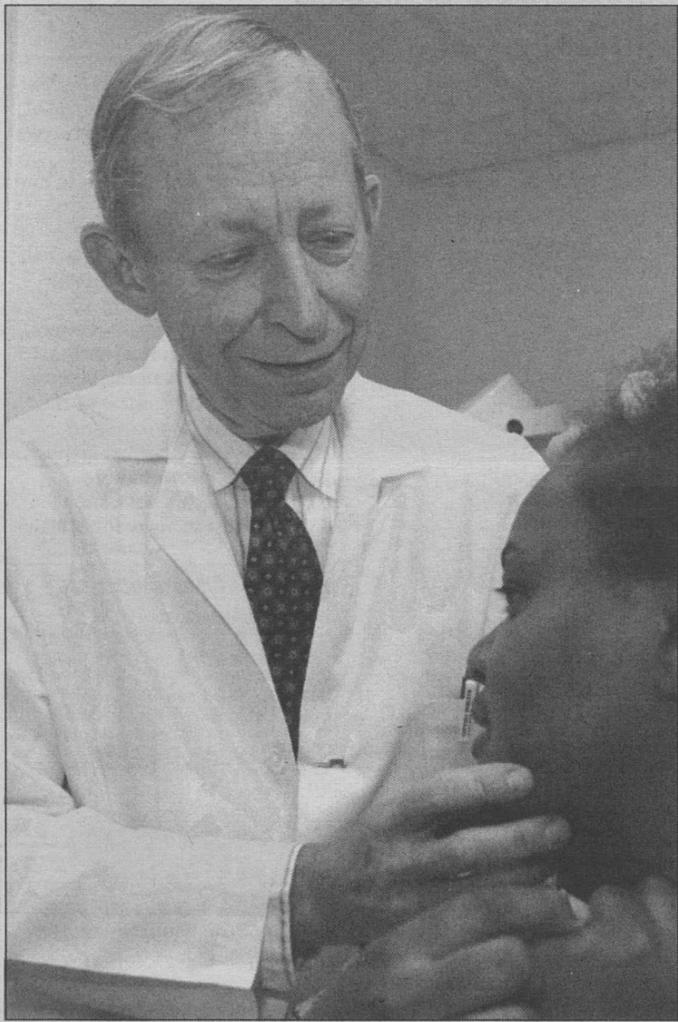
"Eisen's greatest legacy has been the people he has trained and his ability to focus on scientific excellence."

EUGENE BAUER

remove outer layers of skin damaged by exposure to the outside world and rebuild the bones in a process thought to occur 10 times in the average person's life span.

Eisen has relished determining the protein targets of metalloproteinases, how the enzymes work and when and where they are called into action to maintain normal tissue architecture during wound healing and other situations. "We felt like someone handed us the keys to a Rolls Royce, and we've been enjoying 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 metalloproteinase activity during disease. When overproduction of metalloproteinases occurs, they



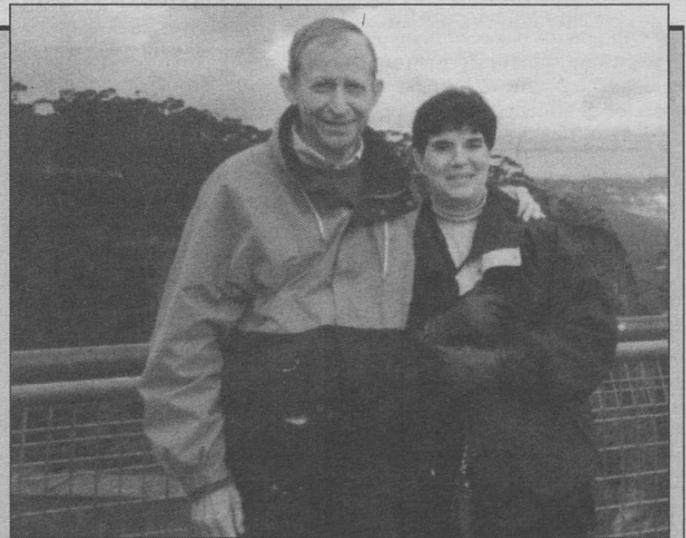
In a follow-up visit, Arthur Z. Eisen, M.D., checks the progress of patient Joyce Jones, whom he is treating for a condition called dermatosis papulosa nigra.

in his career: In 1971 he collaborated with Thomas Fitzpatrick, M.D., Ph.D., now emeritus professor of dermatology at Harvard Medical School, to write one of the first comprehensive dermatology textbooks.

Now in its fifth edition, "Dermatology in General Medicine" is widely regarded as the leading dermatology textbook, and Eisen has gained recognition both for creating a top-notch dermatology division and for promoting the development of high-caliber clinical dermatologists.

"Eisen's greatest legacy has been the people he has trained and his ability to focus on scientific excellence," said Eugene Bauer, M.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



Arthur and Mimsie Eisen enjoy opportunities to travel, including "down under" to this resort area near Sydney, Australia.

Arthur Z. Eisen, M.D.

Born: Toronto, Canada; raised in Buffalo, New York

Education: Medical degree from the University of Pennsylvania in 1957.

Previous roles at the University:

On the consulting staff at Jewish and St. Louis Children's hospitals and at the John Cochran Veterans Administration Medical Center.

Goal: To maintain high-quality clinical and research training in the Division of Dermatology