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Record

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 22 No. 30 April 30, 1998

Mario Cuomo to keynote Goldfarb Hall dedication

Mario Cuomo, former New York governor and progressive mainstay of the Democratic Party, will provide the keynote address when the George Warren Brown School of Social Work dedicates its newly constructed Alvin J. Goldfarb Hall Friday, May 1.

Nearly 500 of the school's faculty, staff, students and invited guests are expected to turn out for the lecture, which will be deliv-

ered during a formal dedication ceremony honoring Goldfarb and other significant donors to the school's building campaign.

During his 12 years at the helm of one of the nation's most populous states, Cuomo established New York as a leader in responding to a range of social crises sweeping the nation. He created the country's most extensive drug treatment network, its largest program of housing assistance for the homeless, a nationally recognized plan for AIDS prevention and treatment and tough but constructive new approaches to criminal justice, particularly in the area of drug-related crime.

Cuomo launched the nation's first real alternative to welfare and a revolutionary

10-year commitment to New York's children called "The Decade of the Child."

He also steered New York through two recessions, balanced 12 consecutive budgets and created more than half a million jobs. His record, which includes successful initiatives dealing with economic development, trade, competitiveness and other fiscal issues, has drawn praise from across the political spectrum.

"Mario Cuomo has for years been hailed as both the philosopher-king and the humble 'conscience' of the Democratic Party, a formidable, saintly genius of liberalism," said The National Review, one of the nation's leading conservative magazines. "Since his efflorescence at the 1984 Democratic convention, even many conservatives have accorded this, their archenemy, a certain respect."

Since leaving public office in 1994, Cuomo has returned to the practice of law as a partner in the New York firm of Wilkie, Farr and Gallagher, where he conducts a practice in national and international corporate law. Since 1997, he has been co-chair, with William Bennett, of the Partnership for a Drug-Free America.

The Goldfarb Hall dedication will include a reception and tours of the building for the event's invited guests.



Mario Cuomo will speak at the dedication of the George Warren Brown School of Social Work's new Alvin J. Goldfarb Hall.

WU is mission control for Fossett's August trip

Adventurer Steve Fossett has announced that he will make his fourth attempt to circumnavigate the Earth by balloon in August from Mendoza, Argentina.

Fossett was in Stamford, Conn., Saturday evening, April 25, to receive the "Pilot of the Year Award" from the International Order of Characters (IOC), a group of distinguished aviation personalities, when he announced his plans.

Fossett ended his last attempt to make aviation history Jan. 5, when he landed his balloon, Solo

Spirit, in a wheat field near Krasnodar in southern Russia. Taking off New Year's Eve 1997 from St. Louis' Busch Stadium, he flew 5,802 miles, achieving the second-longest balloon flight in aviation history, exceeded only by his own epic journey earlier in 1997 from St. Louis to India, a journey of 10,361 miles.

If all goes as planned, Fossett will take off from Argentina's wine country in the foothills of the Andes Mountains during August. He will go northeast over Argentina, Paraguay and Brazil,

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Giving prominence to poetry

St. Louis Mayor Clarence Harmon reads Langston Hughes' poem "Deferred" Saturday, April 25, at the Midwest launch of Poet Laureate Robert Pinsky's Favorite Poem Project, held in Simon Hall's May Auditorium. The project has held similar poetry readings in New York, Washington, Boston and Los Angeles featuring prominent political leaders, celebrities and other Americans of all ages and walks of life.

Reducing teen HIV is GWB project goal

As if troubled teen-agers in foster care didn't have enough problems already, research shows that family instability, home disruptions and mental health problems often place these adolescents at an especially high risk of HIV infection.

Changing teen behavior can be an incredible challenge, but students and faculty of the George Warren Brown School of Social Work will try to do just that this summer as they team with the

Independent Living Program of the Missouri Division of Family Services to test a novel HIV prevention program among 430 teens in St. Louis County foster care programs.

Funded by a \$2.2 million grant from the National Institute of Child Health and Human Development (NICHD), the pilot study will rely on a two-pronged approach that couples an intensive HIV education program with an incentive system that rewards teens by helping them save for

their futures using Individual Educational Savings Accounts.

The use of savings incentives is an outgrowth of work by Michael Sherraden, Ph.D., the school's Benjamin E. Youngdahl Professor of Social Development and director of the Center for Social Development. Sherraden's work on asset building and Individual Development Accounts is being tested across the country as a vehicle for helping low-income people save their way out of poverty.

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Arts and Sciences gives first alumni awards

Arts and Sciences at Washington University is holding an inaugural event to celebrate the achievements of alumni and special friends at 4 p.m. Friday, May 15, in Ridgley Hall's Holmes Lounge.

Five alumni who have attained distinction in their academic or professional careers and have demonstrated service to their communities and to the University will receive the first annual Arts and Sciences Distinguished Alumni awards. The Dean's Medal will be awarded to William H.

Danforth, chairman of the Board of Trustees, for his dedication and service to Arts and Sciences.

The five alumni being honored are Judith Spector Aronson, A.B. '48, Ph.D. '67; Kenneth L. Fox, A.B. '38; Earle H. Harbison Jr., A.B. '48; John P. Heinz, A.B. '58; and Marvin E. Levin, A.B. '47, M.D. '51.

"Arts and Sciences alumni all over the globe are engaged in an enormous variety of interesting occupations and activities," said Edward S. Macias, Ph.D., executive vice chancellor and dean of

Arts and Sciences. "We have created this new Distinguished Alumni Award to recognize and honor just a few of our many graduates and special friends who have made outstanding contributions to the world in which we live. We are delighted to highlight their splendid achievements, and we look forward to honoring many more of our Arts and Sciences alumni and friends in the years to come."

Aronson has long been a local and national advocate for

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Arbor Day planting

José Rodriguez (left) and José Chavez of Top Care Inc., the University's lawn service contractor, lower a pink dogwood into the ground in front of the Women's Building Friday, April 24 — Arbor Day. A number of trees were planted on campus last week in honor of Arbor Day and Earth Week.

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Study finds two older, cheaper drugs might lower blood pressure more effectively

Fighting parasites 3

Stephen M. Beverley, Ph.D., disarms a deadly tropical parasite with genetic tools

National project 6

School of Architecture students assess multifamily dwellings for disability access

Medical Update

Diuretics, beta-blockers best drugs for high blood pressure

Physicians use a small arsenal of newer drugs — including calcium channel blockers, ACE inhibitors and alpha-blockers — to lower high blood pressure. But the results of a study published in the March issue of Hypertension show that two older, less expensive types of drugs, diuretics and beta-blockers, might lower blood pressure even more effectively.

This study, coordinated by School of Medicine hypertension specialist H. Mitchell Perry Jr., M.D., analyzed data from 6,100 veterans treated at six Hypertension Screening and Treatment Program (HSTP) clinics of the U. S. Department of Veterans Affairs (VA).

"The regimens of diuretic or diuretic plus beta-blocker gave the lowest average pressures and calcium channel blockers the highest," said Perry, professor emeritus of medicine at the medical school and physician coordinator for hypertension for Veterans Affairs. "There is a big difference in regimen efficacy, and it is statistically significant even after

we correct for age, race and geographic region."

The study involved veterans receiving outpatient care at HSTP clinics in St. Louis; Indianapolis; Iowa City, Iowa; Memphis, Tenn.; Jackson, Miss.; and San Juan, Puerto Rico. These physician-supervised clinics, staffed by nurses and physician assistants intensively trained in hypertension, were established in 1974 by the Veterans Administration, as it was then called.

The physician-coordinators and staff members were allowed to choose which antihypertensive regimen to follow. They also could decide how aggressively to pursue the HSTP-recommended diastolic blood pressure goal.

The 46-month hypertension study, which ran from May 1989 to February 1993, did not follow a traditional randomized model. Instead, it relied on "real-world" data collected from clinicians who were interested primarily in treating patients and trying to find the medical regimen that would most effectively bring down blood

pressure with a minimum of adverse effects.

"Unlike the more rigid, double-blind, placebo-controlled studies, this one simply says that we have a group of hypertensive patients and we're going to let the individuals who provide the care decide which drug to use and how enthusiastically to push it," Perry said.

The patients were a diverse group. Their average age was 60.7 years, 53 percent lived in five southeastern states, 36 percent were black and 14 percent were Hispanic, 23 percent smoked and 10 percent had diabetes mellitus. Of the 6,025 men and 75

women, 46 percent had damage to retina, heart, peripheral blood vessels, kidney or central nervous system — all organs that are affected by high blood pressure.

Each time a patient visited an HSTP clinic, the staff recorded items of clinical importance, especially blood pressure and medication data. Some patients were taking no antihypertensive drug, while others were taking one or more drugs from the list of common agents: diuretics, beta-blockers, ACE inhibitors, calcium channel blockers or sympatholytic agents that were not beta-blockers. Some 54 percent took a diuretic, most commonly hydrochloro-

thiazide, and 33 percent took a calcium channel blocker, most often verapamil.

Researchers from the VA Coordinating Center in Perry Point, Md., divided these regimens into 12 categories and analyzed them. The results were decisive: The regimens of diuretic or diuretic plus beta-blocker produced the lowest average pressures (140.1/81.9 mm. Hg) and calcium antagonists the highest (149.0/86.5 mm. Hg).

All of the medications brought some patients down to the HSTP goal. But the pattern of lower treated pressure with the older

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Microvascular surgeon to speak as 1998 Brown Visiting Professor

As the 1998 James Barrett Brown Visiting Professor in Plastic Surgery, Joseph Upton, M.D., will visit the School of Medicine May 7, 8 and 9. Upton, a specialist in microvascular surgery and tissue engineering, is a clinical professor of plastic surgery at Harvard Medical School.

He will deliver a resident grand rounds titled "Congenital Hand Anomalies" from noon to 1 p.m. May 7 in the third floor auditorium of St. Louis Children's Hospital. On May 8, Upton will give a microsurgery seminar and make case presentations. He will deliver his main

lecture, "Tissue Engineering," from 8 to 9 a.m. May 9 in Steinberg Auditorium.

Upton is world-renowned for his innovative use of microsurgery in solving complex reconstructive problems. He studies pediatric upper limb surgery with special emphasis on congenital malformations, the genetics of limb bud formation and embryology and tissue engineering, with special emphasis on bone and cartilage.

The family of James Barrett Brown established the James Barrett Brown Professorship in 1969, two years before Brown's death. The professorship brings a

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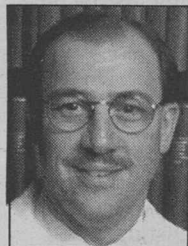
Dedicating the Martha Mae Lasché Technology Laboratory

On April 25, William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; Martha Mae Lasché, B.S. '50, (center) a retired national public health official; and M. Carolyn Baum, Ph.D., the Elias Michael Director of the Program in Occupational Therapy, attended the dedication of the Martha Mae Lasché Technology Laboratory at 4444 Forest Park Ave. The dedication was held during the 1998 Program in Occupational Therapy Alumni Reunion. Lasché's donation funded the occupational therapy technology laboratory, which is used by students pursuing their master's degrees in occupational therapy.

Eberlein named interim director of Cancer Center

Timothy J. Eberlein, M.D., has been named interim director of the Cancer Center at the School of Medicine, Barnes-Jewish Hospital and BJC Health System.

The appointment was announced by William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school.



Timothy J. Eberlein

Eberlein, who joined the University in January, is the Bixby Professor and head of the Department of Surgery. He also is surgeon-in-chief at Barnes-Jewish Hospital. "Tim Eberlein is an internationally recognized surgical oncologist whose knowledge and leadership will be invaluable as we move forward in our efforts to become one of the best cancer centers in the United States," Peck said.

As interim director, Eberlein will lead a search committee for a permanent director, with hopes that the person will assume this position by the spring of 1999. Eberlein also will oversee efforts begun in 1995 to prepare Washington University to become a National Cancer Institute-designated comprehensive cancer center. The designation can be likened to a "five-star" rating because it pro-

vides official recognition of an institution's status as a premier source of cancer research and patient care. Nationally, 32 comprehensive cancer centers have received such recognition.

"An enormous amount of activity and enthusiasm has been generated to make the Cancer Center a reality," Eberlein said. "My job will be to integrate the clinical and basic science programs into comprehensive, disease-focused units, taking full advantage of the enormous talents and expertise throughout the School of Medicine and BJC Health System."

The National Cancer Institute (NCI) has provided the medical school with \$1.1 million in grants since 1995 to help with prepara-

tions before applying for the designation. Barnes-Jewish and St. Louis Children's hospitals as well as the Barnard Free Skin and Cancer Hospital, which are Washington University Medical Center affiliates, have worked with the medical school in providing support for the planning process and will be Cancer Center partners. BJC Health System also will build a new cancer center/ambulatory care building near the corner of Forest Park and Euclid avenues. The building will become the practice site for the clinical cancer programs. The basic science component will be housed in an addition to the Clinical Sciences Research Building to be built jointly by the medical school and Children's Hospital.

Eberlein addresses center's progress

Timothy J. Eberlein, M.D., convened a Town Hall Meeting in St. Louis Children's Hospital on April 16 to report on the recent progress in launching the center. William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, and Peter L. Slavin, M.D., president and senior executive officer of Barnes-Jewish Hospital, introduced Eberlein to a crowd of more than 160 Medical Center staff.

At the meeting, Eberlein discussed progress toward

achieving National Cancer Institute designation. He also outlined the goals of the Cancer Center, its functional structure and its leadership structure.

In February, the Executive Faculty at the medical school and the board of Barnes-Jewish Hospital approved the Cancer Center leadership model. As part of the model, the center director will serve as a full, voting member of the Executive Faculty and serve on the Medical Executive Committee at Barnes-Jewish Hospital.

If the Cancer Center receives the desired designation, the NCI will provide funding for greater coordination of cancer-related activities and for expansion of basic science and clinical research efforts.

The National Cancer Act of 1971 authorized the NCI to support a network of cancer centers that would be national leaders in cancer treatment, research and education. Its purpose is to ensure that the next generation of physicians and scientists in the field will have greater access to comprehensive training and that patients will receive more coordinated care.

Eberlein said that efforts to create a cancer center already have had an impact. "Core support laboratories for cancer research have been established, programs have been developed, and affiliations between the School of Medicine, Barnes-Jewish Hospital and BJC Health System have been strengthened," he said.

An author or co-author of more than 200 scientific articles, Eberlein is renowned for his clinical expertise in the management of breast cancer, gastrointestinal malignancies and soft-tissue sarcomas.

Eberlein came to the University from Harvard Medical School, where he was the Richard E. Wilson Professor of Surgery. He also served as vice chair for research in the Department of Surgery at Brigham and Women's Hospital.

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Washington
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Washington People

Making dramatic inroads against ancient scourge

Like his engineer father and his grandfather, a mechanic, Stephen M. Beverley, Ph.D., likes to make things work. Which is just as well for someone studying a "difficult, primitive, break-your-head-against-the-wall system," a tropical parasite that even has a difficult name.

When Beverley came face to face with *Leishmania* in 1980, he climbed into several lab coats, a mask and gloves before daring to unwrap the frozen pellets. He remembered photos of people with leishmaniasis — oceans of ulcers on their skin, mucous membranes and internal organs. He soon realized, however, that *Leishmania* in the lab is not especially hazardous.

During the next few years, Beverley, now the Marvin A. Brenneke Professor of Molecular Microbiology at the School of Medicine, discovered how *Leishmania* can outwit certain drugs. He then spent several years trying to alter the parasite's genes.

"When we succeeded, it was a real dancing-in-the-aisles event," Beverley recalled.

The genetic tools he developed at Harvard Medical School have provided ways to explore some of the world's worst causes of disease. Since 1997, Beverley has continued this work at the medical school, where he heads the Department of Molecular Microbiology, a mecca for studies of microbes that bother mankind. In his spare time, he plays garage rock 'n' roll on his guitar.

Beverley caught the microbiology bug in second grade watching mold grow on bread. But this interest gave way to physics and math in his Southern California high school. As an undergraduate at the California Institute of Technology, he switched from physics to biology, which offered the chance to try cutting-edge experimental techniques.

This led him to the University of California at Berkeley, where he studied fruit fly evolution. He also met his wife, Deborah E. Dobson, Ph.D., now research associate professor of molecular microbiology at the medical school and a member of Beverley's group.

Beverley's career took an about-turn after he became a Walter Winchell Postdoctoral Research Fellow at Stanford University in 1979. Giving up a project that didn't pan out, he heard his mentor, Robert T. Schimke, M.D., ask if anyone wanted to work on *Leishmania*. "I had no idea what *Leishmania* was," Beverley said, "but my work on evolution had piqued my interest in odd creatures."

Exploring little-known parasites

There were powerful genetic tools for studying bacteria by that time, but tropical parasites were in a backwater. Little was known about how *Leishmania* survives and thrives, and treatments were — and still are — primitive. The best available drug is a toxic heavy metal. A live vaccine, given to millions of people in Iran, Israel and the former Soviet Union, causes disease in two out of every 100 people. *Leishmania*, transmitted by the bite of a sand fly, infects more than 10 million people in the developing world.

Schimke had discovered that mammalian cells become resistant to a drug called methotrexate by making extra quantities of the protein the drug targets. Studying resistance in *Leishmania*, Beverley showed that the parasite responds to the drug by making nonchromosomal circles of DNA. These plasmids contain extra copies of the gene for dihydrofolate reductase (DHFR), the enzyme methotrexate inhibits. This important finding, the first description of an extrachromosomal mechanism for gene amplification in a multicellular organism, appeared in the prestigious journal *Cell* in 1984.

After Beverley became an assistant professor of pharmacology at Harvard in 1983, his group identified and cloned the methotrexate resistance gene — the gene for DHFR-TS (DHFR fused with thymidylate synthase). In the course of this work, the researchers discovered that *Leishmania* amplifies a second gene when exposed to methotrexate. In 1994, they identified pteridine reductase 1, a gene for a novel enzyme that bypasses the DHFR pathway and therefore might be a good therapeutic target.

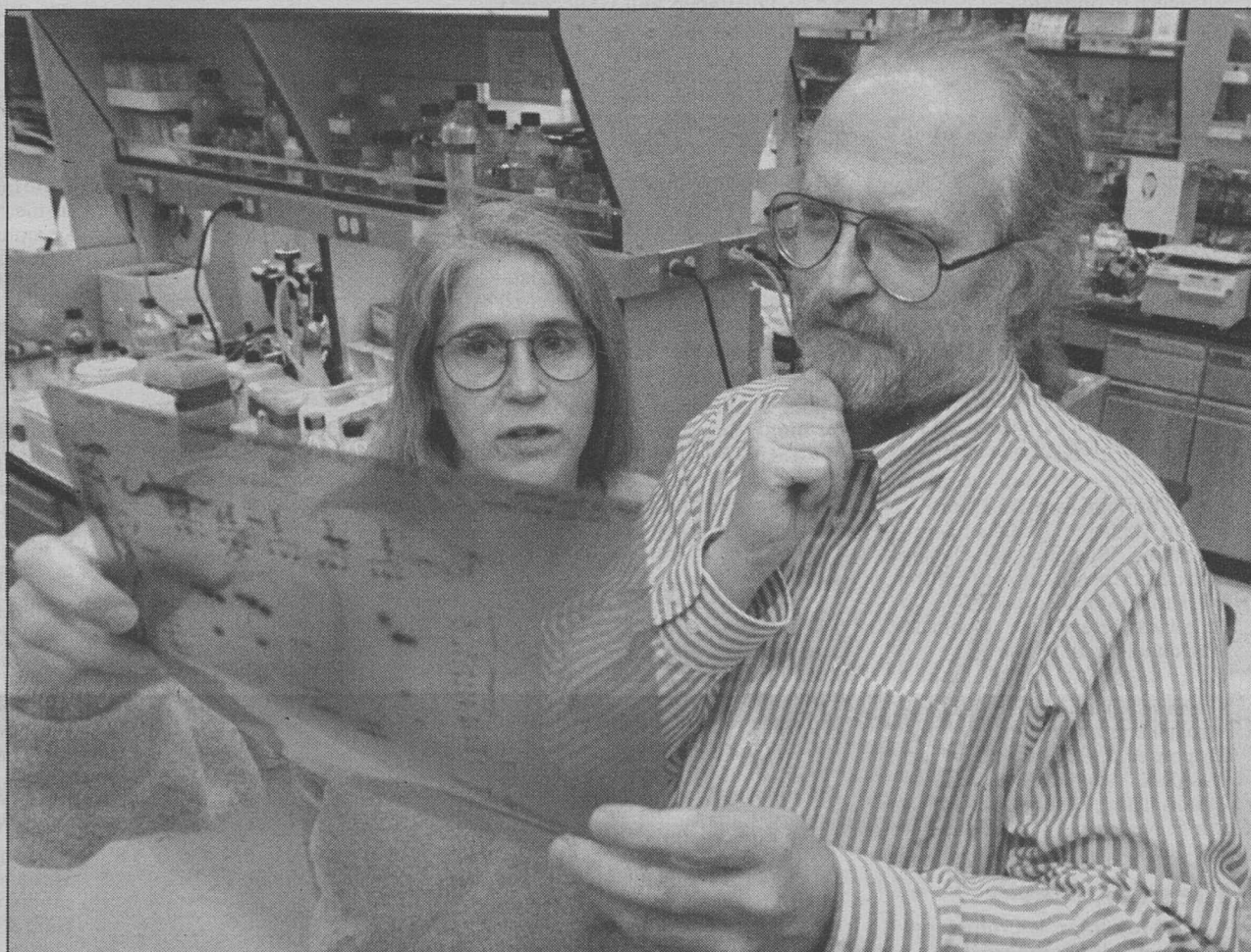
Parasitologists found the lack of genetic tools a major stumbling block to understanding the organisms they were studying, and Beverley wondered if plasmids might provide a solution. Perhaps he could extract them from

Leishmania, insert a gene of interest and put the resulting constructs back.

Over the next three years, his group faced hurdle after hurdle. "Research is a series of puzzles," he said. "If something isn't working well, you have to come up with the right trick."

By 1989, the researchers had converted *Leishmania* plasmids into gene vectors and learned how to get the vectors back into the parasite. Their breakthrough advanced tropical research around the world. "We no longer think of parasites as primitive and difficult organisms but as systems that now are amenable to modern genetics," Beverley said.

He made a large series of plasmid vectors and learned how to inactivate any pair of genes on the parasite's chromosomes. "The point of developing these methods was to try to isolate genes involved in disease," Beverley said.



Stephen M. Beverley, Ph.D., and his wife, Deborah E. Dobson, Ph.D., examine the results of a recent experiment.

In the course of this gene knockout work, Beverley obtained a mutant that requires a DNA building block called thymidine for growth. He later realized this mutant might be useful as a live vaccine, provided it could still provoke an immune reaction. It promised to be much safer than the conventional live vaccine because thymidine isn't available in the white cell (macrophage) compartment where *Leishmania* lives.

The researchers introduced the thymidine-requiring mutant into mice in 1995 and found that it did not cause

"Research is a series of puzzles. If something isn't working well, you have to come up with the right trick."

disease, even in immunocompromised animals. It also protected the mice against infection with virulent *Leishmania*. This potential vaccine now is being tested in rhesus monkeys in Rio de Janeiro, Brazil. If the tests are successful, the World Health Organization (WHO) might distribute thymidine-requiring *Leishmania* for use as a human vaccine.

Years before the vaccine studies, Beverley met Salvatore J. Turco, Ph.D., professor of biochemistry at the University of Kentucky. Studying *Leishmania*, Turco had isolated a unique molecule called lipophosphoglycan (LPG), worked out LPG's structure and developed a way to select mutants that can't make LPG. He also had suggestive evidence that *Leishmania* needs to express LPG on its surface to be virulent. In 1985, before the advent of genetic tools, Beverley suggested a collaboration, which continues to this day.

"Steve is a fabulously gifted individual who is extremely loyal to his people," Turco said. "He has very high

academic standards and a great sense of humor. I have always found him willing to offer ideas. Perhaps his greatest attribute is to cut through the chaff and get to the heart of the matter."

The collaborators tried to make LPG mutants virulent again by inserting pieces of DNA from the normal parasite to compensate for their defects. By tagging the DNA they put in, they identified a number of virulence genes involved in LPG biosynthesis. This success led to a landmark paper in *Proceedings of the National Academy of Sciences* in 1993.

"This was the first example of genetic complementation in any parasitic system," Turco said. "The combined biochemical and genetic approaches now are being used to elucidate how the parasite assembles virulence factors. Our goal is to provide rational targets provided by the LPG biosynthetic pathway that could be exploited for chemotherapy."

Beverley continued to look for genes that allow *Leishmania* to infect humans, developing additional ways to manipulate the *Leishmania* genome. Bacteriologists were using transposons — bits of DNA that jump from one part of an organism's genome to another, disrupting genes in the places where they land. *Leishmania* appeared not to harbor transposons of its own, so graduate student Frederico J. Gueiros-Filho borrowed one from the fruit fly.

The transposon mariner not only functioned in *Leishmania* but could be used to inactivate specific genes. With certain modifications, it also could connect unknown genes to a marker that could be selected for expression. Gueiros-Filho and Beverley reported these results last June in the journal *Science*. They hope to use the technique to find genes that must be active when *Leishmania* infects humans.

"Steve has taken what has been a theoretical possibility and shown that it actually works in an extremely impor-

tant organism," said Daniel L. Hartl, Ph.D., professor of biology at Harvard University. "His use of the mariner transposable element as a genetic tool in *Leishmania* is a major advance." Recent work has extended the use of mariner to vertebrates, bacteria and other pathogens.

Beverley gave up hands-on-the-bench work in 1995, when he became interim chair of biological chemistry and molecular pharmacology at Harvard Medical School. "It was a traumatic thing," he said, "because there's nothing like your own experiments. But I still spend a lot of time thinking about research."

Moving to St. Louis

In fall 1997, Beverley relinquished an endowed chair at Harvard to move to St. Louis. "My interest was going more into pathogenesis and microbiology, and I liked the atmosphere in the department here," he said.

He also was attracted by the plan for an interdisciplinary Center for Infectious Disease Research in the Pediatrics Research Building, which will be completed in the year 2000. The center will forge links between basic and clinical research, moving laboratory findings into the real world. "Two decades ago, people were saying that infectious diseases were conquered," Beverley pointed out. "But new pathogens have emerged, and changes in our behavior have led to the reappearance of older pathogens and the emergence of drug-resistant strains. All of a sudden, people are saying, 'We're in trouble; we need help right now.'"

Beverley also will continue his involvement with WHO. For five years, he was part of WHO's steering committee on vaccination against leishmaniasis and has been a consultant on many other projects. He currently advises WHO on the distribution of research funds and is encouraging WHO's interest in parasite genomes.

Although Beverley is a dyed-in-the-wool basic scientist, his many visits to Brazil, Africa and Southeast Asia have left their impression. "When you meet someone who has a fulminating case of leishmaniasis," he said, "you come back changed by that experience. Although the challenge and fun of thinking about how things work attracted me to science, I now think about how we can start doing things that will really have some impact. If we could come up with a vaccine or a drug to treat the disease, that would benefit many people around the world. I think we're now poised for great progress in solving problems posed by tropical diseases." — Linda Sage

Calendar

Visit Washington University's on-line calendar at
<http://cf6000.wustl.edu/calendar/events/v1.1>

April 30-May 9



Exhibitions

"Bachelor of Fine Arts Thesis Exhibition." Opening reception Friday, May 8, 5-7 p.m. Exhibit runs through May 15. Gallery of Art. 935-4523.

"Master of Fine Arts Thesis Exhibition." All-media exhibit of works by grad. students. Through May 3. Gallery of Art. 935-4523.

"Photography Thesis Exhibition." Works by grad. students. Through May 16. Mudd Hall.

"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 August. Seventh floor, Bernard Becker Medical Library, 660 S. Euclid. 362-4235.

"The Book Arts in St. Louis: 1898 to 1998." Through May 22. Special Collections, level five, Olin Library. 935-5495.



Lectures

Thursday, April 30

Noon. Genetics seminar. "RNA Recognition by RNA Binding Domains (RBDs)." Kathleen B. Hall, assoc. prof. of biochemistry and molecular biophysics. Room 823 Genetics Library, McDonnell Medical Sciences Bldg. 362-7076.

4 p.m. Chemistry lecture. "Static and Time-resolved Studies of Molecular Orientation in Mesoporous Materials by Near-field Scanning Optical Microscopy." Daniel Higgins, asst. prof. of

chemistry, Kan. State U. Room 311 McMillen Lab. 935-6530.

4 p.m. English dept. lecture. "Writer and Editor: A Memoir on Working with Robert Lowell." Robert Boyers, editor, Skidmore College, Saratoga Springs, N.Y. Hurst Lounge, Duncker Hall. 935-7130.

4:30 p.m. Mathematics colloquium. Speaker is Carl Sundberg, U. of Tenn. Room 199 Cupples 1 Hall. 935-6785.

Friday, May 1

4 p.m. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Black Holes and Bacterial Pathogenicity: A Large Genomic Lesion that Enhances the Virulence of *Shigella* and *E. coli*." Anthony Maurelli, Uniformed Services U. of the Health Sciences, Bethesda, Md. Cori Aud., 4565 McKinley Ave. 935-6819.

6 and 8:30 p.m. WU Association Travel Lecture Series. "In the Soul of Spain" by Bob Chrysler. Cost: \$4.50. Graham Chapel. 935-5212.

Monday, May 4

Noon. Molecular biology and pharmacology seminar. "Converging Inputs and Transcriptional Outputs of *C. elegans* Insulin-like Control of Metabolism." Gary Ruvkun, prof. of genetics, Harvard Medical School. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-2725.

4 p.m. Biology lecture. Tyson Station Manager Candidate Seminar Series. "Spatial Scale, Demography and Conservation of California Birds." Mark Reynolds, co-dir., Sedgwick Reserve, UC. Room 362 McDonnell Hall. 935-4632.

4 p.m. Immunology Research Seminar Series. "DNA Vaccines: Mechanisms of Immune Responses." Margaret Liu, vice-president, Vaccines Research, Chiron Corp., Emeryville, Calif. Eric P. Newman Education Center. 362-2763.

Tuesday, May 5

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "The Search for Previously Unrecognized Microbial Pathogens." David Relman, asst. prof. of medicine, immunology and microbiology, Stanford U.

Cori Aud., 4565 McKinley Ave. 362-5401.

Wednesday, May 6

6:30 a.m. Anesthesiology Grand Rounds. "Preoperative Cardiac Evaluation: Risk Stratification and Exercise Testing." Michael W. Rich, assoc. prof. of medicine. Wohl Hospital Bldg. Aud. 362-6978.

6:30 a.m. Orthopaedic surgery lecture. "Druj Instability: A Common and Debilitating Complication of Distal Radius Fractures." William B. Kleinman, clinical prof. of orthopaedic surgery, Indiana U. School of Medicine, Indianapolis. Scarpellino Aud., first flr., Mallinckrodt Inst. of Radiology, 510 S. Kingshighway. 747-2803.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Recent Developments in the Management of Ovarian Cancer." Alaa A. Elbendary, asst. prof. of obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 362-7139.

9 a.m. Internal medicine seminar. "Genetics of Type 2 Diabetes. The FUSION (Finland-U.S. Investigation of NIDDM) Genetics Study." Soumitra Ghosh, visiting scientist, National Human Genome Research Inst., NIH, Bethesda, Md. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-8680.

4 p.m. Biochemistry and molecular biophysics seminar. "Catalysis of Oxidative Protein Folding in Vitro and in Vivo." Ronald T. Raines, assoc. prof. of biochemistry, U. of Wis.-Madison. Cori Aud., 4565 McKinley Ave. 362-0261.

Thursday, May 7

8 a.m. Pulmonary and critical care medicine lecture. The 22nd annual I. Jerome Flance Visiting Professor of Medicine lecture. "Advances in Antithrombotic Treatment for Venous Thromboembolism." Russell D. Hull, dir., Thrombosis Research Unit, U. of Calgary, Canada. Clopton Aud., 4565 McKinley. 362-8983.

11:15 a.m. Center for Mental Health Services research seminar. "Surveying Service Providers." Arlene Stiffman, prof. of social work. Room 38 Goldfarb Hall. 935-5687.

Noon. Genetics seminar. "Cell Polarity and Cell Fate in Early *C. elegans* Embryos." Bruce

Bowerman, Inst. of Molecular Biology, U. of Ore. Genetics Library, Room 823 McDonnell Medical Sciences Bldg. 362-7076.

4 p.m. Biology seminar. Biology as an Interdisciplinary Science: Frontiers for the 21st Century. "The Salamander Limb as a Focus for Integrated Studies of Development and Evolution." David B. Wake, dept. of integrative biology, UC-Berkeley. Room 322 Rebstock Hall. 935-4656.

Friday, May 8

4 p.m. Biology lecture. The Fourth Varner Lecture. "Interdicting Virus Infection and Disease in Transgenic Plants: Cellular and Structural Studies of Resistance." Roger Beachy, The Scripps Research Inst., La Jolla, Calif. Room 162 McDonnell Hall. 935-6860.



Music

Friday, May 1

8 p.m. WU Opera performance. Excerpts from "Faust," "Manon" and "Tales of Hoffman." (Also May 2, same time.) Umrath Hall Lounge. 935-4841.

Sunday, May 3

1 p.m. Piano students' recital. Kathi Kurtzman, instructor of applied music. Steinberg Aud. 935-5574.



Performances

Friday, May 1

8 p.m. OVATIONS! Series performance. "The Speed of Darkness."

Performance artist Laurie Anderson. Co-sponsored by The Center of Contemporary Arts. Cost: \$25. Edison Theatre. 935-6543. (See story on page 5.)



Miscellany

Friday, May 1

Noon. Woman's Club spring lunch and annual meeting. "Children of the Flowers, The Australian Vision of Mary Gibbs." Peter Bernhardt, prof. of botany, SLU. Cost: \$15.50. Ces & Judy's Le Chateau, 10405 Clayton Rd. 721-1619.

3:30 p.m. Dedication of Alvin J. Goldfarb Hall. Mario Cuomo, former gov. of N.Y., will deliver the keynote address. Front of Goldfarb Hall (rain location: Brown Hall). 935-4780. (See story on page 1.)

Saturday, May 2

9 a.m. Saturday workshop. "Block Printing." Make prints or rubber stamps and take home a basic kit. Cost: \$40. 935-4643.

1:30 p.m. Saturday workshop. "Bookbinding Options." Alternative methods for making books. Cost: \$40. 935-4643.

Sunday, May 3

7:30 p.m. School of Art's 69th annual Fashion Design Show. "Fan-tastic Fashion." Cost: \$45 for general seating. Garden Court, Saint Louis Galleria (near Lord & Taylor entrance.) 935-9090. (See story below.)

Tuesday, May 5

8 p.m. Writing Program fiction reading. Shelly Fredman, Mark Toft and Justin Trewartha, MFA candidates. Hurst Lounge, Duncker Hall. 935-7130.

Saturday, May 9

9:30 a.m. Saturday workshop. "Digital Photographs." Experiment with a simple digital camera. Cost: \$25. 935-4643.



Junior Jennifer Bubel models a strapless cocktail dress from the signature collection of Irene Wu, senior fashion design major. The dress will be part of the 69th annual Fashion Design Show Sunday, May 3.

69th annual fashion show at Galleria

Some of the hottest and most creative couture this side of Paris will hit the catwalk Sunday, May 3, when "Fan-tastic Fashion" comes to the Saint Louis Galleria.

The 69th annual Fashion Design Show, presented by students in the School of Art's Fashion Design Program, kicks off with a reception at 7:30 p.m. in the Galleria's Garden Court, located near the entrance to Lord & Taylor. The fully choreographed, couture-style show begins at 8 p.m. Guests are invited to meet the designers and enjoy a dessert bar after the show.

The Fashion Design Show will feature clothes by six seniors and nine juniors ranging from haute couture to mass-merchandise — all inspired by the theme "Fan-tastic Fashion." The pun in the title is a tribute to fans, followers and supporters of haute couture.

"Everybody participates in fashion, whether they want to or not," said Jeigh Singleton, associate professor of art and coordinator of the fashion design program. "Just by getting dressed in the morning, people have entered that dialogue, and that's what keeps fanning the flames. We want to celebrate everyone who keeps it going, the people who make it and buy it and love it."

The Fashion Design Show is

unlike any other fashion event in the area, Singleton said. "The emphasis is on presentation and artistry, as opposed to sales," he explained. "As a result, the show is much like a Broadway production: entertaining and informative as well as fashionable. There is something for everyone, from street-level, wearable things to fantastic, imaginative creations that might not be worn but are certainly easy on the eye."

The Fashion Design Show is organized by a committee of volunteers chaired by Susan Block, a 1976 graduate of the fashion program. The show includes more than 100 models, including professional models, students and members of the community. The fashions on display are selected by a jury made up of University faculty, professional designers and leaders in the retail clothing industry. The student designers will be recognized with a variety of scholarships, cash prizes and awards.

The Fashion Design Show had its humble beginnings in the late 1920s when it was attended by design students, faculty and a few interested guests. Over the years, it has grown in size and prominence and been held at various locations both on and off campus. In the 1950s and '60s, employers in the bustling St. Louis garment

industry attended the show to recruit young talent — a practice that continues to this day.

"A lot of careers have been launched at the show," Singleton noted.

Singleton, who himself has achieved wide recognition in the fashion industry, said he takes great pride in watching his students succeed. "It's one thing to have your own success," said Singleton, whose designs have been sold in such mass-merchandising chains as Sears, Penney's and Wal-Mart, as well as exclusive boutiques throughout the country. "But that's just about you. As a teacher, seeing students succeed is like a continuation of your own work, taking your thoughts and ideas out into the world where they can evolve and change and go on forever."

Tickets are \$45 per person for general seating. Tickets with special seating — and recognition in the program — range from \$75 to \$3,000, with all proceeds going to support the Fashion Design Program. Tickets are available at the Edison Theatre Box Office, 935-6543; at the Galleria Concierge Service Center; and through Metrotix, 534-1111. A limited number of tickets will be available at the door. For more information, call 935-9090.

— Liam Otten

University Archives going to West Campus

The University Archives are a moveable feast — literally. The treasured 6,000-cubic-foot collection will move in August from the fifth level of Olin Library to the West Campus Library.

The move will bring together the entire collection, which because of space constraints currently is housed in six different locations. It also will open up much-needed space in Olin to provide open-stack shelving for the literature collection.

"It will be an improvement in every respect," said Carolé Prietto, University archivist. "For years, the archives have been housed in carved-out spaces around Olin. After 34 years, the archives finally have a home."

That home will be a 7,100-square-foot space in the rear of the West Campus Library. The cavernous area, now mostly empty, will be renovated beginning in May. When completed in late July, it will provide twice the space currently available to the archives.

The new location will have two offices, a reading room, a reference area and 6,200 square feet of storage space. State-of-the-art compact shelving will house the collection. The shelves are fully electric and will provide better safety and security systems to protect the collection.

The physical move of the collection tentatively is scheduled to begin Aug. 1 and will take three days. It is an awesome job requiring exacting organization and

extreme care to ensure nothing is lost or damaged. The move will involve about 4,500 boxes of manuscripts; 2,000 sound recordings; 1,500 films and videos; 3,000 printed volumes; and 3,500 drawings and maps, including 663 original drawings of Eads Bridge — some of the most challenging items to move because of their large size and valuable nature.

"The collection has mushroomed beyond anyone's imagination," Prietto said. Thus the space problem. When created in 1964, the archives were housed on the fifth level of Olin in the Department of Special Collections. When the collection outgrew that space, it was moved to the first level. As the collection continued to expand, it was moved back to level five where it now spills into four different areas. Half of the collection was moved to West Campus in 1993, but even still, Prietto said, "There is no more room to grow in Olin."

Archives is expected to close for about two weeks to get settled into its new location; however, the office telephone, fax and e-mail will be available during that time. A World Wide Web site, created to answer questions about the move, can be viewed at library.wustl.edu/~spec/archives/move.

"It's a big move, but it will be worth it," Prietto said. "Archives will have a home of its own, and that will be very satisfying."

— Martha Everett

Laurie Anderson at Edison

Internationally renowned performance artist Laurie Anderson will return to Edison Theatre with her latest one-woman show, "The Speed of Darkness," Friday, May 1. The one-night-only performance, sponsored by Edison Theatre's OVATIONS! Series and The Center of Contemporary Arts, begins at 8 p.m.

Probably the most famous performance artist working today, Anderson combines elements of pop music, visual art, poetry and social commentary with new and innovative technologies (for one early show, she strung her violin bow with pre-recorded magnetic tape). In the 1970s, she began experimenting with electronic filters, transforming her voice at the flick of a switch from pop-diva to authoritarian male. More recently, she has released her work on CD-ROM and developed live performances on the World Wide Web. "The Speed of Darkness" is Anderson's meditation on the future of technology. In it she relates stories and songs that touch on topics ranging from cybersex to coffee and from Web sites to "wig therapy."

Though she is perhaps best known for creating extravagant productions marked by technologically sophisticated effects (her last production, "Stories From the Nerve Bible," required 33 tons of equipment), for "The Speed of Darkness" Anderson comes armed with only a violin, a keyboard and a digital sound processor.

Anderson was born in Chicago. She earned a bachelor's degree in art history from Barnard College in 1969 and a master of fine arts degree in sculpture from Columbia University in 1972. After teaching art history at New York's City College and writing reviews for Artforum International magazine, Anderson embarked on a career in performance art, which she describes as "anything that's done on stage but isn't straight music, acting or dance."



Laurie Anderson

She has performed around the globe and released more than a dozen albums, including "Strange Angels"; "United States Live"; "Big Science"; and "Gravity's Angel," which was nominated for a Grammy Award in 1984.

Anderson's work has been featured in several movie scores, including Spalding Gray's "Swimming to Cambodia" and "Monster in a Box." In 1986, she directed her own feature film, titled "Home of the Brave."

Anderson has collaborated with numerous other artists, including William Burroughs, Brian Eno, Peter Gabriel, Philip Glass, Lou Reed and David Byrne. In 1987, she hosted the PBS series "Alive from Off Center." Her book, "Stories From the Nerve Bible," was published by Harper Perennial in 1994.

Anderson is currently working on an opera based on Melville's "Moby Dick," which is scheduled to tour the United States and Europe in 1999.

Anderson last appeared at Edison Theatre in 1990 with her show "Strange Angels."

Tickets are \$25 and are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. For more information, call 935-6543.



At the first annual Women's Society Leadership Award ceremony on Wednesday, April 22, in the Women's Building are (from left) Women's Society President Mary Behnke; Society Board of Directors' member Marilyn Sachs; and the first recipients of the award, Darby Robinson and Jennifer Karlin, both seniors majoring in engineering. Behnke and Sachs served on the committee that selected the honorees.

First annual Women's Society awards for leadership go to engineering students

Two outstanding women in the predominantly male engineering field were honored with the first annual Washington University Women's Society Leadership Award. In a ceremony at the society's membership meeting in the Women's Building Formal Lounge Wednesday, April 22, Jennifer Karlin and Darby Robinson each received the award.

The honor is given to one or more graduating seniors to recognize young women who have made a significant contribution to the University and demonstrated exceptional potential for future leadership. An Award Committee comprised of Women's Society members selects the winners.

Karlin and Robinson received copies of "The Norton Book of

Women's Lives," an anthology of the diaries, journals and memoirs of 20th-century women writers. They also will have their names engraved on a plaque to hang in the lobby of the Women's Building.

Karlin is a systems science and mathematics major in the School of Engineering and Applied Science. She was the driving force behind the successful campus program "Women in Engineering Day," which encourages high school girls to consider engineering as a career. Karlin plans to pursue a graduate degree in operations research and would like to become a professor of engineering.

Robinson is valedictorian of the engineering school's senior class. Majoring in chemical engineering, she has assumed

leadership roles in the school and as a resident adviser and has participated in numerous campus organizations. Robinson volunteers in Spanish-speaking neighborhoods to provide translation assistance in hospital emergency rooms. She plans to attend medical school and become a pediatrician.

The Women's Society is dedicated to providing educational and leadership opportunities and serving the University community. The organization operates Bear Necessities and the Furniture Exchange. It awards two full-tuition scholarships each year, funds projects on campus and sponsors the Town and Gown Lecture Series featuring faculty perspectives on current issues. Founded in 1965, the society's membership of 500 is made up of women in the St. Louis community.

Sports

Compiled by Mike Wolf, asst. athletic director for media relations, and Kevin Bergquist, 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/.

Women's track sweeps UAA

Juniors Claudine Rigaud (100-, 200- and 400-meter relay) and Emily Richard (5,000 and 10,000 meters) won multiple titles to lead the women's track and field team to the 1998 UAA outdoor track and field championship. The Bears, who also received a first-place performance and school record from freshman Suzi Ramsey in the 400-meter hurdles, finished with 192 points to better second-place and host Emory University (172). The men's team placed third with 128 points. A total of 19 WU athletes earned 33 all-UAA citations as the women completed a sweep of the indoor and outdoor crowns for the first time in school history.

This Week: 4 p.m. Saturday, May 2, at Southwest Missouri State University Invitational, Springfield, Mo.

Tennis team loses bid for UAA honors

Needing to win its last two singles matches, Washington's men's tennis team came up short in its quest to defeat

heavily favored Emory University, Atlanta, for its first University Athletic Association (UAA) championship. Trailing 3-2 with two matches still undecided, the Bears lost three-set decisions at No. 1 and No. 5 singles, which handed Emory its ninth straight UAA crown. En route to the UAA final, the team defeated Case Western Reserve University, Cleveland, (7-0) and Brandeis University, Waltham, Mass., (5-0). Still, the Bears completed the 1998 season with their best record (18-5) since a 19-6 campaign in 1986.

Final Record: 18-5

Women's tennis second in UAA

The women's tennis team completed its 1998 season Sunday with an 8-1 loss to third-ranked Emory University in the finale of the UAA Championships. The Bears ended the season with a 13-9 ledger — their 19th consecutive winning season and 16th straight year with double figures in victories. Washington U., which has finished

second to Emory at the conference meet nine times in 11 years, defeated New York University (7-2) and the University of Rochester, N.Y., (5-0) to reach the finale versus Emory — a 1998 NCAA qualifying team.

Final Record: 13-9

Baseball Bears at .500 mark

With two of its starting pitchers out with injuries, the baseball team went 1-3 in doubleheaders vs. the University of Chicago and McKendree College, Lebanon, Ill., this past Saturday and Sunday, April 25 and 26. The Bears got strong pitching performances in the twinbill against Chicago, a 2-1 loss and a 5-1 win, but suffered 15-3 and 12-4 defeats at McKendree. In the Bears' win over Chicago, senior pitcher Dan Keys upped his season record to 5-2 as he tossed a seven-inning five-hitter. The Bears close out the 1998 season this week with five scheduled games.

Current Record: 17-17

This Week: 1 p.m. Saturday, May 2, vs. Greenville (Ill.) College (2), Kelly Field; 1 p.m. Sunday, May 3, at MacMurray College (2), Jacksonville, Ill.



Theater careers

Christine Meyers (in white T-shirt, at rear), a junior majoring in performing arts in Arts and Sciences, leads a costume shop tour during Take Our Daughters to Work Day Thursday, April 23. More than 100 faculty and staff daughters took part in the event, exploring careers in law, architecture, social work, engineering, art, medicine, business and sports as well as theater.

WU is mission control for Fossett — from page 1

then across the Atlantic Ocean, swinging south to the tip of South Africa. He then plans to fly east, crossing Australia before the final long leg over the Pacific Ocean into South America. A complete circling of the world by this route is expected to take about 18 days.

Washington University will run the mission control center for the August trip, according to Chancellor Mark S. Wrighton. Fossett is on the Board of Trustees and is an alumnus of the University.

"We're pleased and excited to help Steve Fossett once again in his quest to circumnavigate the world," Wrighton said. "His spirit and determination have lifted the hopes of people worldwide and have created a renewed interest in science, adventure and exploration. He has our support and best wishes."

A meeting room in Brookings Hall will be the mission control location, as it was for his last attempt. A World Wide Web site (<http://www.solo.wustl.edu>) will provide updated information so the public can follow the flight.

Fossett's last attempts were winter flights aimed to take advantage of speedy winds from the Northern Hemisphere jet

stream. However, they were stymied by a number of technical and political problems. His earlier 1997 flight came to a halt when his fuel supply dwindled, in part because Libya did not grant him timely overflight permission. In 1998, Libya again was late in granting overflight permission, forcing Fossett to change course and encounter very light winds that slowed his speed to as low as 20 miles per hour. He also endured constant cold because of a malfunctioning cabin heater. One of his two burners failed as well.

A team of mechanical engineers from the School of Engineering and Applied Science has designed a new cabin heater for Solo Spirit, which should provide improved performance, and the team also has specified better insulation for the capsule.

Fossett has made changes in his balloon that he thinks will accommodate his next challenge. The balloon envelope will be much larger, 450,000 cubic feet as opposed to 270,000 cubic feet. This will allow him to carry 40 cylinders of fuel as opposed to only 20 in the smaller balloon, and he now will have four burners instead of two.

According to Tim Cole, Fossett's chief engineer, there are a number of advantages in taking the southern route. "The winds should be more favorable in the Southern Hemisphere, with cooler and more stable air and no large swings in day- and night-time temperatures," Cole said. "He will be flying over water 80 percent of the way, which results in more stable wind patterns. Plus, there will be fewer political and military problems because he'll fly over only five countries."

"While the winds won't be as fast as in the Northern Hemisphere, he won't have to fly so high to catch the influence of the jet stream in the southern latitudes. The larger balloon system increases his duration capabilities, and the envelope should be much more efficient this time around."

Cole said Fossett will have a four-man life raft, a full exposure wet suit and sufficient food and water should he have to land in the ocean. He has a satellite rescue beacon that can be activated to transmit his position in the event of ditching.

"Steve's well-equipped, and the capsule is fully seaworthy," Cole said. — Tony Fitzpatrick

Reducing teen HIV is GWB project goal — from page 1

"Research indicates that youths with mental health or behavioral problems are less likely to engage in the risky behaviors that lead to HIV infection if they have future educational plans and the resources to pursue an education," said Wendy Auslander, Ph.D., associate professor of social work and principal investigator for the study.

"Our program will provide these teens with plenty of information about HIV and risk behaviors, but we're also trying to give them some motivation to change their ways by offering them opportunities, skills and hope for their futures."

Known as the HIV Prevention and Life Options for Youth in Foster Care Program, the four-year study draws on the unique expertise of researchers in the school's Center for Mental Health Services Research and the Center for Social Development.

Curtis McMillen, Ph.D., assistant professor of social work and co-investigator on the project, brings a wealth of experience in foster care services. Arlene Stiffman, Ph.D., professor of social work and associate director of the mental health center, contributes extensive knowledge of children's mental health services. Diane Elze, a social work doctoral student with a background in

delivering services to at-risk teens, also has been involved. Hope Krebill, a registered nurse who soon will be a social work student here, is project manager.

Teen-agers in the life options program will receive an Individual Educational Savings Account (ESA), to which cash deposits will be made upon completion of various program phases, including educational planning sessions and an expanded Independent Living Program with an added focus on HIV prevention.

During the program, teens will receive monthly statements showing the accumulation of savings and assets in their accounts. Program coordinators hope the teenagers' outlook for their futures will rise as their savings mount, because an improved orientation toward the future is associated with a decrease in HIV risk behaviors, they said.

The life options program, which includes multiple interventions over an eight-month period, will be delivered in conjunction with Missouri's Independent Living Program, a state-operated life skills training program that prepares youths for independent living after leaving state custody or foster care. The state program is directed by Lynn Mathis of the

Division of Family Services through Missouri's Department of Social Services.

"The study has the potential to make major changes in future HIV prevention programs to at-risk teens," Auslander said.

Project researchers are hiring 10 social work students to assist in the study by performing interviews with participating teens. The study will be conducted on adolescents ages 15-18 under the supervision of the child welfare system.

— Gerry Everding

Architecture students part of national project

Research surveys disability access

Architecture students involved in a national research project examining housing for people with disabilities say the study has opened their eyes about the impact of architectural details on people's lives.

"Every time I'm out, I find myself looking at ramps and handrails," senior Megan Brady said. "I didn't realize how much thought needs to be given to such details. During one of our site visits, there was a piece of raised marble molding in a doorway that made it difficult for a wheelchair to go over. The molding was not part of the architect's plans, but the contractor probably had it and decided to use it without realizing that little piece of molding could be a daily annoyance and even an obstruction to someone with a wheelchair."

The eight students working with Harry Schwartz, affiliate professor of architecture, are participating in a research study for the U.S. Department of Housing and Urban Development (HUD). In addition to Brady, the students involved in the project are graduate students Kristin Collins and Eric Roselle, senior Joanne Graney, junior Mara Baum, sophomore Brenda Cho, alumna Laura Mezzoff and Steve Shapiro, a graduate student in both architecture and social work.

The project's goal is to assess the extent to which multifamily housing — with four or more units and built since 1991 — meets federal guidelines for access to people with disabilities. The School of Architecture is one of 10 schools nationwide involved in the study. Washington University students are responsible for evaluating 32 housing developments in Missouri, Iowa, Kansas, Nebraska and portions of Illinois and Indiana. The study involves conducting site visits and reviewing building plans and other documents to answer a 255-question survey.

"The questions include everything from the grade of the ramps for wheelchair accessibility to the height of the public drinking fountains to the dimensions of the kitchen to the height of the door-knobs and light switches," Collins said.

"The code takes into consideration a variety of disabilities," she added. "For the visually impaired, we check the clearance in the hallways to make sure there are not obstructions for someone walking with a cane and that there is Braille in the elevators. For the hearing impaired, we make sure there is also lighting in the elevator and not just a tone."

With tape measures, stud finders and clipboards in hand, the students check a myriad of other details both within and without the structure, ranging

from the height of the lavatory rim and the knee space below the vanity in the bathrooms to the width of the parking spaces and whether proper signs are posted to reserve them for the disabled.

In an effort to obtain a nationwide sampling of compliance with federal accessibility provisions, HUD contracted with the Connecticut firm Steven Winter Associates Inc., which in turn hired architectural students and professional surveyors to collect information for a random study of roughly 450 developments.

"It's a significant study that should offer a good idea to what extent multifamily dwellings meet the federal requirements," Schwartz said. "For the students, it's also a chance to work on a real architectural project while learning about building design, site planning and construction."

Participation in the study is strictly voluntary. The owners of the developments have been promised confidentiality and assured that the information collected will not be used for enforcement purposes. The voluntary aspect of the survey combined with the sometimes sketchy information on the sites, however, has made the project more challenging for the students, who have spent much of this term diligently making a lot of phone calls, Schwartz said.

The students have discovered, for example, that some of the housing projects were never built, or they have had difficulty tracking down the owners. In several cases, the owners have opted not to participate. Since the students must ultimately complete inspections of 32 developments by mid-summer, they often have had to request replacement developments to survey. They then begin the process all over again — tracking down the owner, explaining the project, sending a follow-up letter, receiving architectural plans and setting up site visits.

The students already have visited one development in St. Louis and plan to conduct the majority of the other site visits in May. Since the St. Louis development was built under a HUD program, they were not surprised to find it almost completely in compliance.

Baum said the overall project has influenced her outlook and added depth to her study of architecture.

"The heightened awareness of the laws and their ramifications will definitely be valuable for my future as a designer, but also for me as an individual," she said. "I thought of myself as someone who was fairly aware of the issues involved, but the project has really opened my mind to the fine details and the difficult problems people with disabilities face. I'm also aware now of the simple solutions that can be implemented to solve these problems and really make a difference." — Ann Nicholson

Campus Watch

The following incidents were reported to University Police from April 20-26. 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 <http://rescomp.wustl.edu/~wupd>.

April 21

3:30 p.m. — A Marriott Dining Service manager reported the theft of an electronic cash register valued at \$2,395 from the Hilltop Bakery in Mallinckrodt Center.

April 23

12:30 p.m. — A staff member reported the theft of a cash bag containing \$400 from the Trans-

portation Office.

April 25

1 a.m. — Someone attempting to bypass the access control system in North Brookings Hall caused major damage to the building's handicapped entrance. Extensive repairs are necessary.

8:11 p.m. — A student reported the theft of a backpack contain-

ing clothing, a CD player, four CDs, a calculator and cash, together valued at \$583, from a second-floor hallway in the Athletic Complex.

University Police also responded to two additional reports of theft, three additional reports of vandalism, one report of fire, two auto accidents and a peace disturbance.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Of note

Marin H. Kollef, M.D., assistant professor of medicine, has received the Prospective Evaluation of a Respiratory Practitioner Consult Service Award from the American Association of Respiratory Care board of directors. The award, which covers the period February 1998 to April 1999, provides \$51,320 in support.

On assignment

Harold Blumenfeld, professor emeritus of music in Arts and Sciences, is in residence at the Bogliasco Foundation in Liguiria, Italy, during April and May. He is beginning composition of music to "Borgia," a new opera dealing

with the notorious early Renaissance clan that produced popes and poisoners. The work is to a libretto by Charles Kondek and based on a historical novel by Klabund and the drama "Lucrèce Borgia" by Victor Hugo.

Speaking of

Kenneth Chilton, director of the Center for the Study of American Business, participated in a debate at Drury College in Springfield, Mo., on the topic "Economic Growth and a Stable Environment — Are They Compatible?" ...

Stephen H. Legomsky, J.D., D.Phil., the Charles F. Nagel Professor of International and Comparative Law, recently spoke in Bonn, Germany, to members of the German Parliament, their staffs and other government officials on the subject of immigration quotas. Legomsky also has been appointed as chair of the

American Branch of the International Law Association's Committee on Refugees and to the association's corresponding international committee. ...

Deborah Shure, M.D., associate professor of medicine, gave the William S. Conklin Lecture on "Diagnostic and Therapeutic Bronchoscopy" at the Oregon Thoracic Society's 36th annual Chest Disease Conference held in March in Sunriver, Ore.

To press

Susan Frelich Appleton, J.D., professor of law, had a casebook and accompanying teacher's manual titled "Modern Family

Law: Cases and Materials" published by Aspen Law & Business. The work was co-authored with D. Kelly Weisberg. Appleton also spoke on the evolving federal law on abortion at the Reunion of Boalt Hall Women at the University of California at Berkeley. Presentations from the reunion will be published in a symposium in the Berkeley Women's Law Journal. Additionally, Appleton was featured on National Public Radio's "Weekend Edition" with Liane Hansen on the topic of parents' legal responsibility for the actions of their children in the wake of the Jonesboro, Ark., shootings. ...

R. Keith Sawyer, Ph.D., assistant professor of education in Arts and Sciences, had the article "The Interdisciplinary Study of Creativity in Performance" published in the latest issue of Creativity Research Journal.

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 For The Record, c/o David Moessner, Campus Box 1070, or e-mail David_Moessner@aismail.wustl.edu. Items must not exceed 75 words. For information, call 935-5293.

Cooper named director of neuropsychology service

Patricia Cooper, Ph.D., has been named director of the Psychological Service Center's Neuropsychology Service. A division of the Department of Psychology in Arts and Sciences, the center offers individual and group counseling to the public on a sliding-fee scale.

Cooper, a local neuropsychologist who has taught part-time in the psychology department, will work directly with clients dealing with neuropsychological

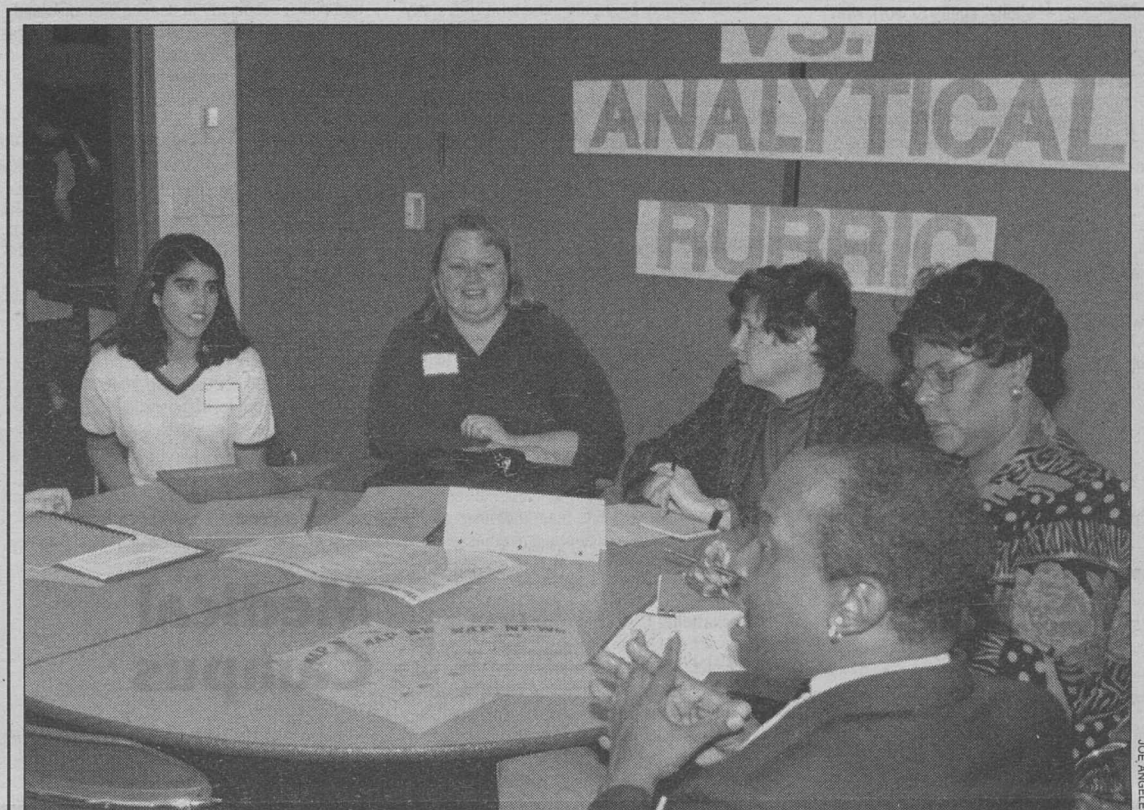
problems such as attention deficit disorders, dementia, memory difficulties, head traumas and strokes. She also will supervise neuropsychology graduate

"The Service Center has been very active in assessing potential attention deficit disorders in adolescents and college-age clients, but we'd like to do more work in this area with older adults," said Amy Bertelson, Ph.D., center director. "We would also like to expand assessment and counseling services for people dealing with Alzheimer's, head injuries and strokes."

Cooper, whose work at SSM Rehabilitation involved designing intervention programs for clients recovering from strokes and other brain injuries, also is hoping to establish a support group for survivors of head trauma.

Located on West Campus, the Psychological Service Center has provided training opportunities for advanced graduate students in the University's doctoral program in clinical psychology for more than 20 years. Students are the therapists and are closely supervised by faculty members.

Center therapists provide personality and IQ tests, as well as tests for learning disabilities such as attention deficit and dyslexia. Therapy sessions are held with individuals and with groups. Group therapy sessions focus on such issues as eating disorders, depression, attention deficit and coping with difficult children.



Working together

Interdisciplinary interaction is both the message and the mission as Washington University junior **Ami Shah** (left) and **Leslie Sugg** (second from left) of Clay Elementary School lead a discussion on their collaboratively designed "Reading, Science and Social Studies Interdisciplinary Unit." The session was part of the Goals 2000 Social Studies Project Conference, held Thursday, April 23, at the St. Louis Science Center. The conference ended one phase of a year-long program funded by the U.S. Department of Education that is exploring ways to improve teacher education in Missouri.

Microvascular surgeon to deliver Brown lecture — from page 2

distinguished plastic surgeon to the University each year for a series of lectures, residents' rounds and surgical demonstrations.

"The idea of the professorship was to bring innovative doctors and their cutting-edge techniques to faculty and students at Washington University," said Brown's widow, Bertha Phillips Brown. "Dr. Brown's hope was to pass on their knowledge, which will benefit medicine into the next millennium."

James Barrett Brown has been called one of the founding fathers of modern plastic surgery. He made innumerable contributions to his field.

"Dr. Brown had three critical effects on the specialty of plastic surgery: advancement of its science, development of a dedicated reconstructive surgical unit after World War II and, most importantly, personal training of the next generation of plastic surgery educators and leaders," said Jeffrey L. Marsh, M.D., professor of plastic surgery and of radiology, associate professor of pediatrics and coordinator of the Brown Visiting Professorship.

Brown was born in Hannibal, Mo., in 1899. After earning a medical degree at the University in 1923, he completed a surgical internship and residency at Barnes and St. Louis Children's hospitals. He joined the University faculty in 1925 to work with plastic surgeon Vilray P. Blair, M.D. Blair and Brown developed a plastic surgery center that was one of only a few in the United States.

Brown was named professor of maxillo-facial surgery at the School of Dentistry in 1936 and professor of clinical surgery at the medical school in 1948. When he retired in 1968, he was appointed professor of plastic surgery emeritus. During his career, he also served as chief of plastic surgery and as senior plastic surgeon at Barnes and St. Louis Children's hospitals and the Washington University clinics.

As chief of plastic and reconstructive surgery to the U.S. Army during World War II, Brown came up with the idea of returning injured soldiers needing additional medical care to the United States in ships that had transported troops to Europe. He also worked tirelessly to have eight U.S. plastic

surgery centers established for the treatment and rehabilitation of soldiers. Brown was appointed head of the largest center at Valley Forge, Pa., where he supervised care for 2,500 patients.

During his career, Brown published more than 300 scientific articles, 30 textbook chapters and eight books. As a founding member of the American Board of Plastic Surgery, Brown helped define the specialty of plastic surgery, Marsh said.

"During Dr. Brown's professional career, the world came to St. Louis to learn plastic surgery," Marsh said. "It is most appropriate that, through the generosity of his family, world-renowned experts annually are brought to St. Louis to augment our current educational mission."

Blood pressure drugs — from page 2

agents and higher treated pressure with the newer ones was reflected in the percentages of patients whose blood pressure was controlled.

A second part of this study will retrospectively examine the morbidity and mortality associated with the various antihypertensive agents. A much larger traditional blinded and randomized trial, the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT), is also scheduled for completion in 2001. This study, funded by the National Heart, Lung and Blood Institute and Veterans Affairs, will examine

morbidity and mortality associated with three of the "new" antihypertensive agents prospectively, comparing them to diuretics, which are considered the gold standard.

"This ALLHAT study should answer the bottomline question: Are any of the currently used antihypertensive agents more effective than others in preventing death or heart attacks or strokes? We think these catastrophic events are closely associated with decrease in blood pressure, but we want to be sure," Perry said.

— Candace O'Connor

Obituaries

'Dottie' Howard, accounting clerk

Darhell "Dottie" Robinson Howard, a 35-year University employee in Accounting Services and the Student Health and Counseling Service, died Tuesday, March 10, 1998, at Life Care Center of St. Louis after a long illness. She was 61.

Howard came to health services in 1963 as a receptionist. In 1973, she became a secretary and in 1987 was promoted to bookkeeper. In 1996, she became an accounting clerk II, shifting to accounting services.

Howard also was an active businesswoman in St. Louis. For 25 years, she owned Dot's Tax Service, which handled personal taxes and bookkeeping. She was a former secretary-treasurer for the Jennings Downtown Business Association and served for more than 25 years as finance secretary

and treasurer at the Union Memorial United Methodist Church.

Born in Ackerman, Miss., and reared in St. Louis, Howard attended Washington University and received her training in tax preparation from H&R Block, where she later worked as an instructor.

"Dottie was a wonderful person," said Thelma Clifton-Dozier, an accountant in accounting systems and a friend for 25 years. "She was quiet, but she always had a smile for everybody. She loved to travel, and she helped organize a birthday club that must have eaten in every restaurant in St. Louis."

Among the survivors are her husband, Elais Earl Howard; a son, James A. Howard of St. Louis; a brother; two sisters; and four grandsons.

Opportunities & personnel news

Hilltop Campus

Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130, at West Campus. Job openings may be accessed via the World Wide Web at cf6000.wustl.edu/hr/home. If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at 935-9836. Staff members may call 935-5906.

Business Development Associate, Engineering 980272. *Center for Technology Management.* Requirements: bachelor's degree in science or business with relevant technical background (engineering, computing); experience with market research; communications skills; organizational ability; ability to work with minimal supervision; willingness to work as part of a team. Responsibilities include assisting business development manager in developing new business opportunities through the licensing of technology to industry; assisting in analysis of inventions, market research and marketing technologies to potential licensees.

Admissions Officer 980276. *Undergraduate Admissions.* Requirements: bachelor's degree; previous work experience (preferably in admissions); ability to communicate enthusiasm for his/her undergraduate experience effectively to prospective students and parents; demonstrated leadership ability; flexibility; strong organizational skills; self-motivation; willingness to work hard; ability to work effectively in team and individual settings with get-it-done attitude. The position requires heavy travel and presentations to large groups.

Business Development Associate, Engineering 980281. *Center for Technology Management.* Requirements: bachelor's degree or higher in science or business with relevant technical background (engineering, computing); communication skills; organizational ability; experience with market research and relevant resources; ability to work with minimal supervision; willingness to work as part of a team. Responsibilities include assisting business development manager in developing new business opportunities through the licensing of technology to industry, assisting in analysis of inventions, market research and marketing technologies to potential licensees.

Phonathon Coordinator 980282. *Alumni and Development Programs.* Requirements: bachelor's degree; strong verbal and written communication skills; pleasant, professional manner with co-workers, volunteers and outside vendors; confidence in decision making; ability to supervise student workers effectively; strong organizational skills; willingness to tabulate and report gift data; ability to work flexible hours with energy and enthusiasm.

Associate Director of MBA Admissions 980283. *Business School.* Requirements: bachelor's degree in business; MBA preferred;

demonstrated interpersonal and communication skills; ability to deal with diverse student population; ability to market the MBA program using personal selling and marketing techniques; demonstrated ability to work simultaneously with multiple projects; willingness to travel, including some weekends; previous university experience helpful; some evening/weekend availability; previous sales experience preferred.

Assistant Director of Sponsored Project Services 980288. *Center for Technology Management.* Requirements: bachelor's degree; ability to communicate effectively orally and in writing; ability to work with minimum supervision; ability to preserve confidential information and maintain confidential files; supervisory skills to motivate, train and supervise junior professionals; familiarity with multiple federal agency grants and contracts. Responsibilities include developing and maintaining good professional relations with sponsors, including federal agency personnel, and with University personnel including faculty and grant administrators or other CFU units; organizing, controlling and administering a large volume of complex work; negotiating and resolving complex issues with sponsors, including federal agency personnel, and with University personnel including faculty and grant administrators or other CFU units.

Accounts Receivable Service Representative 980289. *Accounts Receivable.* Requirements: high school education, some college preferred. Responsibilities include working with departments and team members to run tuition bills; determining and processing refunds on student accounts; providing customers with support/backlog on student accounts; posting lockbox payments to accounts; preparing adjustments on account reconciliations; identifying past due student tuition accounts; developing procedures for receivables; processing receipt vouchers; resolving accounts receivable inquiries; assisting team members during overflow periods, vacations and illnesses; responding to inquiries on student accounts with tuition holds.

International Career Adviser 980291. *Business School.* Requirements: master's degree in related field, MBA preferred; five years business experience, preferably in corporate recruiting or college relations; international living experience, residing outside the United States at least 18 months; fluency in English, fluency in second language preferred; knowledge of global business; strong interpersonal and communication skills. Must be authorized to work in the United States on a permanent basis.

Academic Secretary 980292. *Political Science.* Requirements: some college, degree preferred; ability to organize, set priorities and follow up on details; ability to work on several projects simultaneously; excellent interpersonal and computer skills; knowledge of University procedures preferred; ability to work with minimum supervision. Responsibilities include handling a multitude of student questions and working with faculty and students in a variety of ways.

Assistant Director Donor Relations for Stewardship 980293. *Major Gifts.* Requirements: bachelor's degree; four years development, advancement and/or accounting experience, preferably within a complex university; thorough knowledge of institutional development, donor relations and stewardship; strong written and verbal communication skills; outstanding organizational skills; attention to detail and accuracy; experience in donor research, tracking and coordinating stewardship activities; team player; familiarity with advanced university capital gift/project techniques (moves management, tracking systems, foreground/background initiatives); experience producing development materials; familiarity with event planning and coordination. Responsibilities include analyzing confidential information regarding major prospects.

Special Services Assistant 980294. *Student Affairs.* Requirements: certificate or associate's degree; strong interpersonal and communication skills; sensitivity in dealing with disabled persons and disability issues; strong organizational skills; computer skills, including Microsoft Word, Filemaker Pro and general knowledge of Macintosh computers.

Associate Director, Corporate and Foundation Relations 980296. *Medical Alumni and Development Programs.* Requirements: bachelor's degree, advanced degree preferred; three years fund-raising experience in higher education or record of achievement in a field requiring similar skills; experience in medical school or health sciences; knowledge of principles of corporate and foundation philanthropy; excellent writing and creative skills; proven success in proposal writing; experience in collaborative project management, setting goals, gathering and organizing information and working with limited resources; ability to balance priorities; flexibility; ability to capitalize on opportunities; understanding of private research university; strong organizational skills; energetic; strong work ethic; genuine commitment to advancement of science and science education.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested should contact the medical school's Department of Human Resources at 362-7196 to request applications. External candidates may call 362-7195 for information regarding applicant procedures or may submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

User Support Technician 980654. Requirements: associate's degree or two years technical training or experience in related discipline; training or experience in PC hardware and software technologies, including Windows 3.1, Windows 95, Office 95 and Lotus Notes; familiarity with TCP/IP and Windows NT, LAN technologies, mo-

dem and remote connectivity protocols; superior communication and personal interaction skills to interact with all levels of staff and faculty members. Entry-level telephone support position. Responsibilities include assisting callers with computer problems and questions.

Secretary III 981144. Requirements: high school diploma or equivalency with three or more years experience in medical office setting; ability to type and use various software processing packages to set up spreadsheet and report formats; knowledge of medical terminology; good communication and organizational skills. Responsibilities include secretarial duties such as typing, dictation, scheduling meetings and making travel arrangements.

Systems Support Technician II 981157. Requirements: associate's degree in computer science with two to four years experience; thorough understanding and knowledge of computer components and their interface requirements. Responsibilities include providing full

range of desktop support services to end users; installing and maintaining computer software, printers and peripherals; troubleshooting, diagnosing and resolving problems; instructing end users on use of equipment; maintaining inventory records of equipment and computer hardware.

User Support Manager 981200. Requirements: bachelor's degree or equivalent in computer science with five years related experience; supervisory and helpdesk experience; working knowledge of varied hardware and software and related LAN equipment. Responsibilities include supervising and coordinating activities of team that provides support to computer users; analyzing, designing, implementing and maintaining optimum configuration of computer systems; performing routine and emergency maintenance on applications; hiring, training, supervising and evaluating performance of user support personnel; keeping current on developing technologies and recommending upgrades.

Handbook offers help for families

The "Family Resource Handbook" is a practical guide for area residents seeking information on child care, entertainment and care of the elderly. A new edition of the book is available free of charge at the Office of Human Resources on both the Hilltop and Medical campuses.

The updated and expanded version is the third prepared by the Committee on Child Care/Family Resources of the Academic Women's Network (AWN) at the School of Medicine and by the Committee on Child Care and Family Responsive Policies of the Association of Women Faculty on the Hilltop Campus. Previous editions were published in 1991 and 1994. A grant from the Office of Human Resources and the College of Arts and Sciences helped fund the handbook.

The book is intended to offer help with important lifestyle decisions — decisions that can significantly impact job performance, said Joan C. Downey, M.D., assistant professor of pediatrics and chair of the AWN child care/family resources committee. "It's an important recruiting tool," Downey said. "If people have something like this, it makes life easier. If we make

life easier, then everyone will be more productive on the job."

The 60-page handbook includes a list of in-home child care agencies and agencies that care for sick children. It also offers tips on interviewing nannies. Information on area day care centers and nursery schools and a brief description of the area's public school districts, non-sectarian private schools, colleges and universities is included, as well as information on art, dance, volunteer and athletic organizations.

This latest edition has an expanded chapter on summer camps and activities for children. Also enlarged is the chapter on resources for the care of elderly relatives. New chapters on children's birthday parties and family entertainment in St. Louis also are included.

While many of the topics covered in the handbook traditionally have been considered women's issues, the book is not aimed solely at women, Downey said. "Family care is not a gender-specific issue," she said. "It's an important human resources endeavor for all members of the Washington University community. Everyone who gets a copy finds something useful in it."

Arts and Sciences gives first Distinguished Alumni awards May 15 — from page 1

education and the arts. She and her husband, Adam, were instrumental in the founding of St. Louis' world-renowned Laumeier Sculpture Park. She recently completed a term as a member of President Clinton's Advisory Committee on the Arts for the John F. Kennedy Center for the Performing Arts. Previously she served as an evaluator for the National Endowment for the Arts program in teacher education.

From 1991 to 1996, Aronson served as chair of the St. Louis Regional Arts Commission. In January 1998, she and her husband received the Lifetime Achievement in the Arts Award from the Arts and Education Council of Greater St. Louis.

She is the founder of KidsPlace, now the Youth Advisory Commission of the East-West Gateway Coordinating Council, and she has served on the Task Force for the Washington University School of Fine Arts (now the School of Art).

The author of numerous articles on the arts and on children's issues, Aronson is a member of the William Greenleaf Eliot Society.

Fox is a retired associate editor and chief editorial writer for the Kansas City Star. In his 44 years at the Star, he also served as a reporter, military commentator, Washington correspondent and foreign correspondent.

During World War II, he spent five years on active duty in the U.S. Army. A veteran of the invasion of Normandy, the Battle of the Bulge and the liberation of Paris, Fox was awarded the Bronze Star and the Army Commendation Medal with Oak Leaf Cluster. A member of the Army Reserve for 25 years, he retired as a full colonel.

He is a five-time first-place winner of the National Editorial Writing Contest's aviation section and was named Kansas City's Aviation Man of the Year in 1959 for his leadership in winning public support to fund and build the present Kansas City International Airport.

Fox, a longtime member of the Eliot Society, never forgot that he attended the University on a four-year scholarship. Since 1988, he has sponsored the Kenneth L. and Mary H. Fox Scholarship in Arts and Sciences.

Harbison, chairman of the Harbison Corp., retired from Monsanto Co. in 1993 after a distinguished 26-year career with the Fortune 500 company. For the last seven years at Monsanto, Harbison served as president and chief operating officer.

Previously he was with the Central Intelligence Agency for 18 years, rising to the rank of deputy director, and received the prestigious William A. Jump Award for distinguished service to the federal government.

A University trustee, he is chair of the Arts and Sciences National Council, former president of the Eliot Society and recipient of the University's 1987 Distinguished Alumni Award presented at Founders Day.

He and his wife, the former Suzanne Groves Siegel, B.S.B.A. '49, are sustaining charter members of the Danforth Circle, Life Benefactors of the Eliot Society, supporters of the Scholars in Arts and Sciences program and, recently, benefactors of the Earle and Suzanne Harbison Faculty Fellowship in Arts and Sciences.

Heinz is the Owen L. Coon Professor of Law, professor of sociology and a member of the research faculty of the Institute for Policy Research at Northwestern University.

He is a Distinguished Research Fellow of the American Bar Foundation and served as the foundation's executive director from 1982 to 1986. Heinz is co-author of "The Hollow Core: Private Interests in National Policy Making" (1993), "Chicago Lawyers: The Social Structure of the Bar" (1982; revised 1994) and "Public Access to Information" (1979). He also has published articles in law reviews, social science journals, Harpers magazine and Sports Illustrated.

The Law and Society Association, the principal interdisciplinary association of scholars

studying the legal system, presented Heinz and a colleague the 1987 Harry Kalven Prize for their research on the Chicago bar's social structure.

Heinz has served as a consultant to the University's Department of Political Science in Arts and Sciences and was the inaugural Thomas H. Eliot memorial lecturer in 1992.

Levin, a world authority on diabetes, is professor emeritus of clinical medicine and associate director of the Endocrinology, Diabetes and Metabolism Clinic at the School of Medicine. His book, "The Diabetic Foot," now in its sixth edition, is the classic text in the field.

A highly respected practitioner, he retired from private practice in 1989 but has remained active in research and writing.

Lévin is past editor-in-chief of Clinical Diabetes and past co-editor of Diabetes Spectrum, both publications of the American Diabetes Association. Among the numerous awards he has received are the association's award for Outstanding Clinician of the Year in Diabetes in 1979 and Outstanding Physician Educator in the Field of Diabetes in 1991.

He received the medical school's Alumni Faculty Award in 1986 and the University's Distinguished Alumni Award at

Founders Day in 1989. A member and past chair of the Eliot Society's Membership Committee for the medical school, he established the Barbara and Marvin E. Levin Visiting Professorship in Endocrinology.

Danforth became chairman of the Board of Trustees in July 1995. He had served the University as chancellor for 24 years, providing exemplary leadership for what has become one of the nation's finest teaching and research institutions.

A graduate of Princeton University, Danforth received a medical degree from Harvard Medical School in 1951 and interned at Barnes Hospital. After serving in the U.S. Navy for two years, he completed medical training at Barnes and St. Louis Children's hospitals, joining the medical school faculty in 1957. He was appointed professor of internal medicine, his present faculty rank, in 1967.

From 1965 until his appointment as chancellor in 1971, he served as vice chancellor for medical affairs and as president of the Medical Center.

Danforth and his wife, the former Elizabeth Gray, have devoted countless hours to meeting and communicating with students, parents, alumni and friends of the University on campus and throughout the world.

— Susan Killenberg