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Priscilla B. McDonnell, wife of the late James S. McDonnell, and Chancellor William H. Danforth unveil a portrait of James S. McDonnell. The portrait, painted by St. Louis artist Gilbert G. Early, a 1959 Washington University alumnus, now hangs in the classroom wing of McDonnell Hall. The new building was named after McDonnell, who is remembered as a generous and visionary supporter of the University and of the scientific enterprise.

A tribute to 'Mr. Mac'

More than 200 attend James S. McDonnell Hall dedication

Despite dreary weather outside, April 15 was "a day for sunshine in the soul of Washington University," said Chancellor William H. Danforth, as he dedicated the new James S. McDonnell Hall. More than 200 faculty, students, staff, University trustees, alumni and donors packed the new building's first-floor lecture hall for the dedication ceremony and open house.

"This building like Washington University is a creation of faith, faith in education, in the possibility of human improvement so that each generation can be better than the last, and that through thought, human beings can make life on earth better for our children and our children's children," said Danforth. "James S. McDonnell Hall is a wonderful setting for academic work."

McDonnell Hall provides classroom and auditorium space for classes from all departments of Arts and Sciences, as well as research, laboratory, and office space for the Department of Biology and the Department of Earth and Planetary Sciences.

The building is named for the late James S. McDonnell, the founder and driving force behind the McDonnell Douglas Corp. McDonnell is remembered as a generous and visionary supporter of the University and of the scientific enterprise.

"Naming this building for 'Mr. Mac' pays tribute to a great friend and past leader of Washington University," said Martin H. Israel, Ph.D., dean of the Faculty of Arts and Sciences. "He was a man committed to higher education not in the abstract, but in action. His memory inspires the continued

search for new insights into the nature and workings of the universe."

During the ceremony, Chancellor Danforth and Priscilla B. McDonnell, wife of the late James S. McDonnell, unveiled a portrait of the aerospace pioneer. The portrait, painted by St. Louis artist Gilbert G. Early, a 1959 Washington University alumnus, now hangs in the classroom wing of McDonnell Hall.

John F. McDonnell, son of James McDonnell and chairman and chief executive officer of the McDonnell Douglas Corp., concluded his remarks by saying, "I will only describe one more of the many other ways in which my father interacted with Washington University," McDonnell told the audience.

"In fact it was what he considered his greatest contribution to the University. In 1965 when he was chairman of the Board of Trustees, he convinced a relatively junior faculty member of the medical school to leave research and become the vice chancellor for medical affairs. That was the all-important first step and built Danforth's transformation from a life of research to becoming one of the great academic leaders of this country," McDonnell said.

"On behalf of every member of 'Mr. Mac's' family, I thank the University for this great honor bestowed upon him. I cannot think of a more appropriate memorial to his love of and dedication to Washington University," he added.

James S. McDonnell served on Washington University's Board of Trustees from 1960 to 1966, including a term as chair

from 1963 to 1966. He also served as a director of Washington University's School of Medicine from 1961 to 1966 and as chair from 1964 to 1966. In addition, the McDonnell name has been associated with substantial gifts supporting Washington University in medical research, space research, and academic programs in business, engineering, and the arts and sciences.

"This is a building that is outstanding both in beauty and in function, and it is fittingly named for a man who loved this University," said Lee M. Liberman, chair of the University's Board of Trustees, during the dedication.

Other participants in the ceremony were: Raymond E. Arvidson, Ph.D., professor and chair of the Department of Earth and Planetary Sciences; Roy Curtiss III, Ph.D., George William and Irene Koechig Freiberg Professor and chair of the Department of Biology; Hideo Fukutani, president, Mitsubishi Kasei America Inc.; Ursula W. Goodenough, Ph.D., professor of biology; Wilfred R. Konneker, University trustee, and his wife, Ann Lee Konneker; Stanley L. Lopata, chair of the McDonnell Hall Campaign Committee; and Charles S. Sommer, vice-president and director of administration, Ralston Purina.

Lopata, president of Lopata Research and Development and a 1935 alumnus of the School of Engineering and Applied Science, chaired the building fund-raising campaign.

Mitsubishi Kasei America Inc. gave the first gift to the building. The generosity of Ralston Purina Co. made possible the classroom wing, which benefits all of the Arts and Sciences departments. The wing includes a 150-seat auditorium and two classrooms seating 75 and 85. The latter classroom was named for Wilfred R. and Ann Lee Konneker.

All of the donors present who contributed to the building's construction were recognized individually during the ceremony. Donors for the new building include alumni, friends and faculty of the University.

Plaques honoring Leadership and Major donors have been placed throughout the building. Leadership Donors are: Mr. and

Botanical Garden director to speak at Commencement

Peter H. Raven, Ph.D., director of the Missouri Botanical Garden and Washington University's Engelmann Professor of Botany, will deliver the University's 132nd Commencement address on May 14. Commencement begins at 8:30 a.m. with the traditional academic procession into Brookings Quadrangle. In case of rain, the ceremony will be held at 10 a.m. at the St. Louis Arena, 5700 Oakland Ave.

Raven is an impassioned advocate for the preservation of biological diversity and for saving the world's tropical rainforests and animal and plant habitats. He will speak on the environment, and our shared dependency and responsibilities.

Since coming to St. Louis in 1971, Raven has been concerned with the devel-



Peter H. Raven

opment of the Missouri Botanical Garden's research program in tropical botany, which has become one of the most active in the world. In addition, he has continued his work with graduate students and his research on Onagraceae, the evening primrose plant family. He is active in efforts to enhance public awareness of the ecological crisis in the tropics. Under his leadership new features have been developed at the Garden, including the Japanese Garden, the English Woodland Garden, the Ridgway Center, the Climatron, the Shoenberg Temperate House, the William T. Kemper Center for Home Gardening, and the Conservation Center, now under construction.

Last month, Interior Secretary Bruce Babbitt recruited Raven and Thomas E. Lovejoy of the Smithsonian Institution to help set up a national biological survey to map the country's ecosystems and biologi-

Continued on page 8

Students work to make 'April Welcome' a success

From conducting campus tours to serving as overnight hosts, the Washington University Student Admission Committee (SAC) is offering visiting high school students a unique perspective of college life.

The volunteer committee, composed of approximately 70 students, is helping the Office of Undergraduate Admission facilitate "April Welcome," a University-wide effort that offers admitted prospective students the opportunity to experience a typical day on campus.

The success of "April Welcome" has translated into a record number of visitors on campus.

- During April 1 through 16, a total of 530 admitted students — accompanied by 380 parents — visited Washington.

- As of April 16, the admission office was expecting a total of 800 students and more than 500 parents by April 30. Individuals who are currently registered for "April Welcome" represent 45 states, as well as Washington, D.C., Canada, Puerto Rico, and Aruba.

- The admission and residential life offices have accommodated 360 requests from prospective students to stay overnight in a residence hall.

- Besides all the admitted students visiting Washington, the admission office welcomed 72 juniors through April 12. Offi-

Continued on page 8

In This Issue...

Natural defense: Researchers find that a particular gene reverses the cancer-like growth characteristics of human melanoma cells *Page 2*

Tough, dedicated teacher: Jeigh Singleton teaches students how to survive competitive world of fashion design *Page 3*

Parking options: To help the campus community better prepare, the green permit lottery will be held in May instead of August *Page 6*

Continued on page 6

Medical Update



School of Medicine personnel examine slices of an autopsied human brain as part of a typical neuropathology conference. They are trying to determine whether the deceased's diagnosis and medical history are supported by the gross anatomy of the brain. From left: Kevin Roth, M.D., Ph.D., assistant professor of pathology, Robert Schmidt, M.D., Ph.D., associate professor of pathology, Lynne Champagne, fourth-year medical student, and Debbie Commins, M.D., Ph.D., neuropathology fellow.

'Feeding tube' may nourish malaria parasite

School of Medicine researchers have found a molecular "feeding tube" that may be critical to the malaria parasite's survival in human red blood cells. The molecule is an ion channel that allows essential nutrients to pass from the red blood cell into the parasite.

"This seems to be a molecule that is involved in the parasite's eating behavior, and it may be necessary for the parasite to live. So eventually it could be a target for the development of drugs to starve malaria," said Edwin McCleskey, Ph.D., associate professor of cell biology and physiology.

McCleskey conducted the study with lead author Sanjay Desai, M.D., Ph.D., and Donald Krogstad, M.D. Desai is now a medical resident at Duke University, and Krogstad recently became chairman of the School of Public Health and Tropical Medicine at Tulane University. Their report appears in the April 15 issue of *Nature*.

The malaria parasite spends part of its complex life cycle inside human red blood cells, McCleskey explained. There, it exists encased in two membranes: one its own, and the other a sac formed around the parasite from the red blood cell's membrane. The parasite multiplies inside the red cell for two days and then bursts out, sending roughly 32 new parasites into the blood to infect 32 more red cells.

While in red cells, the organism is known to use hemoglobin as its main food source. "But it also needs glucose and some amino acids that are not present in hemoglobin. So it has to come up with ways to get these foods, and everything it eats has to come through the red blood cell," McCleskey said. Past studies have shown the movement of radiolabeled glucose from the cytoplasm of red cells into the cytoplasm of malaria. But until now, there was no explanation for how such nutrients actually crossed the double barrier.

The investigators used a technique called patch clamping to study tiny sections of the parasite's outer membrane. They detected minuscule fluctuations in electrical current caused by ions crossing the membrane — evidence that ion channels were present. In addition, they found that two of the parasite's essential nutrients — a positively charged amino acid called lysine, and

glucuronate, glucose with a negative charge tacked on — could pass through the channel.

Ion channels are a family of molecules that act as gates to control the flow of ions across membranes. They are best known for causing electrical conduction in nerves, muscles and heart tissue. But because the malaria parasite has no apparent need for long-distance communication, it was not immediately clear why they might need these channels, McCleskey said.

The investigators found several unusual characteristics of the new channel that suggest it plays a role in feeding, he said. Typically, ion channels are extremely selective; they allow only very small particles of a certain charge to pass through. But the parasite's channels are permeable to both positive and negative ions, as well as organic molecules too large to pass through most channels, the investigators found.

The parasite's channels may be similar to the non-selective ion channels called porins that certain cell components and bacteria use to acquire nutrients, McCleskey said. "These systems all have double membranes just like the malaria parasites do," he said. "Porins sit on the outer membranes and let small organic molecules pass through. Then on the inner membrane, special pumps decide which of those molecules will travel the rest of the way inside."

The next step, McCleskey said, is to

find an easier way to study the channel. To take each patch clamp measurement, the investigators broke open a malaria-infected red blood cell, then carefully sucked the parasite onto the tip of a tiny glass tube. The tubes were less than one-fifth the diameter of a red blood cell, the smallest cell in the body. Electrodes measured electrical activity in the section of membrane isolated by the tubes, in some cases showing the opening and closing of a single channel molecule.

When the procedure worked, it detected changes in current of about 10^{-11} amps, one of the largest signals that's ever been seen in an ion channel, McCleskey said. That current represents one million ions per second streaming through the channels. But the procedure worked in only five tries out of 100. To make drug screening practical, the channel will have to be put onto a less-fragile cell, he said.

Studies to understand the biology of the malaria parasite are essential because 5,000 people a day still die from the disease worldwide, McCleskey said. Most deaths result from one parasite species that is resistant to the most important malarial drug, chloroquine. "So we do need additional drugs or a vaccine. We try to describe the biology of the parasite to try and find molecules that are essential for it to live and then design drugs to knock those molecules out," he said.

— Juli Leistner

Fifteen students selected as Olin fellows

The School of Medicine has selected 15 students as Spencer T. and Ann W. Olin Medical Scientist Fellows for 1992. Eleven of the recipients are in the six-year Medical Scientist Training Program (MSTP), a program that trains students simultaneously as physicians and researchers, granting a combined M.D./Ph.D. degree; the other four are pursuing doctoral degrees.

The recipients, who were selected for their superior achievement in biomedical research, are: Jonathan N. Glickman, Howard P. Goodkin, Michelle L. Hermiston, Randall R. Johnson, Gregory Joslin, Brenda Myers-Powell, Thomas M.J. Neiderman, David M. Pressel, Christopher R. Solaro, Joel S. Solomon, Thomas E.

Wilson, all of whom are in the MSTP program; and S. Thomas Carmichael, John D. York, Maria J. Donoghue and Susan E. Koester, who are doctoral students.

The fellowships were made possible by a \$30 million gift from the Spencer T. and Ann W. Olin Foundation. They were established in an effort to help fill the continuing shortage of physicians who pursue careers in biomedical research. The awards are primarily for MSTP students, but also are awarded to selected students pursuing doctoral degrees in biomedical science.

Since the program began in 1987, 61 students have been selected Olin Fellows. The current group brings the total to 76.

Gene reverses malignancy of melanoma cells

School of Medicine researchers along with scientists at the University of Michigan Comprehensive Cancer Center have found that a particular gene, called MnSOD, reverses the cancer-like growth characteristics of human melanoma cells. Melanoma, an often fatal form of skin cancer, is increasing in incidence faster than any other form of cancer in humans.

The study is published in the April issue of the *Journal of the National Academy of Sciences*.

Investigators at the University include James Grant, M.D., and Susan L. Church, M.D., both assistant professors of pediatrics. The investigators say that these results extend knowledge of one of the body's natural defense systems known to prevent cell damage caused by irradiation, ultraviolet light and other environmental carcinogens. The work further suggests that MnSOD may also have an effect on cell growth.

Investigators at Michigan include Paul Meltzer, M.D., Ph.D., assistant professor of pediatrics, and Jeffrey M. Trent, Ph.D., deputy director for U-M's Cancer Center.

The segment of the chromosome on which this gene is found is often missing in malignant skin cancers. The researchers conclude that introducing these genes into human melanoma cells has the same tumor-suppressing effects as introducing the entire chromosome.

In the United States the incidence of melanoma has almost tripled in the past four decades, growing faster than any other type of cancer. Approximately 36,000 Americans were diagnosed with melanoma in 1992, and about 20 percent, or 7,000, of those individuals will die from melanoma. If the disease is not diagnosed early, the death rate climbs to almost 100 percent.

The current five-year survival rate of 80 percent is a vast improvement from the 49 percent survival rate between 1950-54. Projections suggest that melanoma will develop in one in 90 Americans by the year 2000.

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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Singleton fashions students into designers

When Jeigh Singleton's students graduate, they have learned everything from how to sew a straight seam to how to survive in the sometimes brutal and competitive world of fashion design.

Singleton, associate professor and head of the fashion design department at the School of Fine Arts since 1987, guides juniors and seniors through an intensive hands-on program intended to prepare them for professional fashion design. Singleton is the only full-time professor in the department, one of seven departments in the School of Fine Arts.

The two most intense classes are perhaps junior and senior studios. Intended for fashion majors, these classes meet for six hours, three times a week. The lights never go out on the second floor of Bixby Hall as students spend hours designing and preparing projects. This year projects included cocktail dresses, evening wear, "space-age" wear, theatrical costumes and Russian-influenced coats.

Studio projects are critiqued by local fashion professionals, and the best ones are included in the annual spring fashion show, which this year is at 6 and 8 p.m. Thursday, April 29.

Singleton has a reputation among his students as a tough master, but, in the long run, they appreciate that quality. In a 1987 St. Louis Post-Dispatch article, Singleton said "after every class period I usually apologize to the students and ask if I did anything to hurt their feelings. I say to them, 'I'm sorry but I was telling the truth.' It just gets them used to having their feelings hurt and to get past the feelings part to the communications part."

Maria Affentoulis, who graduated from the fashion department in 1990 and from the Olin School of Business in 1991, is especially appreciative of Singleton's style. "If he's tough, it's because he has to be. If you're going to work in this profession you have to be able to take it and he is trying to prepare us. On the other hand, he lets you try as much as you want. I don't think any other fashion teacher would have let me double major because sometimes I had to leave studio to go to a statistics class or something. Jeigh let me try it and expected me to make up the time."

Singleton is not only tough on his students, he is dedicated to them. Gina Agee, who was a member of Singleton's first fashion class in 1987, said, "He really pushed us, but he also went all out for us. If we were working on a big project, he stayed all hours in the studio, just to be there whenever we had questions."

In addition to spending long hours with the fashion students, Singleton has replaced outdated equipment with state-of-the-art sewing machines and sergers (a machine that finishes seam edges), and has expanded student participation in national and international design competitions. In 1987, for example, Singleton encouraged his students to enter the International Air France student fashion competition. Although none of them made the finals in Paris that year, Singleton and 17 of his students went to Paris to see what the competition was all about. In 1990 and 1991 Washington University fashion design students did compete in the Paris final. Nancy Freund, who graduated in 1991, was the only American to win a prize in 1990. Her prize was the equivalent of a \$1,000 scholarship. Other competitions students participate in include Designer of the Year award, the Lord & Taylor Dress Design Competition and the Stanley Heller National Association of Menswear Buyers. These projects have helped gain recognition for Washington University students and increased the number of scholarships and prizes for fashion students from national and local organizations.

A relationship with local manufacturers has been a feature of the program since 1929 when manufacturers attended the first student fashion show. Singleton has expanded participation to include members of the arts community, designers and retailers, including the Forum Gallery, The Saint Louis Galleria, Angelica Uniform Group, The Fashion Group, The Missouri Historical Society and Bridal Originals. Members of these organizations not only come to the annual fashion show, but participate at the School of Fine Arts as critics, mentors and collaborators.

Singleton also has opened up fashion design to non-majors in the School of Fine Arts, both by offering more elective classes in the program and by initiating more collaborations with other areas in the School of Fine Arts, including graphic design, photography, printmaking, and video.

"Jeigh really helped the department grow," said Affentoulis. "He made other departments aware that fashion is art. I think other departments began to have much more respect for fashion."

In his 25 years of professional design experience, Singleton's projects have ranged from frivolous to practical. His clients have included the "country club and church-go-

ing set," showgirls, theatre companies and people in wheelchairs. And he brings all those experiences into the classroom.

"I am teaching my students to solve problems," says Singleton. "My feeling is, if you can design clothing, you can create anything."

Beyond mentoring and teaching 23 students in the fashion program, Singleton continues to be a busy free-lance designer and artist, as well as businessman. Singleton has

his work, other teachers suggested fashion design.

"In my first class in clothing construction I was introduced to the sewing machine. The sewing machine won that round," he recalls.

The next class in the program was patternmaking, which really appealed to the architect in Singleton. Singleton describes patternmaking as "very process-oriented, systematic and logical."

In a 1992 St. Louis Post-Dispatch article Singleton said

Tuskegee was "as much a finishing school for black kids as it (was) a college. When I got (there) the school was making the transition to a real university and many disciplines that had been lumped together were being broken up as separate sequences. What I ended up doing was taking a wide array of courses, especially tailoring. We took classes in journalism and photography and philosophy."

So after completing college in 1966, Singleton still had no specific plans to be a designer. However, his parents, firmly believing in the importance of education, urged him to go to graduate school in something; it didn't matter what. Singleton found a fashion program at Kansas State University (KSU) that was "more science than art." The program gave Singleton extensive background in textiles, thermal insulating fabric and tear strength of different fabrics.

"I left that program knowing the chemical formula for Dacron Polyester and the brand names for every maker of polyester nationally and internationally," says Singleton, laughing and shaking his head.

Although he eventually got his degree from KSU in 1970, Singleton left just before completing his thesis, leaving out of frustration and on a dare from his adviser who said he'd never get a job as a full-fledged designer.

"I never cared about the alphabets behind my name, I just wanted the knowledge," says Singleton of his early departure.

Singleton headed off to St. Louis for the first of many jobs in the fashion field. Although to describe his graduate school experience as enjoyable would be stretching it, he said it gave him a good background for industry. "I went in with more textile information than anyone in the company," he notes.

Today, one of Singleton's many free-lance projects involves designing for White River Industries, an Arkansas-based company that designs clothing for people in wheelchairs. Their customers are people who want to keep abreast of the latest fashion colors and designs.

When White River Industries owner Peter Peitz first called to suggest a collaboration, Singleton was dubious. But, Peitz showed

Singleton some of the designs for seated figures and Singleton was immediately intrigued.

In the sitting position, fabric in regular clothing bunches. In this line, the extra fabric is eliminated. Pockets, designed for easy access, are put, not on the hip line, but along the bottom edge of the jacket or shirt. Jackets and shirts also are made longer in the back than the front, so they stay tucked in.

Singleton was asked to design a line of clothes from which each individual could get a different look with the same basic piece of clothing.

Another current project stretches halfway around the world. In conjunction with the St. Louis chapter of the Women's Forum, Singleton has become involved in a program to help women in Russia. Last May Elena Ershova, Ph.D., a member of the Russian chapter spoke to the St. Louis Women's Forum. One of the things Ershova spoke about was the need to improve Russian women's fashion knowledge and, by extension, their self-esteem. Mary Lou Hess, a member of the St. Louis chapter, contacted Singleton, who offered Ershova's group 10 top-quality industrial sewing machines that had been sitting idle in the fashion department for years. Singleton had tried to sell the machines for several years, but no one was interested.

"These machines are like race cars, they had broken down from lack of use rather than over use. They are not designer friendly, but are good for doing a lot of fast sewing," said Singleton.

Although it took months to deliver them to Moscow, Singleton got word that the machines arrived in Moscow March 10.

Singleton has big hopes for the joint venture. For now, he continues the Russian theme in his class. Next year's first design projects will be Russian-inspired works. Local designers will be invited to create things based on those student designs, to expand on the student works to make them manufacturable. Ultimately he envisions the creation of a fashion industry in Moscow to parallel one in St. Louis.

"Who knows?" Singleton says, only half joking, "Maybe next year's fashion show will be not in the Center of Contemporary Art, but in Red Square!"

— Debby Aronson



Jeigh Singleton (right), and senior fashion design student Lara Kazan.

"I am teaching my students to solve problems. My feeling is, if you can design clothing, you can create anything."

created numerous fashion lines, including "Rajah," a line of holiday wear for Lamberti Sport, which is marketed in the southwest and southeast United States. He also creates what he calls "wearable art" that is both sold in boutiques and exhibited at various local art exhibits. Recently, his work was included in a show at the Forum for Contemporary Art, titled "East Side/West Side." The exhibit featured four artists from southern Illinois and St. Louis. Singleton also occasionally designs for the theatre. Most of his projects have involved designing costumes for St. Louis Black Repertory Theatre company productions, such as "Dressin' Up, Steppin' Out, and Gettin' Down," "Ain't Misbehavin'," "Dream on Monkey Mountain" and "Bubblin' Brown Sugar."

In the course of all these projects, Singleton also has marketed and sold his creations and implemented the planning and construction of complex clothing lines.

Born James Dennis Singleton Jr., he grew up in Plaquemine, La., a predominantly black community where "the whole idea of excellence was encouraged. We were expected to compete academically and extracurricularly."

Although there was no formal art program in his high school, Singleton's teachers knew of his interest in drawing and alerted him to state competitions in art. Singleton went to Tuskegee Institute in Alabama intending to become an architect. However, the course of study seemed like it would take too long and he was, in his words, "too impatient." An adviser suggested an art class, which he loved. After seeing

Calendar

April 22–May 1



Exhibitions

"The Core Show." Exhibit opening: 5-7 p.m. April 30. Exhibit continues through May 16. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4643.

Master of Fine Arts Thesis Exhibition II. Exhibit opening: 5-7 p.m. April 23. Exhibit continues through May 2. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-6597.

"Perspectives: Jarvis Thurston and Mo'na Van Duyn." Through May 7. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Washington University Art Collections — 19th- and 20th-century European and American Artists." Through May. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Bodies, Bones and Belligerence: China Perceived by Westerners, 1914-1941." Through May 28. Glaser Gallery, seventh floor, School of Medicine Library. Hours: 8 a.m.-10 p.m. weekdays; 1-6 p.m. weekends. For more info., call 362-4239.

"Goddesses, Queens and Women of Achievement on Coins and Medallions From the Wulfin and Bixby Collections." Through July 3. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.



Films

Friday, April 23

7 p.m. The Gay and Lesbian Association of Student Social Workers presents "The Life and Times of Harvey Milk." Room B-22 Brown Hall.



Lectures

Thursday, April 22

Noon. Dept. of Genetics seminar, "Towards a YAC-based Physical Map of Human Chromosome 7," Eric Green, asst. prof., WU depts. of pathology, genetics and medicine. Room 816 McDonnell Medical Sciences Bldg.

Noon. Dept. of Pediatrics Research Seminar, "Placental Glutamate Metabolism," Aaron Moe, research instructor, WU Dept. of Pediatrics. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

2:30 p.m. Dept. of Mechanical Engineering lecture, "Electrical Stimulation of Paralyzed Muscles," William K. Kurfee, Brit and Alex d'Arbeloff Associate Professor of Engineering Design, Dept. of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. Room 100 Cupples II Hall.

3 p.m. Division of Biology and Biomedical Science student-sponsored seminar, "Growth Factor and Neurotransmitter Regulation of the c-fos Proto-oncogene,"

Mike Greenberg, Harvard U. Clopton Aud., 4950 Children's Place.

4 p.m. Assembly Series presents a lecture/demonstration, "The Dance Theatre Art of Nikoia and Murray Louis," including solo and group improvisations with Murray Louis, Nikoia and Murray Louis Dance Company. Edison Theatre. For more info., call 935-5285.

4 p.m. Central Institute for the Deaf (CID) Research Seminar, "Review of the NAS Colloquium: Human-machine Communication by Voice February 8-9, 1993, Irvine, California," James D. Miller, research dept., CID. Second Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Chemistry seminar, "Reductive Cyclization of Unsaturated Ketones: Homogeneous and Heterogeneous Redox Catalysis Studies," James E. Schwartz, Grinnell College, Grinnell, Iowa. Room 311 McMillen Laboratory. (Coffee: 3:40 p.m.)

4 p.m. Dept. of Earth and Planetary Sciences colloquium, "An Example Use of Artificial Neural Networks in Environmental Remote Sensing," James A. Smith, staff scientist, Laboratory for Terrestrial Physics, NASA Goddard Space Flight Center and visiting scientist, Earth Systems Science Curriculum Grant. Room 362 James S. McDonnell Bldg.

4 p.m. Dept. of Molecular Biology and Pharmacology presents the 16th Oliver H. Lowry Lecture, "Misplaced Oncogenes," Philip Leder, prof. and chairman, Dept. of Genetics, Harvard Medical School; senior investigator, Howard Hughes Medical Institute, Boston. Moore Aud., first floor, WU School of Medicine.

4 p.m. John M. Olin School of Business lecture, "The New World of Business Competition," William E. Simon, president, John M. Olin Foundation and former secretary of the U.S. Treasury. May Aud., Simon Hall. For more info., call 935-4214.

4:15 p.m. Dept. of Political Science Honors Convocation and Second Annual Thomas H. Eliot Memorial Lecture, "Tom Eliot and the Department: A Brief History," John Kautsky, professor emeritus, WU Dept. of Political Science. Room 200 Eliot Hall.

4:30 p.m. Dept. of Mathematics colloquium, "K-theory and Cyclic Homology," Susan Geller, prof., Texas A&M U., College Station, Texas. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

Friday, April 23

9:15 a.m. Pediatric Grand Rounds, "Food Allergy: What is it? Who has it?" S. Allan Bock, clinical prof., Dept. of Pediatrics, U. of Colorado Health Sciences Center. Clopton Aud., 4950 Children's Place.

Noon. Dept. of Cell Biology and Physiology seminar, "Functional Diversity of Actin Isoforms," Ira M. Herman, Dept. of Anatomy and Cell Biology, Tufts U. School of Medicine, Medford, Mass. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. Solid-state Engineering and Applied Physics seminar, "Piezoelectric Properties of GaAs and Application as an Acoustic Sensor in Hyperthermia Treatment," Daniel L. McKinnis, graduate student, WU Dept. of Electrical Engineering. Room 305 Bryan Hall.

2:30-5:30 p.m. The American Chemical Society St. Louis Award Symposium, "Pathogenesis, Mutagenesis and Cancer: Chemical Approaches to Complex Biological Problems," David Lynn, assoc. prof., Dept. of Chemistry, U. of Chicago; John-Stephen Taylor, assoc. prof., WU Dept. of Chemistry; and Darryl Rideout, assoc. member, Dept. of Molecular Biology, The Scripps Research Institute, La Jolla, Calif. Room 458 Louderman Hall.

4 p.m. Dept. of Anatomy and Neurobiology seminar, "mSlo, A Complex Mouse Gene Encoding a Family of 'Maxi' Ca²⁺-activated K⁺ Channels," Larry Salkoff, assoc. prof., WU Dept. of Anatomy and Neurobiology. Room 928 McDonnell Medical Sciences Bldg.

4 p.m. Dermatology Research Seminar, "Mouse Notch: Expression in Hair Follicles and in Presomitic Mesoderm Correlates With Cell Fate Determination," Raphael Kopan, The Fred Hutchinson Cancer Research Center, Seattle. Room 7706 Wohl Hospital.

4 p.m. Program in Cancer Research Seminar, "Phenotype of Mice Targeted for the Gsh-4 LIM Type Homeobox Gene," Steven Potter, Children's Hospital Medical Center, Cincinnati. Room 8841 Clinical Sciences Research Bldg.

Saturday, April 24

7:30 a.m.-4 p.m. Office of Continuing Medical Education seminar, "Principles of Hemodynamic Monitoring in Anesthesia and Intensive Care," Demetrios G. Lappas, program chairman. (6.5 credit hours AMA Category 1.) The Ritz-Carlton Hotel, St. Louis, 100 Carondelet Plaza. Cost: \$125 for physicians; \$75 for physicians-in-training, nurses and allied health professionals; and free for WU full-time staff. For more info., call (314) 362-6893 or (800) 325-9862.

9 a.m. Dept. of Anatomy and Neurobiology seminar, "A Neurobiological Model of Visual Attention and Invariant Pattern Recognition," Bruno Olshausen, WU graduate student. Erlanger Aud., McDonnell Medical Sciences Bldg.

Monday, April 26

11 a.m. Dept. of Mathematics major oral with Fausto Di Biase, WU graduate student. Room 199 Cupples I Hall.

Noon. Endocrinology, Diabetes and Metabolism Group Research Seminar, "Effect of Chronic Alcohol-feeding on Serum High Density Lipoprotein in the Rat," Renee C. Lin, assoc. prof. of medicine and biochemistry and molecular biology, Division of Gastroenterology and Hepatology, Dept. of Medicine, Indiana U., Indianapolis. Amphitheater 3N30 Children's Hospital.

4 p.m. Graduate Program in Immunology Special Student-sponsored Seminar, "Recognition of Peptide: MHC Class II by the CF4 T Cell Receptor," Charles A. Janeway Jr., prof. of immunobiology, Howard Hughes Medical Institute, Yale U. School of Medicine, New Haven, Conn. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

7 p.m. African and Afro-American Studies Program, American Culture Studies and Society for the Study of African-American Life and History present a lecture, "Race, Sex and Rock & Roll: The Chuck Berry Mann Act Trials of 1959-1960," John Mason, Dept. of History, U. of Florida, Gainesville. Julia Davis Library, 4415 Natural Bridge. For more info., call 935-5690.

Tuesday, April 27

Noon. African and Afro-American Studies and American Culture Studies present a brown bag lecture, "Between the Devil and the Deep Black Sea: Colored People in the New South Africa," John Mason, Dept. of History, U. of Florida, Gainesville. Lambert Lounge, Mallinckrodt Center. For more info., call 935-5690.

Noon. Radiology Research Division Brown Bag Seminar, "Kinematic and Kinetic Patterns of Locomotor Coordination in Spastic Cerebral Palsy," Robert Deusinger, asst. prof., WU Program in Physical Therapy. Room 482 Old Children's Hospital.

4 p.m. African and Afro-American Studies Program lecture, "The Ghosts of Conquest, or Why Old History Matters in the New South Africa," John Mason, Dept. of History, U. of Florida, Gainesville. For more info., call 935-5216. (Reception immediately following.)

4 p.m. Dept. of Chemistry seminar, "New Strategies for the Synthesis of Biologically Active Natural Products," John M. Nuss, U. of California, Riverside. Room 311 McMillen Laboratory. (Coffee: 3:40 p.m.)

4 p.m. The First Annual MSTP Alumni Lecture, "Towards an Effective Therapy for AIDS," Warner Greene, The Gladstone Institute. Cori Aud., 660 S. Euclid Ave.

4:30 p.m. Dept. of Mathematics colloquium with Robert E. Greene. Room 199 Cupples I Hall. (Tea: 4 p.m. Room 200.)

Wednesday, April 28

8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds, "Adnexal Masses in Preg-

nancy," Peggy Klebba, chief resident, Dept. of Obstetrics and Gynecology, WU School of Medicine. Clopton Aud., 4950 Children's Place.

12:30 p.m. Neuroscience Luncheon Seminar, "Neuronal Activity and the Formation of Precise Connections in the Visual System," Rachel Wong, U. of Queensland, Australia. Room 928 McDonnell Medical Sciences Bldg.

2:30 p.m. Dept. of Mathematics master's oral, "The N-coalescent: Implications for Phylogeny Reconstruction," Keith Crandall, WU graduate student. Room 199 Cupples I Hall.

4 p.m. Dept. of Biology seminar, "Evolution of Darwin's Finches," Peter R. Grant, Princeton U. Room 322 Rebstock Hall.

4 p.m. Dept. of Biochemistry and Molecular Biophysics seminar, "Rb and p53 Knockout Mice," Tyler Jacks, Massachusetts Institute of Technology, Cori Aud., 660 S. Euclid Ave.

Thursday, April 29

Noon. Dept. of Genetics seminar, "Allelic Losses in Squamous Cell Carcinoma," Steve Scholnick, asst. prof. of otolaryngology, WU School of Medicine. Room 816 McDonnell Medical Sciences Bldg.

Noon. Dept. of Pediatrics Research Seminar, "A Novel GATA-binding Transcription Factor Expressed in Heart and Endodermal Derivatives," David Wilson, asst. prof. of pediatrics, WU School of Medicine. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

4 p.m. Central Institute for the Deaf Research Seminar, "Identification of Genes for Inherited Disorders Using Mapping Technologies," Helen Donis-Keller and Paul Goodfellow, Dept. of Medical Genetics, WU School of Medicine. Second Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Mathematics colloquium, "Kumon Machine: Learning Math With Silicon Paper," Dan Kimura, assoc. prof., WU Dept. of Computer Science. Room 199 Cupples I Hall. (Tea: 3:30 p.m., Room 200.)

4 p.m. Division of Biology and Biomedical Sciences Student-sponsored seminar, "Herpes Simplex Virus Gene Expression During Productive Infection and Latency," Priscilla Schaffer, Stanford U. Erlanger Aud., McDonnell Medical Sciences Bldg.

Friday, April 30

8:30 a.m.-5 p.m. Office of Continuing Medical Education seminar, "Current Issues in Amplification." Frontenac Hilton Hotel, St. Louis, Mo. Cost: \$75. For more info., call 362-6893 or (800) 325-9862.

9:15 a.m. Pediatric Grand Rounds, "Immunizations — Up To Date?" Penelope G. Shackelford, prof. of pediatrics and assoc. prof. of molecular microbiology, WU School of Medicine; Pediatric Infectious Diseases Division, St. Louis Children's Hospital. Clopton Aud., 4950 Children's Place.

Noon. Dept. of Cell Biology and Physiology seminar, "Manipulation of Wound Healing With Growth Factors," Jeffrey M. Davidson, Dept. of Pathology, Vanderbilt U., Nashville, Tenn., School of Medicine. Room 423 McDonnell Medical Sciences Bldg.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Marie Doss at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-8533.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-8533.

4 p.m. Dept. of Anatomy and Neurobiology seminar, "Analysis of Gene Expression in the CNS: Building the Tools," David Gottlieb, prof., WU Dept. of Anatomy and Neurobiology, Room 928 McDonnell Medical Sciences Bldg.

Saturday, May 1

7:30 a.m.-3:15 p.m. Office of Continuing Medical Education seminar, "Depression and Related Disorders in Women," Raj Nakra and Elizabeth P. Pribor, program chairpersons. (6 credit hours AMA Category 1.) Doubletree Conference Center, Chesterfield, Mo. Cost: \$75 for physicians; \$40 for physicians-in-training and allied health professionals. For more info., call (314) 362-6893 or (800) 325-9862.

9 a.m. Dept. of Anatomy and Neurobiology seminar, "Auditory Cortex: Maps and Mechanisms," Chris Schreiner, U. of California, Berkeley. Erlanger Aud., McDonnell Medical Sciences Bldg.

9 a.m.-12:30 p.m. The WU AIDS Clinical Trials Unit symposium, "Advances in the Management of Fungal Infections," Michael Saag, assoc. prof. of medicine and director, U. of Alabama AIDS Outpatient Clinic, Birmingham; John Wingard, prof. of medicine and clinical director, Bone Marrow Transplant Program, Emory U. School of Medicine, Atlanta; William Powderly, asst. prof., WU Dept. of Medicine; Victoria Fraser, asst. prof., WU Dept. of Medicine. Ritz-Carlton Hotel St. Louis, 100 Carondelet Plaza. Cost: \$50 for physicians; \$35 for allied health professionals and general public; free for physicians-in-training and HIV-positive persons. For more info. and reservations, call 362-2418.



Music

Thursday, April 22

8 p.m. Dept. of Music presents a "Concert of 17th-century Vocal and Instrumental Music" with soprano Christine Armistead, organist and harpsichordist Carl Smith, mezzo-soprano Robyn Reso, and lutenist Daniel Swenberg. Graham Chapel.

Friday, April 23

8 p.m. Dept. of Music presents a recital of 17th-century organ music with baroque organist Carl Smith. Saint Louis Abbey, 500 S. Mason Road.

Saturday, April 24

8 p.m. African and Afro-American Studies Program and the Dept. of Music present the Black Composer Repertory Chorus Concert directed by Robert Ray, adjunct instructor, African and Afro-American Studies, WU. Steinberg Hall Aud.

8 p.m. Dept. of Music presents the Chamber Choir of WU directed by John Stewart, assoc. prof., WU Dept. of Music. Second Presbyterian Church, 4501 Westminster Place.

Sunday, April 25

2:30 p.m. Washington University Symphony Orchestra Third Annual Chancellor's Concert, directed by Dan Presgrave. Saint Louis Art Museum Theatre, Forest Park. For more info., call 935-5581.

Monday, April 26

Noon. Dept. of Music presents an all-Beethoven chamber music concert with students and faculty, directed by Elizabeth Macdonald. Graham Chapel.

Tuesday, April 27

8 p.m. Dept. of Music presents a flute recital featuring flutist Soo Rhee. Rhee will be accompanied by flutist Naomi Kubo, cellist Elizabeth Macdonald, oboist Dedra Foote, harpsichordist Mary Jean Speare and pianist Sharon Tash. Fontbonne College, Recital Room 110 Fine Arts Bldg. For more info., call 935-5581.

Thursday, April 29

8 p.m. Dept. of Music presents the WU Vocal Jazz Ensemble Concert, directed by Fred Binkholder. Steinberg Hall Aud.

Friday, April 30

8 p.m. WU Opera presents scenes from Massenet's "Cendrillon," Rossini's "La Cenerentola" and Johann Strauss' "Die Fledermaus," directed by John and Jolly Stewart. Graham Chapel. For more info., call 935-5581.



Performances

Thursday, April 22

8 p.m. Performing Arts Dept. presents "Foaming at the Mouth," the winning play from the A.E. Hotchner Student Playwriting Competition. (Also April 23 and 24, same time, and April 25, 2 p.m.) Drama Studio, Room 208 Mallinckrodt Center. Cost: \$7 for the general public; \$5 for students, senior citizens and WU faculty and staff. For more info. and reservations, call 935-6543.

Friday, April 23

8 p.m. Edison Theatre "OVATIONS!" series presents Nikolais and Murray Louis Dance Company. (Also April 24, same time, and April 25, 2 p.m.) Edison Theatre. Cost: \$20 for the general public; \$15 for senior citizens and WU faculty and staff; and \$10 for students. For more info. and reservations, call 935-6543.

Saturday, April 24

2 p.m. Edison Theatre "ovations! for young people" series presents the Nikolais and Murray Louis Dance Company. Edison Theatre. Cost: \$7. For more info. and reservations, call 935-6543.

Monday, April 26

8 p.m. Performing Arts Dept. presents a senior dance concert with Chris Prentice, graduating dance major. (Also April 27, same time.) Drama Studio, Room 208 Mallinckrodt Center. For more info., call 935-5858.



Miscellany

Thursday, April 22

7 p.m. Center for American Indian Studies and EarthWays 1993 present an Earth Day Town Hall Meeting. Steinberg Hall Aud. For more info., call 963-1996.

Friday, April 23

9 a.m.-5 p.m. Dept. of Music Conference of The Society for 17th-century Music. (Also April 24, same time, and April 25, 9 a.m.-noon.) Room 110 John M. Olin School of Business on April 23 and Rooms 106 and 110 on April 24 and 25. For more info., call 935-5581.

Monday, April 26

8 p.m. International Writers Center and Committee on East Asian Studies presents a poetry reading and slide show by Lo Ch'ing, a Taiwanese poet and painter. Ch'ing is also a writer-in-residence at WU. Steinberg Hall Aud. For more info., call 935-5576.

Thursday, April 29

6 and 8 p.m. School of Fine Arts fashion show. Center of Contemporary Art, 524 Trinity Ave. Cost: \$12.50 for the 6 p.m. show and \$30 for the 8 p.m. show. For more info., call 725-6555

Friday, April 30

8:30 a.m.-5 p.m. Office of Continuing Medical Education seminar, "Current Issues in Amplification." (Continues Saturday, May 1, 8 a.m.-1 p.m.) Frontenac Hilton Hotel, St. Louis. Cost: \$175. For more info., call 362-6893 or (800) 325-9862.

10 a.m.-5 p.m. Committee on Social Thought and Analysis interdisciplinary conference, "Explaining Social Phenomena" (Continues May 1, 9 a.m.-6:30 p.m. and May 2, 10 a.m.-12:30 p.m.) Speakers include Craig Calhoun, U. of North Carolina, Chapel Hill; Frank Furstenberg, U. of Pennsylvania, Philadelphia; Richard Easterlin, U. of Southern California, Los Angeles; Michele Lamont, Princeton U.; Jon Elster, U. of Chicago; and Donald McCloskey, U. of Iowa, Iowa City. Alumni House, 6510 Wallace Circle. Reservations necessary. For more info. and reservations, call 935-4860.

11:30 a.m. The Woman's Club of WU announces a spring luncheon/program: annual business meeting and election of officers, followed by a docent tour. Saint Louis Art Museum Cafe. Cost: \$13.50. Reservation deadline is April 23. For more info. and reservations, call Annette Kimelman at 991-1261 or Jan Kardos at 763-0523.

Theatrical, space-age and evening wear to be featured at fashion show

The 64th annual School of Fine Arts fashion show will be held at 6 and 8 p.m. Thursday, April 29, at the Center of Contemporary Art, 524 Trinity Ave., in University City. A reception will follow the 8 p.m. show.

"The Fashion Show," as it is called, will feature designs by 12 juniors and 11 seniors in the fashion design program at Washington University. Those designs include evening gowns, sportswear, space-age wear, theatrical costumes, cocktail dresses and Russian-inspired coats. A total of 122 "clothed figures," meaning a complete outfit rather than a single piece, will be featured in the show.

Design prizes will be awarded at the 6 p.m. preview show. Those prizes are being awarded by numerous local and national companies.

Anatol's Fabrics, Eunice Farmer Fabrics, and Jackman's Fabrics each award \$100

prizes. Bernina of America and Dominic-Michael Hair Design Inc. team up to honor the Designer of the Year, a senior selected by the School of Fine Arts faculty. Bernina awards either a sewing machine or a serger, a machine that finishes seam edges, and Dominic-Michael awards a \$300 prize.

Kellwood Corp. and the Stanley Heller National Association of Men's Sportswear Buyers Foundation (NAMS) each award \$1,000 scholarships. The NAMS scholarship is shared by three students. St. Louis Galleria will award a \$500 prize to a student with a matching \$500 award given to the fashion design department. Lord & Taylor is awarding a \$2,500 scholarship for dress design.

Tickets to the fashion show are \$12.50 for the 6 p.m. show and \$30 for the 8 p.m. show.

For ticket reservations, call 725-6555. Tickets also are available at the door.

Poet and painter Lo Ch'ing to present his works

Lo Ch'ing, an internationally recognized poet, calligrapher, painter, cultural critic and scholar, will present his poetry and paintings at 8 p.m. Monday, April 26, at Steinberg Hall Auditorium. Free and open to the public, the event is sponsored by East Asian Studies and the International Writers Center at Washington University.

Lo Ch'ing is from Taiwan and a Fulbright Scholar-in-Residence this spring at Washington University. He is author of 10 volumes of poetry, four of them published with his paintings. Lo will read selections in Chinese and English from the recently published *Forbidden Games and*

Video Poems, the first edition of his selected work in any language. *Forbidden Games and Video Poems* was translated by Joseph Allen, Ph.D., associate professor of Chinese language and literature and director of East Asian Studies. Lo also will show slides of his paintings that illustrate his poems.

Lo Ch'ing's works are the subject of "Currents 54," an exhibit on display at the Saint Louis Art Museum through June 6, in Galleries 225 and 226. The display features scrolls as well as an album from the museum's permanent collection.

For information about the reading, call 935-5576.

Sports

Baseball

Last Week: Missouri-St. Louis 16, Washington 6; Washington 13-5, DePauw 2-1; Wabash 5-10, Washington 4-9

This Week: Quincy College, 3 p.m. Tuesday, April 20, Kelly Field; McKendree College, 3 p.m. Friday, April 23, Kelly Field; Rose-Hulman Institute, 1 p.m. Saturday, April 24, Kelly Field; Millikin University, 2 p.m. Sunday, April 25, Kelly Field.

Current Record: 15-16-1

The Bears dropped two heartbreaking games to Wabash College, 5-4 and 10-9. Pitchers Scott Savacool, Barrington, Ill., and Jason French, St. Charles, Mo., hurled complete-game victories. Savacool picked up the win in the first game as the Bears romped 13-2. In the nightcap, French, making his first start of the season, scattered four hits in a 5-1 Washington win.

On Sunday, Wabash notched a 5-4 extra-inning victory. In the second game, the Bears led 9-8 going into the bottom of the seventh inning, but a two-run triple gave Wabash another last-at-bat win. Washington lost the second game despite a three-run homer by sophomore Bob Wallace, Cary, Ill., and a two-run four-bagger by freshman Dane Glueck, Mountain Home, Ark.

Men and Women's Track and Field

Last Meet: DeLong Classic at Grinnell College (non-scoring)

This Week: University Athletic Association Championships (UAA), 10 a.m. Saturday-Sunday, April 24-25, Bushyhead Track and Francis Field

Competing at the prestigious DeLong Classic, perhaps the premier Division III meet in the Midwest, the Bears collected a host of school records, season bests, and personal bests. Sophomore Antone Meaux, Cincinnati, Ohio, headlined the men's efforts, earning a ticket to the NCAA Division III national meet with a winning leap of 23' 10" in the long jump. Meaux's jump was just five inches shy of

the Washington University school record set in 1930. On the women's side, junior Tirzah Wilson, Benton Harbor, Mich., approached one school record on her own by clocking a 12.99 time in the 100-meter dash. Wilson then joined forces to help the Bears' 4 x 100-meter relay team to a new Washington record (51.71).

Women's Tennis

Last Week: Luther 8, Washington 1 (Midwest Regional Invitational); St. Mary's (Minn.) 5, Washington 4

This Week: UAA Championships, Friday-Sunday, April 23-25, Cleveland, Ohio

Current Record: 5-5

At the Midwest Regional Invitational, the Red and Green came up short in both contests. Junior Stacy Leeds, Muskogee, Okla., extended her unblemished record to 13-0 by posting the Bears' only win against Luther and cruising to a 6-1, 6-3 victory versus St. Mary's.

This weekend, the Red and Green travel to the campus of Case Western Reserve University in Cleveland, Ohio, to compete in the Sixth Annual UAA Championships.

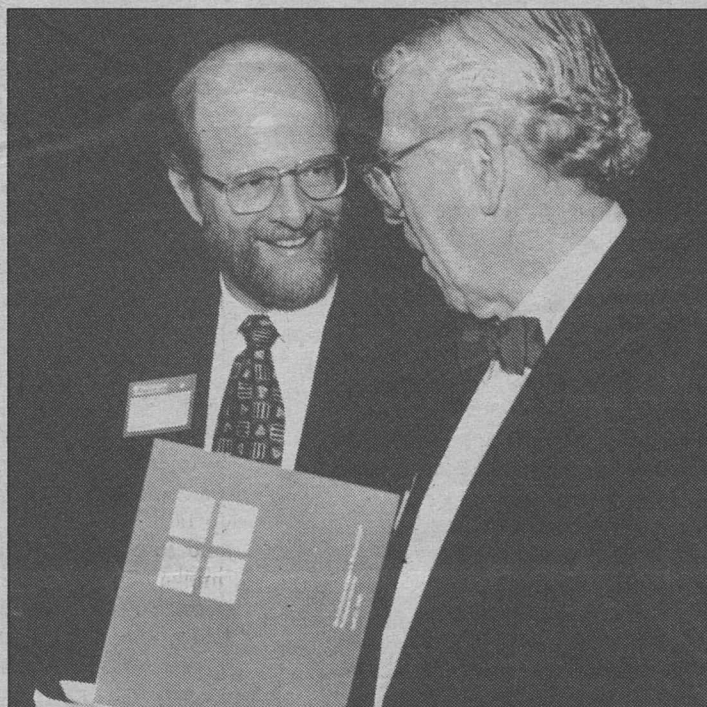
Men's Tennis

Last Week: Washington 8, Principia 1

This Week: St. Louis University, 3 p.m. Wednesday, April 21, Tao Tennis Center; UAA Championships, 9 a.m. Friday-Sunday, April 23-25, Cleveland, Ohio.

Current Record: 3-5

Washington University heads to Case Western Reserve University this weekend for the Sixth Annual UAA Tennis Championships. The Bears are seeking their first team championship after placing second a year ago behind Emory University. Washington will be led by its nationally ranked singles player, junior Rich Berens, Chesterfield, Mo., who has compiled a 6-3 record against some of the nation's top teams. The Bears' number-one doubles team, Berens and senior Scott Wolf, St. Louis, also are ranked with a 7-3 record.



Clockwise from top: Contents of the time capsule, which will be enclosed in the east exterior wall of James S. McDonnell Hall, underneath the clock tower. Sealed in the capsule are educational and cultural items intended to present a closing view of the 20th century and of the University's place in these years. The capsule will be opened in 100 years; John F. McDonnell (left), son of the late James S. McDonnell and chairman and chief executive officer of the McDonnell Douglas Corp., talks with Stanley L. Lopata, chair of the McDonnell Hall Campaign Committee and a 1935 University alumnus; Priscilla B. McDonnell (left), wife of the late James S. McDonnell, and Elizabeth Danforth.

Items sealed in McDonnell Hall time capsule for 100 years — from page 1

Mrs. Alvin Goldfarb; the Keck Foundation; Dr. and Mrs. Wilfred R. Konneker; Mr. and Mrs. Stanley L. Lopata; the James S. McDonnell Foundation; Mitsubishi Kasei America Inc.; and the Ralston Purina Co.

Majors Donors are: Mrs. Gladys Levis Allen; Mr. Jack Ansehl; Mr. and Mrs. Norman Friedman; Dr. and Mrs. Mark J. Ginsburg; Mr. and Mrs. Kenneth W. Kousky; Laclede Gas Co.; and Mr. and Mrs. James H. Myles.

Another large plaque in the second-floor lobby lists the names of more than 100 donors who gave special gifts for the building.

Thanks also were extended during the ceremony to the University's alumni and friends who served on the campaign committee. They are: Lopata; Mrs. Gladys Levis Allen; Mr. Jack Ansehl; Dr. Lawrence C. Bonham; Mr. Arthur L. Dougan; Mr. William Drewes; Mrs. Henrietta Freedman; Dr. Mark J. Ginsburg; Dr. Mark S. Gold; Mr. Earle H. Harbison Jr.; Dr. Wilfred R. Konneker; Mr. Kenneth W. Kousky; Ms. Mary Ann Krey; Mr. Mark E. Mason; Mr. John F. McDonnell; Mr. G. Noah Newmark; Mr. Sanae Ono; Dr. John F. Porterfield; Mr. William F. Rosenthal; Mrs. Betty Sutter; and Mr. Nobuyuki Tanaka.

To commemorate the occasion, and to provide a symbolic link to the future, a time capsule will be enclosed in the east exterior wall of McDonnell Hall, underneath the clock tower, with instructions to open the capsule in 100 years. Sealed in the capsule are educational and cultural items intended to present a closing view of the 20th century and of the University's place in these years. The capsule will include textbooks currently used in introductory biology and

earth science classes, a copy of Student Life, a menu from Blueberry Hill restaurant in University City and 1993 course catalogs. Also included is a poignant letter from Chancellor Danforth addressed to the chancellor 100 years from now, outlining the University's philosophies and goals.

To memorialize Lopata's energetic contribution as chair of the fund-raising campaign, one of his trademark bow ties will be included in the time capsule. Also included in the capsule is a photograph of "Mr. Mac," along with a copy of the speech he gave at the University's 1963 Commencement.

In addition, dedication attendees signed their names on acid-free paper to be included in the time capsule.

Ralston Purina contributes \$2 million to construction costs of McDonnell Hall

The Ralston Purina Co. of St. Louis has contributed \$2 million toward construction costs of the University's new natural sciences building, James S. McDonnell Hall, Chancellor William H. Danforth has announced.

Danforth said the \$2 million is part of a larger \$2.5 million commitment Ralston Purina made to the University five years ago. The first installment of \$500,000 was used for extensive renovations to Louderman Hall. Louderman Hall houses the Department of Chemistry.

The remaining \$2 million of the commitment was earmarked for McDonnell Hall's classroom wing, which includes a 150-seat auditorium and two large class-

rooms, one of which is named after Wilfred R. Konneker, a University trustee, and his wife, Ann Lee. Danforth said the Konnekers have been active supporters of the University and this recognition is highly deserved.

Following the ceremony, attendees toured the new building. A popular stop on the tour was a glass-enclosed case featuring the time capsule contents.

Construction of McDonnell Hall began in January 1991. In December 1992, the two departments moved into their new research and office spaces. Arts and Sciences classes began meeting in the new building at the beginning of the spring 1993 semester.

Aesthetically, James S. McDonnell Hall reflects the Washington University tradition. Designed by Kallmann McKinnell and Wood Architects and built by BSI Constructors, the 104,000-square-foot building blends with the familiar red-granite Collegiate Gothic buildings of the Hilltop Campus.

McDonnell Hall will provide many innovative features designed to enhance the University's teaching programs. Danforth said, "Our science faculty and students will remember Ralston Purina's generosity on behalf of their education for many years."

"Ralston Purina Co. is happy to contribute to the improvement and expansion of the classrooms at Washington University," said William P. Stirtz, Ralston Purina chairman and chief executive officer.

Green permit lottery scheduled for May 3

In order to better inform members of the Washington University community about their parking options before the fall semester begins, the green permit lottery will be held on May 3 instead of in August.

The lottery is for faculty, staff and graduate students who are both unable to pay the fees for higher-priced permits and, due to calls concerning small children or elderly relatives, must use their cars during the day. The 1993-94 green permits cost \$155.

Only 250 green permits will be sold. The permits allow individuals to park at the eastern ends of the large parking lots that border Skinker Boulevard; on the lot near Big Bend Boulevard immediately north of the Athletic Complex; and on the South-Forty lot along Wydown Boulevard, next to the First Congregational Church of St. Louis, 6501 Wydown Blvd.

The Transportation Advisory Committee (TAC), which recommended the lottery be held in May, will supervise the drawing. The deadline for entering the lottery is April 30.

The TAC's lottery recommendation is part of its overall plan to provide the University community with timely information on parking issues, said Jean Gaines, associate University registrar and chair of the 13-member committee that comprises students, faculty and staff. The committee also suggested that the University release information on 1993-94 annual parking fees last year. By informing the community early, "individuals can anticipate what type of budget they will need and make adjustments," Gaines said.

As announced last April, permit prices for the 1993-94 academic year will be as follows (excluding green permits): \$410 for red permits; \$230 for yellow, blue and brown permits; \$90 for purple permits; and \$40 for evening and summer school permits.

Also announced last April were the 1994-95 fees, which will be \$430 for red permits; \$250 for yellow, blue and brown permits; \$170 for green permits; \$110 for purple permits; and \$50 for evening and summer school permits.

In addition to their efforts to better inform the University community about parking, TAC members have established a subcommittee to handle written parking appeals more quickly. Members of the subcommittee, decide the outcome of the appeals each month. Only written appeals are accepted for review.

Besides Gaines, the members of the Transportation Advisory Committee are: Eric B. Anderson, a junior; Alana G. Firester, a junior; David J. Lawrence, a graduate student; Greg Lyon, a senior; Janice R. Hensiek, administrative secretary, Department of Physics; Rodolphe L. Motard, D.Sc., professor of chemical engineering; David J. Nolan, associate director of housing; Suzanne E. Prosser, director of institutional records and registrar, School of Law; Ronald E. Schuchardt, captain, Campus Police; James R. Sidwell, director of MBA advising, John M. Olin School of Business; Kathy Steiner-Lang, director of the International Office; and W. David Van Bakergem, affiliate associate professor of architecture and director of the Urban Research and Design Center. Several administrators serve as ex-officio members.

In other parking news:

- The gate installed on the parking lot south of Brown Hall will be removed this summer, facilitating two-way traffic in the area, according to Sparks. The move will enable drivers to bypass Forsyth Boulevard when they travel from Brown Hall to the Athletic Complex, he said.

- Additionally, the Transportation Department has reassigned spaces on the Brown Hall lot to include both red and yellow permits. Previously only drivers with red permits could park on the lot. Spaces also have been assigned to include both red and yellow permit parking on the lot in front of James S. McDonnell Hall.

- When the fall 1993 semester begins, drivers will be able to use the new four-level parking garage being constructed behind the Seeley G. Mudd Law Building. The garage will be connected to the lot behind the law building. The lot already has 400 parking spaces. When the connecting garage is built, an additional 500 new parking spaces will become available — offering drivers a total of 900 spaces.

For parking information, call 935-5601.

For The Record

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

Of note

David A. Balota, Ph.D., associate professor of psychology, and **Janet Duchek**, Ph.D., assistant professor of occupational therapy and of neurology and neurological surgery, received a \$566,510 grant from the National Institute on Aging for their research titled "Inhibitory Control in Healthy Aging and Senile Dementia of the Alzheimer's Type (SDAT)." The grant is for five years. ...

A course co-developed by **Eleni Bastéa**, Ph.D., assistant professor of architecture, received an honorable mention in the 1993 American Institute of Architecture's Education Honors Awards. The course was titled "Introduction to Architectural Ideas: A Systems View of Cultural History, Theory and Critical Inquiry in Design." Bastéa developed the course with **Carole J. Tiernan**, Ph.D., former visiting associate professor of architecture. ...

Iver Bernstein, Ph.D., associate professor of history, has been named a Mayer Fund Fellow of The Huntington Library in San Marino, Calif. The fellowship is to support research for his book project titled *The North-South Dialogue and the Ideological Origins of the American Civil War*. The work will be published by Oxford University Press. ...

A paper written by **James A. Brink**, M.D., assistant professor; **Lane Deyoe**, M.D., instructor; **Jay P. Heiken**, M.D., professor; **Michael W. Vannier**, M.D., professor; and **Roberta L. Yoffie**, radiologic technician, all in the Department of Radiology, received the Society of Computed Body Tomography and Magnetic Resonance Hounsfield Award. The paper was titled "Spiral CT Angiography for Renal Arterial Stenosis: In Vivo Assessment of Technical Parameters." Brink delivered the paper at the society's annual

meeting in Orlando, Fla. The award includes \$15,000 in research support. ...

Robert S. Kramer, M.D., instructor of clinical surgery in the Division of Orthopedic Surgery, has been inducted as a fellow in The American Academy of Orthopaedic Surgeons. ...

Steven O. Moldin, Ph.D., assistant professor of psychiatry, received a Young Investigator Award from the National Alliance for Research on Schizophrenia and Depression. The \$60,000 award includes a two-year grant to study the "Genetic Analysis of Schizophrenia and Neurocognitive Deficits." ...

Rajkumar V. Patil, Ph.D., research assistant professor of ophthalmology and visual sciences, received a \$50,000 grant from the American Health Assistance Foundation's National Glaucoma Research Program for his project on "Water Channel Regulatory Gene(s) in Ciliary Epithelia." The grant is for two years. ...

Omri E. Praiss, a third-year law student, won second prize in the American Bar Association Section of Business Law's 1992 Mendes Herschman Student Writing Contest. His paper was titled "Has the Pendulum Swung Too Far? The Majority Shareholder Has Reasonable Expectations As Well." Submissions were judged on research and analysis, choice of topic, writing style, originality, and contribution to the literature available on the subject. ...

Antoinette R. Slack, a systems analyst and team leader in information systems, was inducted into the Who's Who Registry of Rising Young Americans in American Society and Business.

Speaking of

Members of the McDonnell Center for the Space Sciences attended the 24th annual Lunar and Planetary Science Conference held in Houston, Individuals making presentations from earth and planetary sciences

were: **Jim S. Alexopoulos**, data technician; **Robert A. Brackett**, graduate student; **Russell O. Colson**, Ph.D., senior research scientist; **Ghislaine Crozaz**, Ph.D., professor; **M. Bruce Fegley**, Ph.D., associate professor; **Edward A. Guinness**, Ph.D., senior research scientist; **Noam R. Izenberg**, graduate student; **Brad L. Joliff**, Ph.D., senior research scientist; **Randy L. Korotev**, Ph.D., research associate professor; **William B. McKinnon**, Ph.D., associate professor; **Frank A. Podosek**, Ph.D., professor; **Mike K. Shepard**, graduate student; and **Meenakshi Wadhwa**, graduate student. Speakers from the physics department were **Sachiko Amari**, Ph.D., senior research scientist; **Karl Kehm**, graduate student; and **Larry R. Nittler**, graduate student. ...

At the Gerontological Society of America's conference held in Washington, D.C., **Judy Bachelder**, Ph.D., assistant professor of occupational therapy, moderated a panel on "Americans With Disabilities Act and the Elderly." ...

During the 1993 Cherry Blossom Conference held in Washington, D.C., **William W. Clark**, Ph.D., associate professor of physiological acoustics and director of the Communication Sciences Program in the Department of Speech and Hearing at the Central Institute for the Deaf, delivered a speech titled "Bang-Bang, You're Deaf! Preventing Hearing Loss From Non-occupational Noise." The conference was sponsored by the American Academy of Otolaryngology-Head and Neck Surgery. ...

At the Omaha Hearing School in Nebraska, **Jean S. Moog**, associate professor of education in the Department of Speech and Hearing at the Central Institute for the Deaf (CID) and principal of the CID school for hearing-impaired children, presented a one-day workshop for parents on "Some Ways to Help Your Child Learn to Talk." Also at the Omaha School, Moog and **Julia Biedenstein**, CID's cochlear implant project coordinator, presented a teacher workshop titled "Cochlear Implants in Children: Rehabilitative Techniques." ...

Milton J. Schlesinger, Ph.D., professor of molecular microbiology, presented the Sigma Xi National Lecture at Syracuse University in New York. His talk was titled "How a Cell Copes With Stress; the Heat Shock Response." He also delivered the lecture at the University of Toronto and the University of Guelph, both located in Canada. ...

Andrew C. Sobel, Ph.D., assistant professor of political science, delivered a talk titled "Much to Do About Leadership in the International Political Economy: Securities Markets" during the International Studies Association's annual meeting held in Acapulco, Mexico.

On assignment

Robert E. Hegel, Ph.D., professor and chair of Asian and Near Eastern languages and literatures, was one of four faculty members from the Midwest who selected nominees for the Mellon Fellowships in the Humanities' Midwest region. During the Association for Asian Studies' annual conference held in Los Angeles, Calif., he served as a discussant on two panels devoted to new research on the develop-

ment of vernacular fiction in late-imperial China. ...

Bruce L. McClennan, M.D., professor of radiology and chief of abdominal imaging at the Mallinckrodt Institute of Radiology, was appointed chairman of the American College of Radiology Committee on Drugs and Contrast Media. He will be responsible for coordinating the committee's efforts in the critical issues involving radiological substances. ...

Henry I. Schvey, Ph.D., professor and chair of performing arts, completed a 10-day lecture tour in Greece. The tour was sponsored by the U.S. Information Service. Schvey's eight different lectures on American theatre were presented on a variety of subjects at the universities in Athens and Thessaloniki, and at the two drama schools for training actors in those cities. ...

Benjamin D. Schwartz, M.D., Ph.D., research professor of medicine, was elected chairman of the Eastern Missouri chapter of the Arthritis Foundation's board of directors. ...

Robert W. Sussman, Ph.D., professor of anthropology, was elected to the executive committee of the Organization of Tropical Studies' board of directors. The organization is a consortium of more than 50 universities and research institutions from the United States and Latin America that are dedicated to education, research and the wise use of natural resources in the tropics. ...

Ronald Van Fleet II, director of MBA admissions for the John M. Olin School of Business, was one of 10 admissions professionals who traveled to the former Soviet Union to conduct interviews with semifinalists for the Edmund S. Muskie Fellows Program. The program provides graduate students from the area with scholarships to study business, economics, law, and public administration at American universities. Van Fleet was interviewed by the Uzbekistan state radio station concerning the fellowship selection.

To press

Rob McFarland, chemistry librarian in Olin Library, published a paper titled "A Comparison of Science-related Document Delivery Services" in the fall 1992 issue of the Science & Technology Libraries journal. The issue commemorates the 10-year publication record of the journal and focuses on the crises and challenges facing scholarly publishing in the science and technology disciplines. ...

A paper written by **John L. Schnase**, Ph.D., director of the Advanced Technology Group in the School of Medicine's Library and Biomedical Communications Center, is scheduled to be published in the June 1993 issue of Electronic Publishing. The paper, which Schnase wrote with others, is titled "Design and Implementation of the HBI Hyperbase Management System."

Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity to *For The Record*, c/o Carolyn Sanford, Campus Box 1070. Items must not exceed 75 words. For information, call Carolyn Sanford at 935-5293.

Engineering Professors of the Year named

The School of Engineering and Applied Science's senior class has selected three faculty members as 1992-93 Professors of the Year.

The awardees are: S. Massoud Amin, D.Sc., visiting assistant professor of systems science and mathematics; Robert O. Gregory, D.Sc., professor of electrical engineering; and H. Richard Grodsky, D.Sc., assistant professor of electrical engineering, who received the honor last

year as well. The professors were honored during the recent Engineers' Honors Banquet held at the Engineers' Club of St. Louis.

Amin, Gregory and Grodsky "have set a standard of excellence in teaching that is an inspiration to both students and faculty," said Christopher I. Byrnes, Ph.D., dean of the school. "Their outstanding efforts and dedication to their profession are the ideals for which all educators strive."

Winners named in student book collection contest

For the third consecutive year, John Overholt, a senior majoring in political science, has won first-place honors in the undergraduate division of the Carl Neureuther Student Book Collection Competition.

First-place winner in the graduate category was Shari Collins Sharratt, a doctoral candidate in philosophy. Overholt and Sharratt each received a \$750 prize. Overholt's collection was titled "Three Decades of Doubt: The Kennedy Assassination, 1963-1993," while Sharratt's collection was titled "An Environmental Ethicist's Library: Emphasizing Ethics, Environmental Ethics, and an Understanding of Issues Concerning Indigenous Peoples, Politics and Economics."

Winners taking second place in the competition were Kimberly Walker, a freshman in the John M. Olin School of Business, for her collection titled "The Mugging of Black America," and Meg Schoerke, a doctoral candidate in English and American literature, for her collection titled "Modern Poetry." Both students received \$500 prizes.

The late Carl Neureuther, an alumnus of the John M. Olin School of Business, established the competition in 1987 as part of a \$1 million book endowment to the Washington University Libraries. The competition is designed to encourage Washington University students to

build personal libraries and to reward them for pursuing intellectual stimulation through reading. Neureuther died in 1989.

East Asian studies center awards 1993-94 fellowships

The Joint Center for East Asian Studies awarded four graduate students with Foreign Languages and Area Studies (FLAS) fellowships for the 1993-94 academic year. The center also awarded three graduate students with Summer FLAS fellowships, announced Joseph R. Allen, Ph.D., director of the center.

The awardees and their area of studies are: Stephen G. Salerno, law and East Asian studies, Chinese; Jennifer Weiglob, law and East Asian studies, Japanese; Daniel Jacobs, East Asian studies, Chinese; and David A. Schmidt, comparative literature, Japanese.

The summer awardees are: Claire Cuccio, comparative literature, Japanese; Michael J. Dankert, East Asian studies, Japanese; and Thomas M. Lavallee, comparative literature, Japanese.

The fellowships are funded through a U.S. Department of Education grant. The purpose of the fellowships is to assist meritorious students undergoing advanced training in modern foreign languages and related area studies.

Campus Authors

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

Schools for Thought: A Science of Learning in the Classroom is the title of a new book by **John T. Bruer**, Ph.D., adjunct professor of philosophy. Bruer provides a straightforward, general introduction to cognitive research and illustrates its importance for educational change. Using classroom examples, the author shows how applying cognitive research can dramatically improve students' transitions from lower-level rote skills to advanced proficiency in reading, writing, mathematics and science. Bruer also discusses how cognitive research is beginning to suggest how to better motivate students, design more effective tools for assessing them, and improve the training of teachers. He concludes with a chapter on how we must expand our understanding of teaching and learning, and must think about education in new ways in order to reform our schools effectively. (The MIT Press, Cambridge, Mass., London, England)

Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Library Assistant

930157. *School of Business*. Requirements: Two years of college, bachelor's degree preferred; attention to detail; ability to interact well with library users; ability to explain and interpret library policies; ability to work independently with minimal supervision; typing 35 wpm with accuracy. Clerical tests and three letters of recommendation required.

Coordinator

930162. *Alumni and Development Programs*. Requirements: Bachelor's degree; excellent oral communications and interpersonal skills; self-motivated with attention to detail; ability to pleasantly overcome objections and be effectively persuasive with prospects; able to work effectively with volunteers, donors and prospects, and University staff; able to deal with multiple priorities with minimal supervision; knowledge of University systems and personnel helpful; minimum of five years experience in university or high-level service industry or business setting; familiarity with word processing techniques; ability to analyze, condense confidential information on major prospects and provide concise documentation; typing 50 wpm preferred. Clerical tests and three letters of recommendation required.

Editorial Assistant

930164. *Anthropology*. Requirements: Bachelor's degree, preferably in anthropology or with courses in anthropology; editorial and office-management experience essential. The editorial assistant also should be computer literate enough to use Windows software, like word processing and spread sheets, fluently. The editorial assistant should be familiar with facsimile machines and photocopiers; typing with accuracy required. Clerical tests and three letters of recommendation required.

Research Technician

930173. *Biology*. Requirements: Bachelor's degree in biological sciences. The successful candidate will be responsible for conducting research at the bench. In addition, he or she will be entrusted with note keeping and maintenance of lab records and strain collections. Candidate should be conscientious, meticulous and careful. Resume and three letters of recommendation required.

Receptionist

930174. *Health Service*. Requirements: High school graduate; cooperative attitude essential; must be dependable, conscientious, cheerful, pleasant and eager to assist students on first encounter with Health Service; some knowledge of medical terms helpful; typing 30 wpm with accuracy. Clerical tests and three letters of recommendation required.

Lab Aide Clerk - Part-time

930176. *Biology*. Requirements: High school graduate; general familiarity with computer terminals useful, but will train; capable of lifting 50 lbs. (animal food, mail bags); valid driver's license and clean driving record; good clerical and communication skills; some facility with numbers; must be absolutely, positively reliable; flexible enough to work varied duties; trustworthy so as to work occasionally without direct supervision. Clerical tests and three letters of recommendation required.

Student Records Clerk

930179. *University Registrar's Office*. Requirements: Some college, bachelor's

degree preferred; prior experience with computers and/or automated systems; ability to work well in public service position. Clerical tests and three letters of recommendation required.

Department Secretary

930180. *Special Development Programs*. Requirements: Some college or other research-related experience; strong capacity to use on-line data bases and library-related sources of information; typing 50 wpm with accuracy; proofreading skills; capacity to conduct and keep track of several jobs at once; flair for detail; good oral and written English skills; professional telephone skills. Clerical tests and three letters of recommendation required.

Materials Distribution Assistant

930182. *Facilities Planning and Management*. Requirements: High school graduate, some college or technical school preferred; retail or wholesale inventory experience desirable; must have chauffeur's license; mechanical aptitude and knowledge of electrical, plumbing, HVAC and hardware desirable; computer and/or PC experience desirable; dependable, honest and reliable; good health; must be able to lift objects up to 50 lbs.; good communication skills; able to use two-way radio and telephone. Application and three letters of recommendation required.

Administrative Secretary - Part-time

930183. *Center for the Study of Islamic Societies and Civilizations*. Requirements: Minimum of three years office experience; knowledge of foreign countries; FIS accounting system; knowledge of Washington University procedures; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

General Lab Assistant - Part-time

930184. *Biology*. Requirements: Bachelor's degree; other crafts-drawings preferred; skill in writing in English; typing 45 wpm with accuracy, includes some editing of manuscripts written by foreign research associates; rabies vaccination is required after employment, cost to be borne by department; person should be able to communicate well and be capable of assuming more responsibilities; must be dexterous and willing/able to do lab-related work, such as making electrodes. Resume and three letters of recommendation required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resume to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Computer Operator I

930020-R. *Radiology*. Schedule: Part-time, 2.5 hours per week — can choose working hours from 5 p.m. Saturday to midnight Sunday. Requirements: High school graduate/equivalent; computer operations experience preferred; desire individual with a working knowledge of the VAX system and familiarity with computer hardware, printers, tape drives and terminals.

Research Patient Coordinator-Professional

930685-R. *Otolaryngology*. Schedule: Hours may vary with clinical hours. Requirements: Bachelor's degree, master's degree in public health or clinical epide-

miology preferred; must have experience in clinical research.

Medical Research Technician

930687-R. *Neurology*. Requirements: Bachelor's degree with some lab experience; cell culture — sterile techniques and pipette use helpful; will be helping with experiments involving murine experimental autoimmune encephalomyelitis, which involves many techniques.

Lab Tech Research

930703-R. *Cardiology*. Requirements: High school graduate/equivalent with experience in animal handling, associate's degree preferred; must be experienced in large animal surgery and sterile technique; will maintain complete lab records and perform data calculations.

Coding Specialist-Diagnostic/Medical

930709-R thru 930712-R. *Internal Medicine*. Schedule: 10 p.m. to 7 a.m., includ-

ing some weekends. Requirements: High school graduate/equivalent; prefer at least two years related CPT and ICD-9 coding experience; desire an accredited records technician or individual with similar clinical training or skill.

Medical Research Technician

930731-R. *Ophthalmology*. Requirements: Bachelor's degree in a biological science; prefer experience in handling mice and in tissue culture; should have basic skills in the preparation of solutions (weighing, determining molarity, PH, etc.).

Medical Research Technician

930733-R. *Cardiovascular Biochemistry*. Schedule: Full-time, including some nights and weekends. Requirements: Bachelor's degree plus one year working experience; should be familiar with protein chromatography, protein assays and electrophoresis.

Raven to speak on the environment — from page 1

cal diversity. Raven will head a National Academy of Sciences Committee that will offer advice on organizing the survey, which is being compared to the U.S. Geological Survey initiated more than a century ago.

He received the International Prize for Biology from the Government of Japan in 1986, shared with E.O. Wilson the Prize of the Institut de la Vie in Paris in 1990 and shared with Norman Myers the Volvo Environment Prize in Sweden in 1992. From 1985 to 1990, he was a John D. and Catherine T. MacArthur Foundation Fellow. He is a member of the American Philosophical Society and numerous foreign academies of science and has served as a member of the Board of Curators at the University of Missouri.

Raven is past president of a number of

groups, including the American Institute of Biological Sciences, the Organization for Tropical Studies and the Biological Society of America, and also served as chairman of the National Museum Services Board. In addition, Raven is a member of the Committee on Research and Exploration of the National Geographic Society. He is the author or editor of 18 books, including textbooks in biology and botany, and more than 450 scientific papers. Before coming to St. Louis, Raven was a member of the Department of Biological Sciences at Stanford University.

A native Californian, Raven completed his undergraduate work at Berkeley and received his doctorate from the University of California at Los Angeles in 1960.

'SAC-ers' volunteer during busiest time — from page 1

cials expect to greet more than 115 juniors by April 30.

Since "April Welcome" began, the Student Admission Committee members, fondly referred to as "SAC-ers," by chair Jodi Sweed, have answered questions like "Is it possible to have two phones in your room?" (No, it isn't, but call waiting is available); have organized "study breaks" so that prospective students can communicate with each other; sponsored "Lunch With a 'SAC-er,'" which gives high school visitors an opportunity to meet current students; and have performed a variety of other tasks to help make "April Welcome" a success. The committee also was instrumental in planning "April Welcome."

The "SAC-ers" are volunteering their time amid the semester's busiest period, as students hustle to turn in papers and other projects before classes end April 23. The enthusiastic Sweed, a junior math and Spanish major, explains why: "All the people on the committee obviously love the school, or we wouldn't be doing this. Washington University is a very comfortable place. We want a chance to promote the school."

And "April Welcome," which offers visitors personalized itineraries based on their interests, is a great way to promote the University, she said. "It's as close as an individual can get to being a student for a day."

Admission officials attribute the success of "April Welcome" to the assistance they are receiving from SAC and individuals from throughout the campus. Many people have helped the admission office greet visitors and answer the hundreds of phone calls that come through daily on the "April Welcome" phoneline. The helpful staff members represent offices such as alumni and development and the International Office, as well as the Student Health Service.

"April Welcome" might have proven to be a back-breaking effort on another campus, but here at Washington, with the talent and dedication shown by our admission staff and SAC, and the support received campus-wide, it's been an immensely rewarding

project," said Jane Schoenfeld, associate dean of undergraduate admission.

"Our visitors are taken by the beauty of this campus, and by the warmth of our students, faculty and staff. They are especially enthusiastic about the personal attention they receive when they register for a visit — and once they arrive."

For the members of SAC, assisting with a massive recruitment project such as "April Welcome" is nothing new. The group regularly helps the admission office sponsor other visit programs for prospective students, such as Fall Preview, a weekend of special activities designed to introduce prospective applicants to Washington. The group has existed on campus for more than 10 years.

Also included among SAC's regular projects are conducting campus tours and serving as overnight hosts; participating in the admission office's calling program, whereby current students call prospective students to answer questions about the University; and taking part in the Phone Home Program. Under the program, which also is sponsored by the admission office, current students call and congratulate students from their hometowns who have been accepted at Washington.

Sweed, who has been an active SAC member since her sophomore year, said she loves coordinating the group's activities. She joined the group because "I always wondered what they do in the admission office," and of course, she now has found out. She also "loves to talk" and believes she has a way of making people feel comfortable — necessary assets in her role as chair.

"Jodi has done a terrific job of organizing SAC," says Dixie J. Buford, assistant director of undergraduate admission. "She has boundless energy and enthusiasm for admission projects."

Rich Johnson, also an assistant director of undergraduate admission, says all of the committee members "have outdone themselves this month. Without their support, we would not have been able to turn 'April Welcome' into a reality." — Carolyn Sanford