

Record

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WASHINGTON UNIVERSITY IN ST. LOUIS

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Diversity graduate students in education and social work tackle a problem-solving exercise designed to help them learn to work together.

Kemper faculty grants encourage innovative undergraduate teaching

Washington University and the William T. Kemper Foundation, Commerce Bank Trustees, recently honored four faculty members who received the 1994-95 Kemper Faculty Grants to Improve Learning. A luncheon was held April 4 in Piper Lounge, Simon Hall.

The William T. Kemper Foundation awarded Washington University a five-year \$150,000 grant in 1991 to encourage innovative work on new courses or programs that will produce significant learning experiences for undergraduates. The grants also are designed to enhance existing courses and support those that are taken largely by students whose primary interests lie outside the department doing the teaching. The grants are supporting three new courses, including one that was totally revamped from an existing course. The Washington University Teaching Center administers the grants.

The 1994-95 faculty recipients are: Robert F. Dymek, Ph.D., professor of earth and planetary sciences; Derek M. Hirst, Ph.D., William Eliot Smith Professor of history; Mark Rollins, Ph.D., associate professor of philosophy; and Kristin E. S. Zapalac, Ph.D., assistant professor of history. Zapalac also was a Kemper grant recipient for the 1992-93 academic year.

Dymek's course, which will be offered in fall 1995, is titled "Geology of National Parks."



Robert F. Dymek

The purpose of the course is to expose students to basic concepts in physical and historical geology, regional geography and the environment, using national parks and

monuments as a venue for presentation. "Much to my dismay, many people simply don't know very much about the Earth around them," said Dymek. "My course is aimed at the lawyers, economists, politicians, etc., of the future — those who might find an understanding of the natural world useful as they enact legislation, establish environmental and business policy, and engage in commerce in the 21st century." He plans to teach the class through lectures and discussion groups, the latter focusing on current social, economic and environmental issues facing the park system. The groups also will learn basic information about rocks, minerals, fossils and maps.

Dymek also would like to take the

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Community collaboration

Grant fuels hands-on social work, education project at public school

Graduate students in social work and education are teaming with a community group in an innovative pilot program that explores ways to help children and their families at Clay Public Elementary School in north St. Louis.

Through a collaborative relationship, school-based partnership focuses on ways to improve student achievement in academic work, school attendance and social skills. In addition, the project goes beyond the classroom to grapple with difficult community issues and social problems that affect the child, the family and the neighborhood, such as poverty and crime.

At the heart of the pilot program is a recognition that improving educational opportunities in hard-pressed, inner-city schools must be a community effort. "Clay school is a great example of what can happen when faculty and students from different areas of the University come together and focus their combined expertise and enthusiasm on a social problem in the community," said William H. Israel, Ph.D., vice chancellor and professor of physics. Israel helped launch the program.

"Our social work and education students are getting a wonderful opportunity

to work side-by-side with senior faculty on an interdisciplinary project where their time and their efforts can make a real difference in the lives of children," Israel said. "Everyone is a winner in this program — the students, the parents and the community."

Designed in collaboration with Clay school administrators, the St. Louis Public School System and members of the Friedens Haus Hyde Park Neighborhood Coalition, the program is financed with a two-year grant of \$100,000 from the DeWitt Wallace-Reader's Digest Fund and \$100,000 in matching funds from Washington University.

The collaborative project provides hands-on educational programs and badly needed community-based services to more than 100 high-risk students who come to Clay school from 50 or so households in the city's Hyde Park neighborhood, an area where a combination of high rental costs and poor housing lead many families to move in and out of the school district. School officials estimate that more than half of the students who enroll at the school will have moved out of the neighborhood before the next summer.

Despite the fact that urban public schools often are plagued with social problems, many elementary schools either

have no social workers on staff or have them only on a part-time basis. Consequently, social workers often must stretch their time among two or three schools in the hope of meeting the needs of urban students. Recognizing this constraint, educators and social workers work together at Clay to help children and their parents.

Graduate students Arlene Janis of education and Amy Richardt of social work teamed up with kindergarten teacher Kay Montgomery on a project designed to help parents in a low-income urban environment take a greater role in their children's education.

Robert L. Pierce, Ph.D., associate professor of social work and a participant in the project, points out that programs designed to help inner-city students often must address problems unique to urban settings.

"While parental involvement is crucial to student success, most models used to encourage parent participation encompass strategies that are used with white middle-class parents rather than low-income, single black parents," Pierce said. "These models do not work well in urban schools. Therefore, we have to ask the hard question: What is the school willing to do to encourage parents to be

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Campus welcomes 1,000 prospective students in April

About half of the 934 prospective students who visited Washington University last year as part of April Welcome are now students here, a testament to the friendliness of the campus community. Admission officials hope the same is true this month, when a record number of admitted high school seniors come to campus to see if this is where they want to spend their next four years.

"Students who apply here already know about our academic excellence, outstanding faculty and diversified curriculum, but we've found that the students who visit us during their decision-making process come away impressed with the friendliness of our students, faculty and

staff, the beauty of our campus and the wide variety of things to do," said Nanette Clift, associate director of the Office of Undergraduate Admission. "I don't know what drives 17-year-olds' decisions, but I know students who visit are more likely to come here. The Washington University community is what sells them."

Prospective students were invited to April Welcome when they received their acceptance packet about a week ago. Since then, a special April Welcome Visit Hotline has been set up to help students plan their visits, with employees even creating individual itineraries for each student.

Students interested in business, for

example, can watch the Olin Cup finals, participate in an economic decision-making simulation, or meet a current business student, administrator or faculty member for lunch. A student interested in the arts can check out the graduate student exhibit at the Gallery of Art, see the School of Art Fashion Show, hear the University's Symphony Orchestra perform at the Saint Louis Art Museum, or attend the Thyrsus Dance Concert.

Visitors involved in student activities can meet students from more than 150 organizations, including Shotokan Karate, KWUR radio station, Greenleafs, Railroad Enthusiasts, Weekend Warriors Amateur

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Medical Update



Paul G. Anderson, Ph.D., associate professor of biomedical communication and archivist at the School of Medicine, and Mary Lavazzi, retired secretary of Eli Robins, M.D., examine the Robins collection, which is being packed up to move from his office to the Medical Library. Robins, who died in December 1994, was professor emeritus and head of the Department of Psychiatry from 1963 to 1975. The collection, with more than 80 boxes of material, is a vast resource on the history of modern psychiatry. Part of the collection will be open to employees.

Cardiac clues

Elderly heart attack patients may need more aggressive treatment

Every year, more than 400,000 elderly Americans experience heart attacks. As physicians treat these patients, they are sometimes reluctant to employ the "big-gun" therapies such as angioplasty and clot-busting drugs, believing that the interventions themselves may be risky in patients of advancing age.

But this conservative approach may leave some elderly heart attack patients — particularly those who experience relatively small attacks — at high risk for serious problems down the road, according to a study by School of Medicine researchers. The results appeared recently in the *American Journal of Cardiology*. The study was funded in part by the National Institutes of Health.

The researchers found that elderly patients, those 70 and over, who survived relatively small heart attacks were more likely to die in the year after hospital discharge than were younger patients with the same type of attacks or elderly patients with larger attacks. The researchers also found that elderly patients with small attacks were far less likely to receive aggressive treatment.

"The study shows that these patients have a very high risk for recurrent problems after they leave the hospital," said Michael Rich, M.D., associate professor of medicine and lead investigator of the study. "It suggests that they might benefit from more aggressive treatment around the time of their attack."

The issue is important considering that heart attacks are most prevalent in older people. About 60 percent of all heart attacks occur in people over 65, and roughly one-third occur in people over 75. Moreover, 80 percent of all heart attack deaths occur in people over 65. Among the elderly, about half of all heart attacks are the small type.

Although elderly patients with small heart attacks made up only 37 percent of the study population, they accounted for 62 percent of the post-discharge deaths. Advancing age probably contributed to the poor outcomes in these patients, but the very high late mortality in this group suggests that current treatment strategies need to be revised, said Rich, who is director of geriatric cardiology at Jewish Hospital.

The researchers monitored 187 heart attack patients from the time they entered the hospital until at least one year after discharge. The patients, all treated at the Jewish Hospital of St. Louis, fell into three categories: a group of 70 patients more than 69 years old who had small attacks; 61 younger patients who also had small attacks; and 56 older patients who had larger attacks.

Their aim was to see how the size of an attack affected prognosis. Past studies have looked at this issue in younger people, finding that large attacks tend to be most lethal early on, while smaller ones tend to cause mortality months after an attack. This

"The study shows that these patients have a very high risk for recurrent problems after they leave the hospital."

— Michael Rich

study is the first to thoroughly examine prognosis of small attacks in the elderly.

Large heart attacks are referred to by physicians as "Q wave" attacks, named for a specific pattern that appears on electrocardiograms. They generally involve complete blockage of an artery supplying blood to part of the heart and usually cause substantial damage to the heart muscle. "After the initial attack, the damage has been done in these patients. Usually they are not at risk for further problems in that same area of the heart," explained Rich.

Relatively small heart attacks are termed "non-Q wave" attacks. They are generally caused by a partial blockage and cause less severe damage to the heart. Essentially, these are incomplete heart attacks that leave patients at risk for recurrent problems in the same region of the heart.

Among older patients in this study, those with larger attacks were more likely

to die in the hospital, while those with smaller attacks tended to die during the months after their initial attack. In the hospital, 25 percent of elderly large-attack patients died, vs. only 10 percent of those with smaller attacks. But after discharge, mortality rose in the small-attack group so that total mortality was roughly equal after a year: 36 percent for small attacks and 30 percent for large attacks.

The most significant finding comes from looking at deaths that occurred during the year after discharge. Of elderly patients who survived their initial attacks, 29 percent with small attacks died within a year. By comparison, only 7 percent of the elderly large-attack group died within a year, while 14 percent of the younger group died.

Although the researchers did not track the cause of death in study participants, heart disease was assumed to be the major contributor. "As a general principle, in the first year following discharge from a heart attack, 70 to 80 percent or more of deaths are heart related," Rich explained.

The study findings reflect physicians' well-recognized tendency to treat elderly patients conservatively. Among patients with smaller attacks, younger patients were more likely to receive medications designed to dissolve or prevent blood clots. The younger group also received angiography and angioplasty nearly twice as often as patients in either elderly group.

Traditionally, physicians tend to avoid using these riskier aggressive therapies in the elderly for two main reasons, Rich said. First, some elderly patients may be less able to tolerate them, in part because of other medical problems such as diabetes and kidney disease that are more common in this age group. And second, because elderly patients are relatively inactive, physicians seem less compelled to correct a blockage that may not cause any symptoms.

This study's message, Rich said, is that some elderly patients may be better off opting for aggressive therapy at the time of their initial attack, given that their risk for long-term problems actually is quite high.

— Juli Leistner

Exercise and growth hormone therapy focus of AIDS study

Researchers at the School of Medicine have received a \$1.1 million grant to study the effects of exercise training and growth hormone treatments in HIV-positive patients. The four-year grant comes from the National Institute of Diabetes, Digestive and Kidney Diseases.

Principal investigator Kevin E. Yarasheski, Ph.D., research assistant professor of medicine, said the study's researchers will attempt to learn why many AIDS patients lose weight and muscle. "HIV-infected individuals lose large amounts of weight and they lose muscle protein, but we don't know why," Yarasheski explained.

The investigators also will attempt to discover if resistance exercise or growth hormone therapy can prevent the protein and muscle wasting common in AIDS patients. No proven therapy now exists, but the investigators believe interventions — such as proper nutrition, exercise and human growth hormone — might help prevent or delay the wasting process.

"That's the real goal of this study because when HIV-infected individuals lose too much weight, when they lose too much muscle, that eventually can kill them," Yarasheski said.

The investigators will work with 100 HIV-positive patients during the study. Subjects will be divided into three groups: HIV-positive without weight loss or opportunistic infection; HIV-positive with involuntary weight loss; and HIV-positive with weight loss and non-life-threatening infections. Patients with muscle wasting will either exercise or receive growth hormone.

For patients whose disease has progressed to full-blown AIDS, a separate School of Medicine study will determine whether a nutritional supplement can increase strength and muscle protein.

The principal investigator for that study, Mary F. Chan, M.D., assistant professor of medicine, said patients receiving tube feedings will receive a nutritional supplement with high levels of glutamine.

"We think that when glutamine levels in the gut get too low, the body may scavenge it from muscle tissue. If we can replace glutamine, we might prevent that scavenging and save muscle protein," Chan said.

For more information on either study, call 454-0058.

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 Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Disaster spurred psychiatrist's research

While most people run away from disasters, Elizabeth Smith runs to them. Disasters have been a principal focus of her research for more than a decade.

"Don't get me started because I can go on and on," Smith explained. "I get excited and at times a little bit embarrassed because I do tend to get carried away when talking about disasters."

Smith, Ph.D., associate professor of psychiatry at the School of Medicine and adjunct associate professor at the George Warren Brown School of Social Work, has been talking about and researching disasters since a local disaster struck the St. Louis area in the early 1980s.

In 1982, heavy December rains pushed the Mississippi River out of its banks and flooded the town of Times Beach, Mo. The 1982 flood was the one that preceded the discovery of dioxin there, eventually leading the federal government to buy the entire town.

There were other disasters, too. In the months before the flood, dioxin also had been discovered at several sites in rural Jefferson County. The Castlewood area of St. Louis County. A few years before these discoveries, Lee N. Robins, Ph.D., University professor of Social Science and professor of social science in psychiatry at the School of Medicine, was gathering data for the landmark Epidemiologic Catchment Area (ECA) study. That study was designed to get an idea of the prevalence of mental health problems in the United States.

For the ECA, Robins' study team spoke with hundreds of people in the St. Louis area. "Just about a year after they had done those interviews came the flooding and the discovery of dioxin," Smith remembered. "Some of the areas affected had been part of the ECA, so baseline interviews were already on file. To learn about the impact of the flood, all we needed was another round of interviews."

Smith then joined Robins, and they applied for and received a grant to conduct the interviews. "It's very rare disaster research to have talked to people about their mental health before an event occurs," Smith explained. In this case, Dr. Robins had the idea of designing the study, and she asked me to join her. That's how it began, I was hooked."

Setting standards for disaster research

In those earliest interviews, Smith and her research team were intrigued by the opportunity to conduct what she calls "natural" experiments. "Where better can you get stress than to talk with people who have been exposed to a disaster like a severe flood, or dioxin?" she asked. "Also, the more we got involved, the more we realized that a disaster isn't just a disaster. Plane crashes are different than tornadoes. There are natural disasters, like floods, and there are technological disasters, like the Chernobyl nuclear power plant."

Ellen Gerrity, Ph.D., acting branch chief of violence and traumatic stress at the National Institute of Mental Health (NIMH), has worked closely with Smith. She has received Smith's grants the past four years. "I don't know how to begin with the superlatives I would use," she said about working with Smith.

Gerrity said Smith's NIMH grant is quite unusual because it provides funding but does not require Smith's own to identify the disasters they will investigate in advance. "We asked the NIMH to trust us," Smith explained, "and we got the grant. Without it, if a disaster occurred, we would have to write a grant and apply for funding to do the work each time."

"It's a mark of her strong track record," Gerrity added. "There are a few other grants like this, but they're very hard to get. A prospective grant like Dr. Smith's is a sign that NIMH believes in not only the science but also the person."

Smith said her unusual grant arrangement is what makes most of her disaster research possible. "There'd be no way to do this kind of work with a more traditional grant arrangement," she said. "It takes at least nine months to apply for and get most grants, and we try to be done within six weeks."

Six weeks is the post-disaster goal, for several reasons. If the interviewers get there too soon, they might interfere with rescue operations. In addition, Smith said, "I don't know what it would tell us if we interviewed survivors in the first few days. I mean, they're bound to be upset."

Only weeks later can survivors and relatives put an event into some perspective. Plus, Post Traumatic Stress Disorder, the disorder that researchers expect to find in disaster victims, cannot be diagnosed officially until symptoms have persisted for a month.

Smith said she really enjoys fieldwork with the survivors. "Our rate of cooperation from survivors has been absolutely fantastic. I'd say close to 90 percent of the

Disasters are only one area of Smith's research, however. She also has done landmark work with the homeless, women in particular.

That work began with a study of 900 homeless men and women. The investigators were trying to gauge the impact of homelessness on mental health. "We went to shelters and also had walking routes to pick up homeless people who didn't go to shelters," Smith said. "I think it's one of the best random samples of the homeless yet gathered."

From there Smith's research team has zeroed in on homeless women with children. They interviewed the children to identify some of the consequences of homelessness. They then recruited a comparison group of women with children, who weren't homeless, from the same areas.

"We hope to learn about how homelessness affects these children," Smith explained. "It wouldn't tell us as much to compare homeless children with children from affluent suburbs."

Smith met Sandra Lapham, M.D., the director of the Substance Abuse Research Program at the Lovelace Institutes in Albuquerque, N.M., while studying the homeless. "There aren't very many women investigators on these projects, and after we worked together on the homeless study, we decided to write a grant together," Lapham said.

The two now are studying women who were arrested in New Mexico for driving while intoxicated five years ago. They are trying to determine

whether these women are continuing to have problems with alcohol. "We're comparing women to men because so much more is known about men than women," Smith said. "There are just so many areas where scientists have traditionally studied men and have not studied women."

Smith also has studied alcoholic women, women seeking abortions or sterilization, and since 1971, she's been director of the mental health clinic at the Grace Hill Neighborhood Health Center in the inner city of St. Louis.

Smith first came to Washington University in a clinical capacity. She was trained as a journalist and social worker at the University of Nebraska, Lincoln, where she earned her master's degree in social work in 1962. She has been affiliated with Washington University since 1963. Smith became an instructor in the psychiatry department in 1967 and earned a doctorate from the George Warren Brown School of Social Work in 1978.

When she returned to school for a doctorate, Smith began to move away from clinical work and to concentrate on research, but she did not abandon the clinic entirely. She still enjoys her administrative and counseling work at the Grace Hill Clinic. "It's a wonderful program," she said. "Their whole philosophy is based on the idea of neighbors helping neighbors."

Smith designs research protocols around patients' needs. For example, she obtained funding to set up a substance abuse treatment program at Grace Hill after realizing that young women, in particular, were having problems with drugs and alcohol. Many had children, and they didn't have the family or financial resources for child care during substance abuse treatment.

"I wrote the grant with Grace Hill that set up the first substance abuse treatment program that allowed women to bring their children in with them," she recalled. "Now, there are others, but we got funding and developed the program. It's been running now for five years, and it's something that I'm really proud of."

Grace Hill also is where Smith does much of her teaching and mentoring. She supervises the medical school clerkship in outpatient and community psychiatry. Many students in that course work with patients at Grace Hill. Smith said the experience allows them to see how psychiatry and counseling techniques work in the larger context of social agencies, schools and other institutions.

Smith said much of her work involves two themes: women's issues and coping with stress. "Throughout my career, I've had a great deal of interest in studying women. And since my days in social work, I've also been interested in how people cope with stressful events, trying to understand coping behaviors in my research and how to help people cope in my clinical work," she explained. "I'd never give up either."

— Jim Dryden



Elizabeth Smith, Ph.D., discusses a patient with fourth-year medical student John Rogakos.

"I get excited and at times a little bit embarrassed because I do tend to get carried away when talking about disasters."

people we've approached over the years have agreed to talk with us. That's very good," Smith explained.

Part of the reason may be that after a disaster, a major life-changing event, victims really need someone's ear. Smith's interviewers let survivors talk a bit. The first part of the interview is less structured. It gives people a chance to express their feelings about the event.

That part of the interview is called the Diagnostic Interview Schedule/Disaster Supplement, which she developed with Robins. The more formal Diagnostic Interview Schedule (DIS) follows. The DIS is a standard tool used internationally to identify mental health problems.

Since those first interviews with dioxin and flood victims, Smith and her team have talked with people involved in all sorts of disasters, from earthquakes to mass shootings. Smith, Edward L. Spitznagel, Ph.D., professor of mathematics, and Carol S. North, M.D., assistant professor of psychiatry, have worked together for more than a decade. They ultimately hope to set standards for others who research disasters.

"That's our ultimate goal," she said. "We've designed a methodology to go in six weeks after an event, then a year later, and now we're doing three-year interviews to study the course of reactions over time. We're hoping to identify people whose reactions will tell us something early on, so we might steer them into treatment."

Focusing on women

When she's not hopping a plane to California after an earthquake or talking to flood victims in West Alton, Mo., Smith is roaming the 60 acres in rural St. Charles County, Mo., where she lives with her husband, attorney Richard Stout. Both were involved in a "natural" disaster experiment in 1993, when record floodwaters from the Missouri River shut down Highway 94 near their home. "We had a tough time getting to and from our property for a few weeks," she said.

Calendar

April 6-11



Exhibitions

"First-year M.F.A. Exhibition." Features mixed media, paintings, installation, sculpture, prints, photography, ceramics and glass. Through April 8. Saint Louis Design Center, 12th Floor, 917 Locust St. Hours: 9 a.m.-5 p.m. weekdays; 10 a.m.-4 p.m. Saturdays. 935-4761.

"Master of Fine Arts I." School of Art thesis show. Opening reception: 5-7 p.m. April 14. Through April 23. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; and 1-5 p.m. weekends. 935-5490.



Films

All Filmboard movies cost \$3 and are shown in Room 100 Brown Hall. For Filmboard Hotline, call 935-5983.

Thursday, April 6

7 and 9 p.m. **Filmboard Foreign Series.** "A Bout de Souffle (Breathless)" (1959, B&W), in French with English subtitles. Starring Jean-Paul Belmondo as a small-time hood who idolizes Humphrey Bogart.

Friday, April 7

7 and 9:30 p.m. **Filmboard Feature Series.** "The Fugitive" (1993), starring Harrison Ford and Tommy Lee Jones. (Also April 8, same times, and April 9 at 7 p.m.)

Midnight. Filmboard Midnight Series. "Rosencrantz and Guildenstern Are Dead" (1990), co-starring Richard Dreyfuss and Gary Oldman. (Also April 8, same time, and April 9 at 9:30 p.m.)

Tuesday, April 11

7 p.m. **Japanese Film Series.** "Snow Country" (1989), with English subtitles. Based on the novel "Yukiguni" by Kawabata Yasunari. Room 219 South Ridgley Hall. 935-5156.

Wednesday, April 12

7 and 9 p.m. **Filmboard Foreign Series.** "La Baie des Anges (Bay of Angels)" (1962), in French with English subtitles. (Also April 13, same times.)

Friday, April 14

4 p.m. **Women's studies film and discussion series.** Womanist Perspectives in Cinema. "Daughters of the Dust" (1990). Discussion led by Priscilla Dowden, prof. of history, U. of Missouri-St. Louis. Room 149 McMillan Hall. 935-5216.

7 and 9:30 p.m. **Filmboard Feature Series.** "Taxi Driver" (1976), starring Robert De Niro, Cybill Shepherd and Jodie Foster. (Also April 15, same times.)

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 Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

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 935-4926.

Midnight. Filmboard Midnight Series. "Clue" (1985). The famous board game comes to life with Lesley Ann Warren and Christopher Lloyd. (Also April 15, same time.)



Lectures

Thursday, April 6

9:30 a.m. **Pulmonary and critical care lecture.** The 19th Annual I. Jerome Flance Visiting Professor of Medicine Lecture. "The Relevance of Indoor Allergens as a Cause of Asthma," Thomas A.E. Platts-Mills, prof. of medicine and microbiology, U. of Virginia Health Sciences Center, Charlottesville. Clopton Aud., 4950 Children's Place. 362-8983.

11:15 a.m. **Social work seminar.** "Overview of Mental Health Services Financing and the Expected Impact of Managed Care," Joann Leykam, chief attorney for St. Charles County and former interim director, Missouri Dept. of Mental Health; and Keith Schafer, vice president for Development of Government Programs, CMG Health, Owings Mills, Md., and former director, Missouri Dept. of Mental Health. Second Floor Conference Room, Administrative Bldg., 1130 S. Hampton Ave. 935-5741.

Noon. **Genetics seminar.** "Novel Methods for High-speed DNA Sequencing," Lloyd Smith, assoc. prof., Dept. of Analytical Chemistry, U. of Wisconsin, Madison. Cori Aud., 4565 McKinley Ave. 286-1804

1:30 p.m. **Geometry seminar.** "The Theorem of Nielsen and Thurston on Surface Homeomorphisms," Larry Conlon, prof. of mathematics. Room 199 Cupples I Hall.

4 p.m. **Assembly Series lecture.** Omicron Delta Kappa Honors Lecture. "Dave's World," Dave Barry, syndicated columnist, humorist and author. Graham Chapel. Open only to WU students, faculty and staff with valid ID. 935-5285.

4 p.m. **Molecular oncology, medicine and pathology seminar.** "Neurofibromatosis 1: Just Another Confusing Tumor Suppressor Gene," David H. Gutmann, asst. prof., depts. of Neurology and Neurological Surgery and Pediatrics, and co-director, Neurofibromatosis Program, St. Louis Children's Hospital. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

4 p.m. **Pathology lecture.** The 1995 Paul E. Lacy Lecture. "The Role of EBV and the Ig/myc Translocation in the Genesis of Burkitt Lymphoma," George Klein, prof. of tumor biology, Karolinska Institute, Microbiology and Tumor-Biology Center, Stockholm, Sweden. Moore Aud., 660 S. Euclid Ave.

4:15 p.m. **Philosophy lecture.** "Emotion and Heterodox Moral Perception: An Essay in Moral Social Psychology," Diana Meyers, prof. of philosophy, U. of Connecticut, Storrs. Women's Bldg. Lounge. 935-7148.

4:30 p.m. **Math colloquium.** "Quarter Pinched Homogeneous Spaces of Negative Curvature," Patrick Eberlein, U. of North Carolina, Chapel Hill. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.) 935-6726.

Friday, April 7

10 a.m. **Math colloquium.** Southwestern Bell Foundation Colloquium. "Differential Invariants and Computer Vision," Peter Olver, prof. of mathematics, U. of Minnesota, Minneapolis. Room 305 Bryan Hall.

Noon. **Cell biology and physiology seminar.** "Roles of the Motor Receptor Kinectin in Membrane Traffic," Michael P. Sheetz, prof., Dept. of Cell Biology, Duke U. Medical Center, Durham, N.C. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. **Environmental engineering seminar.** "Particle Formation and Coating Leading to Decreased Chemical Exposure," Norbert Mason, research prof., Dept. of Chemical Engineering. Room 216 Urbauer Hall. 935-8590.

1 p.m. **Solid-state engineering and applied physics seminar.** "Characterization of Thin-

film Acrylic Structures Useful for Optical Components," T. S. Barry, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall. 935-5565.

1:30 p.m. **Geometry seminar.** "Rigidity for Nonpositively Curved Manifolds of Higher Rank," Patrick Eberlein, prof. of mathematics, U. of North Carolina, Chapel Hill. Room 199 Cupples I Hall. 935-6726.

4 p.m. **Earth and planetary sciences colloquium.** "Taking the Plunge — Moving Away From Lectures," Barbara J. Tewksbury, assoc. prof., Dept. of Geology, Hamilton College, Clinton, N.Y. Room 362 McDonnell Hall. 935-5610.

4 p.m. **Hematology lecture.** "The Role of Factor XI in a Revised Model of Blood Coagulation," Dave Gailani, instructor, Dept. of Medicine. Room 8841 Clinical Sciences Research Bldg.

4 p.m. **Microbial pathogenesis seminar.** "Immunological Memory to Viruses," Rafi Ahmed, prof., Dept. of Neurobiology and Immunology, U. of California, Los Angeles. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-7059.

4 p.m. **Music lecture.** "Benjamin Britten: Aspects of the Creative Process," Paul Banks, curator, Britten-Pears Library, Aldeburgh, England. Room B-8 Blewett Hall. 935-5581.

Sunday, April 9

7 p.m. **International studies lecture and discussion.** "Creating Peace, Writing Peace: A Conversation With Two Israeli Writers," Sami Michael, Israeli novelist and playwright, and Salem Jubran, Israeli poet and co-director of the Jewish-Arab Center for Peace at Givat Haviva. Lambert Lounge, Room 303 Mallinckrodt Center. 935-8567.

Monday, April 10

Noon. **Neurology seminar.** "The Use of Exogenous Ca²⁺ Chelators as Probes for Excitotoxic Mechanisms *In Vitro* and *In Vivo*," Michael Tymianski, Playfair Neuroscience Unit, Toronto Hospital Research Institute. Schwarz Aud., First Floor Maternity Bldg.

Noon. **Molecular biology and pharmacology seminar.** "Early Development of Muscle Precursor Cells," Charles P. Ordahl, prof., Dept. of Anatomy, U. of California, San Francisco. Room 3907 South Bldg.

4 p.m. **Biology seminar.** "Proteins That Catalyze the Expansion of Plant Cell Walls," Daniel Cosgrove, prof., Dept. of Biology, Pennsylvania State U., University Park. Room 322 Rebstock Hall. 935-6860.

4 p.m. **Cognitive psychology colloquium.** "Broken Agreement," Kay Bock, prof. of psychology, U. of Illinois, Champaign-Urbana. Room 162 McDonnell Medical Sciences Bldg. 935-6546.

Tuesday, April 11

4 p.m. **Assembly Series lecture.** William C. Ferguson Memorial Lecture. "Empires of Time," Anthony Aveni, author, anthropologist and astronomer, Colgate U., Hamilton, N.Y. May Aud., Simon Hall.

4 p.m. **Chemistry seminar.** "New Ring Expansion Reactions in Organic Chemistry," Jeffrey Aubé, prof., Dept. of Medicinal Chemistry, U. of Kansas, Lawrence. Room 311 McMillen Lab. 935-6530.

Wednesday, April 12

8 a.m. **Obstetrics and Gynecology Grand Rounds.** "New Nutritional Guidelines in Pregnancy," Ron Chez, prof., U. of South Florida College of Medicine, Tampa. Clopton Aud., 4950 Children's Place. 454-7886.

11 a.m. **Assembly Series lecture.** Thomas D. Fulbright Lecture in American History. "Technology and the Future of American Foreign Policy: A Historian's View," Walter LaFeber, Noll Professor of American History, Cornell U. Graham Chapel.

Noon. **Pathobiology seminar.** The Lucille P. Markey Special Emphasis Pathway in Human Pathobiology 1995 Spring Seminar. "Development of Gene Therapy for Sickle Cell Anemia," Arthur Nienhuis, director, St. Jude's Children's Hospital, Memphis, Tenn. Cori Aud., 4565 McKinley Ave. 362-3363.

4 p.m. **Architecture lecture.** "Design for Earthquakes," Irving Engel, prof., School of Architecture. Room 116 Givens Hall.

4 p.m. **Biochemistry and molecular biology seminar.** "Crystal Structure of a Multi-domain Fragment of Human

Fibronectin," Daniel J. Leahy, asst. prof. Dept. of Biophysics and Biophysical Chemistry, Johns Hopkins U. School of Medicine, Baltimore. Cori Aud., 4565 McKinley Ave.

4 p.m. **Physics lecture.** Eugene Feenberg Memorial Lecture in Physics. "Newton's Formulation of His Universal Law of Gravitation," Subrahmanyan Chandrasekhar, Emeritus Morton D. Hull Distinguished Professor, The Enrico Fermi Institute, U. of Chicago. Room 201 Crow Hall. 935-6272.

Thursday, April 13

11:15 a.m. **Social work lecture.** "Critical Research Proposal: Post-hospital Mental Health Services for Geropsychiatric Patients: Utilization and Outcomes," Nancy Morrow-Howell, assoc. prof. of social work, Second Floor Conference Room, Administrative Bldg., 1130 S. Hampton Ave.

Noon. **Genetics seminar.** "Cloning of Human DNA in Yeast as YACs Using Transposon-associated Recombination," Vladimir Larionov, Genetics/Molecular Biology Group, National Institute of Environmental Health Sciences. Cori Aud., 4565 McKinley Ave. 362-2744.

12:30 p.m. **Neuroscience luncheon seminar.** "Regulation of K⁺ Channel Expression and Assembly," Edwin Levitan, asst. prof. pharmacology and neuroscience, Dept. of Pharmacology, U. of Pittsburgh. Room 940 McDonnell Medical Sciences Bldg.

1:30 p.m. **Geometry seminar.** "The Theorem of Nielsen and Thurston on Surface Homeomorphisms" (cont.), Larry Conlon, prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

4 p.m. **Biology and biomedical sciences seminar.** "Genetic Analysis of Aging in *Saccharomyces cerevisiae*," Leonard Guarente, prof., Dept. of Biology, Massachusetts Institute of Technology. Cori Aud., 4565 McKinley Ave. 362-4780.

4 p.m. **Chemistry seminar.** "The Reaction of Nickel-Acylate Complexes With Alkyl Vinyl Halides," Alan Pinhas, prof., Dept. of Chemistry, U. of Cincinnati. Room 311 McMillen Lab. 935-6530.

4 p.m. **Earth and planetary sciences seminar.** "The Composition of High-pressure Mantle Melts: Results From Diamond-aggregate Experiments," Mike Baker, member, professional staff, Division of Geological and Planetary Science, California Institute of Technology. Room 362 McDonnell Hall. 935-5610.

4 p.m. **Molecular oncology, medicine and pathology seminar.** "Control of Mammary Cell Growth and Oncogenesis," Joseph R. Nevins, chair, Dept. of Genetics, and investigator, Howard Hughes Medical Institute, Duke U. Medical Center, Durham, N.C. Third Floor Aud., St. Louis Children's Hospital.

Friday, April 14

Noon. **Cell biology and physiology seminar.** "Nuclear Fusion, a Two-stage Pathway Requiring Microtubule-dependent Nuclear Movement and Membrane Fusion," Mark Rose, prof., Dept. of Molecular Biology, Princeton U. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg.

Noon. **Environmental engineering seminar.** "Cement Kiln Waste Management Technologies," Robert J. Schreiber Jr., president, Schreiber, Grana and Yomley Inc., St. Louis. Room 216 Urbauer Hall.

1 p.m. **Immunology program thesis defense.** "STAT Recruitment by Tyrosine Phosphorylated Cytokine Receptors," Andrew C. Greenlund, student, Medical Scientist Training Program. Room 7737 Clinical Sciences Research Bldg. 362-3365.

4 p.m. **Molecular microbiology seminar.** "Prokaryotic Enhancer Binding Proteins: Sensing of Nitrogen Limitation in Energy-limited Bacteria," Sydney Kustu, prof., Dept. of Molecular and Cell Biology, U. of California, Berkeley. Cori Aud., 4565 McKinley Ave.

4 p.m. **Music lecture.** "Henry Purcell's Church Music: A Tricentennial Tribute," van Tassel, music writer and contributor to "The Purcell Companion," to be published this year. Room B-8 Blewett Hall. 935-5511.

4:30 p.m. **Math colloquium.** "Zeros of Derivatives of Meromorphic Functions," J. Langley, prof. of mathematics, U. of Nottingham, University Park, England, and Purdue U., West Lafayette, Ind. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.)

Saturday, April 15

9 a.m. **Saturday morning neural sciences seminar.** Growth Factors and Apoptosis. "Ischemia: Nectosis vs. Apoptosis," Dennis Choi, Andrew B. and Gretchen P. Jones Professor of Neurology and head, Dept. of Neurology, Erlanger Aud., McDonnell Medical Sciences Bldg.



Performances

Friday, April 7

7 p.m. **Artistic performance.** "Vestiges: A Poem in Prose," Rebecca Siemering, art student. Bixby Gallery, Bixby Hall. 935-6500.

8 p.m. **Performing Arts Dept. presents "The Illusion,"** adapted by Pulitzer Prize winner Tony Kushner and based on the 17th-century French play "L'Illusion Comique." Features an all-student cast. (Also April 8, same time, and April 9 at 2 p.m.) Edison Theatre. Cost: \$8 for the general public; and \$6 for senior citizens, WU faculty, staff and students. 935-6543.



Miscellany

Thursday, April 6

4 p.m. **American culture music workshop and seminar.** "Miles Davis and American Culture" features 15 participants reflecting a variety of interpretations of Miles Davis and American culture. Sponsored by the American Culture Studies Institute, African and Afro-American Studies Program and the Department of Music. Conference continues through April 8. West Campus Conference Center, 7425 Forsyth Blvd. For times and participant info., call 935-5216.

6 p.m. **Twenty-first Annual Alumni Achievement Awards Dinner.** The School of Engineering and Applied Science will honor seven alumni. (See page 7 for story.) St. Louis Zoological Park's Living World. 935-4894.

7 p.m. **Martin Luther King Jr. Symposium program.** "Black Women Speak." Michele Hanshaw, co-chair, Association of Black Students' programming committee, will join black women students in discussing their experiences at Washington University. Wydown Hall living room. 935-5994.

Friday, April 7

Central Institute for the Deaf (CID) benefit picnic reservation deadline. "The Ultimate Picnic II," to be held from 6-9:30 a.m. April 20, features an elegant dinner and picnic basket raffle, including "Up, Up, and Away," a basket with champagne and a

Printmarket showcases vintage, modern prints

The Gallery of Art will host the 12th annual St. Louis Printmarket April 7-9. Printmarket, which showcases prints, posters and other works from around the world, opens with a preview and benefit at 7 p.m. Friday, April 7, in the gallery in Steinberg Hall. The show and sale will continue from 10 a.m. to 5 p.m. Saturday, April 8, and from noon to 5 p.m. Sunday, April 9.

Printmarket features fine art prints, posters, silk-screen prints, photographs and other art works in a wide range of prices from more than a dozen galleries and art dealers. Visitors and buyers will see fine art prints by modern and contemporary artists; antique book plates, maps and architectural drawings; Aboriginal woodcuts and silk-screens from Australia; wood blocks from Japan; and photography from the United States that dates back to the Civil War.

"We're delighted to be the host and beneficiary of this wonderful show once again," said Gallery Director Joseph Foster. "There is something for every taste and the breadth of the style and media make this show a delight to see."

hot air balloon ride. Cost: \$500-picnic benefactor; \$100-picnic patron; and \$60-picnicker. Contributions, which are tax-deductible, benefit the children of the CID. CID, 818 S. Euclid Ave. Reservations held at the door. 997-0220.

Noon. Woman's Club mini-luncheon and program. Features a campus tour led by Paul Norman, WU horticulture manager. Women's Bldg. Lounge. Open to Woman's Club members and their guests. Cost: \$5. 966-4680.

3:15 p.m. International Student Resource Group tour and lecture. "The History and Future of the Monsanto Life Sciences Corp." Bus leaves Stix International House for a tour of Monsanto Life Sciences Center, returning at 5 p.m. 935-4787.

6 and 8:30 p.m. Washington University Association Travel Lecture Series. "The Real World of Thailand," Rick Howard, travelogue film producer. Graham Chapel. Cost: \$4.50. 935-5212.

7 p.m. Martin Luther King Jr. Symposium program. "Motown at the Cotton Club," a program featuring students reading poetry, singing, dancing and acting in a Cotton Club setting. The Gargoyle, Mallinckrodt Center. 935-5285.

7-9 p.m. Printmarket benefit and preview. Exhibit and sale will showcase local and national print dealers and will feature an extensive array of prints. Cost: \$50 for benefit preview. Proceeds benefit the Gallery of Art. Exhibit and sale continue through April 9. Printmarket admission cost: \$5 for the general public; and \$2 for students. Gallery of Art, upper and lower galleries, Steinberg Hall. Hours: 10 a.m.-5 p.m. April 8 and noon-5 p.m. April 9. 935-5490.

Saturday, April 8

8:30 a.m.-5 p.m. Neuroscience symposium. The McDonnell Neuroscience Symposium on Learning and Memory. Sponsored by McDonnell Center of Higher Brain Function and the McDonnell Center for Cellular and Molecular Neurobiology. Moore Aud., 660 S. Euclid Ave. 362-7043.

10 a.m. Bookmaking workshop. "About Paper." A panel will illustrate various types and weights of paper and show how they can be used. Bixby Gallery, Bixby Hall. Cost: \$7.50. 935-4643.

Monday, April 10

7-10 p.m. Office of Continuing Medical Education seminar series. "Internal Medicine Review." The topic is oncology. Steinberg Amphitheater, Jewish Hospital. For cost and credit info., call 362-6893.

7:30 p.m. Student readings. Excerpted from WU student literary magazines. Sponsored by International Writers Center. Stix International House. 935-5576.

Tuesday, April 11

4-7 p.m. Communications and Journalism Internship Fair. Learn about opportunities for summer and fall internships available in TV, radio, print journalism, advertising and public relations. Umrath Hall Lounge. 935-4613.

Change of venue

The spring session of University College's Lifelong Learning Institute will be held at the West Campus Conference Center, 7425 Forsyth Blvd.

As a new feature of the 1995 Printmarket, visitors will be able to bring in their own prints, art posters and old photographs and get advice from experts about preserving, matting, mounting and framing their works. Art experts will be on hand to help visitors identify the relative age, condition and quality of their art works. No specific appraisals will be given, but experts can refer visitors to the best sources for obtaining an appraisal on a particular work of art.

Experts will provide consultation and advice on one piece of art for the price of admission; additional art works will be discussed at a rate of \$5 per item. Food and refreshments from the St. Louis Bread Company also will be available.

Admission to the Printmarket on April 8 and April 9 is \$5 for the public and \$2 for students. Tickets to the April 7 preview party, which benefits the Gallery of Art, are \$35 for persons 35 years and younger; and \$50 for persons over 35. For more information, call 361-3737.

'Gray's Anatomy' takes comic look at cures for medical mid-life crisis

Comic storyteller supreme Spalding Gray contemplates Indian sweat lodges, voodoo doctors and psychic healers as he seeks a no-risk cure for a medical mid-life crisis in "Gray's Anatomy" at 8 p.m. April 21-22 in Edison Theatre.

"Gray's Anatomy" is an "odyssey of an ailing man in search of faith or magic," writes a critic for The New York Times.

A writer, actor and performer, Gray has created a series of 14 monologues that have



Spalding Gray

been performed throughout the United States, Europe and Australia. His OBIE Award-winning "Swimming to Cambodia" became a critically acclaimed film by

Jonathan Demme; his "Terrors of Pleasure" became a special for the HBO cable TV network; and his "Monster in a Box" was released in movie theaters in 1992.

Gray also appeared on Broadway in the role of the stage manager for the revival of Thornton Wilder's "Our Town" and off-Broadway as Hoss in the Performance Group's New York premiere of Sam Shephard's "Tooth of Crime." He recently returned from Malaysia where he completed work on a soon-to-be-released John Boorman film.

In "Gray's Anatomy," writes a critic for Newsday, "Gray refines anew his gift for elevating and transforming the banal, embroidering with such screwy, stoned detail, we soon forget that at the tale's heart is another paranoia trip about, yes, growing older. Gray takes us on an adventure into 'the Bermuda Triangle of health,' his mother-in-law's term for the precarious years from 50 to 53, when the body begins to break down."

Both performances of "Gray's Anatomy" will be sign interpreted for the hearing impaired. The shows are part of Edison Theatre's "OVATIONS!" series.

Tickets are \$20 for the general public; \$16 for senior citizens and Washington University faculty and staff; and \$11 for Washington University students and children. Tickets are available at Edison Theatre box office (935-6543) or Metrotix (534-1111).

Campus urged to support arts fund drive

The Arts and Education Council (A&E) of Greater St. Louis is asking the Washington University community to play a starring role in its annual fund drive. This year's campaign theme, "Play Your Part," underscores that now, more than ever, everyone must pull together to ensure access to the arts in our communities.

A&E raises funds for more than 150 arts, cultural and arts education organizations in the bi-state area. The council does not receive government funding, but relies on area individuals and companies for campaign support.

"It's important that people understand that no contribution is too small," said Thomas A. Harig, associate vice chancellor

for business affairs and coordinator of the A&E campaign at Washington University. "If each of us helps a little, we can provide a tremendous boost to local arts and education programs."

The 1994 campaign raised more than \$2 million and provided financial support to nine primary arts and education groups, as well as smaller organizations. Last year, \$3,500 in A&E contributions came back to Washington University in the form of grants to the Edison Theatre, the Black Alumni Program's African Arts Festival, and the International Writers Center.

Contributions will be accepted through June. For more information, call 935-5678.

Sports

Compiled by Mike Wolf, director, and David Moessner, asst. director, sports information.

Baseball Bears hit and miss

A school-record single-day performance by center fielder Russ Chambliss, Chesterfield, Mo., highlighted this past week's baseball action. In a 13-7 and 16-7 doubleheader sweep of McKendree College, Chambliss hit safely in all nine at-bats — five singles, two doubles, a triple and a home run. He added six runs batted in and four runs scored.

After winning seven of eight games and moving into position to contend for an NCAA postseason playoff spot, the Bears were slowed at Westminster College this past Sunday, dropping a pair of games 11-0 and 10-8.

Current record: 16-9 (5-1 UAA co-champions)

This week: 3:30 p.m. Tuesday, April 4, at University of Missouri-St. Louis; 3 p.m. Thursday, April 6, vs. Missouri Baptist College, Kelly Field; noon Saturday, April 8, vs. MacMurray College (2), Kelly Field; 1 p.m. Sunday, April 9, vs. Maryville University (2), Kelly Field.

Tracksters set varsity marks

Both Bear squads produced strong outings at Saturday's Western Illinois University Invitational. The men finished fifth and the women seventh in the high-powered eight-team meet.

Twice re-authoring the WU record book in the 4 x 100- and 4 x 400-meter relays was the foursome of senior Renee Foster, Peoria Heights, Ill.; senior Genevieve Melton, Poughkeepsie, N.Y.;

junior Julie Pearman, Desloge, Mo.; and first-year student Yolanda Shepard, St. Charles, Mo.

On the men's side, senior Rodney Jackson, St. Louis, finished second in the long jump and sophomore Dillon Gilhooley, Highland Park, Ill., was second in the javelin.

This week: 3 p.m. and 10 a.m. Friday-Saturday, April 7-8, at SEMotion Relays, Cape Girardeau, Mo.

Women net five wins

Blowing past five opponents last week, the women's tennis team boosted its spring record to 9-1. The Bears dropped just three games while beating Southern Illinois University-Edwardsville (8-1), Webster (9-0), Otterbein (9-0), Wheaton (8-1) and Principia (8-1).

Current record: 9-1
This week: Friday-Saturday, April 7-8, Fifth Annual Washington University Invitational, Tao Tennis Center (3:30 p.m. April 7; 9 a.m. and 1:30 p.m. April 8.)

Men's tennis evens ledger

The men's tennis team evened its season record at 4-4 by winning its lone match 6-1 last week over visiting Illinois Wesleyan University.

Current record: 4-4
This week: 4 p.m. Tuesday, April 4, vs. Principia College, Tao Tennis Center; 3:30 p.m. Thursday, April 6, vs. University of Missouri-St. Louis, Tao Tennis Center.

Student groups organize birthday party for Chancellor Danforth

Student Union and a host of other student groups are planning the biggest birthday bash ever for Chancellor William H. Danforth. More than 4,000 people are expected to attend the event, which is open to students, alumni, faculty and staff.

"Chan Dan — the final bash" begins with a barbecue at 4:30 p.m. Thursday, April 13, in Bowles Plaza. The party continues in Bowles Plaza and The Gargoyle until midnight, with student entertainment, fireworks and a laser show, a 150-square-foot birthday cake, dancing, a farewell speech by the chancellor, and a reception. The Congress of the South 40 is organizing a surprise gift for the chancellor.

After 24 years in the post, Danforth will retire June 30. The bash is scheduled three days after Danforth's April 10 birthday.

"The bash is really a retirement party, a birthday party and a celebration for the chancellor rolled up into one. It's his last year; we want to send him off with a bang," said Jamie Tiampo, a first-year business student from Vancouver, British Columbia,

Canada. He said the event also will serve as a diverse student talent showcase, featuring performances by groups ranging from the Mama's Pot Roast standup comedy troupe, to the Pikers, an all-male cappella singing group, to the Visions Gospel Choir. "We're trying to involve as many groups as possible."

In addition, a variety of administrative departments are working with the students to ensure the program's success. The senior class is helping the Student Union Entertainment Council plan the program as well. "The chancellor is excited about 'graduating' with the senior class," said Tiampo.

Washington University students have sponsored a birthday party for Danforth since 1991.

Student Union is the major event sponsor with assistance from student groups and others across the campus. For more information, call Tiampo at 920-8899 (cellular phone) or 935-2644 (home/fax), or Douglas Colt, entertainment council chair, at 750-5830 (cellular phone) or 863-6115 (home).

Archaeoastronomer explores 'Empires of Time'

Astronomer and anthropologist Anthony Aveni will give the William C. Ferguson Memorial Lecture at 4 p.m. Tuesday, April 11, in the May Auditorium, Simon Hall. His lecture, titled "Empires of Time," is part of the Assembly Series and is free and open to the public.

Aveni is Russell B. Colgate Professor of Astronomy and Anthropology at Colgate University in Hamilton, N.Y., where he has taught since 1963. He helped develop the field of archaeoastronomy and now is considered one of the founders of Mesoamerican archaeoastronomy for his research in the astronomical history of the Maya Indians of ancient Mexico.



Anthony Aveni

Aveni received a bachelor's degree in physics from Boston University in 1960 and a doctorate in astronomy from the University of Arizona in 1965. He is the author and/or editor of many books on ancient astronomy, including "Skywatchers of Ancient Mexico" (1980), "Empires of Time" (1989) and — most recently — "Conversing With the Planets: How Science and Myth Invented the Cosmos" (1992). The latter is described as the first popular work of astronomical anthropology that weaves cosmology, mythology and the anthropology of ancient cultures by illustrating the connections between these cultures' beliefs and their study of the skies. He has more than 100 research publications to his credit.

A talented teacher and researcher, Aveni was featured in Rolling Stone magazine's 1991 list of the 10 best professors in the United States and also was voted 1982 Professor of the Year by the Council for the Advancement and Support of Education.

For more information, call 935-5297.

Historian to discuss U.S. foreign policy

Historian Walter LaFeber will give a historical perspective on U.S. foreign policy in his Assembly Series lecture at 11 a.m. Wednesday, April 12, in Graham Chapel. His talk, titled "Technology and the Future of American Foreign Policy: A Historian's View," is the Thomas D. Fulbright Lecture in American History.

LaFeber will take part in an informal discussion from 2 to 3 p.m. Wednesday, April 12, in Lambert Lounge, Room 303 Mallinckrodt Center. Both the lecture and the discussion are free and open to the public.

LaFeber is Noll Professor of American History at Cornell University, a position he has held since 1968.

Among the numerous books that LaFeber has authored and co-authored are: "The American Age: U.S. Foreign Policy Abroad and at Home Since 1750," published in 1989, "The American Century: The United States Since 1890," published first in 1973 and now in its fourth revised edition, and "America in Vietnam," first published in 1985.

After receiving a bachelor's degree from Hanover College, Hanover, Ind., in 1955 and a master's degree from Stanford University in 1956, LaFeber earned a doctorate in history from the University of Wisconsin, Madison, in 1959.

LaFeber, a recipient of a Guggenheim Fellowship, has served as a consultant to the National Geographic Society, on the Advisory Committee of the U.S. Department of State Historical Division and as a member of the Council on Foreign Relations.

The lecture is co-sponsored by the Assembly Series, Fulbright Endowment Fund, Student Union and the Undergraduate History Association. For more information, call 935-5297.



Walter LaFeber

Nobel laureate, physicist to lecture April 12

The 1983 Nobel Prize winner in physics will deliver the Eugene Feenberg Memorial Lecture at 4 p.m. Wednesday, April 12, in Room 201 Crow Hall. Subrahmanyan Chandrasekhar, Emeritus Morton D. Hull Distinguished Service Professor at the University of Chicago, will discuss "Newton's Formulation of His Universal Law of Gravitation." The lecture is free and open to the public.

Chandrasekhar's research interests have been in theoretical astrophysics. In 1930, using the new quantum theory, Chandrasekhar was the first to incorporate relativistic effects to derive a correct

description of the properties of white dwarf stars. The maximum mass a white dwarf star can have now is known as the Chandrasekhar Limit.

His later work concentrated on stellar dynamics; the theory of radiative transport and the related theory of stellar atmospheres; hydrodynamic and hydromagnetic stability; the consideration of ellipsoidal figures of equilibrium; the general theory of relativity and relativistic astrophysics; and the mathematical theory of black holes. Most of these investigations led to treatises, each a classic in its field.

For more information, call 935-5297.



American Indian Awareness Week culminated in a powwow April 1, which featured American Indian dancers from across the Midwest, trading booths and storytelling. The event was held in the Field House due to rain.

Campus plays key role in April Welcome — from page 5

Paintball, Adequate Housing for America and Students to End Poverty, to name a few. Throughout their visit, students are encouraged to meet with faculty and representatives from the offices of Housing, Student Financial Services and Student Affairs, participate in extracurricular activities, and explore the St. Louis community.

The success of April Welcome depends on the participation of the entire campus community, Clift said. Current students are playing a key role, not the least of which is hosting the visitors. During April, members of the Student Admission Committee conduct 36 campus tours a week. In addition, students are volunteering with faculty and staff as "greeters," welcoming prospective students and their parents as they arrive on campus. In addition to the approximately 1,000 high school seniors scheduled to visit, the Office of Undergraduate Admission is expecting about 300 juniors and many parents.

Faculty also are very involved, opening

their classrooms and laboratories to the visitors, and taking time to meet with them outside of class. Although the Office of Undergraduate Admission has been most involved in the day-to-day operations of April Welcome, Clift said almost every one on campus has helped in some way. The Department of Facilities Planning and Management, for example, has maintained the beauty of the campus; the Department of Athletics has been in contact with prospective student-athletes and made its facilities available to visiting students; and

"This year, the number of prospective students visiting campus is up 15 percent. We have a big challenge ahead of us," Clift said. "I know if we work together as a community we can pull it off."

For more information about April Welcome or to volunteer to be a greeter, call 935-4199 or 935-4615.

— Susannah Webb

Campus Watch

The following criminal incidents were reported to the Hilltop Campus Police Department March 26-April 2. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

March 27

10:30 a.m. — A menu board and cash register stand belonging to Marriott Food Services were reported damaged in Holmes Lounge, Ridgley Hall sometime between 9 p.m. March 24 and 7:30 a.m. March 27.

2:19 p.m. — The Washington University flag was reported stolen from the flagpole on the roof of the Athletic Complex sometime between 7 p.m. March 25 and 8 a.m. March 27.

3:27 p.m. — A student in Millbrook Apartments reported receiving several harassing telephone calls from an incoherent male. The student had reported similar calls in the past and was able to provide campus police with recordings and times of the calls. The police department is continuing its investigation.

3:36 p.m. — Thirty pens were reported stolen from the message boards on students' doors in Eliot Residence Hall.

March 29

4 a.m. — A light stand was reported stolen from the Sigma Chi living room sometime between 1 and 3 a.m.

2:25 p.m. — Two laptop computers and a printer were reported stolen from a suite in

Millbrook Apartments sometime between 11 a.m. and 2:20 p.m.

March 30

2:19 p.m. — A computer, monitor and keyboard were reported stolen from a classroom in Urbauer Hall sometime between 8 a.m. and 2:19 p.m.

April 1

1:47 p.m. — Graffiti was discovered on the north side of the South 40 underpass.

In addition to the incidents listed above, a police officer found a student's backpack near the front doors of Simon Hall; a student found a credit card and receipt near the automatic teller machine at Mallinckrodt Center; a Spann employee found a wallet that a student had left on a curb near Busch Hall; and a police officer found four brass cymbals and a drum on the loading dock at Wohl Center. The backpack and wallet were returned to their owners. Efforts to contact the owners of the credit card and cymbals and drum were unsuccessful. The credit card was destroyed and the other items were taken to the campus police department for safekeeping.

For The Record

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

Of note

Several students have been selected to participate in the National Interfraternity Conference's Emerging Leaders program, a leadership program for undergraduates. Those selected were identified by campus administrators as having the greatest potential to be future leaders of their individual fraternities and the Greek community. Through the program, the students will be part of a network of undergraduates from the United States and Canada. The participants are: sophomore **Arnie Alpert** of Alpha Epsilon Pi; sophomore **Dan Cohen** of Sigma Alpha Epsilon; sophomore **Tanuj Nakra** of Kappa Sigma; junior **Scott Pashman** of Sigma Alpha Mu; sophomores **Ted Perlstein** and **Rob Persaud**, both of Sigma Phi Epsilon; sophomores **Ed Schwartz** and **Marc Taub**, both of Alpha Epsilon Pi; junior **Benjamin Walter** of Zeta Beta Tau; and junior **John Weaver** of Sigma Chi. ...

William R. Kohn, professor of art, was chosen for the inaugural exhibition of the new Goddard Gallery at the Stauffacher Center for the Fine Arts, State Fair Community College, in Sedalia, Mo. The retrospective show, including Kohn's 30-foot-long acrylic painting of the Grand Canyon, was featured on "Central Missouri Focus," a TV program produced by KMOS-TV at Central Missouri State University in Warrensburg. ...

Jacob C. Langer, M.D., associate professor of surgery and of pediatrics, and **Michel M. Ter-Pogossian**, Ph.D., professor of radiation sciences at the School of Medicine's Mallinckrodt Institute of Radiology, received awards from The Academy of Science of St. Louis. Langer received the 1995 Innovative Award presented for outstanding scientific accomplishments. Ter-Pogossian received the 1995 Peter H.

Raven Lifetime Award, which recognizes individuals for a distinguished career of service in science. The inaugural honor, named after **Peter H. Raven**, Ph.D., Engelmann Professor of Botany and director of the Missouri Botanical Garden, is the academy's highest award. Langer and Ter-Pogossian received the awards during the academy's 1995 Outstanding St. Louis Scientists Awards Dinner at the Missouri Botanical Garden.

Speaking of

Funso Afolayan, Ph.D., visiting assistant professor of history and African and Afro-American Studies, presented a paper on "Teaching Africa in World History: Challenges for the 21st Century" at the California History Project on Teaching World History's third annual conference in San Francisco. ...

Saulo Klahr, M.D., John E. and Adaline Simon Professor of Medicine and co-chair of medicine, was named to the National Diabetes and Digestive and Kidney Diseases Advisory Council. Donna E. Shalala, U.S. secretary of health and human services, appointed Klahr to the post.

On assignment

Gloria W. White, vice chancellor for human resources, was named to the Mark Twain Bancshares' not-for-profit advisory board. The purpose of the board is to help the bank develop services that will better meet the not-for-profit community's needs.

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, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

Engineering school presents alumni achievement awards at annual dinner

The School of Engineering and Applied Science will honor seven distinguished individuals at its 21st annual Alumni Achievement Awards Dinner at 6 p.m. Thursday, April 6, at the St. Louis Zoological Park's Living World.

The honorees and their awards are: Paul J. McKee Jr., William F. Patient, Stanley I. Proctor and Nick A. Schuster, who will receive Alumni Achievement Awards; Gregory A. Sullivan, the Young Alumni Award recipient; and Lucy and Stanley L. Lopata, co-recipients of the 1995 Dean's Award. The Dean's Award is presented to individuals whose dedication to engineering education has enhanced opportunities for students and faculty.

Stanley Lopata, a trustee emeritus, received a bachelor's degree in chemistry in 1935. In 1946 he founded Carboline Co. in St. Louis, which he developed into a multimillion dollar company. The company, which specialized in protective coatings and sealants, was sold to Sun Oil Refining and Marketing Co. in 1979. Lucy Lopata has devoted more than 30 years to a variety of University and community organizations.

The Lopatas have assisted in the funding of building projects, including the construction of the school's Lopata Hall and Lopata Plaza. They also have endowed a professorship in chemical engineering, the Lopata Classic, the University's annual fall invitational basketball tournament, and awarded the "Lucy and Stanley Lopata Anniversary Challenge," a \$234,000 challenge grant to encourage increased giving and alumni participation when the school celebrates its 125th anniversary in 1996.

McKee will be honored for his achievements in the design-build industry and the wastewater and water industry, as well as his extensive community service. He received a bachelor's degree in civil engineering in 1967. McKee is chief executive officer and co-owner of Paric Corp., a \$45 million design-build firm, and Environmental Management Co., both of St. Louis. McKee is co-sponsor of the Paric Matching Challenge Grant for the school's Eliot Society and Scholarship Program.

Patient received a bachelor's degree in chemical engineering in 1957. He is president and chief executive officer of the Cleveland-based Geon Co., a leading manufacturer of vinyl polymers. He will be recognized for his achievements in chemical engineering and the vinyl polymer industry. In 1989 Patient was a senior vice president of the B. F. Goodrich Co. and president of its Geon Vinyl Division, which he elevated to a \$15 million profit from a \$23 million loss during its first year as an independent company.

Proctor will be honored for his contributions to the chemical engineering profession, his achievements in technology and people management, and his commitment to higher education. He is president of Proctor Consulting Services in St. Louis. He received bachelor's and master's degrees as well as a doctorate in chemical engineering in 1957, 1962 and 1972, respectively. He held various technical and managerial positions at Monsanto Co. from 1959 to 1993, when he retired.

Schuster holds 50 patents in oil exploration. He will be honored for his accomplishments in the field and for his contributions to the engineering profession. Schuster received a bachelor's degree in electrical engineering in 1941 and a doctorate in nuclear physics in 1951. He retired in 1980 as vice president of research and development for Schlumberger, Ltd., a \$6.1 billion manufacturer of electronic equipment for oil drillers and producers.

Sullivan, the Young Alumni Award recipient, is president and founder of G. A. Sullivan, a leading St. Louis-based software development company. He also is co-founder of Hamilton & Sullivan, Ltd., which provides sophisticated software and technology services to financial institutions. He will be recognized for his success as an entrepreneur, his contributions to the computer software industry and his dedication to the school. A 1981 graduate with a bachelor's degree in systems science and applied mathematics, Sullivan's companies have grown into a combined staff of more than 45 employees, with annual sales over \$3 million.

For more information, call 935-4894.

Audio-visual materials help faculty enrich courses, 'bring more voices into classroom' —from page 1

class on a field trip to a national park "to remind students that an important part of geology is getting out into the field." Dymek emphasizes that students without scientific backgrounds shouldn't be afraid to take the course. "It's designed to give non-scientists a flavor of how the Earth works."

"The History of Western Civilization to 1700," taught last fall for the first time by Hirst and Zapalac, re-vamps a course under the same heading taught for nearly two decades by Peter Riesenberger, Ph.D., professor emeritus of history. Where Riesenberger's course emphasized the development of cities and citizenship in the Medieval and Renaissance periods, Hirst and Zapalac's revised course focuses on the ways in which the idea of "Western civilization" has changed from the time of the ancient Hebrews to the period of the Scientific Revolution and the absolutist state.

"What we try to do is examine the way that civilization developed through a process of contact, conflict and contest between groups and cultures," said Hirst. "Western culture is not simply the property of a single dominant group. All the way down the line you see debate and controversy between the group dominant at that time and those it defined as 'other.' ... controversy about what to make of women in the Renaissance, what role of women and Jews and Muslims play. ... Debates about the use of slaves. All these debates shaped the culture we now label 'Western.'"

Zapalac noted that the Kemper grant has enabled the two professors to incor-

porate videos and slides into the course. "The grant made a substantial difference

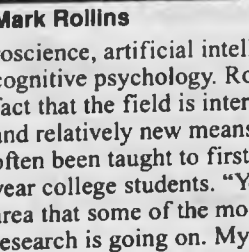


Kristin E. S. Zapalac

in our ability to include visual media, not only to enrich the course, but also actually to show the development of Western culture in all its variety. Our students are part of the MTV generation and, much more than we often realize, learn visually as well as from texts and lectures. Having money to develop the course and to purchase videos and slides has made it possible for us to bring more 'voices' into the classroom — made it possible to give students greater access to current thinking on the complex development of "Western civilization."

"Minding the Brain: The Cognitivist Revolution" is a two-semester course for first-year students that began this year. The course, taught by Rollins, is intended to introduce students to cognitive science, which includes philosophy, neuroscience, artificial intelligence and cognitive psychology. Rollins said the fact that the field is interdisciplinary and relatively new means that it has not often been taught to first- and second-year college students. "Yet it is in this area that some of the most exciting research is going on. My idea was that

Mark Rollins



the course would help bridge the gap between the basic science and humanities classes on the standard freshman menu, and research on the mind and the brain, which they will encounter later in their college careers."

He said that the course also provides students with a historical and philosophical perspective on scientific material and allows them to see how future classes in different fields are intertwined. In addition, the course introduces students to the research interests of faculty in the University's Philosophy-Neuroscience-Psychology doctoral program.

Rollins said the grant has enabled him to obtain video and audiotape materials that are essential to under-

standing the research and theories studied in the course. "We obviously cannot observe neurosurgery and certain kinds of laboratory experiments firsthand. But we can see them on tape. The audio-visual resources make the topics much more vital and concrete."

However, Rollins noted that his students have been able to hear conference speakers and visit University research facilities as well. The year will conclude with a week of classes taught by Owen Flanagan, author of the course's textbook, "The Science of the Mind." Receiving the Kemper grant is very gratifying, said Rollins. "I attach a lot of value to efforts to improve teaching and the curriculum."

— Carolyn Sanford

Art school dedicates gallery in Weitman's honor

The School of Art recently honored retired Washington University photographer Herb Weitman by dedicating a photography gallery in his name, Dean Joe Deal has announced. The dedication was made during a March 30 reception held at the school's Lewis Center, 721 Kingsland Ave.

Weitman, the University's head photographer for 44 years, retired last spring as director of photographic services. He started the School of Art's popular photography program.

"Before Herb, photography was not taught at the University," Deal said. "Under his leadership, the photography program has become well established and its graduates now hold prominent positions in the profession and teach at other colleges. None of this would have happened without Herb."

The Weitman Gallery of Photography is located in a central corridor through the Lewis Center's third floor photogra-

phy classrooms. Although the gallery is dedicated to Weitman, it will not contain his work.

Instead, it will be used to showcase photography by students and alumni.

A committee of School of Art alumni, many of them former students of Weitman,

are raising funds for an endowment to be called the Weitman Photography Fund. James Olvera, who received a bachelor's degree in photography from the University in 1978, heads the committee. Olvera, Weitman's former student, is a Dallas-based photographer who credits Weitman with motivating him to enter the profession.



Herb Weitman

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. Note: All positions require three letters of recommendation.

Secretary 950103. Department of Electrical Engineering. Requirements: some college; typing 50 wpm with accuracy; ability to learn LaTeX; ability to learn technical typing. Clerical tests required.

Computer Systems Manager, Part time 950205. Department of Electrical Engineering. Requirements: master's degree; experience with distributed workstation, personal computer and Macintosh system and environments. Resumé required.

Administrative Assistant 950215. Board of Trustees. Requirements: some college, bachelor's degree preferred; typing 50 wpm with accuracy; efficiency in word processing and data processing; creativity in developing and improving existing records and forms; skill in bookkeeping, both keeping track of budgets and expenses and developing reports for the Board of Trustees account; skill in proofing minutes and reports; appreciation of the need for accuracy, even in routine things; interest in maintaining organized data and filing systems for efficient retrieval; pleasantness with fellow workers and external constituencies on the phone; willingness to work occasionally outside of office hours to set up meetings; five years secretarial experience. Clerical tests required.

Department Secretary 950216. Department of Anthropology. Requirements: associate's degree or equivalent; typing 60 wpm with accuracy; ability to answer routine questions of students concerning registration procedures, course locations, faculty office hours and other departmental procedures; proficiency in WordPerfect. Clerical tests required.

Associate Director of Executive Programs 950222. John M. Olin School of Business. Requirements: master's degree in business admin-

istration or equivalent; five years of executive development or university administration experience preferred; some weekend and evening availability and some travel. Duties: manage all operations of Executive Programs, including customized executive education programs and the Executive MBA program (EMBA program responsibilities include course scheduling, planning and logistics of annual residencies, and supporting the director in student advising and recruiting); manage the operating budget and accounting controls as well as staff. Resumé required.

Oiler 950223. Euclid Power Plant. Requirements: high school graduate or equivalent; skill in the use of tools and equipment; general understanding of power plant machinery; history of dependability; mechanical aptitude; ability and willingness to follow instructions; one year experience in a plant of comparable size. Application required.

Accounting Clerk III (temporary) 950227. Accounting Services. Requirements: some college; six semester hours of accounting or three years experience in accounting; typing 35 wpm with accuracy; good communication skills; experience in the use of mainframe or personal computer spreadsheets and word processing; ability to participate as a team member on various projects to achieve Accounting Services goals. Clerical tests required.

Programmer/Analyst II 950230. Computing and Communications. Requirements: associate's degree, bachelor's degree preferred; knowledge and experience with administrative data processing; excellent organizational and communication skills; skills in COBOL, OS JCL. Resumé 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 in-

formation regarding application procedures or may submit a resumé 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.

Network Engineer 940772-R. Medical Networking Services. Requirements: bachelor's degree in computer science or electrical engineering, plus three years related experience; working knowledge of TCP/IP, DECNET, LAT, Appletalk, IPX, LAST, LAD protocols.

Computer Programmer I 950214-R. Library. Requirements: associate's degree in computer science, bachelor's degree preferred; experience with software development languages (3GLs and 4GLs); experience with databases and Query languages.

Secretary II 950538-R. Ophthalmology. Requirements: high school graduate or equivalent; three years secretarial experience, preferably in an academic setting; supervisory experience helpful; experience with word processing, Macintosh and Microsoft Word; typing 55 wpm.

Programmer Analyst I 950541-R. Ophthalmology. Requirements: bachelor's degree; experience using SAS; experience in research data management preferred; experience with IBM personal computer (DOS and Windows); ability to upload, download and manage disk files and directories.

Project Assistant 950542-R. Ophthalmology. Requirements: master's degree in public health or epidemiology; three years experience in academic coordinating center, managing clinical studies; experience with statistical and database programming, preferably SAS.

Secretary I 950633-R. Neurology. Schedule: part time, 20 hours per week, flexible. Requirements: high school graduate or equivalent, some college preferred; experience with library research using computers preferred; typing 50 wpm.

RN Staff Nurse 950668-R. Metabolism. Schedule: part time, 24 hours per week, 8 a.m.-5 p.m. Tuesdays, Wednesdays and Fri-

days; occasional weekends and early evenings. Requirements: graduate of an accredited school of nursing with current Missouri license; one year nursing experience and familiarity with clinical research. Duties: conduct and coordinate clinical research protocols.

Special Procedure Technologist 950669-R. Rheumatology. Schedule: part time, 12 hours per week, flexible. Requirements: associate's degree, radiation technician certification; one year experience in X-ray lab or technically related environment preferred.

Research Patient Coordinator/Professional 950681-R. Bone Marrow Transplant. Requirements: nursing degree; experience with data processing, medical records and Macintosh preferred. Duties: collect and enter data on computer system.

Secretary II 950738-R. Psychiatry. Schedule: part time, 20 hours per week; flexible hours between 8 a.m.-5 p.m.; will become full-time position. Requirements: high school graduate or equivalent; several years secretarial experience;

editing and WordPerfect skills; typing 60 wpm.

Statistical Data Analyst 950742-R. Biostatistics. Requirements: bachelor's degree, master's degree preferred; SAS experience with data analysis or data management. Duties include assisting investigators in the design of experiments, clinical trials and epidemiological studies.

Security Supervisor 950744-R. Security. Schedule: 6 p.m.-2 a.m. Requirements: associate's degree in business, management or law enforcement, bachelor's degree preferred; three years in security/law enforcement, hospital experience preferred.

User Support Specialist 950748-R. Medical Computing Services. Requirements: bachelor's degree in related discipline or equivalent technical training preferred; experience with DOS, Windows, MACROS and common office support software packages.

User Support Technician 950754-R. Washington University Shared Billing Collection Service. Require-

ments: associate's degree in relevant field or equivalent training; two to four years experience in medical business environment; billing, scheduling or management preferred; IDX experience.

Secretary/Receptionist 950768-R. Washington University Shared Billing Collection Service. Requirements: high school graduate or equivalent with two years related experience; familiarity with telephone console and computer systems; typing 50 wpm.

Statistical Data Analyst 950769-R. Biostatistics. Requirements: bachelor's degree, master's degree preferred; SAS experience with data analysis or data management. Duties include assisting investigators in the design of experiments, clinical trials and epidemiological studies.

Data Assistant 950796-R. Psychiatry. Schedule: part time, 20 hours per week, flexible hours between 8:30 a.m. and 5 p.m. Requirements: high school graduate or equivalent; some office experience preferred; experience with WordPerfect 6.0; typing 40 wpm.

Q&A

Addressing employee questions concerning the Washington University community

Q: I see they are renovating Mallinckrodt Center. I hear Washington University is planning a food court in some of the area. What kinds of restaurants or eateries will be available? When will it be completed?

A: Renovation of Mallinckrodt Center, which will include a new food court, improved dining services, a streamlined bookstore and more restroom facilities, is scheduled to be completed in the fall. The food court and a kitchen are being constructed at the former dining and food service area in the north end of the building's lower level. The food court will include vendors of deli sandwiches (Subway),

chicken (Chick-Fil-A) and Marriott-run Oriental, Mexican and pizza specialty food areas. The upper level, where the deli is located, will feature a bakery, gourmet coffee shop and Freshens, a vendor of frozen yogurt and ice cream. In addition, the food court area will have a salad bar and pick-up area with pre-packaged food, desserts and drinks. — **Richard A. Roloff, executive vice chancellor**

Submit questions about the University, which have broad appeal, to Q&A, c/o Susannah Webb, Campus Box 1070, or p72245sw@wuvmd.wustl.edu. Questions will be answered by the appropriate administrator. Though employee questions will appear anonymously in the Record, please submit your full name, department and phone number with your typed question. For information, call Webb at 935-6603.

Project establishes partnerships among social workers, teachers, parents and community — from page 1

more involved with their children's education?"

Both Janis and Richardt say that working together has allowed them to combine perspectives from social work and education and develop solutions. Strategies developed by Janis, Richardt and the teacher included inviting parents into the room as guest readers and sending home book bags so that parents can work one-on-one with their children to build reading skills.

"There is a broad array of experiments that are going on and we're looking to find those things that are really working," said Katherine Beyer, Ph.D., a clinical associate in education at Washington University. "The teachers at Clay school have jumped on board and opened their classrooms to our students and faculty. Our goal is to find new ways for the University, the school and the community to work with parents and teachers to improve educational opportunities."

This semester, nearly 30 students and six faculty from Washington University are taking part in various projects at Clay school. University faculty and students work closely with Clay school teachers and administrators to suggest new course content and explore innovative teaching techniques, including projects aimed at improving the teaching of science, math and reading.

Rindy Finch, a graduate education major, is working on a project designed

with a fourth-grade teacher. Now, when the teacher tackles math, science or other challenging subjects, she divides the class into smaller, more intimate groups of four or five students. University education majors are on hand to help these small groups work through classroom assignments.

"We're attempting to establish closer relationships with these students in order to address their needs, both academically and emotionally," Beyer said. "Last semester, we had education students working with 12 different teachers and classrooms. We're trying out new theories, observing and working with teachers to change courses to better suit the needs of students."

In an effort to improve communication and get useful information into the hands of the parents, social work graduate student Lanette Madison is working with the principal's office at Clay school to create a newsletter called "Parent Link" that provides information about what is going on at the school, Friedens Haus or in the neighborhood.

Other students are working with three first-grade teachers to develop a series of hands-on educational work stations in a classroom corner. University students man each station, working with individual first-graders on specific tasks, such as counting, sharing ideas about a book, or learning to identify letters and sight words.

Another team of University students worked with a kindergarten teacher to

develop an in-class science center where students can interact with live animals or conduct science experiments.

Abraham Lee, a first-year master of social work student, has developed a program to expose some of the Clay elementary students to international issues. Fourth- and fifth-grade students who join his "International Club" are treated to guest speakers and educational materials provided by the United Nations and other international sources.

Lee also is working with University faculty members and community groups to study factors contributing to high turnover rates in neighborhood rental units.

"We're looking for a new vision of how different professions — education and social work — can work together to improve the classroom process," said Marilyn Cohn, Ph.D., director of teacher education at Washington University.

"We hope this program will help develop teachers who are more successful in reaching students — particularly those in urban areas — because they have learned to make vital connections to families and the community," Cohn said. "At the same time, we hope to produce social workers who have a genuine understanding of problems that arise in the classroom and who can keep the classroom in mind when called upon to intervene in students' lives."

David Cronin, Ph.D., assistant social work dean and principal investigator on the Clay school demonstration project,

said that the partnership between education and social work already is having an influence on how social work is taught at the University. He notes that a new course developed this semester on public school social work was a direct result of interest generated by the Clay project.

"Our experiences at Clay school confirm that establishing partnerships among social workers, educators, community groups and parents is essential to improving the public school environment," Cronin said. "Each of these parties is key to the continued success of this program."

"Ultimately," Cohn said, "this project could produce a joint education and social work degree program and a new type of professional — a specialist who works simultaneously in the classroom and in social work areas."

Funds from the DeWitt Wallace-Reader's Digest Fund are being used primarily to provide scholarship assistance to graduate students participating in the program and to evaluate the program's effectiveness during the pilot phase. Washington University funds will support teaching, scholarship and research related to the program.

The DeWitt Wallace-Reader's Digest Fund is financing similar programs at other universities nationwide through a partnership with the National Center for Social Work and Education Collaboration at Fordham University in New York City.

— **Gerry Everding**