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Record

April 25, 2003

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Washington University in St. Louis



Dig in, it's delicious (From left) Owen Datsa, from Ghana, is served by Isabelle Dena and Eunice Muthengi, both from Kenya, at the international banquet that was part of the ninth annual George Warren Brown School of Social Work International Festival held recently in Brown Hall. In addition to the banquet, the event featured GWB international students offering a showcase of lively entertainment from their homelands. The theme for this year's festival was "Uniting Colors of the World."

Founders Week celebrates 150th

By Andy Clendennen

For about 75 years, the University Alumni Association has hosted the annual Founders Day celebration.

As part of this occasion, outstanding alumni, faculty and friends are honored for the important roles they have played in advancing the University.

In the 150th-anniversary year, this annual event will be greatly expanded to include a week of events for alumni, students, faculty, staff and community members.

Kicking off Founders Week will be a community open house from 11 a.m.-4 p.m. Sept. 14. This will be open to the entire St. Louis community, and events will include tours, exhibits, classes, demonstrations, performances and refreshments. More detailed

information will be made public as it becomes available.

That same day, the Saint Louis Symphony will perform at 7 p.m. in Brookings Quadrangle. This, too, is open to the entire community.

Student Life will be holding a 125th-anniversary reunion Sept. 12-14 at various places on the Hilltop Campus.

From 7-8:30 p.m. Sept. 16, Robert E. Hegel, Ph.D., professor of Asian and Near Eastern Languages and Literatures in Arts & Sciences, will deliver a lecture on "China in 1853: Bandits at Home and Foreigners on the Shores."

This is part of a free noncredit short course called "Remembering 1853: A Sesquicentennial Celebration of the Humanities," an introduction to the humanities

See **Week**, Page 5



Treasuring the Past
Shaping the Future

Study: Lack of exercise plays greater role in obesity, diabetes

Diet less of a factor in 'couch baboons,' researchers report

By Jim Dryden

It's not that the food you eat is unimportant, but when it comes to the risk of obesity and diabetes, food may be less important than exercise. That's the conclusion of studies by an international team of researchers involving baboons in Africa.

Investigators from Washington University and Saint Louis, Princeton and Stanford universities reported their findings in the March issue of the *Journal of Clinical Endocrinology and*

Metabolism.

The researchers and their colleagues have been studying the eating and exercise patterns of two groups of wild baboons in East Africa. Like most primates, one group has to wander and forage for food. The other group lives near a tourist lodge in Kenya; it gets most of its food from the garbage dump.

Some of the baboons near the dump have become obese, resistant to insulin and developed a condition comparable to diabetes in humans — just like some people who eat too much and exercise too little. They have a condition similar to a human disorder called Syndrome X. Human patients with the syndrome are obese and have diabetes, high cholesterol and high blood

pressure.

Obesity is rare in wild baboons, but it's not unheard of in captive animals. In their initial study on leptin levels in wild animals, the Saint Louis University team members analyzed blood samples from wild baboons captured in Ethiopia by Jane E. Phillips-Conroy, Ph.D., of Washington University and Cliff Jolly, Ph.D., of New York University.

When levels of leptin — a hormone that plays a role in obesity by affecting both appetite and

calorie burning — from the Ethiopian baboons were compared with leptin levels in captive baboons from a colony in San Antonio, Texas, the two groups showed dramatic differences.

That study demonstrated that being in captivity was a risk factor for obesity, but when trying to extrapolate the data to better understand the problem of obesity in humans, a major obstacle was finding a comparison group of contemporary people who live in wild, aboriginal conditions.

"The next best thing is to go to the primate record," said Phillips-Conroy, professor of anatomy in the School of Medicine and of anthropology in Arts & Sciences. "We share many features of biology and diet. This

See **Exercise**, Page 3



Phillips-Conroy

Children's learning to spell, read aided by pattern recognition, use

By Gerry Everding

Virtually every school child hears the "i before e" rhyme at least once as he or she struggles with spelling.

But according to child development psychologist and reading development expert Rebecca Treiman, the "i-e" rule is just the tip of the iceberg when it comes to spelling patterns found in the English language.

Research by Treiman and her University colleagues suggests

that teaching children to recognize and use these patterns may help them learn to spell and read more easily.

"The English writing system is often considered to be chaotic and hard to learn," said Treiman, Ph.D., the Burke & Elizabeth High Baker Professor in Child Developmental Psychology in Arts & Sciences. "Some believe the only way to learn it is to memorize."

"Our studies suggest that learning to spell in an alphabetic writing system is very much a linguistic process. Memorization plays some role — for example in learning about the 's' of 'island' — but there is much more to spelling than rote memory. From

See **Spelling**, Page 6



Treiman



Welcome mat Junior Lisa Gordon leads a tour of the Hilltop Campus during the University's April Welcome. The annual monthlong event usually brings in more than 1,000 prospective students and their parents for a taste of University life, and this year is no different. "April Welcome is going extraordinarily well this year," said Nanette Tarbouni, director of undergraduate admissions. "Our visitors are quickly discovering all of the great things about Washington University."

Career Center offers options in slow economy

By Neil Schoenherr

With today's slow economy, the U.S. job market is tough. Students graduating this spring with little or no work experience may find it especially difficult to land that first professional job.

But even if a graduating senior doesn't have a résumé together or has never been to an interview, it's not too late to pay a visit to The Career Center, said its director, Lea Luchetti.

"We start our students in the right direction early in their college careers by encouraging them to come into The Career Center and to start thinking about their job search early on," Luchetti said. "But even if a student hasn't had a chance to work with his or her university's career office, help is still available."

The core basics of any job search — having a good résumé, strong interviewing skills and thorough research — are the same no matter what the job market looks like. But to get a leg up on the competition, especially in tougher economic times, networking is the key, Luchetti said.

Making connections

According to a recent study by the National Association of Colleges and Employers, 75 percent of jobs and internships are found through networking and proactive job search methods, Luchetti said. "Networking can be fun

See **Careers**, Page 5

Diversity's importance reaffirmed by Wrighton

In this memo e-mailed to the University community April 24, Chancellor Mark S. Wrighton reaffirms the importance of diversity at Washington University in light of the current case before the U.S. Supreme Court.

The current Supreme Court consideration of affirmative action in higher education has naturally prompted some in the Washington University community to ask about our continuing commitment to the value of diversity in our programs. Our commitment to that value is deep and longstanding. Our programs to enhance diversity work well and are in keeping with the intent and spirit of our nation's laws.

Our experience as educators tells us that the diverse community comprising Washington University is simply one of our most vital assets. We are proud that our students are drawn from a multitude of backgrounds, from all 50 states and more than 100 countries and represent many races, ethnic groups, and intellectual interests. This stimulating mix is fundamental to the education and scholarly research that takes place here and is one we must work to sustain.

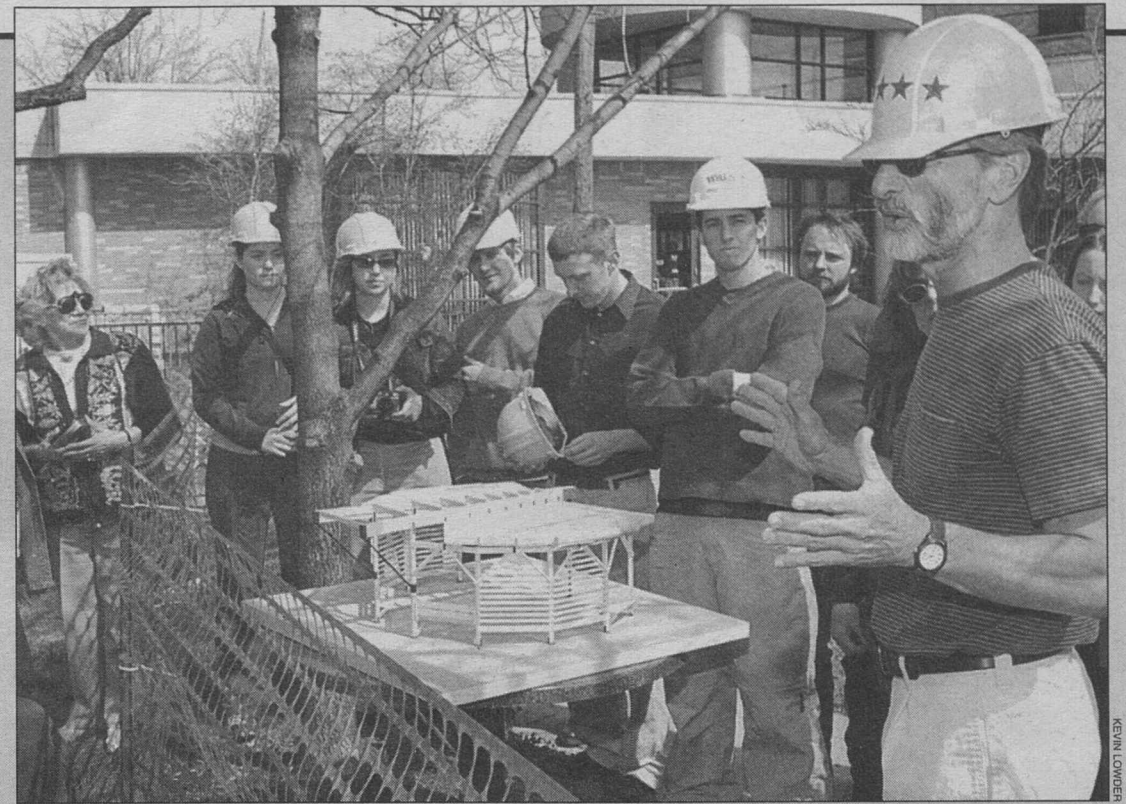
We are preparing students to live in a modern world where diversity in all its aspects is important to daily life and work. We believe that our students need to be equipped for living and work-

ing side by side with people who are not only from different parts of the nation and the world but are also from ethnic and racial groups unlike their own.

The university is one of the best possible places for this preparation to occur. In bringing together students, faculty, and staff representing different geographic origins, economic status, intellectual interests, genders, religions, nationalities, ethnicities, and cultural backgrounds, we create an environment in which students learn to understand, accommodate, and incorporate many and varied points of view, a crucial skill for citizens and leaders in the 21st century. We believe that whatever progress is to be made in solving the problems confronting our global society, we can be assured that well-educated people will be key, especially those who have had experience working with others from a variety of backgrounds and perspectives.

As an institution, we are committed to creating and sustaining the kind of community that will make possible these essential circumstances. We remain dedicated to fostering diversity because we think it is necessary to a well-rounded educational experience. We aim to reflect and benefit from this diversity in all endeavors where members of the University community come together.

Mark S. Wrighton



A Safe and relaxing place Thirteen students from the School of Architecture, led by professor Carl Safe (right), recently broke ground for a garden pavilion in the main courtyard of Crown Center, a retirement community located at 8350 Delcrest Drive in University City. Safe and the students are now building the 22-foot-wide by 9-foot-tall pavilion, which is scheduled for completion in early May. The project will provide residents with a shaded, relaxing setting while also giving young architects hands-on experience in all aspects of the construction process, from meetings with clients and designing proposals to fabricating metal joints and assembling beams.

Health benefits open enrollment starts May 1

Once again, it's time to review the University's health plan options.

Eligible faculty and staff have the opportunity every May to enroll, change or cancel their health or dental-only plans with no pre-existing condition exclusions. Changes made during this year's open enrollment will be effective from July 1, 2003, through June 30, 2004.

For fiscal year 2004, the same current health and dental only plans will be available; there will be no reduction in health bene-

fits and there will be no mandatory re-enrollment by all employees.

For those employees who wish to continue their current health or dental-only plan and coverage level, no enrollment action is required.

However, for those employees who wish to enroll, change or cancel their health plans, consider the following sources of information:

- The "Enrollment Checklist" section of the health open-enrollment brochure;

- The human resources Web site, hr.wustl.edu, for health-carrier sites and provider listings;

- Carrier Days May 6-8 to meet with plan representatives; and

- Benefits department employees.

During the last week of April, health open-enrollment brochures will be sent to the campus boxes of active employees and to the home addresses of retired and disabled employees. All employees are encouraged to read the information included in the brochure, especially two new sections — "What's New" and "Helpful Benefit Tips."

Employees should take a moment to review the University's six health plans and one dental-only plan to confirm that their current enrollment is appropriate.

For more information, contact your benefits office.

Parking permit prices to rise July 1

BY ANDY CLENDENNEN

The cost of University parking permits will increase slightly, effective July 1.

Some permits are limited to a specific number available, and those will be sold on a first-come, first-served basis.

Similar to last year, those persons with unpaid tickets must pay their fines prior to renewing their parking permit. Parking services implemented an invoice process this past year to remind permit holders of their outstanding fines.

Also as part of the

renewal process, green permit holders will have the option to purchase a rider on their permit for an upgrade to yellow during summer and other holiday break periods.

For more information, go online to parking.wustl.edu.

Parking permit fees

	FY03	FY04
Red	\$735	\$760
Yellow	\$335	\$345
Blue	\$335	\$345
Brown	\$335	\$345
Green	\$110	\$115
Off-site	\$75	\$80
Disabled	\$110	\$115
Student Summer	\$75	\$80
Official Business	\$325	\$335
Evening	\$75	\$80

Campus Watch

The following incidents were reported to University Police April 15-22. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

April 15

10:52 p.m. — A person observed two males carrying oak end tables across the Throop Drive overpass. The subjects stated they had found them. The tables are being held at the police department until they can be returned to their proper location.

April 19

2:14 p.m. — A student reported losing his cell phone in the parking lot of Mallinckrodt Student Center.

April 20

1:37 p.m. — A student stated that between 6-7:30 p.m. April 19, he was playing basketball and put his gold chain on the

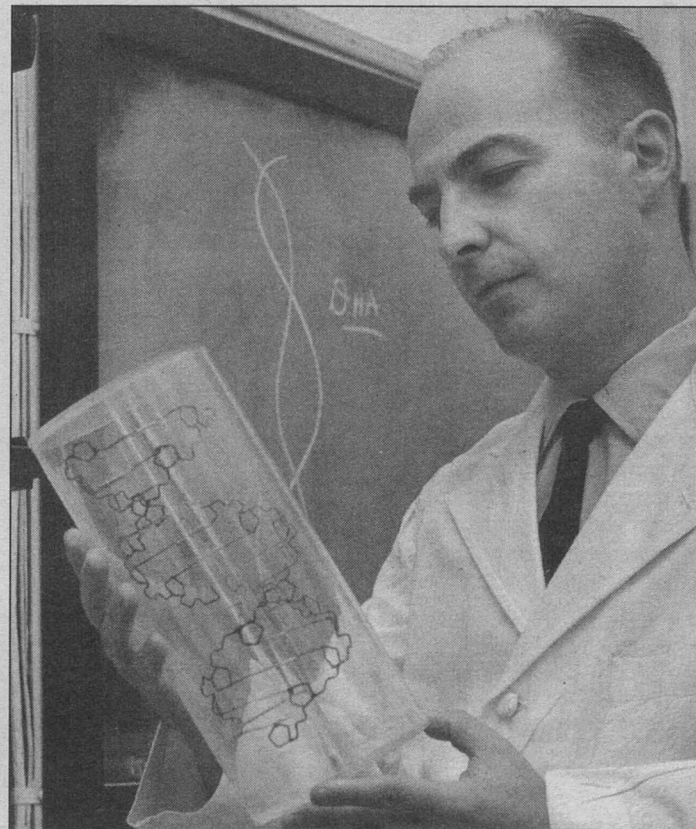
floor of the Athletic Complex Recreational Gymnasium. He left the gym, forgetting his chain. When he returned the next day at 12:10 p.m., the chain was missing.

April 21

12:03 p.m. — A purse and tote bag were reported missing from an office in Uncas A. Whittaker Hall for Biomedical Engineering. The office door was left unsecured. A search for the missing items turned up negative. Total loss is estimated at \$1,396.

Additionally, University Police responded to four reports of larceny, three reports of disturbance, two reports of parking violation and auto accident, and one report each of lost article and property damage.

PICTURING OUR PAST



In 1947, Arthur Kornberg served as research investigator in the Department of Biological Chemistry at the University with professors Carl and Gerty Cori, who won the Nobel Prize in medicine that year for their discovery of the course of the catalytic conversion of glycogen. Kornberg chaired the Department of Microbiology at the University from 1952-59, and shared the 1959 Nobel Prize in physiology or medicine with former WUSTL colleague Severo Ochoa for their work in the discovery of the mechanisms in the biological synthesis of deoxyribonucleic acid (DNA) and ribonucleic acid (RNA). The biological sciences have been among the University's great strengths, garnering 18 Nobel Prizes over the years. Examples of outstanding work in the sciences at the University include the first faithful *in vitro* eukaryotic gene transcription, the use of transgenic plants to combat viral diseases, and investigations into neural development and brain mapping.

Washington University will be celebrating its 150th anniversary in 2003-04. Special programs and events will be announced as the yearlong observance approaches.

Purchasing services to host two-day supplier fair

BY ANDY CLENDENNEN

Purchasing services is hosting the Preferred Supplier/Supplier Diversity Fair 2003.

The two-day event will be April 30 at the Eric P. Newman Education Center on the Medical Campus and May 1 at the Athletic Complex Field House. The fair runs from 10:30 a.m.-1:30 p.m. each day.

The event represents an opportunity for departmental personnel and others involved in purchasing decisions to meet and interact with some of the University's preferred contract suppliers, including several minority business enterprises.

This year's attendees can register to participate in one or more of several educational sessions that will be set up at each location relating to the themes of the exhibits that day.

Between 40-45 suppliers are scheduled to exhibit at each show.

For more information, call Gary Maus at 935-7052; or go to the purchasing Web site, purchasing.wustl.edu, for a complete rundown of the days' events.

School of Medicine Update



A rare find Bernard Becker, M.D. (right), professor emeritus of ophthalmology and visual sciences, signs a copy of the *Collection of Ophthalmology* — a catalog detailing the collection of ophthalmology books Becker donated to the library — for Sean Murphy, M.D., of Montreal at the 16th Annual Cogan Ophthalmic History Society Meeting. At the April 12-13 meeting, Becker showed guests a book exhibition in the reading room of Archives and Rare Books at the Bernard Becker Medical Library and gave a short talk about his collection. The two-day event, organized by George M. Bohigian, M.D., professor of clinical ophthalmology and visual sciences, also featured talks on topics such as the history of symbols and signs in medicine and ophthalmology, the impact of failing vision on the late works of Degas and the history of toxoplasmosis.

Mild-asthma study needs pediatric volunteers

BY DIANE DUKE WILLIAMS

Researchers in the School of Medicine need volunteers to participate in a national study to determine which medication should be used first to treat children with mild asthma.

The Pediatric Asthma Controller Trial will evaluate three popular medications (Singulair, the Advair Discus inhaler and the Flovent Discus inhaler) to find out how well they control mild asthma. The randomized study will determine

the percentage of days without asthma for each drug during the 12-month treatment period.

The multicenter study is funded by a \$25 million grant from the National Heart, Lung, and Blood Institute. Robert C. Strunk, M.D., the Donald Strominger Professor of Pediatrics, is the principal investigator of the St. Louis site.

To qualify for the study, children can be taking an asthma medicine (such as Singulair or Flovent) regularly or using only albuterol to combat their

symptoms.

Each child's progress will be monitored for one year through seven or eight visits that will include physical examinations and blood, breathing and allergy skin tests. They will also receive three follow-up phone calls.

Medical care received in the study and asthma medications are free. Patients will receive \$50 for each visit and \$15 for each phone call.

For more information, call 286-1173.

Diabetes Research and Training Center offers research funding

BY KIMBERLY LEYDIG

School of Medicine and Hilltop Campus faculty who research diabetes and endocrinology may apply for funding through the Diabetes Research and Training Center (DRTC) at the School of Medicine.

Applicants from the basic sciences, epidemiological and behavioral science departments

are particularly encouraged to apply for the funding, which begins Dec. 1.

Generally, the two-year grants will range from \$20,000-\$50,000 every year.

The DRTC pilot and feasibility program fosters projects required to develop preliminary data that may lead to independent research supported by the National Institutes of

Health, which awards three to four such projects to the University each year.

Letters of intent must be submitted to the DRTC by June 13; the proposal deadline is Aug. 15. Both letters and proposals should be sent to Vicky Nordike at Campus Box 8127.

For more information or to receive application forms, call 362-8290.

Pain management

Increase of opioids benefits some dying pediatric patients

BY KIMBERLY LEYDIG

School of Medicine researchers have found that terminally ill children with cancer who have neuropathic pain require more opioids during the final days of life than those without neuropathic pain.

In addition, the team found preliminary evidence that a "cocktail" of several narcotics was significantly more effective at treating these patients than dramatically increasing the dosage of two commonly used opioids — morphine and benzodiazepine.

The study appears in the April issue of the *Journal of Pediatrics*.

"Our results indicate that health-care providers should anticipate large, rapid dosage increases of opioids when caring for children with neuropathic pain during the end of their life," said study leader Michael DeBaun, M.D., assistant professor of pediatrics. "Conversely, patients without neuropathic pain often do not require such rapid dose increases and require attention to other comfort measures."

Cancer patients with neuropathic pain — persistent pain caused by damage to the peripheral or central nervous system — describe the pain symptoms as similar to an electric shock, stabbing or burning. In addition, these patients often show signs of paralysis and pain hypersensitivity.

The World Health Organization guidelines for cancer-pain management rely on orally delivered opioids as the primary medication for control-

ling cancer-related pain.

However, DeBaun said that approach fails to address the different causes of pain, which may require unique combinations of opioids and other narcotic agents.

In this retrospective study, DeBaun's team compared the amount of morphine and benzodiazepine given to 18 children (12 of whom had neuropathic pain) in the last three days of

life. The patients, ranging from 6 months to 19 years of age, were admitted between 1997 and 2000 to the BJC Pediatric Hospice program called "Wings."

Researchers found that the children with neuropathic pain required more than 300

times the dose of morphine and benzodiazepine than patients without neuropathic pain.

Moreover, they determined that even these levels of pain treatment were inadequate for relieving pain.

Based on these findings, DeBaun and his colleagues gave three other terminally ill children with neuropathic pain another opioid drug called methadone to see if it would decrease the high levels of morphine and benzodiazepine needed for effective pain relief.

When methadone was used instead of increased doses of morphine and benzodiazepine, children required significantly lower doses of the other two drugs.

"Further research is required to determine the benefits of starting with methadone to relieve pain in children with neuropathic pain," DeBaun said.



DeBaun

State of the School

William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, will present the State of the School of Medicine Address to faculty at 4 p.m. May 6 and again at noon May 14 at the Eric P. Newman Education Center.



Exercise

May matter more than diet for some — from Page 1

study illustrates the very productive marriage that can occur when biomedical scientists collaborate with field primatologists."

In the field, primatologists like Phillips-Conroy learn a lot about how baboons live. She regularly gathers biological data by capturing and tranquilizing animals to draw blood samples. She also observes behavior and often identifies the animal's mother and siblings.

In the new study, two baboon groups under study in Kenya for several decades by Princeton's Jeanne Altmann and her colleagues made up a natural experiment. One had an easy food source, but the other had to work for food.

"When compared to typical baboons, these just sort of rolled out of their trees in the morning,

sauntered over to the garbage dump and sat there waiting for food to arrive," Phillips-Conroy said.

That's not normal baboon behavior. Typically, they come down from trees in the morning and sit, groom and socialize. Then they spend the majority of their day walking from place to place, finding food. It's a very energy-intensive lifestyle that's a matter of necessity — a necessity that doesn't exist for the "couch baboons" near the garbage dump.

"Baboons and other primates take advantage of human-created situations of abundance," Altmann said. "The animals add these foods to their diets if they are in the territory they normally cover while looking for food, or they might shift their range to incorporate an abundant food source, somewhat like bears or deer in this country."

By incorporating the garbage dump into their range, the baboons increased their risk of obesity, and some got fat.

"Altmann's group previously found that more than a third of



International studies of "couch baboons" — ones that eat food from garbage dumps instead of foraging for food — reveal that lack of exercise plays a greater role than diet in obesity and diabetes.

the baboons that didn't have to work as much to get their food had indications of obesity, evidence of early diabetes caused by insulin resistance and elevated cholesterol levels," said lead author William A. Banks, M.D., professor of geriatrics and pharmacological and physiological science at Saint Louis University School of Medicine.

Originally, the researchers thought the obesity was caused by the high-fat content of some foods from the garbage dump: cake, porridge and other foods not normally part of a baboon's diet. But a closer look by Kenyan researcher Philip Muruthi, Ph.D., showed that the couch baboons actually were consuming about the same amount of

calories and fat as the other baboons in the study. The real problem was that the couch baboons weren't getting as much exercise as their wild brethren.

"Muruthi found that these baboons spent about a third to a quarter less time in food acquisition, which for baboons is what they spend most of their day doing," Phillips-Conroy said. "In foraging for food, a baboon might roam up to six miles every day, but the couch baboons only traveled 1-3 miles. They didn't have to move to get their food, and that seems to have been the critical thing."

But not all of them got fat. That suggests some of the baboons might have been at higher risk for obesity and diabetes than others.

"The implication for humans is that some people can get away with indiscretions such as not exercising and will gain a little weight without suffering these serious health consequences," Banks said. "Other people are going to balloon out and get sick with less provocation."

University Events

74th annual School of Art Fashion Show May 4

BY LIAM OTTEN

Art in Motion, the 74th annual School of Art Fashion Show, will take to the catwalk May 4 at Saint Louis Galleria.

The fully choreographed, Paris-style extravaganza features dozens of professional and volunteer models wearing more than 100 outfits created by the School of Art's 11 senior and nine junior fashion design majors.

Festivities begin with a 7:30 p.m. reception at the Galleria's Garden Court, near the entrance to Lord & Taylor. The hour-long show starts at 8 p.m., followed by a dessert reception for the designers and audience, during which many of the featured couture creations will be available for purchase.

Jeigh Singleton, head of the fashion design program, co-hosts the show with Debbie Alexander of WSSM 106.5 FM radio. He compared the event to a Broadway-style revue, filled with lights, music, drama and, of course, glittering, glamorous costumes.

"This is theater," he quipped. "We have dress groups inspired by architecture, sportswear inspired by jewels, ball gowns based on narratives. Everything is haute and spicy."

Singleton noted that a series of flamboyant opera coats, designed by the junior class, were inspired by "crazy color strategies — combinations that you don't usually see, things that really pop and sparkle. They unfold like gift wrappings: one color on the outside, another color on the inside, the present itself something differ-



A soft, pastel-blue organza skirt, paired with a corset of sand-washed silk twill, hand-beaded with freshwater pearls, from senior Laura Spillman's sportswear collection. The ensemble will be part of the 74th annual Fashion Show May 4 at Saint Louis Galleria. Modeled by Cara Ellis of the Raspberry Co. in front of Bixby Hall, home of the School of Art.

ent altogether."

The evening also highlights the seniors' signature collections, each a fully coordinated clothing line designed for a particular audience and based on a particular theme.

(Inspirations this year range from carousels and Greek goddesses to the paintings of Mark Rothko). And, in what has become a School of Art tradition, the Fashion Show finale will feature a single, stu-

dent-designed wedding dress, selected by competition.

The Fashion Show is chaired by 1976 alumna Susan Block and organized by a committee of volunteers. Clothing is chosen by a jury of professional designers, University faculty and leaders in the clothing industry.

Outstanding student designers receive a variety of scholarships, cash prizes and awards. Last year, more than 500 people attended the event.

The 74th Fashion Show marks the ninth year of collaboration between the University and Saint Louis Galleria. Singleton called the popular retail venue the "ideal site" for the annual showcase.

"The Galleria — along with show coordinator Jane Kairuz, Michael O'Keefe of Technical Productions and Gretchen Haffer-kamp of Premiere Rentals — has mastered the transformation of the Garden Court," Singleton said. "They are able to create a spectacular arena for showcasing fashion in a way that is unsurpassed in St. Louis."

For the 11th year, the models' hair will be done by Dominic Bertani of the Dominic Michael Salon, which also sponsors the Dominic Michael Silver Scissors Designer of the Year Award. The award, designed by nationally known goldsmith Roger Rimel, is presented to one outstanding senior at the end of the evening.

The models' makeup will be done by M*A*C.

"This really is a unique opportunity for young designers," Singleton said. "Having professional models show the work, having it

Fashion Show

Who: School of Art's Fashion Design Program

What: *Art in Motion*, the 74th annual Fashion Show

Where: The Garden Court, Saint Louis Galleria

When: May 4; reception at 7:30 p.m., show at 8 p.m.

Admission: \$50 for general seating, \$25 for students. Tickets are available through the Edison Theatre Box Office, 935-6543; at the Galleria Concierge Service Center; and at the door.

coordinated and accessorized by people who know the ropes — those are things students don't get at many other schools."

Equally important are the post-show "boutique sessions," at which students discuss their work with members of the audience.

"Teachers and classmates are very nice, but they don't shop," Singleton said. "When someone tries something on, examines the workmanship and says 'I have to have this,' that's not a grade, it's not a compliment, but for a designer, it's the ultimate validation."

General admission is \$50, \$25 for students. Tickets are available through the Edison Theatre Box Office, 935-6543, and at the Galleria Concierge Service Center. A limited number of tickets will be available at the door.

For more information, call the 24-hour fashion show hotline, 935-9090.

Terminal Illocity • Tennis Championships • Ballet Hispanico

"University Events" lists a portion of the activities taking place at Washington University April 25-May 8. Visit the Web for expanded calendars for the Hilltop Campus (wustl.edu/calendar) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibitions

Bachelor of Fine Arts Student Exhibition. Continues through May 16. Gallery of Art. 935-4523

Lectures

Friday, April 25

9:15 a.m. **Pediatric Grand Rounds.** Annual Ben Abelson Memorial Lecture. "Neuroblastoma: Biological Insights Into a Clinical Enigma." Garrett M. Brodeur, Audrey E. Evans Endowed Chair in Molecular Oncology, Children's Hospital of Philadelphia, U. of Penn. Clopton Aud., 4950 Children's Place. 454-6006.

Saturday, April 26

7:30 a.m.-noon. **Psychiatry Symposium.** "Antipsychotics: How They Work, How

They Fail, How to Fix Them." Cost: \$55 for physicians, \$35 for Allied Health Professionals. Eric P. Newman Education Center. 454-8276.

Monday, April 28

Noon. **Molecular Biology & Pharmacology Seminar.** "Synaptic Growth and Function: A Genetic Analysis." Aaron DiAntonio, asst. prof. of molecular biology & pharmacology. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Noon. **Neurology & Neurological Surgery Research Seminar.** Jim Galvin, asst. prof. of neurology & neurobiology. Maternity Bldg., Schwarz Aud. 362-7316.

4 p.m. **Immunology Research Seminar**

Series. "Cytokine Signaling and Immunoregulation." John O'Shea, National Inst. of Arthritis, Musculoskeletal & Skin Diseases, National Institutes of Health, Bethesda, Md. Eric P. Newman Education Center. 362-2763.

6 p.m. **Architecture Monday Night Lecture Series.** Sam Fox Arts Center Lecture. "Activist Criticism." Blair Kamin, architectural critic, *Chicago Tribune*. (5:30 p.m. reception, Givens Hall.) Steinberg Hall Aud. 935-6200.

Tuesday, April 29

Noon. **Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Metal Ions and Oxidative Stress in *Bacillus subtilis*." John Helman, prof. of microbiology, Cornell U. Cori Aud., 4565 McKinley Ave. 362-3692.

4 p.m. **Anesthesiology Research Seminar.** Xue Zhang, research assoc. in anesthesiology. Clinical Sciences Research Bldg., Rm. 5550. 362-8560.

Wednesday, April 30

4 p.m. **Biochemistry and Molecular Biophysics Seminar.** Carl & Gerty Cori Lecture. "Crystal Structure of the Ribosome, and Its Interactions With mRNA and tRNA." Harry F. Noller, prof. Center for Molecular Biology of RNA, U. of Calif., Santa Cruz. Moore Aud., 660 S. Euclid Ave. 362-0261.

Monday, May 5

Noon. **Molecular Biology & Pharmacology Seminar.** "Evolution of Lutropin to Chorionic Gonadotropin Generates a Specific Routing Signal for Apical Release in Vivo." Irving Boime, prof. of molecular biology & pharmacology and of obstetrics & gynecology. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

Tuesday, May 6

Noon. **Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Phylogenomics and the Benefits of Combining Evolutionary Reconstructions and Genome Analysis." Jonathan A. Eisen, asst. investigator of microbial genomics, Inst. for Genomic Research, Rockville, Md. Cori Aud., 4565 McKinley Ave. 362-3692.

Campus Store holding sale

The Campus Store in Mallinckrodt Student Center will be offering "Bargains on Bowles" from 10 a.m.-5 p.m. May 2 in Bowles Plaza. The sale will feature discounts of 25 percent to 90 percent on many items, including general books, clothing, gifts and supplies. For more information, call 935-5580.

Wednesday, May 7

4 p.m. **Biochemistry & Molecular Biophysics Seminar.** "Animal Operons: Processing of Multigene *C. elegans* Pre-mRNAs." Thomas Blumenthal, prof. and chair of biochemistry & molecular genetics, U. of Colo. Cori Aud., 4565 McKinley Ave. 362-0261.

Thursday, May 8

Noon. **Genetics Seminar Series.** "Dissecting Prostate Tumorigenesis Using Transcriptome Analysis." Jeffrey Milbrandt, prof. of pathology & immunology and of internal medicine. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

Music

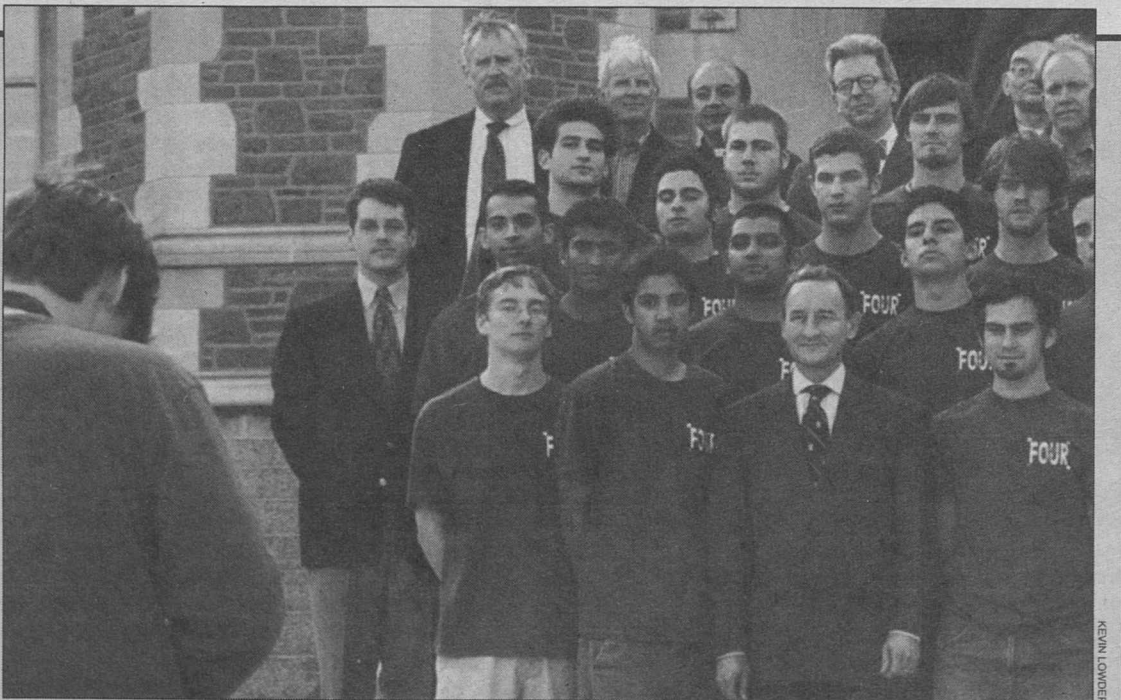
Sunday, April 27

2:30 p.m. **Concert.** Washington University Chorus. Eric Anthony, dir. Graham Chapel. 935-4841.

4 p.m. **Faculty Recital.** Silvan Iticovici, violin, and Peter Henderson, piano. Ridgley Hall, Holmes Lounge. 935-4841.

Monday, April 28

7 p.m. **Concert.** *Music of the Early 1960s.* Jazz combo. William Lenihan, dir. Tietjens Hall. 935-4841.



Standing strong University administrators — including Chancellor Mark S. Wrighton (front, second from right) — join members of the student group "One in Four" on the front steps of Brookings Hall April 18 to be photographed by Ryan Shea (left) for a poster to be called "We Stand Strong Against Rape." One in Four is an all-male peer-education organization created to educate undergraduate men about the issues of rape and sexual assault. The group's poster campaign is a central element toward creating increased awareness and dialogue in the campus community. The posters will be displayed around the University starting in August.

Architecture critic Kamin to speak

By LIAM OTTEN

Blair Kamin, Pulitzer Prize-winning architectural critic for the *Chicago Tribune*, will speak on "Activist Criticism" for the University's Sam Fox Arts Center Lecture at 6 p.m. April 28 in Steinberg Auditorium.

A reception will be held at 5:30 p.m. in Givens Hall. Kamin is the author of *Why Architecture Matters: Lessons From Chicago*, a critically acclaimed collection of his *Tribune* columns.

Paul Goldberger, architectural critic for *The New Yorker*, noted that, "It is fitting that (Kamin) writes from Chicago, where architecture has always been taken seriously, but his work transcends his own city and earns him a place among the major architecture critics of our time."

Born in Red Bank, N.J., Kamin

Lecture
Who: Blair Kamin, architecture critic, <i>Chicago Tribune</i>
What: Sam Fox Arts Center Lecture, "Activist Criticism"
Where: Steinberg Auditorium
When: 6 p.m. April 28
Admission: Free and open to public
A reception will be held at 5:30 p.m. in Givens Hall.
For more information, call 935-6200.

graduated from Amherst College in 1979 with a bachelor of arts degree and from Yale University's School of Architecture in 1984 with a master of environmental design degree. In 1999, he was a visiting fellow at the Franke Institute for the Humanities at the

University of Chicago.

After working as a reporter for *The Des Moines Register* from 1984-87, Kamin joined the *Tribune* as a reporter in 1987. He became the newspaper's architecture critic in 1992.

Kamin has lectured widely and has appeared on numerous radio and television programs, including ABC's *Nightline* and NBC *Nightly News*.

Kamin has received more than 20 professional awards. In addition to the Pulitzer Prize for criticism, these include the George Polk Award for criticism and the Institute Honor for Collaborative Achievement from the American Institute of Architects. He has twice served as a Pulitzer Prize juror.

The talk and reception are free and open to the public. For more information, call 935-6200.



A steady hand Renowned Japanese ceramicist Masayuki Miyajima recently led a daylong workshop on "The Traditions of Pottery" in the School of Art. A practitioner of the simple-yet-elegant Mashiko style, Miyajima, along with wife and fellow potter Darice Veri (left), spent several weeks in residence with the Visiting East Asian Professionals (VEAP) Program in Arts & Sciences. While in St. Louis, the pair also participated in a VEAP art history course, exhibited their work in the Gallery of Art's Teaching Gallery and lectured at the Saint Louis Art Museum.

Academic women's societies hold dinner

By ANDY CLENDENNEN

The Academic Women's Network from the Medical Campus and the Association of Women Faculty from the Hilltop Campus will hold their annual spring dinner April 30 at the Central Institute for the Deaf.

This year marks the first time the two groups have jointly held the dinner, which starts at 7 p.m. Cocktails and awards will be at 6 p.m.

The keynote address, scheduled for 8 p.m., will be given by Joan C. Williams, J.D., professor

of law and director of the Program on Gender, Work and Family at American University's Washington College of Law.

The topic of her presentation is "It's Just Not Working: Work/Family Conflict in Academic Careers."

Williams is the author of *Unbending Gender: Why Family and Work Conflict and What To Do About It* (1999).

She has also contributed chapters and articles to several other books, collective works and magazines, as well as having papers published in numerous

law reviews and other journals.

She has presented papers at Harvard, Yale, Columbia and Johns Hopkins universities and the University of Virginia, and at the annual conferences of the Organization of American Historians, the American Philosopher's Association, the Modern Language Association, the American Political Science Association and other conferences.

Cost for the dinner is \$25. For more information, e-mail Abby Hollander at hollander@kids.wustl.edu.

Careers

— from Page 1

and informal," she said. "It does not only occur at cocktail parties and specialized networking functions. You can network at a baseball game or even an ice cream stand. It is simply a matter of sharing your interests and goals with others. All sorts of connections can be developed through a simple, informal conversation."

"Think outside of the box about networking methods, strategies and venues. The goal is to get the word out to others that you are searching and give them specific information and concrete descriptions about the type of job or employer for which you are looking."

Since there are fewer jobs available now, students "have to shine even more than their competition," Luchetti said.

"You have to be sharper, smarter, more researched, more focused, better prepared and present yourself more effectively when the job market is tough," she says.

Luchetti has several tips on ways that graduating seniors can separate themselves from the job-hunting crowd:

- Engage in deliberate self-assessment to understand the types of industries and jobs that

would be the best fit for your skills.

- Research specific companies and organizations that would allow you to do that type of work. Use informational interviews as a way to make contacts and learn about how to succeed in the job search.

- Use a three-pronged approach to identifying viable jobs in that field — reviewing job listings, networking and prospecting.

- Remember that job-seekers who go the extra mile will be the most successful.

"Do your research," Luchetti said. "Don't come into an interview and expect the person conducting the interview to tell you what you should be doing with your life. Be prepared for the interview. Be focused and have your homework done."

Luchetti also suggested doing as many informational interviews as possible.

"Informational interviews are great because they allow you to learn more about an industry or specific organization and are a valuable networking tool," she said.

Getting a foot in the door

Another great option is an internship.

"Seniors can even do a post-graduation internship in the summer after their senior year," Luchetti said. "A lot of jobs are

found through internships because they are a cost-effective option for an employer to see what you are like as an employee. The advantage for the student is that when job opportunities become available, employers prefer to hire their own interns for full-time positions.

"Vault (online career information) reports indicate that more than one-third of all college graduates have internship experience and that upon graduation, students who have done internships secure jobs at twice the rate as those who have not."

The other thing Luchetti encourages recent graduates to do is volunteer.

"If you don't have a job and you can't get a post-graduation internship, volunteer at an organization where you might like to work," she says. "If you'd like to work at the art museum, for example, volunteer there. Get familiar with that organization and the people who work there."

"An advantage of volunteering is that you have the opportunity to find out what working at that organization is really like while gaining valuable work experience."

Finally, Luchetti said, be creative.

"In a tough market like this, you have to make yourself stand out," she said. "Be proactive and take ownership of your job search."

Tuesday, April 29

8 p.m. Concert. String Chamber Ensemble. Elizabeth Macdonald, dir. Gallery of Art. 935-4841.

8 p.m. Electronic Music Concert. *Fine Use of Machines.* Richard O'Donnell, dir. Tietjens Hall. 935-4841.

Wednesday, April 30

8 p.m. Electronic Music Concert. *J.W. Dundee Presents Terminal Illocity.* Tietjens Hall. 935-4841.

Friday, May 2

8 p.m. Washington University Opera. *Comparing Manons, Cincerellas and Figaros.* (Also May 3, 8 p.m.) Karl Umrath Hall Lounge. 935-4841.

On Stage

Saturday, April 26

5 p.m. Performing Arts Department Production. *Big Love* by Charles Mee. Andrea Urice, dir. (Also April 26, 9 p.m., April 27, 2 & 7 p.m.) Cost: \$12, \$8 for WUSTL faculty, staff & students. Tickets available at Edison Theatre Box Office. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Friday, April 25

8 p.m. OVATIONS! Ballet Hispanico. Co-presented by Dance St. Louis. (Also April 26, 8 p.m., and April 27, 2 p.m.) Cost: \$27, \$22 for seniors, students and WUSTL faculty and staff, \$13 for WUSTL students. Edison Theatre. 935-6543.

Sports

April 25-27

All Day. Men's & Women's Tennis University Athletic Association Championships. Tao Tennis Center and Dwight Davis Tennis Center in Forest Park. 935-4705.

Tuesday, April 29

2 p.m. Baseball vs. Webster U. Kelly Field. 935-4705.

Saturday, May 3

11 a.m. Softball vs. Webster U. WUSTL Field. 935-4705.

National Day of Prayer

An observance of the National Day of Prayer will be held at 12:10 p.m. May 1 at the top of the Brookings Hall steps. People of all faiths are welcome. The Rev. Gary Braun, director of the University's Catholic Student Center, will lead the observance, which will last approximately 20 minutes.

And more...

Friday, April 25

4-6 p.m. University Libraries Open House. Kranzberg Illustrated Book Studio. West Campus Conference Center, Lower Lvl. 935-5418.

Wednesday, April 30

10:30 a.m.-1:30 p.m. Preferred Supplier/Supplier Diversity Fair. Presented by purchasing services. (Also May 1, 10:30 a.m.-1:30 p.m., Athletic Complex Field House.) Eric P. Newman Education Center. 935-7052.

Sunday, May 4

8 p.m. School of Art Fashion Show. *Art in Motion.* (7:30 p.m. reception.) Cost: \$50, \$25 for students. Saint Louis Galleria Garden Court. 935-9090.

Week

— from Page 1

from a global perspective and through the lens of 1853, the founding year of the University.

On Sept. 17, three-time Pulitzer Prize-winning columnist Thomas Friedman of *The New York Times* will give the inaugural Assembly Series sesquicentennial lecture as part of Arts & Sciences' "Conversations" series. The lecture will be from 11 a.m.-noon in the Athletic Complex Field House. The Conversations series will

comprise discussions intended to provide a forum for reflection on issues that will affect the future of the University, the community and the world.

From 2-3 p.m. that day, Friedman will join a panel moderated by James V. Wertsch, Ph.D., the Marshall S. Snow Professor in Arts & Sciences. Also part of the Conversations series, the panel will discuss "What Kind of International Borders Will Exist in the 21st Century?"

Joining the panel will be Seyla Benhabib, the Eugene Meyer Professor of Political Science and Philosophy at Yale

University; Bruce Blair, president of the Center for Defense Information; Leila N. Sadat, J.D., professor of law and member of the U.S. Commission on International Religious Freedom; and Satadru Sen, Ph.D., assistant professor of history in Arts & Sciences.

The annual Founders Day celebration at America's Center will close out the week. Although the name of the keynote speaker was not yet available for release at press time, past addresses have been delivered by President George H.W. Bush, Margaret Thatcher, Dave Barry, Tom Brokaw and

Colin Powell.

In keeping with tradition, the Founders Day ceremony will include the presentation of the Distinguished Faculty Awards, the Distinguished Alumni Awards and the Board of Trustees' Robert S. Brookings Award. The latter award is presented to individuals exemplifying the alliance between the University and its community.

For more information on Founders Week or to see other events for the sesquicentennial celebration, go online to 150.wustl.edu and click on the "Calendar of Events" link.

Spelling

Researchers wish 'to state the case for English spelling' — from Page 1

an early age, children appreciate that spellings are maps of words' linguistic structures and they create spellings that reflect their knowledge of linguistic form."

In a perfect world, the best writing system for a language would be an alphabet that always spells a particular sound in only one way. Any person who knew this one-to-one mapping system of sound-letter correspondences could do a credible job of spelling out dictated words or pronouncing written text.

English, however — with words like "tough," "though," "through" and "bough" — has earned a worldwide reputation as hopelessly irregular and difficult.

While G.B. Shaw once described English as a language that "can't be spelt," Treiman prefers to think of it as a language with structures and goals that are all-too-often misunderstood.

In a forthcoming article in the journal *Reading Psychology*, she and colleague Brett Kessler, Ph.D., research scientist in psychology, contend that English spellings are actually fairly consistent and predictable as long as various rules and patterns are recognized.

Titled "Is English Spelling Chaotic?"

Misconceptions Concerning Its Irregularity," the article is based on a careful analysis of phonemes — the smallest unit of speech that distinguishes one utterance from another.

Treiman and Kessler have found, for instance, that a word is often spelled with an "ea" when the short "e" sound is followed by "d" ("head," for example). But when the final sound is "m," the "ea" spelling is never used.

Another example is that words tend to be spelled with two consonants when the vowel is spelled with a single letter (i.e., shall, class, doll, bell, dress); and a shorter spelling when the vowel is spelled with more than one letter (i.e. jail, goose).

"While these patterns are not 100 percent accurate, they could aid in spelling and reading," Treiman said. "This is something that could actually be taught. By getting a better idea of spelling patterns, English would not seem so chaotic."

"Right now, teachers have a system that doesn't make sense. So they give kids 10 words to memorize."

Deciphering spelling patterns

While some spelling patterns uncovered in the study might seem complex and difficult to apply to real-world spelling challenges, research confirms that many of these patterns have become internalized and routinely used by adult spellers. For instance, English spellers expect to see double consonants at the end of a word (class, bell), but most would be startled by double consonants at the beginning of a word (cclass, bbell), a pattern never seen in English.

In their research, Treiman and Kessler focus not only on deciphering these spelling patterns, but also on how well children of various ages are able to recognize and use them to improve their spelling and reading skills. In this study, a survey of first-grade text vocabulary

showed that spelling consistency is increased significantly when young students take into account the position of the phoneme within the syllable and the identity of the phonemes in the environment.

In other words, environmental clues play an important role in helping students recognize that certain vowel sounds are spelled in certain ways when they come before or after certain consonants. For example, the long "eye" sound is usually spelled "igh" in words that end in "t" (night, right, light).

"Our studies show that young students already have begun to recognize and apply these patterns in their approach to reading, spelling and writing," Treiman said. "When these patterns are taken into account, it turns out that sound-to-letter correspondences in English are not as inconsistent as widely believed."

While one-to-one sound-letter correspondences have obvious advantages, Treiman suggested that divergences from this simple mapping system have evolved in English writing for a number of valid reasons —

bring their own benefits to the system.

For instance, once the spelling of a word becomes popular, we tend to stick with that spelling, regardless of how the pronunciation of the word changes over time or across dialects. This principle of "conservatism" serves the purpose of keeping English spellings consistent, no matter how differently a word is pronounced in

England, Scotland, Ireland or America.

Similarly, words borrowed from non-English languages often retain spelling from their original language, a principle that provides new readers of the word with important clues as to its origin and meaning.

"In this paper we wish to state the case for English spelling," Treiman and Kessler write. "We do not want to claim that the English writing system is ideal, nor do we wish to gloss over the real challenges it poses for children."

"But it is important to understand the nature of English spelling, and it is seriously misunderstood. English spelling is by no means irrational or pathological, but serves several goals other than that of a one-to-one phoneme-letter correspondence that critics have imposed on it."

Treiman's research on children's understanding of language and phonology has been supported through grants from the National Institutes of Health and Human Development, the National Science Foundation, the Spencer Foundation and the March of Dimes Birth Defects Research Foundation.

In addition to spelling patterns, she has studied the linguistic bases of spelling errors in typical and dyslexic children, as well as the methods children use in learning to connect print and speech.

Planned research includes a study of the possible benefits to spelling of early cochlear implants (found to enhance speech production and language) in deaf children by working with St. Louis-area schools that emphasize oral communication rather than sign language.

"This is a very interesting area of research," Treiman said. "It's really theoretical but with practical applications. Some of the things that we're studying can be incorporated into teaching methods."

"We do not want to claim that the English writing system is ideal, nor do we wish to gloss over the real challenges it poses for children. But it is important to understand the nature of English spelling, and it is seriously misunderstood."

REBECCA TREIMAN,
BRETT KESSLER

Sports

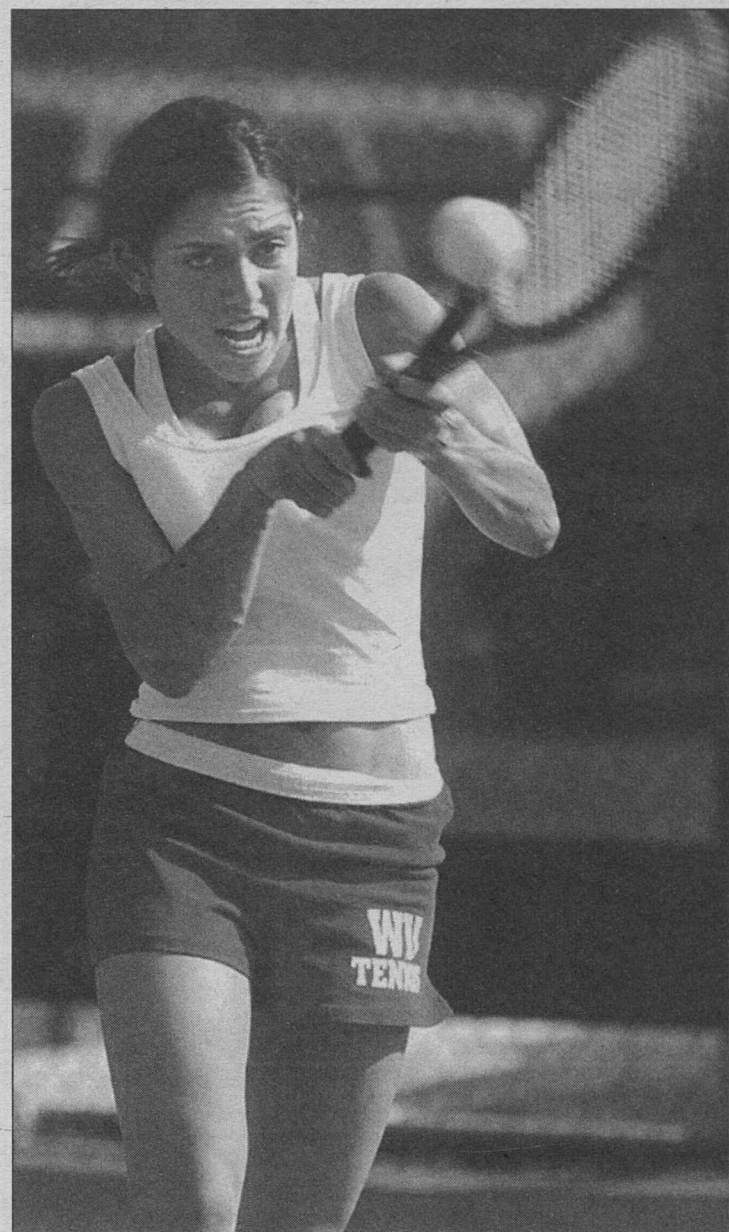
Track and field shines at Kansas Relays

The track and field team showed its ability to line up with top-level competition and perform as the Bears recorded three top-seven finishes at the Kansas Relays in Lawrence, Kan., April 19-20. Sophomore Maggie Grabow, continuing her strong 2003 outdoor campaign, placed fourth in the 5,000 with a personal record and NCAA-qualifying time of 17:42.24. Senior All-American Elizabeth Stoll, building on her NCAA-leading 1.72 meter high jump performance from a week ago, cleared 1.65 meters in wet conditions to place seventh. Stoll's competition included some of the best high jumpers from the region as she beat no fewer than 10 Division I competitors. The 4x400 meter relay team of Katelin Gruber, Hallie Hutchens, Andrea Moreland and Valerie Lasko ran 3:58.01 to record its fastest time of the year. The Bears also traveled to the Millikin Classic in Decatur, Ill., April 19. Senior Todd Bjerkaas continued his improbable long jump comeback as he leapt 6.86 meters for second place. Bjerkaas was sidelined for most of the indoor season with a broken left foot, suffered at the indoor season opener at Eastern Illinois University.

Other updates

The **baseball** team dropped two of three last week, despite several strong individual performances. WUSTL took on Illinois Wesleyan April 17 in Bloomington, Ill. Damien Janet threw another gem, allowing just one earned run in 8 2/3 innings, but a bad-hop single scored the winning run in the bottom of the ninth as the host Titans recorded a 2-1 win. The Bears rebounded with a convincing 9-1 win at DePauw University in the first half of a doubleheader April 20 as Steve Schmidt improved to 5-0. Ryan Argo went 4 for 5 and Joe Kelly was 2 for 2 with three RBIs as the Bears scored seven times in the sixth. It was over quickly in Game 2 as the first six DePauw batters crossed the plate in a nine-run first inning en route to a 13-6 win.

The **women's tennis** team improved to 13-3 with an 8-1 win over Principia College April 15. Junior Laura Greenberg picked up career win No. 100 as she and Sara Kabakoff won 8-0 at third doubles. Greenberg, now 101-11 in her career, also added a 6-0, 6-0 win at third singles. Other singles winners included Lauren



Sophomore Kacie Cook volleys in practice earlier this year. Cook recently picked up her 19th win for the Bears, who are ranked No. 9 in the country heading into today's University Athletic Association tournament.

University to host UAA tennis tournament

The Bears will host the University Athletic Association men's and women's tennis championships today through April 27. The matches start at 9 a.m. each day and will be played at both Tao Tennis Center and the Dwight Davis Tennis Center in Forest Park.

Zwick, Steph Cook, Jen Kivitz, Kabakoff and Meera Damle. Kivitz and Zwick also added a win at No. 2 doubles.

The No. 25 **softball** team set a school record with 26 wins as the Bears posted a two-game sweep over Maryville University April 18 at WUSTL Field. Victoria Ramsey improved to 12-2 as she pitched the Bears to a 2-1 win in Game 1. Dionna Little was 2 for 4 with an RBI while Jackie Burgdorf was 2 for 3 with two runs. In Game 2, the Bears jumped on the Saints early as they scored two runs in the first and five in the second en route to a 9-1 victory. Liz Smith improved to 6-0 for the

Bears, who extended their winning streak to eight games.

The No. 7 **men's tennis** team defeated Vincennes University, 6-1, in an exhibition match April 17 at the Tao Tennis Center. WUSTL swept the doubles point as Neil Kenner and Ari Rosenthal won at No. 1 (8-6), Max Schlather and Shaul Yecheskel won at No. 2 (8-2) and Brian Alvo and Zack Fayne posted a 9-8 (7-5) win at No. 3 doubles. In singles, WUSTL won five of six matches as Kenner, Schlather, David Genovese, Rosenthal and Fayne each posted wins.

Employment

Go online to hr.wustl.edu (Hilltop Campus) or medicine.wustl.edu/wumshr (Medical Campus) to obtain complete job descriptions.

Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to hr.wustl.edu. For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

Senior Medical Sciences Writer 010108
General Lab Asst. Part Time 020237
Physical Therapist 030064
Registered Nurse 030079
Health Services Physician 030099

Zone Manager 030137
DNA Sequencing Lab Technician 030197
Assoc. General Counsel 030198
Assoc. Dir. of Capital Projects 030203
WCRC Receptionist/Admin. Asst. 030208
Accounts Payable Coord. 030212
Residential College Dir. 030214
Treasury Analyst 030215
Deputy Police Officer 030217
Assoc. Dir. J.B. Ervin Scholars Program 030220
Dir., Student Health & Counseling Service 030222

Asst./Assoc. Dean for Graduate Programs 030227
Dir. of Development, School of Architecture 030231
Operations Manager 030239
Department Secretary 030242
Debt Service Accountant 030246
Accounting-Library Technical Asst. 030248
Department Secretary 030250
Regional Director of Development 030252
Senior Contract Management Liaison 030256
Transcript Coord. 030258
Undergraduate Marketing Specialist 030259

Assoc. Dir. of Foundation Relations 030262
Medical Campus
This is a partial list of positions in the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit résumés to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.
Patient Billing Services Rep. I 031093
Professional Rater II 031329

Research Technician I 031337
Patient Service Rep. 031351
Patient Service Rep. 031352
Data Asst. 031354
RN-Research Patient Coord. 031357
Manager, Technical Services 031358
Professional Rater I 031359
RN-Research Patient Coord. 031360
Research Technician II 031361
Coordinator Medical Coding 031362
Custodian 031363
Custodian 031364

Custodian 031365
Communications Officer 030366
Medical Asst. I 031368
Animal Care Technician I 031369
Patient Billing Services Rep. II 031370
Animal Care Technician I 031372
Professional Rater I 031374
Sr. Research Technician I 031375
Lead—Facilities 031376
Sr. Research Technician 031377
Research Asst. 031378
Medical Secretary II 031379

Notables

Olin School honors four alums, one business

BY ROBERT BATTERSON

The Olin School of Business honored four alumni and a St. Louis-based business at its 17th annual Distinguished Alumni Dinner recently at The Ritz-Carlton, St. Louis.

Olin School Dean Stuart I. Greenbaum, Ph.D., announced the honorees: alums F. Roger Dierberg, Theodore R.P. Martin, Ja Song and Norman J. Tice.

Anheuser-Busch Cos. Inc. received the Dean's Medal, awarded for exceptional dedication and service to the school.

Dierberg, vice chairman of Dierbergs Markets, earned a master of business administration degree in 1962. The business was founded near St. Louis by his grandfather in 1864 and has remained in the family for four generations.

While completing an M.B.A., he pursued a successful career as an engineer at McDonnell-Douglas — working at night — for five years. He credits his education from the Olin School as the foundation for the rest of his life.

In 1969, he joined his brother Bob in the family business. Today, the company has 19 locations in the St. Louis area and opened its first Illinois store this month.

Dierbergs is among the largest privately held companies in St. Louis and one of the top florists in the nation.

Martin is chairman emeritus of Colliers, Turley, Martin, Tucker — the dominant commercial real estate service firm in the central United States.

He earned a bachelor of sci-

ence in business administration degree (B.S.B.A.) in 1949 and has been a leading figure in St. Louis real estate for 40 years. After following his father into the real estate business in 1950, he became a vice president of Stifel Realty before launching Martin and Associates in 1957.

In 1972, his company merged with the Turley Corp. and Westgate Management to become the biggest commercial and industrial real estate firm in the metropolitan area. He pioneered an in-house research division, which today is widely considered the leading source of information on real estate trends and properties in the Midwest.

Song is chief executive officer of Daekyo Co. Ltd. in Seoul, South Korea, that country's leading educational information service provider.

He earned an M.B.A. in 1967 and was one of 15 students who first participated in an exchange program with the Olin School and Yonsei and Korea universities in 1958. He taught at the University of Connecticut, then returned to Korea's Yonsei University in 1976 as a professor, and later became business school dean.

In 1992, he was named president of Yonsei University. Along with Washington University Chancellor Mark S. Wrighton, he announced a student exchange agreement between Yonsei and the University in 1997.

He is a member of WUSTL's International Advisory Council for Asia. He became president of Myong Ji University in 1997 and was named minister of education for South Korea in 2000.

Tice retired as chairman of two Boatmen's Bancshares affiliates in 1969 and as chairman of the board of MasterCard International.

He earned a B.S.B.A. in 1987 and is one of the pioneers of the credit card industry. His career began with Boatmen's upon graduation from the University.

In 1969, he was named president of City Bank of St. Louis, which was acquired by Charter Bancshares in 1983. In 1985, a merger with Boatmen's brought Tice full circle.

As chairman of Boatmen's Credit Card Bank, he was responsible for all credit card products and their delivery systems for Boatmen's. He has been a dedicated supporter of the George Warren Brown School of Social Work for more than 20 years and serves on its national council.

Anheuser-Busch has played a key role in the Olin School's transformation into one of the country's leading centers of business education.

In 1989, the Anheuser-Busch Foundation established the August A. Busch Jr. Distinguished Professorship of Managerial Economics and Strategy, currently held by Jeroen Swinkels, Ph.D. A decade later, the foundation made a major gift to support executive education at the Charles F. Knight Executive Education Center.

In 2002, the Anheuser-Busch Foundation became one of two founding sponsors of the Olin School's executive master of business administration program with Fudan University of Shanghai, China.



Going above and beyond Gavin Foster, Ph.D. (left), instructional technology specialist in the computing center and lecturer in English, both in Arts & Sciences, visits with freshman Aaron Mertz after the ArtSci Council's 2002-03 Faculty Awards Recognition Ceremony recently in Holmes Lounge. Each year, all Arts & Sciences undergraduates are asked to nominate a professor or teaching assistant who has "gone above and beyond what is expected to make (their) experience at Washington University meaningful." The committee of six ArtSci Council students chooses the 10 awardees. Other winners were Deanna M. Barch, Ph.D., assistant professor of psychology; Joan Brockmann, Ph.D., lecturer in English; Sarah C.R. Elgin, Ph.D., professor of biology; Jack Knight, Ph.D., professor and chair of political science; Christine Knoblauch-O'Neal, senior artist in residence in the Performing Arts Department; Lesley McCullough, teaching assistant in computing and political science; Judy Zhijun Mu, Ph.D., lecturer in Asian and Near Eastern languages and literatures; Kerry Mulvaney, PAD artist-in-residence; and John V. Nye, Ph.D., associate professor of economics.

Campus Composers

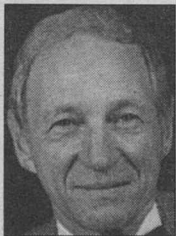
Harold Blumenfeld, professor emeritus of music in Arts & Sciences

Borgia Infami

The New York City Opera will debut Harold Blumenfeld's recently completed *Borgia Infami* as part of its VOX 2003 showcase of new operatic works by American composers.

The performance will take place at 11 a.m. May 7 at the Church of St. Paul and St. Andrew, located at Central Park West and 86th Street in Manhattan. A panel discussion will follow.

Blumenfeld, professor emeritus of music in Arts & Sciences, began *Borgia Infami* during a 1998 residency at the Bogliasco Foundation's Centro Studi Ligure, near Genoa, Italy, and completed work in St. Louis in 2002.



Blumenfeld

The libretto is by frequent collaborator Charles Kondek.

Written for nine lead singers, choruses and orchestra, *Borgia Infami* depicts the lives, loves and crimes of the corrupt yet brilliant Borgia clan, perhaps the most notorious family of the Italian Renaissance. The story opens in 1492 with the coronation of patriarch Rodrigo as Pope Alexander VI, but also focuses on his son Cesare, whose ruthless pursuit of power was immortalized in the writings of Machiavelli, and daughter Lucrezia, duchess of Ferrara and alleged poisoner of the family's enemies.

"*Borgia Infami* is a singers' opera," Blumenfeld said. "Arias emerge, duets, trios, a sextet. There are scenes of violence and

mayhem; scenes of impassioned filial love; street urchins and irreverent comic relief; and moments of transparent, wistful simplicity.

"In the opening scene, a vast fresco of the coronation of Rodrigo Borgia as pope comes alive, and the opera is launched."

Borgia Infami is based on two sources: *The Incredible Borgias* (1928) by German novelist Klabund (aka Alfred Henschke) and Victor Hugo's ultra-operatic drama *Lucrece Borgia* (1833). Klabund's account was drawn from the records of the Borgias' court recorder, Johann Burchard; *Lucrece Borgia* previously served as the basis for an opera by Gaetano Donizetti.

— Liam Otten

Komen Race for the Cure co-sponsored by Alvin J. Siteman Cancer Center

BY KIMBERLY LEYDIG

The Alvin J. Siteman Cancer Center at the School of Medicine and Barnes-Jewish Hospital is co-sponsoring the Komen St. Louis Race for the Cure June 14. And that means an array of benefits for University staff and students (and their families and friends) who register as members of the Siteman Race Team by noon May 27.

If you register as a Siteman Race Team member, you'll receive lots of perks such as a Race Team T-shirt, the Komen race packet and a discounted \$16 registration fee.

You will also automatically be registered for prizes, including two round-trip Delta Air Lines

tickets; a one-year membership to the BJC WellAware Center; American Express, AMC Theatres and Applebee's gift certificates; and a spa package.

The Komen race — a 5K run and 1-mile walk — raises funds for local and national breast cancer initiatives, with the majority of the money benefiting breast cancer education screening and treatment efforts in St. Louis.

Registration will be held at the Medical Campus the week of April 28 from 11 a.m.-1 p.m. at various locations. To register online, visit stlouisraceforthe-cure.org and select Siteman Cancer Center team option No. 721.

For more information, call 454-5059 or e-mail mar5929@bjc.org.

For the Record

Daniel R. Fuhrmann, Ph.D., associate professor of electrical engineering, has received a one-year, \$150,001 grant from the Air Force Research Laboratory for research titled "Active-Testing Surveillance for Ground Moving Target Detection With Precise Geolocation." ...

Judith Aberg, M.D., assistant professor of medicine, has received a two-year, \$35,000 grant from the HIV/AIDS Bureau of the Department of Health and Human Services for

research titled "HIV Capacity Building Grants." ...

John Rohrbaugh, M.D., associate professor of psychiatry, has received a one-year, \$299,969 grant from the Department of the Army for research titled "Psychophysiological Detection of Deception Research." ...

Charles M. Hohenberg, Ph.D., professor of physics in Arts & Sciences, has received a three-year, \$729,000 grant from the National Aeronautics and Space Administration for

research titled "Lunar and Planetary Surface Dynamics and Early History." He has also received a three-year, \$614,061 grant from NASA for a "Super-Gnome II: Multiple-Multiplier Noble Gas Mass Spectrometer."

Correction

April 18 issue, Page 1: An incorrect date was published. The University's 143rd Commencement will be held May 21, 2004. The *Record* regrets the error.

Record

Washington University community news

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Washington People

Regina Frey is doing exactly what she wants to be doing — working with faculty and teaching students.

"It's been a wonderful experience so far. I really enjoy what I do," says Frey, Ph.D., senior lecturer in chemistry and assistant dean in Arts & Sciences and director of the Teaching Center.

Frey is passionate about her duties on campus and divides her time equally between the Teaching Center and chemistry classes.

She was initially hired to help improve the educational aspect of the general chemistry lecture series — to add more of an educational experience for the students. But after being named associate director of the Teaching Center in 2001, she found an immediate outlet for her marketing and people skills.

Besides teaching courses in general chemistry, Frey helped design the Department of Chemistry Web page, www.chemistry.wustl.edu. The site is integral to her courses, as it includes syllabuses, problem sets, quiz solu-

tions and announcements.

One of her goals in designing the site was to include more visualization for the general lecture series to help students grasp the chemical concepts.

"Shape is very important in chemistry," she says. "For example, for drugs to work, the molecules have to fit perfectly into the active site. Students need to be able to visualize molecules in 3-D to fully understand them. But traditionally molecular diagrams have been shown in 2-D."

When Frey came to the University, one of her first tasks was to begin designing those 3-D images, many of which are in full color on the chemistry Web site.

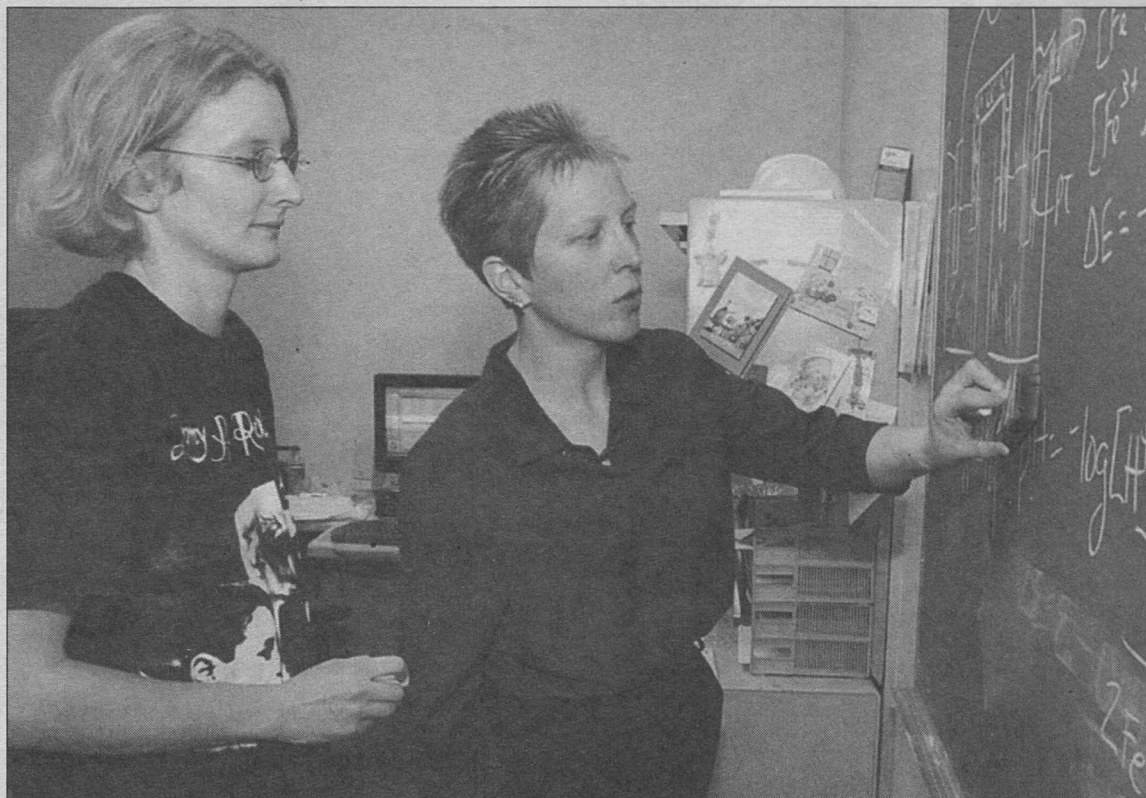
Frey's other mission has been to make chemistry more accessible and relevant to all students.

"In general chemistry, many of the students are in pre-medicine or engineering and aren't necessarily going to be chemists," Frey says. "But they need to take chemistry because it's important to their fields of interest."

"The traditional way chemistry is taught makes it difficult for students to see where they will use chemistry in their future careers."

With Arts & Sciences collaborators J. Dewey Holten, Ph.D., professor of chemistry, former undergraduate student Rachel Casidy and undergraduate chemistry lab supervisor Michelle Gilbertson, Frey began to work on a series of interdisciplinary Web-based tutorials to show the relevance of chemistry.

"Examples of tutorials include describing the dialysis process in the kidneys or the chemical processes involved in vision," she



Regina Frey, Ph.D. (right), senior lecturer in chemistry and assistant dean in Arts & Sciences and director of the Teaching Center, discusses chemical equations with Carolyn Jones Otten, a doctoral candidate in chemistry.

By NEIL SCHOENHERR

'Enthusiastic, energetic multitasking'

Regina Frey 'sets an example for us all' in her numerous roles at the University

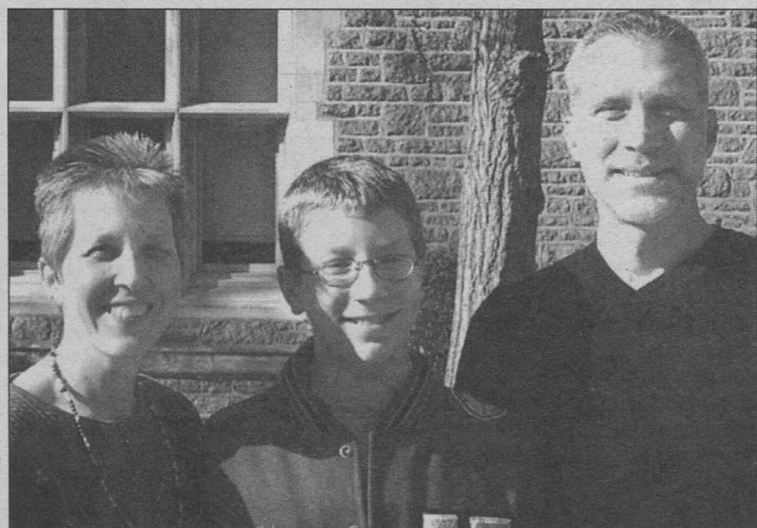
Regina Frey, Ph.D.

University title: Senior lecturer in chemistry and assistant dean in Arts & Sciences and director of the Teaching Center

Hobbies: Cooking, reading and running

Years at the University: 9

"The great thing about what I'm doing is that I get to interact with people from all of the schools at the University," Frey says. "It's amazing how my teaching has grown and improved just by listening to what other faculty members want to do in their classes."



Regina Frey is married to William E. Buhro, Ph.D., professor of chemistry in Arts & Sciences. The couple's 12-year-old son, Walter, is an avid football player.

says. "The idea is that students will start to see that the concepts they are learning in chemistry class really are important, no matter what field they might eventually enter."

Joseph J.H. Ackerman, Ph.D., chemistry chair and the William Greenleaf Eliot Professor, says, "The chemistry department considers itself extremely fortunate to

Frey says. "Faculty members often come to the Teaching Center to discuss teaching methods or how to better structure their classes."

"I also work with graduate students, not only for their teaching here, but to better prepare them for going out into the job market."

The other major portion of the work at the Teaching Center involves managing and improving

"The chemistry department considers itself extremely fortunate to have recruited Dr. Frey to the Washington University campus. She has proven to be a stellar instructor and a wise counselor. Wisely, Arts & Sciences has sought her contributions in areas extending far beyond the chemical arena. Gina is one of those special individuals who make this University sparkle."

JOSEPH J.H. ACKERMAN

have recruited Dr. Frey to the Washington University campus. She has proven to be a stellar instructor and a wise counselor.

"Wisely, Arts & Sciences has sought her contributions in areas extending far beyond the chemical arena. Gina is one of those special individuals who make this University sparkle."

Frey earned a bachelor of science degree in chemistry and mathematics from Clarion State University. She then went on to earn a doctorate in physical chemistry from the University of Utah in 1986.

After doing postdoctoral work in chemistry, Frey worked in IBM's marketing division.

She came to the University in 1994, and in 2002 she succeeded James W. Davis, Ph.D., professor of political science in Arts & Sciences, as director of the Teaching Center.

When she isn't teaching chemistry, Frey can be found at the center, busily making sure everything is running smoothly.

The Teaching Center has several missions, but a primary one is to enhance and improve teaching at the University. That is accomplished through consultation with professors, faculty workshops and department-specific teaching assistant workshops.

Frey has a hand in all three. "At a professor's request, I visit or tape a professor's class and then consult with the professor about improvements in their teaching,"

the University's classrooms.

"While we have done a wonderful job of implementing technology in the classrooms, we are starting to focus more on the design of the classrooms themselves," Frey says.

Along with her staff, Frey began looking at ways to take the box that is a classroom and make it better.

"And making it better includes more than just adding technology," she says. "Improvements include the layout of the furniture, the type of furniture, the lighting, placement of chalkboards, where light switches are, etc."

"Our goal, starting this year, is to get in near the front of the design process for our new classroom buildings so that we work with the faculty and architects to design the best classrooms for students and teachers."

The challenge, Frey said, is how to design the room so that the students learn better and the teacher can best present and interact with the students.

"It's a pleasure taking my experience as a teacher and turning that knowledge into something that can benefit both students and professors," she says.

Frey particularly enjoys talking with faculty members about their classrooms and their jobs.

"The great thing about what I'm doing is that I get to interact with people from all of the schools at the University," she says. "It's amazing how my teaching has

grown and improved just by listening to what other faculty members want to do in their classes.

"What occurs in a typical science class is not the same as what occurs in a humanities class. It's wonderful to incorporate ideas from other professors into my own teaching."

"Gina Frey is a dynamo, a continuing example of enthusiastic, energetic multitasking," Davis says. "Advising a student one minute, planning a faculty workshop the next, teaching her own chemistry class or working on a classroom upgrade — Gina sets an example for us all."

"I cannot imagine anyone who would be a better or more appropriate director of the Washington University Teaching Center. She is a delight to work with."

Frey is married to William E. Buhro, Ph.D., professor of chemistry. They met at the University of Utah and married after she earned her doctorate. The couple's son, Walter, is 12.

"Walter is a dedicated football player," Frey says. "He joined a junior football league, so in the fall the entire family is quite involved with that."

"He needed to get in shape for football, so Walter and I started running together. We've run several short races together. I actually took fourth place in my age group in the Frostbite Series this winter. It's been a great experience for me because it keeps Walter and me close."

Frey enjoys working at the University. She says support and mentoring have come from many people, including Ackerman, James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences, and Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences.

"I've had such great support from people here," she says. "I'm the type of person who likes to try different ideas, and this administration has been very open and willing to let me test all types of ideas. Not every place lets you do that."

The students have also made a great impression on her.

"I feel very fortunate and very honored to be able to teach our students," she says. "They are great students and great kids. The nice part is, I get them as they enter college. There are all these changes going on and they are just full of spirit and hope, and I feel very privileged that I can spend that first semester being with them and helping them become a part of this University. I really couldn't ask for anything more."