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Five honorary degrees to be conferred at Commencement

Washington University will bestow honorary degrees on five outstanding individuals during its 136th Commencement on May 16. The ceremony honoring the five and 2,555 degree candidates begins at 8:30 a.m. in Brookings Quadrangle.

The five honorary degree recipients are William H. Daughaday, M.D., a pioneer in the study of human growth hormone's role in health and disease and

former director of the renowned metabolism division of the School of Medicine (doctor of science); George Eberle Jr., a University alumnus who just stepped down as president and chief executive officer of Grace Hill Neighborhood Services, a not-for-profit agency serving St. Louis inner-city communities as well as areas in St. Louis and St. Charles counties (doctor of humanities); The Right Honorable Sir Geoffrey Winston

Russell Palmer, former prime minister of New Zealand and this year's Commencement speaker (doctor of laws); William K. Y. Tao, a University alumnus and founder of William Tao & Associates Consulting Engineers, an internationally recognized leader in innovative engineering and building systems design (doctor of science); and Mildred M. Winter, executive director of Parents as Teachers National Center Inc. and a

consultant at the state and national levels on early childhood education and family support (doctor of humanities).

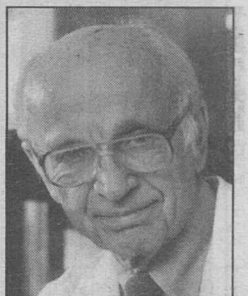
WILLIAM H. DAUGHADAY, M.D.

Daughaday has spent nearly his entire academic career at the School of Medicine. He arrived in 1947 as an assistant resident in medicine at Barnes Hospital and retired in 1994. After graduating from Harvard University and Harvard Medical School, he did an internship in medicine at Boston City Hospital. He entered the Army Medical Corps in 1944 and served in Italy.

In 1946, he began his endocrine research as a fellow with Robert H. Williams of the Thorndike Laboratory at Boston City Hospital. He then came to St. Louis, where he did a fellowship in endocrinology in 1948. From 1949 to 1950, he was a fellow in biological chemistry under Nobel laureate Carl F. Cori, M.D., conducting research on growth hormone in Cori's laboratory. He became an instructor in the Department of Medicine in 1950 and the first full-time director of the metabolism division of the Department of Medicine in 1951. At that time, Daughaday was the only staff member, and his facilities consisted of a single biochemistry laboratory and a small office. Under his leadership, there was remarkable growth in faculty and facilities.

From 1975 to 1987, Daughaday directed the National Institutes of Health-supported Diabetes and Endocrinology Training Center, later called the Diabetes Research and Training Center. It provided key research tools for diabetes investigators throughout the Medical Center, supported new diabetes research initiatives, and played an active role in diabetes education. Daughaday contributed to many areas of basic and clinical endocrine research.

He is the author of more than 300 scientific articles, and his work has earned him many honors, including the



William H. Daughaday

Continued on back page



The sands of time

Navajo artist Emerson Blackhorse Mitchell engages second-grade students from Forsyth School with traditional sand-painting Friday, April 18, in the lower level of Mallinckrodt Center. Mitchell is a specialist in Navajo medicine, music, art and traditional culture and teaches at Red Mesa High School and Navajo Community College in Shiprock, N.M. The sand-painting event was part of American Indian Awareness Week, which was hosted by the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work in conjunction with the American Indian Center of Mid-America. Mitchell's visit to Washington University was made possible in part by the Department of Music in Arts and Sciences.

International students feel at home with help from two programs

The dance steps are foreign, but the smiles are ... well, international.

Front and center is Cecille Hein, who has been dancing for nearly 78 of her 80 years, including a few in-her-youth spins with Gene Kelly. With flair and panache, she deftly hoofs through the Electric Slide and an array of country line dances.

Flanking her on the left is Kyoungah Shin, a native of South Korea and the wife of Seongwon Shin, a Washington University doctoral candidate in electrical engineering. On the right is Ziemowit Rzeszutnik, a mathematics graduate student by way of Wroclaw, Poland. Even though Hein's partners are doing more slipping than "sliding," the grins keep widening.

This unlikely trio — like the other 60 or so in attendance at this Saturday afternoon hoe-down in Holmes Lounge — has been brought together by a pair of programs offered through the International Office at Stix International House. The first, the Host Family Program, is a cultural exchange program between the University's international students and local families who are interested in developing friendships and furthering cross-cultural awareness. The second, Speak English With Us, connects community

volunteers with international students for informal conversation and cultural exchange.

Both programs have existed in some form on campus for nearly 30 years.

Pairing up

The Host Family Program, which currently includes 76 students and 72 area families, is coordinated by Luisette Behmer, who also serves as an English as a Second Language (ESL) instructor. Host Families range from single adults to single parents to families with and without children to retirees. Host families do not provide living accommodations but rather get together with their student about once a month for events such as dinner, movies, trips to the theatre, sporting events or sightseeing.

Speak English With Us, which currently includes 78 volunteers and about 100 students, is headed by Wendy Hyman-Fite, director of the ESL program. Each volunteer-student pair meets — usually once a week for about an hour — at a mutually agreeable time and place. Sometimes this relationship extends to include social activities. No special skills are required, just the desire to converse and exchange ideas.

In addition to the one-on-one meetings, the two programs merge twice a year for a structured "Community Connections" gathering. This spring's Western Night was preceded in the fall by a trip to the World's Fair exhibit at the Missouri Historical Society Museum.

This year, more than 1,000 international students comprise 9 percent of the University's total student body. Eighty-five countries are represented on campus, with China, Taiwan, India, Korea and Japan having the largest contingent. From this group come the subset that opt to take advantage of the two International Office programs.

Cultural guides

The volunteer group is just as varied. Most are retirees who have a bit more leisure time. Some are younger couples; some are housewives. A few are fellow students.

"You might say that the volunteer is a guide to American culture," said Hyman-Fite, a 1972 University graduate whose own parents have been in the Host Family Program since she was a teen-ager. "Things we take for granted are suddenly seen from another perspective. Kind of like 'Third Rock From the Sun,'" she

said, referring to a TV situation comedy. "The international students view things in a very different way because they're seeing something for the first time."

The view can be enlightening from the other direction, as well. "I've had some volunteers say they see the world without leaving their armchair," Hyman-Fite said.

While the only requirement is the ability to speak English, several

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Four University administrators promoted to the position of associate vice chancellor

Medical Update

95 percent of prostate cancers detected by new screening test

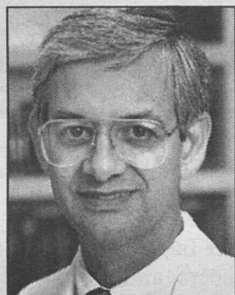
A multicenter study led by School of Medicine researchers shows that a new screening test can detect 95 percent of prostate cancers while avoiding many needless biopsies. Best of all, the test works well regardless of a man's age or the size of his prostate, said lead researcher William J. Catalona, M.D., professor of surgery and head of the Division of Urologic Surgery.

The study involved 773 men who had total prostate-specific antigen (PSA) levels between 4 and 10, a gray zone where doctors usually can't confirm or rule out prostate cancer without a biopsy. Doctors measured the percentage of PSA that floated freely in each patient's blood, known as free PSA, and then conducted biopsies on all of the patients.

Ninety-five percent of the men diagnosed with cancer had less than 25 percent of the antigen, free PSA.

Based on these results, Catalona said doctors should recommend biopsies for all men with free-PSA levels below 25 percent.

Researchers reported the findings April 13 at the annual American Urological Association meeting in New Orleans.



William J. Catalona

Previous studies have indicated that a low percentage of free PSA is a strong signal of prostate cancer, but doctors faced a complicated problem: What is the cutoff between a dangerous and a safe reading? If they set the cutoff too high, many cancer-free patients will undergo biopsies. If the cutoff is too low, many cancers will go undetected.

To make matters worse, interpreting the meaning of a free-PSA test depends somewhat on the patient's age, prostate size, and total level of PSA. If two men age 65 and 75 have identical free-PSA readings, the older man is slightly more likely to have prostate cancer. Similarly, if two men of the same age have identical free-PSA readings, the man with the smaller prostate is more likely to have cancer.

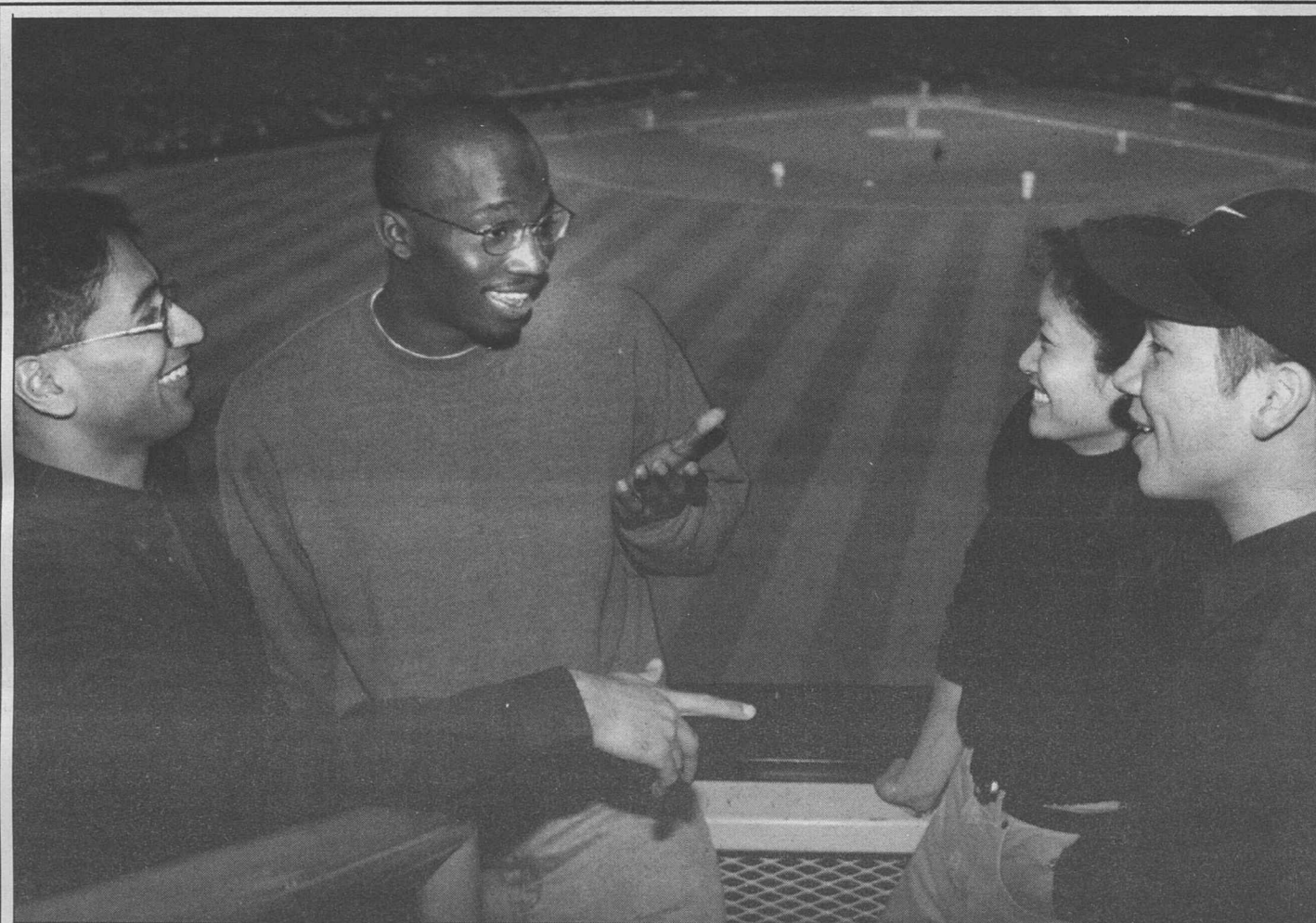
"We wanted to avoid using many different cutoffs, and we wanted to have something that was practical and easy to remember," Catalona said.

He found that a cutoff of 25 percent worked well for the study group as a whole. The single standard caught 98 percent of all cancers for men in their 50s and 90 percent of all cancers for men in their early 70s. Furthermore, the cancers that didn't meet the cutoff tended to be less aggressive, Catalona said.

Catalona pioneered the use of the test for total PSA as an aid to early prostate cancer detection, and, for years, it has been the best tool for this purpose. The drawback to the test is that many men with suspicious total PSA readings don't have cancer. Today, biopsies are standard for men with total PSA levels between 4 and 10, but only a quarter of them have cancer. The new free-PSA test, with its single cutoff, would eliminate about 20 percent of the needless biopsies, Catalona said.

The Food and Drug Administration soon will review the free-PSA test, and Catalona believes the new study — the largest focusing on free PSA to date — should help get the test approved. "We showed that the test is accurate for the whole group of patients," he said. "Now, we can detect cancer early and perhaps save lives without so many false alarms."

— Chris Woolston



A night at the ballpark

First-year medical students, from left, Ali Husain, Daalon Echols, Patsa Hungspreugs and Mark Walsh visit at Busch Stadium during an April 11 game between the St. Louis Cardinals and the Houston Astros. The outing was an event of the Erlanger-Graham Society, one of three academic societies that enable students and faculty to socialize in a nonacademic setting.

Lowering dietary fat in African-American families is study's focus

School of Medicine researchers have been awarded a four-year \$1.9 million grant from the National Cancer Institute to study ways to lower dietary fat intake in African-American families.

Debra L. Haire-Joshu, M.D., research associate professor of medicine at the medical school's Center for Health Behavior Research, is principal investigator for the project. Co-investigators are Wendy Auslander, Ph.D., associate professor at the George Warren Brown School of Social Work; Ross Brownson, Ph.D., professor and chair of community health at Saint Louis University's School of Public Health; and the Missouri Parents as Teachers program (PAT), a child-education program for parents of children from birth to 5 years old.

The ultimate goal of the prevention program is to decrease the incidence of diet-related cancers and other diseases, such as diabetes, hypertension and heart disease. These diseases are more common in African Americans than in the general population, Haire-Joshu said.

"The incidence of colon, prostate and other cancers is especially high in African-American families, and high-fat

diets put people at increased risk for these types of cancer," she said. "We expect that making people aware of their options and helping them eat healthier can decrease cancer rates and lower the incidence of other diseases as well."

In a previous study, the investigators had success using peer educators to promote healthy eating in low-income African-American women. In the new program, they will expand the effort to include more families.

Using the existing PAT network, the investigators hope to recruit nearly 1,500 African-American parents to participate in the study. PAT sites will be chosen to participate from 12 school districts. At six sites, the dietary intervention will be included in the program. The remaining sites will be control sites, offering PAT services but no dietary intervention.

Investigators will work with parent educators to incorporate a dietary program into PAT's home curriculum, which focuses on infant and child development. These families will get standard PAT services and also will

receive dietary newsletters, workbooks and counseling during home visits.

In addition, at the sites involved in the dietary intervention, parent educators will conduct group meetings on healthy eating. Later, investigators will determine whether interventions decreased fat consumption and increased intake of high-fiber foods such as fruits, vegetables and beans.

"Since the Parents as Teachers program is enthusiastically supported and accepted by many African-American families, we feel this dietary counseling program has a good chance for acceptance, too," Auslander said.

While only African-American families will be studied as part of this project, all families who participate in the PAT program at the diet-intervention sites will have the opportunity to learn about healthy eating and a low-fat diet. If the program is successful, it might be expanded throughout Missouri and the United States using the existing PAT framework. Currently, there are 1,957 PAT-affiliated sites in 47 states, the District of Columbia and five other countries.

Diabetes research funding now available

Faculty members who conduct research in the areas of diabetes and endocrinology may apply for funding through the Diabetes Research and Training Center (DRTC) at the School of Medicine.

Researchers from the Hilltop and Medical campuses are invited to apply for the two-year grants, which begin Dec. 1, 1997. They will range from \$10,000 to \$25,000. Applications from basic, epidemiological and behavioral science departments are particularly encouraged.

The DRTC pilot and feasibility program fosters projects required to develop preliminary data that could lead to independent research supported by the National Institutes of Health, which awards three to four grants at the medical school annually.

Those interested must submit letters of intent to the DRTC by June 16; proposals must be submitted by Aug. 11. For more information and application forms, call Melanie Puhar at (314) 362-8290.

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Elgin is a dynamic force in science education

Research university" is a phrase that constantly intrigues Sarah C.R. Elgin, Ph.D., professor of biology in Arts and Sciences.

"There is the implication — almost a promise — that research and teaching go hand-in-hand, indeed, that one cannot exist without the other," she said in her McDonnell Hall office. "It is a concept that has been eloquently defended by many at this research university, but I think there remains much doubt in the minds of tuition-paying parents and research funders alike. Do they really go hand-in-hand? Or, can you do a better job if you focus in one direction or another?"

Trying to maintain this balance has been a major concern for Elgin during her 16 years at Washington University.

"I've been very fortunate to work at a time when

powerful new tools have become available to biologists," she said. "Our ability to identify and manipulate genes has provided us with unprecedented opportunities to carry out experiments in biological systems. When I was in high school and college, I found chemistry more attractive than biology because of the possibility of controlled experiments. Too often in biology lab, all we could do was observe. Now, with recombinant DNA techniques, all that has changed."

Elgin grew up in Salem, Oregon. She went to Pomona College in Claremont, Calif., and majored in chemistry. Growing up in the post-Sputnik era, she benefited from the emphasis then on good science education.

At Pomona, Elgin participated in a pioneering undergraduate research program funded by the National Institutes of Health (NIH) and designed to attract students to interdisciplinary areas such as biochemistry and biophysics.

"We could apply for a research stipend to use at any research university," she said. "I decided to try the nearby California Institute of Technology (known as Caltech). On looking at the faculty list, my adviser said, 'Why don't you try working for (James) Bonner — he isn't always right, but he's always interesting.' That's how I got into research on chromatin structure — how the DNA is packaged in the nucleus and how that packaging helps to control gene expression."

Elgin continued to pursue that interest, first as a graduate student with Bonner and a postdoctoral fellow with Leroy Hood at Caltech in Pasadena, then in her own laboratory at Harvard University and, since 1981, at Washington University.

"I've been fortunate to have had a series of outstanding junior colleagues working with me," said Elgin. "We currently are studying a protein called 'GAGA factor,' which appears to play a critical role in organizing the nucleosomes in such a way that gene expression can be initiated."

Using the fruit fly, *Drosophila*, as a system, Elgin and her team recently have concentrated on a region of chromatin called heterochromatin, a gene-poor, relatively inactive part of the genome found in the center of chromosomes. Genes placed in or near the heterochromatin tend to be inactive or silent much of the time. There are clues that this silencing also is due to the way DNA is packaged, and recent work with yeast indicates that the silencing of certain genes is critical in aging.

"Most of our genes are turned off," Elgin explained. "Humans have 50,000 to 100,000 genes, and it only takes a small subset of them to run a cell. All the rest are involved in special functions in particular tissues. Keeping things off, then, is just as important as turning them on. If the ability to maintain silencing disintegrates, that may be the key to inducing senescence. In my laboratory, we're intrigued by that."

Reaching out

The fascination with research naturally extends into Elgin's interest in science education.

"Undergraduate research opportunities are the crown jewel in our biology curriculum," Elgin said.

"With the help of our colleagues in the Division of Biology and Biomedical Sciences (at the School of Medicine), we can provide a research experience for every undergraduate who wants it and works for it."

Mindful of her own early experiences, Elgin is particularly interested in encouraging women and minority students. At Caltech in the late 1960s, there were no women among Caltech's 700 faculty and staff; of the 700 graduate students, she was one of only 40 women.

Being in the minority was "something you got used to then," Elgin noted. "I considered it an advantage because professors would always remember my name," she said.

Elgin did not feel so isolated nearly 30 years later when she received the Senior Career Recognition Award last December from Women in Cell Biology at

University faculty and staff who lecture, help set up experiments, and assist in planning lessons ranging from genetics and physics to environmental studies.

"For a long time, people had not taken elementary science education very seriously," Elgin said. "In many school districts, art education was receiving four times more funding than the sciences because superintendents and principals knew that art is a hands-on subject, while they consider science to be something that is taught with books and worksheets. But science is a process of activity and hands-on learning. This requires materials, plans and experiences that many teachers cannot come up with on their own because most elementary school teachers have their degrees in elementary education or language arts."

The 1989 partnership endeavor with University City schools was the seed project that blossomed into

two other programs run through the biology department's Science Outreach Program.

An NIH-funded program helps develop curriculum and training opportunities that allow high school teachers to implement a sophisticated yet accessible curriculum in genetics. High schools representing different socioeconomic backgrounds in University City, Webster Groves, Jennings and Washington, Mo., have successfully participated in the program.

Funding from the Howard Hughes Medical Institute (HHMI) supports summer research opportunities for high school students, demonstration teaching by University undergraduate students, and a

program in biology and biomedical sciences for new Washington University students.

A genetic optimist

Elgin's many endeavors also are influenced by her concern as a parent and citizen. She and her physicist husband, Robert, are the parents of Benjamin, 20, a junior at Harvey Mudd College in Claremont, Calif., and Thomas, an eighth grader at Brittany Woods Middle School in University City.

Although large amounts of time and energy can be gobbled up by science outreach, Elgin considers the work well worth it. "Science outreach is my hobby," she said with a smile. "More people should try it. The enthusiasm that the younger students have is really contagious — it reminds you again of why you got so excited about doing experiments."

Elgin teaches "Biology 337: The Cell Nucleus," an undergraduate course co-taught in different years with Craig S. Pikaard, Ph.D., associate professor of biology, and John E. Majors, Ph.D., associate professor of biochemistry and molecular biophysics in the medical school. Elgin lectures occasionally for graduate courses and seminars in chromatin structure and gene expression. In the summers, she has taught in a molecular biology course for high school teachers and in the spring has participated in Education 600 through University College in Arts and Sciences, an HHMI-supported curriculum course for K-8 teachers.

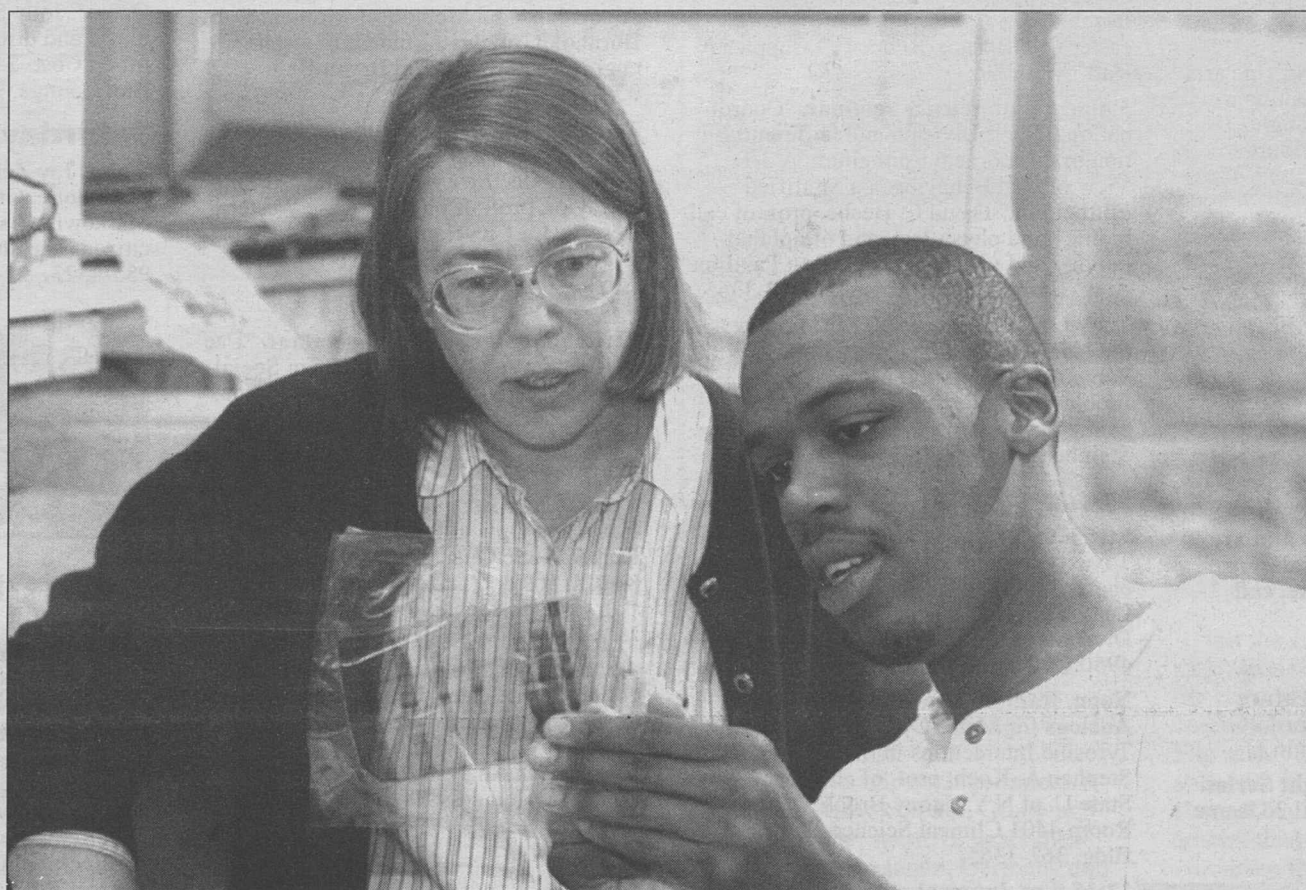
But can it all be done? Elgin admits to a shortage of time and resulting stress.

"We have some great things going on in the lab; we have great things in the outreach program. And this year, the major grants in both areas are up for renewal."

But Elgin is a firm believer in genetics.

"I was born optimistic; I'm still optimistic," she said. "There are a lot of people here working very hard to make sure that the biology major provides all kinds of exciting opportunities; that the research we do is of value to the scientific community; and that we contribute to interpreting that research to the public — that's what it takes to have a research university."

— Tony Fitzpatrick



Sarah C.R. Elgin, Ph.D., and Levi Funches Jr., a junior in biochemistry, assess a Western blot (part of a research program aimed at identifying heterochromatin proteins) in a laboratory in McDonnell Hall.

"Science outreach is my hobby. More people should try it. The enthusiasm that the younger students have is really contagious — it reminds you again of why you got so excited about doing experiments."

the annual meeting of the American Society of Cell Biologists.

That recognition is one of many for Elgin, who has become a distinguished cell biologist, a leader in science education reform and outreach, an influential and inspiring teacher and an active participant in prominent science circles. Within the past year, she has chaired the summer 1996 Gordon Research Conference on Nuclear Proteins, Chromatin Structure and Gene Expression and is serving as a member of the National Advisory General Medical Sciences Council at the NIH. She also is a member of the Steering Committee of the Coalition for Education in the Life Sciences, a national group that focuses on undergraduate education.

Locally and regionally, Elgin has been a force in area elementary and secondary school science education by securing funding for and instituting programs that bring the expertise of the University's science faculty to St. Louis-area teachers and students. In 1989, Elgin organized the Washington University/University City Science Education Partnership. The arrangement involves the efforts of dozens of

Calendar

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

April 24–May 3



Exhibitions

"Curtain Time: Student Performing Arts at Washington University." Through May 30. Special Collections, level five, Olin Library. Hours: 8:30 a.m. to 5 p.m. weekdays. 935-5495.

Master's of Fine Arts Thesis Show. Through May 4. Gallery of Art, upper and lower galleries, Steinberg Hall. Hours: 10 a.m. to 4:30 p.m. weekdays; 1 to 5 p.m. weekends. 935-4523.

"Midway." First-year master's of fine arts students host an exhibit representing a range of styles and media. Through April 25. West Campus Bldg. Hours: 11 a.m. to 4:30 p.m. weekdays. 935-4761.



Films

All Filmboard movies cost \$3 and are shown in Room 100 Brown Hall. For the 24-hour Filmboard hotline, call 935-5983.

Friday, April 25

7 and 9:30 p.m. Filmboard Feature Series. "After Hours." (Also April 26, same times, and April 27 at 7 p.m.)

Midnight. Filmboard Midnight Series. "Follow That Bird." (Also April 26, same time, and April 27 at 9:30 p.m.)



Lectures

Thursday, April 24

8 a.m. Internal medicine lecture. The 21st Annual I. Jerome Flance Lecture. "Leukotrienes in Asthma," Jeffrey M. Drazen, chief, Dept. of Pulmonary and Critical Care, Brigham and Women's Hospital, Boston. Clopton Aud., 4950 Children's Place. 362-3365.

11:15 a.m. Mental health seminar. "Overview of Research Project: Gateways and Pathways Project," a follow-up study on the Youth Services Project. Room 353 West Campus Administrative Center. 935-5687.

Noon. Genetics seminar. "Specificity in DNA-Protein Interactions; Determining It and Using It," Gary Stormo, U. of Colorado, Boulder. Room 823 McDonnell Medical Sciences Bldg. 362-3365.

1 p.m. Biology thesis defense. "Phenotypic Plasticity: A Quantitative Genetic Study Using *Manihot esculenta* Crantz," Paul Olson, graduate student in evolutionary and population biology. Room 322 Rebstock Hall. 362-3365.

2 p.m. Molecular cell biology thesis defense. "Genes Required for a Novel Cell Cycle Checkpoint Control in Response to Defective Spindle Orientation and Nuclear Migration Caused by Loss of ACT5 in Budding Yeast," Muhua Li, graduate student in molecular cell biology. Room 426 McDonnell Medical Sciences Bldg. 362-3365.

3 p.m. Cancer Center lecture. "Endoradiotherapeutics for the Treatment of CNS Malignancies," Michael Zalutsky, prof. of radiology, Duke U. Medical Center, Durham, N.C. Third Floor Aud., St. Louis Children's Hospital. 747-0359.

4 p.m. Central Institute for the Deaf seminar. Topic to be announced. Speaker is Eri Hasino, Hearing and Research Laboratory, State U. of N.Y., Buffalo. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. Chemistry seminar. "Patterned Membranes: A Tool for Surface Science and Membrane Biology," Steven Boxer, prof. of chemistry, Stanford U. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. Topic to be announced. Robert R. Gillies, asst. prof. of plants, soils and biometeorology, Utah State U., Logan. Room 362 McDonnell Hall. 935-5610.

4:30 p.m. Math colloquium. "Deforming Gorenstein Singularities," Anthony Iarrobino, prof. of mathematics, Northeastern U., Boston. Room 199 Cupples I Hall. 935-6726.

5 p.m. Vision science seminar. "Coordination of Cell Division and Differentiation in the Corneal Epithelium: A 3-D View of Cell Behavior in a Stratified Epithelium," David C. Beebe, prof. of cell biology and physiology and of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital. 362-3365.

7:30 p.m. Art lecture. "The Complex and the Non-relational in (my) Painting, With Some Attention to the Attractive as a Problematic," Jeremy Gilbert-Rolfe, painter and art critic, Pasadena, Calif. Steinberg Hall Aud. 935-4761.

Friday, April 25

9:15 a.m. Pediatric Grand Rounds. Iron Toxicity Symposium — Part II: Endogenous. "Iron Overload Syndromes," Z. Leah Harris, asst. prof. in pediatrics, Division of Critical Care. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Radiology seminar. "Synthetic Analogs for Metal-Cysteine and Metal-Tyrosine Interactions in Metalloproteins," Stephen A. Koch, prof. of chemistry, State U. of N.Y., Stony Brook. Room 4401 Clinical Sciences Research Bldg. 362-3365.

12:15 p.m. Internal medicine lecture. The 44th Annual Alpha Omega Alpha Lecture. "Whirling Disease of Trout: A Vortex of Fishing, Science and Public Policy," Marshall E. Bloom, research medical officer, Laboratory of Persistent Viral Diseases, National Institute of Allergy and Infectious Disease, Rocky Mountain Laboratories, Hamilton, Mont. Clopton Aud., 4950 Children's Place. 362-6251.

4 p.m. Anatomy and neurobiology seminar. "The Genetic Architecture of Complex Traits," James M. Cheverud, prof. of anatomy and neurobiology and of genetics. Room 928 McDonnell Medical Sciences Bldg. 362-3365.

4 p.m. Biology lecture. The Third Varner Lecture. "Polypeptide Signaling for Plant Defense Genes," Clarence A. Ryan, Institute of Biological Chemistry, Washington State U., Pullman. Room 162 McDonnell Hall. 935-6860.

Monday, April 28

4 p.m. Immunology seminar. "The Retinoplasma Protein: A Downstream Substrate of the TCR?" Steven F. Dowdy, asst. prof. of pathology. Eric P. Newman Education Center. 362-2798.

4 p.m. Political science lecture and convocation. "The Sixth Annual Eliot Memorial Lecture and Honors Convocation," Paul Wahlbeck, prof. of political science, George Washington U., Washington, D.C. Room 200 Eliot Hall. 935-5852.

Tuesday, April 29

Noon. Molecular microbiology/microbial pathogenesis seminar. "Viral Host Interactions," Michael Oldstone, Dept. of Neuropharmacology, Scripps Research Institute, La Jolla, Calif. Cori Aud., 4565 McKinley Ave. 362-7258.

4 p.m. Chemistry seminar. "Conformational Landscapes in Porphyrins: Chemical and Physical Consequences," Jack Fajer, senior scientist, Brookhaven National Laboratory, Upton, N.Y. Room 311 McMillen Lab. 935-6530.

4:30 p.m. Math colloquium. Topic to be announced. Speaker is Harold Parks, prof.

of mathematics, Oregon State U., Corvallis. Room 199 Cupples I Hall. 935-6726.

Wednesday, April 30

6:30 a.m. Anesthesiology Grand Rounds. "Are You as Young as You Could Be — What I've Learned About Preventative Gerontology in the Preoperative Clinic," Michael Roizen, U. of Chicago. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Liver Disease in Pregnancy," Elham H. Elzind, chief resident in obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 362-3143.

1 p.m. Solid-state engineering and applied physics seminar. "Designing Electromagnetic Structures Using Genetic Algorithms and Method-of-Moments," Jim Bornholdt, graduate student in electrical engineering. Room 305 Bryan Hall. 935-5565.

3:45 p.m. Physics colloquium. "Devil's Staircases and Solitary Waves in Antiferroelectric Liquid Crystals," Philip L. Taylor, prof. of physics, Case Western Reserve U., Cleveland. Room 204 Crow Hall. 935-6252.

Thursday, May 1

11:15 a.m. Mental health seminar. "Use of Random Aggression Models in Social Work Research," William Nugent, assoc. prof. of social work, U. of Tennessee, Knoxville. Room 295 West Campus Administrative Center. 935-5687.

4 p.m. Chemistry seminar. "The Electronic and Optical Properties of Close Packed CdSe Quantum Dot Solids," Cherie Kagan, postdoctoral member, technical staff, Lucent Technologies, Murray Hill, N.J. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Geochemical Dynamics of an Urban Watershed, White Rock Creek: Implications for Weathering Rates and Hydrograph Analysis," Robert Gregory, Southern Methodist U., Dallas. Room 362 McDonnell Hall. 935-5610.

4:15 p.m. Philosophy lecture. "Commitment and Integrity," Virginia Ingram, graduate student in philosophy. Stix International House Living Room. 935-6614.

Friday, May 2

Noon. Cell biology and physiology seminar. "Role of Regulated Splicing of Protein 4.1 Pre-mRNA in the Biogenesis of the Red Cell Membrane," Edward J. Benz Jr., Dept. of Medicine, Johns Hopkins School of Medicine, Baltimore. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

4 p.m. Information management research colloquium. "Towards a Theory of Systems Development Quality," Arun Rai, assoc. prof. of management information systems, Southern Illinois U., Carbondale. Room 104 Lopata Hall. 935-5484.

6 and 8:30 p.m. WU Association Travel Lecture Series. "Germany: Wunderbar!" Joe and Mary Liz Adair, award-winning film producers. Graham Chapel. Cost: \$4.50. 935-5212.



Music

Saturday, April 26

8 p.m. WU Chorus concert. Program: Liebeslieder waltzes, op. 52, by Johannes Brahms; choral dances from "Gloriana" by Benjamin Britten; music of the Renaissance by Thomas Morley and Guillaume Costeley; "Sacramento Sis Joe" by Jackson Berkey; and "Missouri Waltz" by Eppel/Logan. Eric Anthony, director. Graham Chapel. 935-4841.

Sunday, April 27

2:30 p.m. Wind ensemble concert. Program: "The Gum Suckers March" by Percy Grainger; Variations on a Theme of Robert Schumann by Robert Jager; "Danse Slave"

by Emmanuel Chabrier; "Trois Rag-Caprices" by Darius Milhaud; and Finale to Symphony No. 1 in G minor by V.S. Kalinnikov. Dan Presgrave, lecturer in music and director. The Saint Louis Art Museum Aud. 935-4841.

5 p.m. Student recital. Program includes the music of J. S. Bach, Béla Bartók and Ludwig van Beethoven. Lucy Tan, piano. Graham Chapel. 935-4841.

Wednesday, April 30

8 p.m. Electronic music demonstration. Individual class projects. Rich O'Donnell, instructor in music and director. Tietjens Rehearsal Hall. 935-4841.

Friday, May 2

8 p.m. WU Opera. "A Spring Evening of Opera." Jolly Stewart, teacher of applied music and director. (Also May 3, same time.) Cost: \$4; \$2 for students. Umrath Hall Lounge. 935-4841.

Saturday, May 3

8 p.m. Jay Zelenka Trio. Jay Zelenka, saxophone; Greg Mills, keyboard; and Eric Markowitz, bass. Cost: \$5; \$3 for senior citizens and students. Steinberg Hall Aud. 935-4523.



Performances

Thursday, April 24

8 p.m. WU Performing Arts Dept. presents the winner of the 1996 A.E. Hotchner Playwriting Competition, "Oldies on the Rocks," by Daniel Sullivan, senior in English. (Also April 25 and 26, same time, and April 27 at 2 p.m.) Cost: \$8; \$6 for senior citizens. Drama Studio, Room 208 Mallinckrodt Center. 935-6543.



Miscellany

Thursday, April 24

7:15 p.m. Hillel Center event. Annual meeting. Introductory remarks by Chancellor Mark S. Wrighton. Hillel Center, 6300 Forsyth Blvd. 726-6177.

7:30 p.m. Women's studies feminist reading group. Levi Lounge, Room 220 Busch Hall. 935-5102.

Friday, April 25

7:30 a.m. Office of Continuing Medical Education seminar: "Common Cancers — Prevention, Detection and Therapy." The Ritz-Carlton, 100 Carondelet Plaza. Call 362-6891 for more info. and to register.

5-8 p.m. Painting students open house. Features the work of undergraduate and graduate students. School of Art painting studios, third floor Bixby Hall. 935-4761.

Saturday, April 26

9:30 a.m. Carrom game competition. "The First St. Louis Carrom Open." Sponsored by the St. Louis chapter of ASHA. Proceeds benefit the enhancement of basic education in India. (Continues April 27, same time.) Cost: \$3, \$5 and \$6, depending on level of participation. Stix International House. 726-3094.

1 p.m. Book arts workshop. "Paper Making in China: Slide Lecture." Charlotte Johnson, Southern Illinois U., Edwardsville, will show paper samples and share paper-making experiences. Cost: \$5. Room 104 Bixby Hall. 935-4643.

Monday, April 28

7-10 p.m. The 23rd annual Internal Medicine Review (continued). The topic

is oncology. Steinberg Amphitheater, 216 S. Kingshighway Blvd. 362-6891.

Tuesday, April 29

8 p.m. Fiction reading. Features Neal Durando, Melissa Levine and Joe Rossi, master's of fine arts candidates. Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Thursday, May 1

8 p.m. Poetry reading. Features Kelly Brown and Doug Sanders, master's of fine arts candidates. Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Friday, May 2

11:30 a.m. Woman's Club spring luncheon and business meeting. "Forest Park — Past, Present and Future," Sue Clancy, executive director of Forest Park Forever. Cost: \$16. Reservations required by April 24. Whittemore House. 567-0129.

Saturday, May 3

9 a.m.-noon. Book arts workshop. "Make Art on a Photocopier." Join artist Bill Harroff in making art in collaboration with a machine. Cost: \$35. Room 212 Bixby Hall. 935-4643.

9:45 a.m.-3:45 p.m. Miles Davis and American Culture III: Jazz and the Civil Rights Movement. The conference explores the relationship between the historical context of the Civil Rights Movement and the history of jazz. Co-sponsored by the African and Afro-American Studies Program, the Dept. of Music and the American Culture Studies Institute. A special concert

featuring artists who worked with Davis will be held at 8 p.m. at Schoenberg Aud., Missouri Botanical Garden. Concert cost: \$15 at the door. (Conference continues May 4 10 a.m.-4 p.m.) West Campus Conference Center, 7425 Forsyth Blvd. 935-5690.

8:30 p.m. Hillel Center event. "A Final Affair" honoring graduating seniors. Cost: \$10; free for WU seniors. Reservations required by April 24. Holmes Lounge. 726-6177.

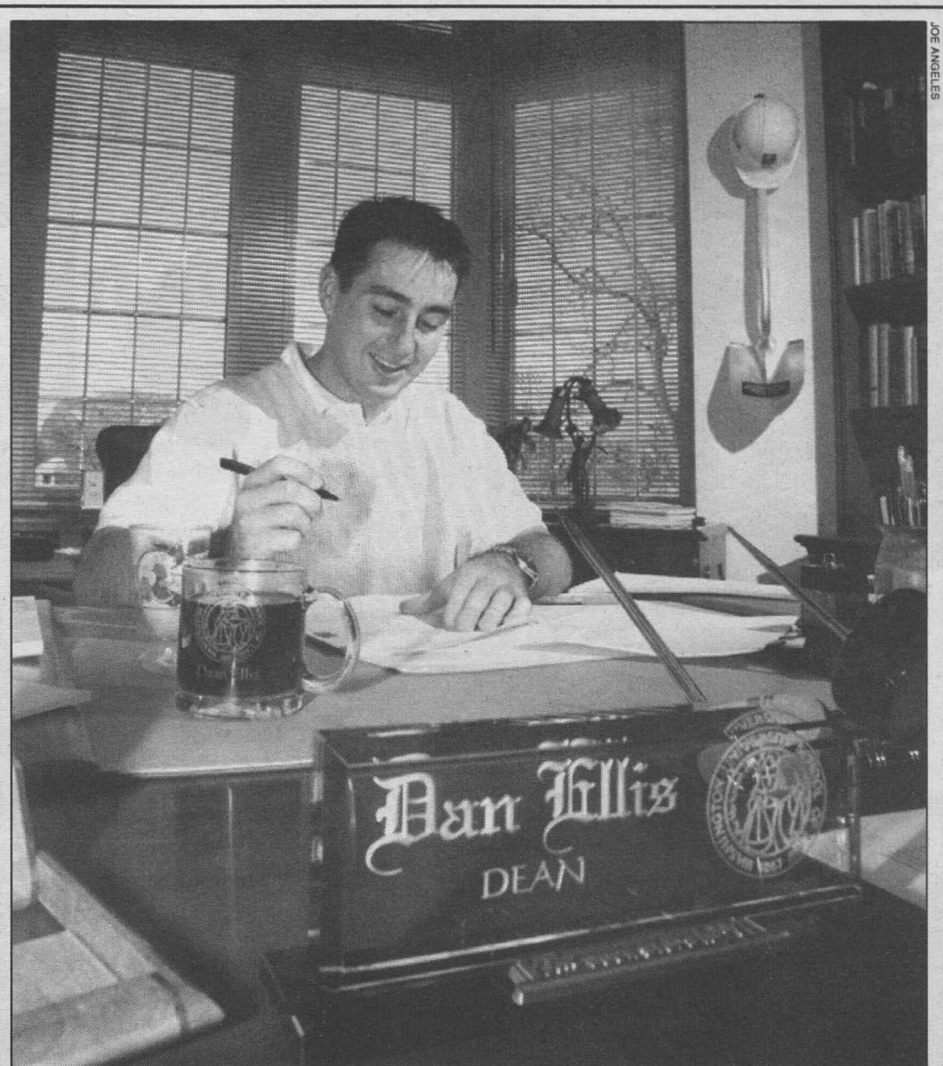


Vienna Fest 1997

"Dream City: Viennese Medicine as a Benchmark for St. Louis Physicians." Exhibit of photographs, rare books and documents on the scientific developments of late 19th-century Vienna. Drawn from the School of Medicine's collections and archives. Through Aug. 29. Glaser Gallery, seventh floor, The Bernard Becker Medical Library. 362-7080.

Friday, April 25

4 p.m. Music lecture. "Schubert: Legend and Reality," David Cairns, British writer on music. Room 102 new music classroom bldg. 935-4841.



Dean for a day

Third-year law student Malcolm Gould enjoys his stint in the School of Law dean's office on Friday, April 18 — his last day of classes. Gould's day came complete with complimentary breakfast and support staff to help type his state bar applications for New Jersey and Pennsylvania (his home state). Gould's \$80 bid for the use of law school Dean Dorsey "Dan" Ellis Jr.'s office in Anheuser-Busch Hall for the day was the highest bid in an auction held by the school's Women's Law Caucus. The auction raised more than \$3,000 for the organization's summer stipend program. The program provides support to students interested in working with women's legal issues and public-interest law.

Sports

Compiled by Mike Wolf, director, and Kevin Bergquist, asst. director, sports information. For the most up-to-date news about Washington University's athletics program, access the Bears' Web site at www.sports-u.com.

Men's tennis closes season at 8-7

Washington University's men's tennis season came to an end following a fourth-place finish at last weekend's University Athletic Association (UAA) Championships in Atlanta, Ga. The Bears, who were seeded fourth at this year's tournament, opened with a 4-3 victory over Case Western Reserve University (Cleveland, Ohio) before falling to the host school, nationally ranked Emory University, 7-0 in the semifinal round. WU dropped a 4-3 decision to regionally ranked Carnegie-Mellon University (Pittsburgh, Pa.) in the third-place match.

Current record: 8-7 (Season finished)

Baseball sets records, wins three of five

Besides winning three of five games last week, WU's baseball team and players savored some national notoriety, breaking three NCAA Division III records. After receiving 15 bases on balls in a 19-12 victory at Illinois Wesleyan University (Bloomington) on April 16, the Bears shattered the Division III single-game mark with 24 walks the following day at Principia College (Elsah, Ill.). WU, which won the game 19-8 in eight innings, also set a national mark for most bases on balls (both teams) with 30. Following a pair of two-run losses to Fontbonne College and DePauw University (Greencastle, Ind.), the Bears closed the week with a scintillating 11-9 victory over Wittenberg University (Springfield, Ohio). Heading into the final inning, the Bears trailed 9-5, but sparked by junior Russ Chambliss' three-run homer, WU scored six runs in the final frame to win the game. In that contest, senior catcher Chris Greiner became the all-time Division III single-season leader in hit by pitches with 23.

Current record: 12-18

This week: 5:30 p.m. Tuesday, April 22, at Maryville University (2 games); 1 p.m. Sunday, April 27, vs. McKendree College (Lebanon, Ill.) (2 games), Kelly Field.

Women's tennis second at championships

WU's women's tennis team finished second at the UAA Championships for the eighth time in 10 years of league competition. The Bears defeated Case Western Reserve University and the University of Rochester (N.Y.) to advance to the championship match vs. the host school in Atlanta, Ga.

In the final, 10-time UAA champ and defending NCAA Division III national champion Emory University beat WU 7-2 to claim another title. The Bears—who won 12 of their final 14 matches—await word of a possible invitation to the Division III Championships May 6-12 in Claremont, Calif.

Current record: 13-8

Next: Regular season complete. Bears await possible invitation to NCAA Division III Championships May 6-12 at Claremont-Mudd-Scripps Colleges, Claremont, Calif.

Track and field squads prepare for title meet

WU's track and field teams split up for their final tune-up meets before this week's UAA Championships Saturday and Sunday, April 26 and 27, at Carnegie-Mellon University. Four Bears placed first from a group that competed at the McKendree College Open in Lebanon, Ill. Seniors Alyce Nelson (high jump), Jason Hudnall (pole vault) and Aaron Boehm (shot put) all posted first-place showings, as did junior Brad Klein (javelin).

At McKendree, the men placed second of seven teams; the women placed fourth of seven. The rest of the WU team competed at Grinnell (Iowa) College, where the women took sixth place of 14 teams and the men seventh of 17 teams. Junior Vernon Butler (400 meters), sophomore Emily Richard (5,000 meters) and freshman Tim Julien (5,000 meters) took first place in their respective events.

This week: 11 a.m. EST Saturday, April 26, and Sunday, April 27, at UAA Championships, Pittsburgh, Pa.

Cultural exchange fuels friendships — from page 1

volunteers have had a foreign-study experience. "They come back to the States and want to return the good karma by helping internationals here adjust," Hyman-Fite said.

Hal Grady is one such volunteer. A retired U.S. Army colonel, Grady and his wife, Donna, spent 12 years overseas with stops in Japan, Germany and Vietnam. When their daughter enrolled at the University of Barcelona in Spain, she lived in a host-family setting. "Her host family and our family became very, very close," Grady said. "So close, I found out that if I really wanted the truth, I could get it from the host family! So when I came back to the United States, I thought if I had the chance to return some of the hospitality that we had gained — why, I'd do it."

Four years ago, Grady and his wife found themselves returning more than hospitality — they wound up giving away a bride. Xiaoqing Xie, then a doctoral student in the chemistry program, met her husband-to-be at the University. Half a world away from her family in Beijing, she sought "Grandma and Granddad Grady's" help in arranging details up to and including picking out her gown. In a ceremony held in Stix House, the Gradys stood next to the bride.

'Natural chemistry'

A 10-year veteran in the Host Family Program, Hal Grady admits not all matches bond that closely. "It varies with the individual," he said. "We just let the natural chemistry take place."

The Gradys are currently paired with Marina Miloslavich and Adriana Araez, two Venezuelan master's of business administration students. "We've also met their sons and daughters," Miloslavich said. "It's kind of another family here. It's good to know if you have any problem or if you want to share good news or bad news, you have someone to tell. They tell us, 'We're here for you.'"

Said Host Family coordinator Behmer: "Mothers will say, 'Oh, thank you for taking care of my son' — or 'my daughter.' But, actually, the volunteers often feel they get more out of the program than do the students. It can be very rewarding."

For the student, confidence is a key motivator. "Many of them actually know the rules of grammar and understand commonly used vocabulary," Hyman-Fite said. "But they don't feel comfortable with idiomatic English or with slang. They're afraid they may lose face among their peers. However, with the volunteer, they feel safe."

Kyoungah Shin, who with her husband and two young daughters has been paired with Cecille Hein and her husband, Richard, for nearly five years, was schooled in English for six years in Korea. But she is quick to point out the difference between "book" and "conversational" English. "The first time I heard the idiom 'pulling a leg,' I really think that it's grabbing someone else's leg!" she said with a laugh. "But it means to make somebody fooled. Cecille taught me that."

Having access to a native speaker is also vital to Rzeszotnik, the Heines' Polish friend. "When I try to learn English from other Poles, I feel like it's pretending," he said. "It's not (the) real thing. I think that every international student should do (the) same and join the program. When you arrive in a strange country, you need somebody to introduce you to their life."

Rzeszotnik's indoctrination included the most American of holidays — Thanksgiving. "I like turkey because in Poland we don't get so much," he said. "I also enjoy the pumpkin pie. When I first heard 'pumpkin pie' — no, no, no, no, I'm not going to try. Because pumpkin and pie is, for me, bad marriage! It turned out that it's excellent."

Pie-maker/dancer/tutor Cecille Hein also carries another responsibility: letter writer. "I have mail — mail from way back," she said. "They all write to me after they go home. Sometimes I can't keep up with answering it all. I even get calls from China on Christmas."

The Heins should expect a similar holiday call next year from South Korea, where the Shins plan to return shortly.

Said Kyoungah Shin: "Of course I will try to, um, touch base. I say that right, yes? That's an idiom. I learned it from Cecille!"

For information on how to volunteer, call the International Office at (314) 935-5910.

— David Moessner



School of Architecture sophomores, from left, Caroline Jones, Matt Heiser, Saritha Gandra and Paul Kim demonstrate one of the interactive games in their display on former slave Henry "Box" Brown. The students designed the display — complete with a replica of the box in which Brown shipped himself to free territory — for the Black World History Wax Museum in north St. Louis.

A show of teamwork

Student-designed displays help non-profit groups get their messages out

From a shipping crate replicating a former slave's means of escape to a rotating set of panels with interactive bicycle wheels, School of Architecture sophomores recently put their creative energies to work designing displays for several St. Louis-area not-for-profit organizations.

The students, who worked in teams, created their imaginative displays for three clients: BicycleWORKS in south St. Louis, the new Black World History Wax Museum in north St. Louis and the Missouri Environmental Fund in south St. Louis.

Words on wheels

The BicycleWORKS program teaches at-risk youths leadership and bicycle repair skills. One of three displays the students designed for the group is a rotating display made of four wire-mesh panels and colorful parts from 19 different bicycles. The display appropriately is meant to be pulled by a bicycle. The panels, with messages using various type sizes and fonts as well as photographs of bicycle riders, boldly proclaim: "For Every Bicycle Ridden, the Environment Breathes a Sigh of Relief" and "Bicycles Don't Pollute."

"We wanted to make something that would catch people's eyes but keep the focus on bicycles," said student design team member Michael Walsdorf. "It's pretty much 100 percent made out of bicycles."

Ray Bohn of BicycleWORKS said the project both resulted in effective displays to promote his organization and created a rapport between BicycleWORKS participants and architecture students.

"Not only are the displays on bicycles very interesting to look at, but one of the real benefits has been the interaction between the city students who participate in BicycleWORKS and the Washington University students," he said. "The two-way interaction has been very positive and enlightening for both groups."

The student-designed displays were unveiled at the recent South Grand House Tour and will appear on BicycleWORKS World Wide Web site at <http://home.fastran.net/~stlbwork>.

History in a box

Lois D. Conley, founder of the new black history museum, said her two student-designed displays will help depict the story of slavery. One display, designed for

Conley to use when visiting schools, is a shipping crate that tells the story of how former slave Henry "Box" Brown shipped himself from slave territory to free territory. Fold-out wooden silhouettes shaped like faces include learning stations where children can use their imaginations to discover what it was like to escape along the Underground Railroad.

"It's meant to be interactive," explained student design team member Caroline Jones. "Kids can crawl inside the crate and see what it was like. The panels also are graphically appealing and have games that kids can play, so they can learn and have fun at the same time."

Cleaning the air

Jerry Klamon said the five displays created for his environmental organization will promote awareness during the St. Louis Earth Day Community Festival from 10 a.m. to 6 p.m. May 17 and 18 in Tower Grove Park.

One display, depicting issues related to air quality, uses automobile mufflers with cityscapes etched on them. The mufflers are encased in Plexiglas that is increasingly scratched up to demonstrate decreasing visibility as the air quality gets worse. A final panel representing "1997 and Beyond" is left clear, letting viewers know they will be instrumental in determining the air quality of the future.

"Our issue was how do you go about showing poor air quality," said student design team member Mike Goellner. "We went with mufflers because that would give us the effect of automobiles and really visually show what we wanted."

During the critique of the displays, Klamon noted that the Earth Day exhibits will be a strong addition to next month's event. When he received the air quality display, he admired in particular its overall effectiveness in depicting a complex and somewhat-intangible problem.

"You did a great job," he told the students. "It looks like you thought about everything. We are looking at the laws that regulate emissions testing with the goal of cleaning the air. This display will

be very useful in educating the public on this issue."

The design class, taught by Associate Professor Jana Pereau, Affiliate Associate Professor Gay Goldman Lorberbaum and Visiting Associate Professor Bill Wischmeyer, gives architecture students their first opportunity to work in small groups and create a project for an actual client.

"Philosophically, architecture is a group effort," Pereau said. "Nobody builds alone, and it's a real skill to work with a group. The students learn to support and question each other as they toss ideas around. The ideas always get better the more they are tested. The students also are very serious about doing a good job for the client, and the level of craft they demand of themselves is very high."

— Ann Nicholson

"Philosophically, architecture is a group effort. Nobody builds alone, and it's a real skill to work with a group."

— Jana Pereau

Campus Watch

The following incidents were reported to the University Police Department from April 14–20. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety-awareness on campus.

April 14

8:04 a.m. — A University Police officer discovered that a glass door to the police substation in Wohl Student Center was cracked.

8:43 a.m. — A contractor reported an attempted burglary of a large tool box on the main-level construction area of South Brookings Hall. The tool box, a power saw and two radios were damaged.

11:26 a.m. — A student in Helen Ette Park House reported that a check was stolen from a checkbook, filled out for \$200 and cashed.

April 15

4:39 p.m. — A student's car parked in the parking lot near the Women's Building rolled across the lot, jumped a curb and struck a tree, causing moderate damage to the vehicle.

April 17

5:36 p.m. — A student reported that a purse containing \$50, an airline ticket and a credit card was stolen from Eliot Hall.

April 18

1:34 a.m. — A student reported that a wallet containing \$30, keys and credit cards was stolen from a coat pocket in the Umrathskeller.

10:57 a.m. — A staff member reported that a microphone system was stolen from a podium in Hurst Lounge.

April 19

10:15 p.m. — A staff member reported that a University van was stolen from the North Brookings Hall parking lot.

University Police also responded to one report of peace disturbance; three additional reports of theft; and three reports of arson.

Architecture students transform city loft

School of Architecture graduate students recently tackled the ultimate design challenge: transforming 3,000 square feet of dimly lighted warehouse space into a hospitable apartment in downtown St. Louis.

The 50-by-60-foot loft space in the 703 Building on North 13th Street was characterized by high ceilings, a row of windows along a back wall providing limited light, and dark-wood floors. The students also had to work around the former warehouse's thick timber supports, which added to the ambiance but carved up the otherwise-open space. What made the task even more formidable was that the renovation all had to be done on a tight budget and completed more or less within a semester, noted Jana Pereau, associate professor of architecture, who led the design studio.

"The students used a whole palette of inexpensive, commonplace materials — concrete, wood, particle board, stainless steel," Pereau said. "The idea was to have a kit of parts so what they did could be replicated in other lofts in the building."

To get a better sense of the space and to experience it at different times of day, the students spent a night at the third-floor loft and slept on the building's roof to take in the full ambiance of downtown St. Louis.

"One of the challenges was that we did not know who would actually live there — whether it would be a single person or a couple and whether or not there would be children," Pereau said. "But we decided that the type of person who would be interested in the loft would be someone who liked to entertain."

After researching design ideas and creating mock-ups, the 10 graduate students came up with an unusual yet highly effective solution for transforming the dark, massive room while accentuating the loft's positive characteristics: Divide the space using a 40-foot-long wedge construction.

The wedge is made up of two walls that split the loft, dividing the living spaces from the entertaining spaces. Inside the wedge is a kitchen and working area. Along the back portion of the wedge, the students added 11 wood-encased panels of awning material each lighted from the back to provide a warm, glowing light.

Pereau said the students discussed several ideas for the panels before discovering the awning material.

"It had to pass the spaghetti test: If you accidentally spilled a pot of spaghetti, it had to be a material that could be cleaned up, so that eliminated silk or linen," she said. "The awning material also is made to glow, and it's flame retardant."

"We did decide that one of the house rules would be: No running with scissors," she added with a smile.

Tim Tucker of the International Building Co. and one of the building's owners said he is pleased with the results.

"I gave them a space I didn't particularly care for and told them their objective was to make me love it," he said. "They succeeded. ... I absolutely love it."

— Ann Nicholson

For The Record

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

Of note

Vivian H. Hamilton, Ph.D., assistant professor of economics and management, has been selected by New York's John M. Olin Foundation as one of five John M. Olin Faculty Fellows for the 1997-98 academic year. The fellowship provides a financial stipend that enables the winner to take the equivalent of a year's leave from academic duties in order to concentrate on research and writing. As an Olin Fellow, Hamilton will study the impact of hospital mergers on inpatient outcomes and costs. She also will teach in the executive MBA program in health services management, which will debut in August. ...

Stanley J. Korsmeyer, M.D., professor of medicine and of pathology, has received a \$2,955,048 two-year grant from the National Cancer Institute for a project titled "Gene Regulation in Normal and Transformed Cells."

On assignment

Mary-Jean Cowell, Ph.D., associate professor in the Department of Performing Arts in Arts and Sciences and coordinator of the dance program, was selected to perform at the Master Artists Concert during the annual conference of the National Dance Association. The event was held March 21 at the Adam's Mark Hotel in St. Louis. Actor/director **William Whitaker**, artist in residence, joined

Cowell in performing "Research," a theatrical piece with text and choreography by Cowell. ...

Maria D. Hunter, academic adviser and financial aid coordinator, and **Diane Willis**, coordinator of undergraduate advising and student services, both of University College in Arts and Sciences, served as panelists for a discussion titled "Best-met Needs of the Transfer Student." The panel was part of the fifth annual statewide Transfer and Articulation Conference held in February at Lake Ozark, Mo. In addition, Willis has been elected to a one-year term as president of the Missouri Academic Advising Association. The organization represents more than 35 colleges and universities and includes 142 individual memberships from accredited institutions of higher education.

To press

A book by **Rowland Berthoff**, Ph.D., professor emeritus of history in Arts and Sciences, titled "Republic of the Dispossessed: The Exceptional Old-European Consensus in America" has been published by the University of Missouri Press.

Guidelines for submitting copy:

Send your full name, complete title(s), department(s), phone number and highest-earned degree(s), along with a typed description of your noteworthy activity, to For The Record, c/o David Moessner, Campus Box 1070, or p72245md@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Moessner at (314) 935-5293.

Business school announces four award winners

The John M. Olin School of Business will honor three Distinguished Alumni Award winners and its Dean's Medalist on Wednesday, April 30, at the 11th annual Distinguished Business Alumni Awards dinner. The event will be held at the Ritz-Carlton in Clayton.

The three Distinguished Alumni Award winners for 1997 are James V. O'Donnell, Kenneth B. Steinback and Roger L. Weston. The Dean's Medalist for 1997 is William J. Marshall, Ph.D. Emceeing the awards presentation will be Stuart I. Greenbaum, Ph.D., dean of the business school.

O'Donnell, who received both a bachelor's and a master's degree in business administration in 1974, is president of Bush-O'Donnell & Co. Inc., a St. Louis-based firm specializing in funds management and merchant banking, which he formed in 1988 with William Bush. A University trustee, O'Donnell also is on the University's National Council, was on the Dean Search Committee, and has been president of the Alumni Association.

Steinback, who received a bachelor's degree in business administration in 1966, is chairman and chief executive officer of Computer Sales International Inc., a major dealer and lessor of computer and data processing equipment, which he co-founded in 1972. The St. Louis-based company, which Business Week profiled as one of the nation's fastest-growing firms, has sales offices in 14 U.S. cities. Steinback is on the Executive Committee of the business school's Alumni Association and is on the board of directors for the Central Institute for the Deaf and the Jewish Center for Aged.

Weston, who received a master's degree in business administration in 1967, is chairman, chief executive officer and majority shareholder of GreatBanc Inc.,

a Chicago-based multibank holding company he founded in 1986. He is on the school's National Council, on its Advisory Board for "Investments Praxis," is an Olin Cup judge, and was instrumental in creating The Olin Hatchery entrepreneurship program. On the board of several public companies, Weston also is chairman of a retail art gallery and is on the Asian Committee of the Art Institute of Chicago.

Marshall, who received a bachelor's degree in 1970 and a master's degree in 1973, both in business administration, and a doctoral degree in finance in 1977, is chief operating officer of NISA Investment Advisors, L.L.C., a St. Louis-based registered investment advisor that manages more than \$8.3 billion of institutional funds. He taught finance at the business school from 1976 to 1985, and he maintains close ties with the school, serving as adjunct professor, Olin Cup judge, and co-founder of "Investments Praxis," which provides students hands-on experience investing Olin funds. Marshall has published extensively in finance and economics journals.

Distinguished Alumni Awards honor business school alumni who have attained distinction in their careers. Recipients are selected on the basis of leadership, progressive thinking, high standards, uncompromising integrity, commitment, courage and confidence. The Dean's Medal is awarded to special friends of the school — those whose dedication and service to the school have been exceptional. By providing advice, pursuing high objectives, and inspiring enthusiasm and support in others, they have made a significant difference to the school.

For information on the dinner, contact Sandra Jurgenson at (314) 935-5179.

Tyson Research Center to hold Family Day

The Tyson Field Science Program will hold its fourth annual Family Day at Washington University's Tyson Research Center from 10 a.m. to 4 p.m. Saturday, April 26.

The event, to be held rain or shine, is designed to provide visitors with a sampling of the activities that the program offers to schools and scouting groups. Activities include pond studies, cave tours, nature hikes and snake programs.

In addition, Missouri nature and environmental photographers will present two slide shows, and craft projects will be featured. Food will be available.

All ages are invited, and admission is \$3 per car. Washington University students, faculty and staff will be admitted free with a valid University identification card.

For more information, call (314) 935-8437.

Four University officials named as associate vice chancellors

Four Washington University officials — Judith M. Jasper; Randy L. Farmer, Ph.D.; David F. Jones; and James D. Thompson — have been promoted to associate vice chancellor in their respective departments. Jasper works in public affairs, while Farmer, Jones and Thompson are in alumni and development programs. Each was formerly an assistant vice chancellor.

Jasper is associate vice chancellor and executive director of University communications. She joined the University in 1989 and was named assistant vice chancellor in 1994. In her current capacity, Jasper oversees all aspects of the University's communications programs, including

Judith M. Jasper

issues management, media relations and special programs. Prior to joining the University, Jasper was public relations director for the St. Louis Science Center and served as director of community relations for Webster University.

Jasper graduated from Manhattanville College in Purchase, N.Y., with a bachelor of arts degree in psychology. Active in many professional and community associations, she currently serves on the board of the World Affairs Council of St. Louis and on the Public Affairs Advisory Committee for the Parkway School District. During the past decade she has served in many leadership positions with the Council for Advancement and Support of Education (CASE) and recently was named chair-elect of the international association, which serves approximately 3,000 member universities, colleges and independent schools worldwide.

Farmer is associate vice chancellor and director of medical alumni and development programs. He joined the University in 1988 as assistant director of corporate and foundation relations and director of development for the University's Center for the Study of American Business.

Randy L. Farmer

In 1989, he became director of corporate and foundation relations. Farmer was promoted in 1992 to assistant vice chancellor and director of medical alumni and development programs. In his present capacity, he serves as chief development and alumni officer for the School of Medicine.

Farmer graduated magna cum laude from Southeast Missouri State University in Cape Girardeau, Mo. He received a

master's degree from Ball State University in Muncie, Ind., and a doctorate in higher education from Indiana University in Bloomington. In addition, he was awarded a Lilly Endowment internship for postdoctoral work with the Indiana Commission for Higher Education. Farmer's professional associations include the Association of American Medical Colleges, serving most recently as Midwest regional chair, and CASE, for which he has served on the national committee on government relations.

Jones is associate vice chancellor and director of the University's alumni and development programs. In his 17 years at the University, Jones has served in a number of development-related capacities. He joined the staff in 1980 as director of corporate relations and director of development for the School of Engineering and Applied Science. In 1982, he became the first full-time development director and subsequently senior director of development for the engineering school. In 1990, he was appointed assistant vice chancellor and director of the University's alumni and development programs with responsibilities covering fund raising, alumni relations and parent programs for seven schools. Jones is a graduate of William Jewell College in Liberty, Mo.

David F. Jones

Thompson is associate vice chancellor and senior director of major gifts and capital projects. He joined the University as senior director of major gifts and capital projects in 1991 and was promoted to assistant vice chancellor in 1993. Thompson manages overall development efforts and special University projects and assists in the planning and implementation of capital projects and campaigns for the University, its schools and units.

James D. Thompson

Before joining the University, Thompson served as senior director of university development for Syracuse (N.Y.) University and was a leader in its capital campaign. He also served in a number of key development positions at Lindenwood College in St. Charles, Mo., including executive director of institutional development and college relations and as a member of the executive management team. Thompson received a bachelor of arts degree in business administration from Lindenwood College.

Phi Beta Kappa initiates 69 undergraduates

Sixty-nine Washington University undergraduates were initiated into Phi Beta Kappa, the nation's oldest and most prestigious honors organization, in an April 9 ceremony held in the Women's Building Executive Lounge.

The ceremony was conducted by Washington University's chapter officers: President Kristin Zapalac, Ph.D., assistant professor of history in Arts and Sciences; Secretary Ronald Freiwald, Ph.D., professor of mathematics in Arts and Sciences; and Treasurer Leonard Green, Ph.D., professor of psychology in Arts and Sciences. Jonathan Spence, noted historian on China and the Sterling Professor of History at Yale University, delivered the address.

The new members are: Amy Angert, Catherine Arvidson, Casey Ash, Karen Autio, Frederic Bloom, Lisa Bourne, Rachel Brass, Kari Braun, Darren Brenner, Jonathan Brenner, Susan Brown, Christopher Brummer, Hilary Burke, Erica Burns, Michelle Carr, Carla Cartwright, Ritik Chandra, Melissa Chernofsky, Amy Chi, Daniel Cohen, David Cohen, Joy Coleman;

Jodi Dektor, Courtney Dodson, Miranda Fraley, Kira Frank, Diane

Gannon, Alison Gould, Joshua Greenberg, Elizabeth Hanslik, Thomas Hardy, Martha Hernandez, Hilary Highfield, Graham Hubbs, Yekaterina Karpitskaya, Victoria Katsov, Charles Kaufman, Jason Keune, Hardave Kharbanda, Jane Kim, Michelle Komie, Maxwell Krem, Lyn Kuo;

David Lefkowitz, Naomi Mendelsohn, Jason Mendler, David Moeller, Christine O'Brien, Erin Orzel, Andrea Osborn, Kimberly Riehle, Amy Ripberger, Jennifer Robbins, Jodie Schoenfeld, Sean Scott, Kristin Shepard, Lisa Shusterman, Adam Simon, Noel Smith Jr., Kate Stanitski, Jill Swartz, Lucy Tan, Amye Tevaarwerk, Rachel Van Sambeek, Amanda Weeks, Tara Wehrly, Mitchell Wunsh, Kathryn Wycoff and Robin Zimble.

Phi Beta Kappa initiates are selected by a committee based on demonstrated academic excellence in a broad array of rigorous undergraduate courses in the arts and sciences. The organization sets high standards not only for its initiates but also for the institutions that may establish chapters. The first Phi Beta Kappa honorary was founded in 1776 at the College of William and Mary in Williamsburg, Va. Washington University's chapter was established in 1914.

Opportunities & news

Hilltop Campus

The following is a partial list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130 West Campus, or by calling (314) 935-5906. Job openings also may be accessed via the World Wide Web at cf6000.wustl.edu/hr/home.

Chief Operating Officer 970236. Consortium for Graduate Study Management. Requirements: master's degree or equivalent experience; experience working in a university setting, particularly in a school of business, strongly preferred; minimum five years work experience; experience managing day-to-day operations, as well as experience with fundraising activities essential; experience must include management and supervisory responsibilities. Application required.

Special Collections Assistant 970242. Olin Library. Requirements: bachelor's degree,

humanities-area preferred; relevant experience or course work in librarianship; ability to work with non-English languages; ability to work with details in an organized and accurate manner; working knowledge of OCLC and other automated systems desired; ability to work with the public in a helpful and courteous manner; familiarity with reference sources helpful; ability to work under pressure; good verbal and written skills; physical stamina. Application required.

Administrative Secretary 970244. Medical Alumni and Development Program. Requirements: high school education, some college preferred; minimum five years secretarial experience; high degree of accuracy; strong verbal, written and organizational skills; thorough knowledge of computers and the ability to operate a computer efficiently; general knowledge of a filing system and office procedures; willingness to assume responsibility and complete duties with minimum supervision; willingness to occasionally work overtime; ability to work well with others and to communicate with the public in a professional manner. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested in submitting transfer requests should contact the Human Resources Department of the medical school at (314) 362-7202 to request applications. External candidates may call (314) 362-7195 for information regarding application procedures or may submit résumés 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. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

Clerk/Receptionist 970646-R. Requirements: superior telephone etiquette; 40 wpm typing skill; excellent communication skills and a sharp attention to detail; ability to

work in a fast-paced environment dealing with strict deadlines. Responsibilities include providing clerical support in a busy, non-medical office; filing research protocols; maintaining filing system for office; photocopying and mailing meeting packets for four monthly meetings of 12-16 mem-

bers; preparing and setting up meeting rooms; answering and directing telephone calls, taking messages and following up with committee members and others.

Systems Manager 970955-R. Requirements: bachelor's degree in engineering or computer sci-

ence; experience with both C and C++ and with UNIX systems management desired; mathematical skills related to image processing also desired. Responsibilities include image-processing software development and systems management for UNIX and Macintosh computer systems.

University adopts new policy to cover skates, skateboards and bicycles

The following is the text of the University's official policy on the use of skates, skateboards and bicycles on both the Hilltop and Medical campuses. The new policy is effective immediately.

Washington University recognizes the use of skates, skateboards and bicycles as alternate forms of non-polluting transportation and recreation. However, if used inappropriately, these forms of transportation can cause injuries to persons and damage to personal property and University facilities.

Washington University policy requires individuals using skates, skateboards and bicycles to operate these forms of transportation responsibly. As such, the fol-

lowing acts are prohibited: acrobatics; excessive speed; jumping on or over steps, benches, rails; stopping or parking in a manner to block pedestrian paths, steps, ramps, or access to those with disabilities; skating or riding in buildings or any location where such activity is prohibited by signage; any activity that reasonably presents a risk of injury to persons or damage to property. (This does not preclude the use of skates or bicycles in sporting activities approved by the dean of student affairs.)

Members of the University community and visitors to the campus will be responsible for the safe operation of skates, skateboards and bicycles in accordance with the University policy.

Two alumni among this year's honorary degree recipients —from page 1

Distinguished Service Award from the medical school's Alumni Association and the school's 2nd Century Award. A past-president of the Central Society for Clinical Research and the Endocrine Society, Daughaday is current president of the Pituitary Society. After retiring from the University, he joined the University of California at Irvine faculty as a clinical professor of medicine.

GEORGE EBERLE JR.

For more than 40 years, Eberle has sought innovative solutions to the wrenching poverty gripping residents of inner-city St. Louis and St. Louis and St. Charles counties.

When Eberle came to St. Louis in the early 1950s to study for the ministry, his job at the Grace Hill Settlement House main offices on the city's near north side was a way to earn money for his education. He received a bachelor of arts degree from Concordia Seminary and although he never became an ordained minister, he did find his calling at Grace Hill.

He earned a master's degree from the George Warren Brown School of Social Work, graduating in 1958 with honors in research. He spent the last four decades helping transform the small neighborhood settlement house into a comprehensive, full-service agency serving neighbors in 11 communities.

Under his leadership, Grace Hill grew into a not-for-profit powerhouse with an annual budget of nearly \$16 million and a staff of 400. Many view Grace Hill as a national model of how communities might confront the challenges of the new welfare reform.

Grace Hill now includes 375 units of low-income housing, five primary health care centers with a comprehensive community health program, two day-care centers and an extensive system of community organization called the Member Organized Resource Exchange — an innovative and successful program based on neighborhood leadership.

Eberle stepped down as president and chief executive officer of Grace Hill in April 1997, but he plans to remain active in social issues.

Eberle has served the School of Social Work as a member of the Dean's Professional Advisory Committee, as a longtime mentor and field supervisor for social work students conducting practicum

projects at Grace Hill, and as an instructor of a graduate course in neighborhood-based social work — contributions that earned him the school's Outstanding Alumni Award in 1988 and the University's Distinguished Alumni Award in 1994.

GEOFFREY WINSTON RUSSELL PALMER

Palmer, former prime minister of New Zealand, has achieved distinction for both his decade of service in the New Zealand Parliament and for his legal scholarship in New Zealand, the British Commonwealth and the United States.

Palmer was instrumental in crafting New Zealand's plan for no-fault compensation for personal injuries, replacing a tort system that was considered costly, ineffective and inequitable. He also is recognized in the South Pacific for his leadership on global environmental issues and his efforts to develop a sustained environment while creating a dynamic economy in New Zealand.

The sustained-environment concept calls for long-term economic growth without compromising environmental resources. Palmer believes that through improved technology and societal choices, countries can make way for future economic growth while implementing environmentally sound practices. To achieve environmentally responsible actions worldwide, Palmer has called for the creation of binding international rules, an institutionalized authority to monitor compliance, and a system of adjudication.

Palmer initially entered the New Zealand Parliament in 1979 as a member of the opposition and rapidly rose to leadership in the Labor Party. He served as deputy leader of the opposition from 1983-84. When the Labor Party came to power, he held a variety of positions, including attorney general and minister of justice (1984-89), minister for the environment (1987-1990), leader of the House of Representatives (1984-87), deputy prime minister (1984-89), and then prime minister (1989-1990). He also was a principal backer of the common-market pact between Australia and New Zealand that boosted both countries' economies by eliminating trade tariffs.

He is a founding partner of the Wellington, New Zealand, law firm Chen & Palmer, where he specializes in public law. He received a bachelor's degree in 1964 and a bachelor of laws in

1965 from Victoria University in Wellington and his juris doctorate (cum laude) from the University of Chicago in 1967.

WILLIAM K.Y. TAO

In the 47 years since receiving his master's degree in mechanical engineering from the University, Tao has established himself internationally as a diligent and innovative engineer, businessman, educator and benefactor. Born in China, Tao studied engineering at Chekiang University in the late 1930s while war with Japan raged. His education was constantly interrupted and the site of the university relocated to makeshift buildings to keep ahead of the front line.

He came to Washington University in 1947 as a graduate student and was joined one year later by his wife, Anne, and their newborn son who had taken one of the last flights out of Shanghai when the government moved to Taiwan.

He founded William Tao & Associates (WTA) Consulting Engineers in 1957, developing a company that soon became internationally recognized as a leader in innovative engineering and building systems design. WTA has designed the mechanical, electrical, illumination, plumbing and fire protection systems for more than 45 million square feet of buildings worldwide with an aggregated construction value in excess of \$5 billion.

Officially retired — though very active in many civic, educational and community organizations — he transferred the firm to his employees in 1989.

A former full-time engineering instructor at the University, he was an adjunct professor of engineering and architecture for more than 30 years. In addition to establishing named scholarships, he and Anne issued the \$100,000 Tao Challenge Grant for the School of Engineering and Applied Science in 1989. He contributed funds to refurbish the tennis courts on campus, which collectively are now called the Tao Tennis Center.

A generous supporter of the University, he and Anne are Life Members of the Eliot Society. He is a trustee emeritus of the University and chair of the engineering school's National Council.

Tao received the University's Distinguished Alumni Award in 1971, an Engineering Alumni Achievement Award in

1982, the William Greenleaf Eliot Society Annual Search Award in 1990 and the engineering school's Dean's Award in 1994.

MILDRED M. WINTER

An educational innovator for more than a half-century, Winter has long been devoted to the adage: "Children are our future." First as a teacher and then as the driving force behind the now-international Parents as Teachers (PAT) program, Winter has had a positive jump-start effect on millions of young lives.

Recognizing the need to support parents in their role as their children's first

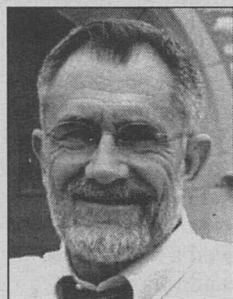
and most influential teachers, Winter served as the first director of early childhood education for the Missouri Department of Elementary and Secondary Education from 1972 to 1984. In that capacity, she initiated the PAT model project in 1981 and served as its state director.

A home-school-community partnership for families with children from birth to age 5, PAT assists parents in acquiring the skills to make the most of the crucial early learning years and lay the foundation for later success. In 1984, Winter helped build the coalition needed to bring about passage of Missouri's landmark Early Childhood Development Act. That legislation led to the appropriation of state funds to implement PAT in every school district beginning in 1985, at which time she was given the responsibility of organizing a statewide training program for parent educators.

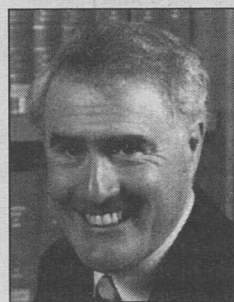
The program went national in 1987 with the establishment of the Parents as Teachers National Center, of which Winter is executive director. More than half a million families participate in PAT in 47 states, the District of Columbia and five other countries.

Winters, along with the PAT program, has received citations from former presidents Ronald Reagan and George Bush, from state governors and from numerous educational associations. She often is called upon for counsel by the U.S. departments of Education and Health and Human Services.

A native St. Louisan, Winter graduated summa cum laude from Harris Teachers College in 1942 with a bachelor of arts degree in education and received a master's of education degree from the University of Missouri in Columbia in 1968.



George Eberle Jr.



Geoffrey W.R. Palmer



William K.Y. Tao



Mildred M. Winter