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Chancellor William H. Danforth played "the Fonz" in a skit with Mama's Pot Roast standup comedy troupe during his birthday celebration April 13 in Bowles Plaza. "Chan Dan — the final bash," a birthday-retirement-sendoff party, featured a diverse student talent showcase, a 150-square-foot birthday cake and fireworks. Thousands of faculty, staff, students, alumni and friends attended the event, which was planned by Student Union and other student groups.

Standing tough

Students defend innovative business proposals at rigorous Olin Cup

The prospective executives of Cookies & Cream knew how to make an impact during their presentation: dishes of extra-rich ice cream alongside big, chewy cookies and hot gourmet coffee.

The judges at the Seventh Annual Olin Cup competition April 5 munched treats as they listened to the formal presentation of the four business students who proposed to create the next boutique cafe.

After the presentation, they stood to the tough questions of the judges, three of St. Louis' top businessmen. Charles Knight, chairman and CEO of Emerson Electric Co., didn't mince words: "If you go into this, you ought to serve better cookies."

Cookies & Cream was one of six finalist teams in the annual Olin Cup competition at the John M. Olin School of Business. First-place teams receive \$1,000 for each member — and all teams get valuable experience.

"It is a tremendous opportunity for students to explore new ideas for busi-

nesses and defend them in front of business leaders," said Russell Roberts, Ph.D., director of the Management Center at the Olin School, which runs the event.

"It's a great experience; they get to let their imaginations run wild, but they still have to be down to earth enough to defend their ideas," he said.

Teams of up to four students sign up for the program with the Management Center each spring. The teams develop innovative, comprehensive and feasible business propositions and compete for the best proposal of each year, as judged by area business leaders. This spring, 13 teams competed in the semifinal rounds, also judged by business executives and entrepreneurs. Of those, six teams — three BSBA (bachelor's of business administration) and three MBA (master's of business administration) — competed in the finals April 5. All finalists receive cash awards. Second-place team members receive a cash award of \$500, and third-place team members are awarded \$300. Proposals by the six finalist teams were:

MBA teams:

First Place — "Starlight Multimedia House" — State-of-the-art, interactive, multimedia services for small businesses and individuals. Students participating were Yun-Oh Whang, Tracy Richters and Jack Yamada.

Second Place — "Future Families: Planning Today for a Family Tomorrow" — Cryogenic ova bank, infertility counseling, prenatal testing and adoption services for career-track young women and families.

Third Place — "Mall-In-One" — Selling branded American products in the former Soviet Union through catalog and store-front sales.

BSBA teams:

First Place — "Baby's First" — A new style of baby store emphasizing service and classes. Team members were: Shawn Riley, Brad Rowland, and Amy and Julie Uhrman.

Second Place — "Cookies & Cream"

Continued on page 8

Former Sen. Danforth to give University's 134th Commencement address

Former U.S. Sen. John C. Danforth, R-Mo., will deliver Washington University's 134th Commencement address on May 19. Commencement begins at 8:30 a.m. with the traditional academic procession into Brookings Quadrangle on campus. Danforth will receive an honorary doctor of laws during the ceremony.

"We are pleased to announce that Washington University's 1995 Commencement speaker will be

Sen. John Danforth," said Burton M. Wheeler, chair of the Commencement Committee. "A leader in the renaissance of the Republican party in Missouri, Jack Danforth effec-



John C. Danforth

tively represented Missouri and its people in the United States Senate for 18 years. His abiding belief in the urgency of serving the public interest has elevated the level of political discourse and won national acclaim. Even those who differ with him in party allegiance recognize his honesty and forthrightness and know that on critical votes he has courageously transcended party loyalty. Had John Danforth not been the brother of our chancellor, surely he would have been invited long ago to give the Commencement address."

When he stepped down from his Capitol Hill post on Jan. 3, 1995, Danforth ranked 21st in seniority among the 100 U.S. senators, and served on three key Senate committees. During his three terms, Danforth, the only ordained priest in the Senate, garnered respect from his colleagues on both sides of the aisle for his statesmanship, judgment, integrity, courage, bipartisanship and legislative accomplishment.

The younger brother of Chancellor William H. Danforth, "Jack" Danforth first ran for public office in 1968, when his election to the Missouri attorney general's office represented the first Republican victory in a statewide race in more than 20 years. Danforth was re-elected in 1972 and ran successfully for the U.S. Senate in 1976, to which he was re-elected in 1982 and again in 1988. John and William Danforth recently received the Regional Commerce and Growth Association's Right Arm of St. Louis Award, and John and another former U.S. senator from Missouri, Thomas Eagleton, LL.B., University Professor of Public Affairs, shared 1994 St. Louis Man of the Year honors.

Of all his achievements as a senator,

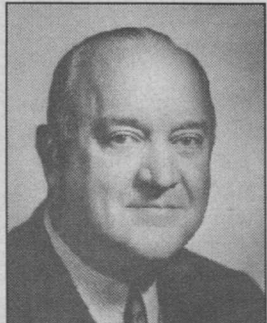
Continued on page 6

Philanthropist, emeritus trustee Spencer T. Olin dies

Spencer T. Olin, an emeritus trustee and Washington University benefactor, died April 14, 1995, at his home on Jupiter Island in Hobe Sound, Fla. Olin was 94. A native of Alton, Ill., Olin was first appointed to the Board of Trustees in January 1957.

A memorial service was held April 18 at St. Michael and St. George Episcopal Church in Clayton. Like his brother John, who died in 1982 and after whom the Olin School of Business is named, Spencer Olin started his business career with the Western Cartridge Co. immediately following his graduation from Cornell

University in 1921. Cornell University and Washington University School of Medicine are Olin's leading beneficiaries.



Spencer T. Olin

At Western Cartridge Co. Olin served as chief inspector, works manager, sales manager, secretary, treasurer and vice president. In the 1944 merger that

resulted in the formation of Olin Industries Inc., he became first vice president of the new consolidation, continuing in that office until the merger of Olin Industries and the Mathieson Chemical Corp. in 1954. At that time, he became a director of the Olin Mathieson Chemical Corp. and a member of its executive committee.

Around the time that Spencer Olin became a Washington University trustee, he made a \$780,000 gift to the University, providing a substantial portion of the funds from private sources for the construction of the Spencer T. Olin Residence Hall on the

Continued on page 7

In this issue ...

Illness insight 2

Study finds blacks have a higher prostate cancer rate and are less likely to seek aggressive treatment

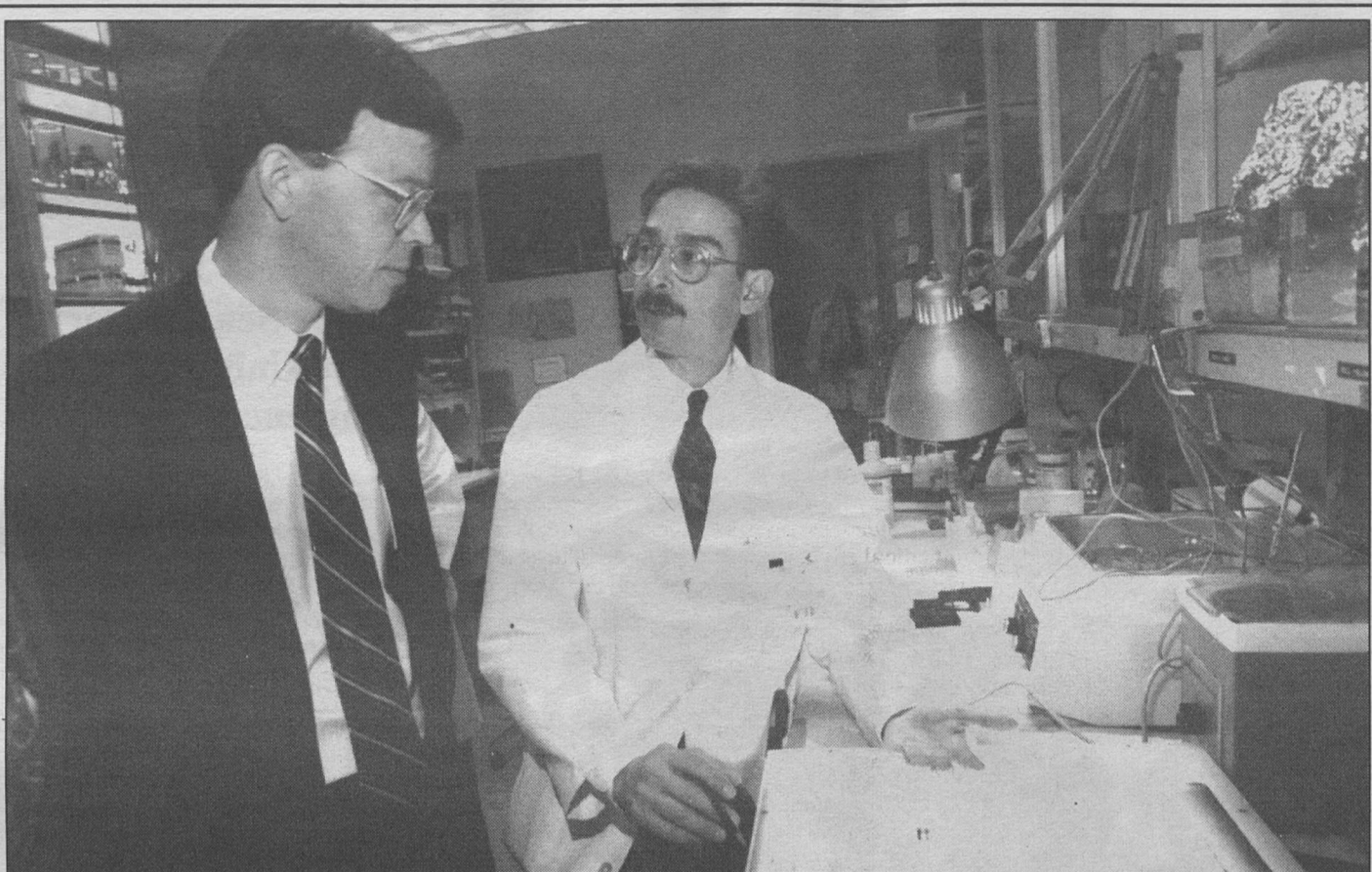
The world of sound 3

Margo Skinner's significant contributions in hearing aid and cochlear implant research help the profoundly deaf understand speech

A day for daughters 6

Employees are encouraged to bring their daughters to work April 27

Medical Update



During a recent visit to the School of Medicine, U.S. Rep. Jim Talent, R-Mo., left, toured the lab of James Lefkowitz, M.D., associate professor of medicine. Lefkowitz's laboratory performs research aimed at understanding the causes of autoimmune disorders such as lupus and arthritis. Talent also met with key administrators of the medical school and the Eastern Missouri chapter of the Arthritis Foundation to discuss the importance of federal funding for arthritis-related research.

Study of blood vessel growth could result in anti-cancer drugs

Researchers at the School of Medicine have received a five-year \$1.35 million grant from the National Cancer Institute to study blood vessel formation.

The research could provide leads to new anti-cancer drugs that would kill tumors by depriving them of their blood supply. Rich networks of blood vessels nourish tumors and allow malignant cells to escape to other parts of the body.

Unwanted growth of vessels also occurs in arthritis, where capillaries grow into a joint, and in diabetic retinopathy, where blood vessels at the back of the eye grow rampant over the retina.

"There is now a great deal of interest in finding substances that inhibit blood vessel formation," said principal investigator William A. Frazier III, Ph.D., professor of biochemistry and molecular biophysics and of cell biology and physiology.

Most tissues can grow blood vessels if they receive the right signals. This allows tissues to heal after wounding and to perform specialized functions such as building up the lining of the womb during the menstrual cycle. But other signals keep this ability in check so that vessels form only when appropriate.

One natural inhibitor is a huge protein called thrombospondin, discovered 25 years ago at Washington University. Nearly all cells make thrombospondin, which is packaged in platelets in blood.

Frazier has whittled the protein into much smaller fragments that can prevent endothelial cells from forming into blood vessels. The grant will allow him to discover how these molecules work — how they bind to receptors on the cell surface and what effect this binding has on a cell's biochemical and genetic machinery.

"With that information, it should be possible to design drugs that would turn the receptor off or block signal transmission," Frazier said. "Such compounds would prevent endothelial cells from proliferating into blood vessels."

Blacks with prostate cancer less apt to seek follow-up

Black men who undergo a simple blood test for prostate cancer are almost twice as likely as white men to have a suspicious result, report researchers at the School of Medicine. Moreover, black men with suspicious results are less likely than whites to have a follow-up procedure to confirm cancer and to seek aggressive treatment when cancer is present, the large-scale study showed.

The blood test detects levels of a key protein called PSA (prostate-specific antigen), produced by the walnut-sized prostate gland. High PSA levels are a possible indicator of cancer.

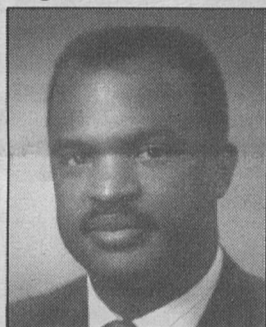
Historically, blacks have double the prostate cancer death rate of whites and are more likely to have advanced cancer when diagnosed. The new study, which examines the cancer rate in men undergoing screening tests, found that blacks have a higher rate of prostate cancer — 5.5 percent compared with 3.3 percent for whites. But at the time of their screening, blacks do not have a significantly higher rate of advanced prostate cancer, the researchers noted.

The finding suggests that if more black men would undergo PSA screening, they could be diagnosed and treated earlier, and their death rates could be lowered.

"To the extent that high prostate cancer death rates in blacks are caused by late detection of tumors, our study suggests that earlier diagnosis through cancer screening may help reduce, or even eliminate, the difference in death rates between blacks and whites with this disease," said Arnold D. Bullock, M.D., instructor in urologic surgery and co-author of the study.

But public education programs may be needed. The study also found that blacks living in low-income areas were far less likely than low-income whites to undergo

a biopsy, a recommended procedure to diagnose cancer if either PSA levels or



Arnold D. Bullock

rectal exams are suspicious. And when cancer was diagnosed, black men were less likely than whites to choose aggressive treatment, the researchers noted.

These factors may contribute to the high prostate cancer death rate in blacks, suggested Bullock, who conducted the study with William J. Catalona, M.D., head of urologic surgery.

Bullock reported the findings at the recent annual American Cancer Society's Science Writers Meeting. The study was funded by grants from the National Cancer Institute and Hybritech Inc., a manufacturer of PSA tests.

Prostate cancer is the most commonly diagnosed cancer in men and the No. 2 cancer killer. In 1994, an estimated 200,000 new cases of prostate cancer were diagnosed and about 38,000 men died of the disease.

The study of nearly 16,000 St. Louis-area men aged 50 or older gives investigators a more accurate picture of prostate cancer rates in a screening population. This is important because most prostate cancer studies are retrospective, meaning that the study data is collected after a patient is diagnosed with cancer. This study includes 598 black men, which is a large number compared with many previous prostate cancer studies.

In the study, the researchers found no difference between blacks and whites in

the rate of suspicious rectal exams. However, blacks were more likely than whites to have elevated PSA levels, 13.2 percent compared with 9.2 percent.

Based on elevated PSA levels, the investigators recommended that a higher proportion of blacks compared with whites undergo biopsies. However, they found that a patient's decision to comply with a biopsy recommendation was significantly dependent on estimated income and race.

Of the men recommended to have biopsies, 33.3 percent of black men who lived in low-income areas elected not to have the procedure compared with 14.5 percent of low-income whites. High-income blacks and low-income whites were just as likely as high-income whites to have a biopsy.

Bullock speculated that the differences may relate to health insurance status, education level and cultural misconceptions about prostate cancer risks and treatments.

Of the study volunteers who had cancer, 91 percent of blacks and 98 percent of whites had cancers confined to the prostate and were candidates for surgery to remove the gland. However, 43 percent of blacks chose treatments other than surgery, compared with 29 percent of whites. Blacks were more likely to choose radiation therapy or hormonal therapy, which generally have lower cure rates than surgery.

Bullock said these results clearly underscore the need for more public health education programs in the black community.

— Caroline Decker

Participants needed for fear of falling study

Researchers in the Division of Geriatrics and Gerontology are looking for 30 volunteers to take part in a study that examines fears about falling.

Volunteers should be men or women over age 60 who have cut down on activities because of a fear of falling or who have a constant fear of falling. If eligible, volunteers will participate in a group discussion.

Cynthia Arfken, Ph.D., research assistant professor of medicine at Washington University's Center for Health Behavior Research, is the primary investigator. She said the study will help researchers learn more about the fear of falling and help with intervention planning.

For more information, call 454-8150.

Two-year diabetes research grants available

Faculty members who do 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 at the Hilltop Campus also are encouraged to apply for the funding, which begins Dec. 1. The two-year grants will range from \$5,000 to \$25,000. Applications from the basic sciences, 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 (NIH). The NIH awards three to four such projects annually at the medical school.

Those interested must submit letters of intent to the DRTC by June 19; proposals must be submitted by Aug. 7. Both should be sent to Melanie Puhar at Campus Box 8212. For more information and application forms, call 362-8290. Specific questions should be directed to DRTC Director Julio Santiago, M.D., at 454-6046.

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Editor: Deborah Parker, 935-5235, Box 1070
Assistant vice chancellor, executive director, University Communications: Judith Jasper
Executive editor: Susan Killenberg
Editor, medical news: Diane Duke, 362-9662, Medical School Box 8065
Assistant editors: Carolyn Sanford, 935-5293; Susannah Webb, 935-6603, Box 1070

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Washington People

Skinner's work improved hearing aid design

When Margo Skinner, Ph.D., associate professor of otolaryngology, published her book "Hearing Aid Evaluation" in 1988 she gave copies to her friends and colleagues. Last summer, at a conference in Halifax, Nova Scotia, she was sitting with Ira Hirsh, Ph.D., director emeritus and senior research scientist at the Central Institute for the Deaf (CID). They were listening to the speaker when he referred to Skinner's book, calling it the "bible of hearing aids." Hirsh turned to her and said, "Margo, the bible? The BIBLE, Margo?" It was the first time Skinner heard it called the bible, but it would not be the last.

When she wrote the book, she attempted to combine research done by others with her own clinical work to create the most comprehensive single author text on the subject. It is now used throughout the world by graduate students, researchers and manufacturers.

In addition to her book, she has made significant and numerous contributions in hearing aid and cochlear implant research. Yet Skinner said she feels she is coming to the peak of her professional career now.

Hearing aid research dominated part of her career. Her doctoral dissertation, which she completed at Washington University in 1976, was a landmark study that became the basis for the development of full dynamic range compression hearing aids.

At the time, Skinner was a research associate at CID, where she had worked since 1969. "It (the dissertation) was something I thought of 10 years earlier," said Skinner. "Because of my colleagues at CID and all the work they had done, I was able to put together a lot of ideas that had not been encompassed before."

For her dissertation, Skinner studied six people who did not wear hearing aids, but had moderate to profound high-frequency hearing loss with normal hearing in the lower frequencies.

Building a better hearing aid

"I found," said Skinner, "that for high intensity speech, you don't need much compensation for the high frequencies because it is already loud enough. But for very low levels, you need lots of compensation for the high pitches."

Consequently, hearing aids that have come out in the last few years follow Skinner's guidelines. The low intensity signals are given more volume and, as sound gets louder, it gives less and less volume in that region. Furthermore, people today are able to hear sounds without the distortion that the conventional linear aids caused, she said.

The new hearing aids also allow people to hear better in noisy settings. While Skinner's research didn't cause this to happen, it supported the premise that different amounts of volume for soft and loud sounds enable people to discern speech better in the midst of noise.

She continued to work in hearing aid research following her dissertation. While working as a research associate at CID she did a number of studies with linear amplification. Her work, demonstrating that the broader the bandwidth a listener is provided, the better he or she will be able to understand speech, led to the expansion of hearing aid bandwidth.

Since 1984, she has devoted her research to cochlear implants, devices that are designed for people who receive little or no benefit from the most powerful hearing aids.

With a multichannel cochlear implant, an external microphone placed above the ear picks up sound and relays it to the speech processor, which is worn on a belt or attached to clothing. The processor sends the signal through the skin to a surgically implanted receiver. The sound then is sent to an array of electrodes in the cochlea and picked up by the nerves, allowing the patient to hear.

Skinner, along with John Fredrickson, M.D., Lindburg Professor and head of the Department of Otolaryngology, first received funding to study cochlear implants from the Edward Mallinckrodt Jr. Foundation in 1985. "That was the pilot research that enabled me to go on and get NIH (National Institutes of Health) funding," she said.

The first NIH grant came in December 1989, and she has continued to receive funding. "I'm taking the same approach to cochlear implants as I did to hearing aids," Skinner said. "I want to find out what will optimize

patients' ability to understand speech in everyday life."

Skinner said cochlear implants allow researchers to manipulate different parameters for processing speech before it is delivered as an electrical signal to the nerve. "Different people have different patterns of nerve survival. They have different lengths of deprivation from sound, are different ages and have different abilities to make out incomplete and imperfect signals. By manipulating the parameters we can make a difference in how they understand speech," she said.

Her approach involves the coordinated effort of a carefully assembled team, including surgeon Gail Neely, M.D., professor of otolaryngology; Susan Binzer, rehabilitative audiologist; Laura Holden, research audiologist; and Tim Holden, biomedical engineer.



Margo Skinner, Ph.D., explains a speech test to a patient.

"I guess my greatest joy is ... every single one of our patients who has been brought back into the world of sound."

"I think one of the unique parts of our work is that we intertwine clinical delivery and service with research," said Skinner. "We utilize every shred of information to help make decisions about which ear to implant, when to implant and what kind of processing strategy to use. The decisions are made because we are doing research at the same time, maybe not with them, but with other patients."

Charles Watson, Ph.D., professor of speech and hearing sciences and psychology and director of the Institute for the Study of Human Capabilities at the University of Indiana, said the combination of research and clinical skills is what makes Skinner so special. "Very few people bridge the gap between the lab and clinic," he said. "The field needs two dozen more like her."

Putting research into practice

Skinner said putting research into practice with patients is what gives her the most satisfaction. As an example, she cites Harry Pirtle, the first person implanted with a cochlear device at Washington University. "We worked together for nine months before we implanted him," said Skinner. "Then we worked with him intensely for two years afterward and he did not get much benefit."

When newer versions of the cochlear implant became available, she urged Pirtle to get one. He did and saw results. Later, he participated in two clinical trials and saw improvements both times.

"With the first two speech processors, his wife's voice never sounded right and he always had trouble understanding her," Skinner said. "Now he finds she's very intelligible and enjoyable to listen to."

"We've now been able to provide Harry with a life that is full of freedom and intimacy that he had lost completely. I guess my greatest joy is not only Harry, but every single one of our patients who has been brought back into the world of sound."

Skinner did not grow up with a dream to bring the

world of sound to the deaf. "I grew up in an era when women stayed home," she said. "I loved to sew, knit and cook, but I also loved science."

Born in Washington, D.C., and raised in Cleveland, Skinner was influenced by a high school chemistry teacher who inspired her to attend Wellesley College in Wellesley, Mass., and major in chemistry. "That period was very formative in my life," she said. "At Wellesley, women were encouraged to take leadership positions and that had a tremendous influence on me."

After graduating, Skinner floundered for a while. Knowing she did not want to stay in a laboratory setting, she eventually decided to pursue a master's degree in audiology from Case Western Reserve University in Cleveland. She received the degree in 1960.

She also married in 1960 and moved to Ann Arbor, Mich., so her husband could attend graduate school. There Skinner took a job at Children's Psychiatric Hospital School because she wanted to find out what it was like to teach and work with psychotic and severely neurotic children.

The experience gave her insight into the disorders of autism and severe neuroses in an academic environment that combined psychiatrists, social workers, occupational therapists, recreational therapists and teachers.

She then moved to the Department of Otolaryngology at the University of Michigan Medical Center as an audiologist. "It was a rich learning experience for me, working closely with attending staff and residents in the care of patients."

Over the next few years, she had two sons and the family moved to New Delhi, India, where her husband worked for a year. While there, she volunteered at the All-India Institute of Medical Science teaching medical personnel how to test children's hearing.

When they returned to the United States, the family settled in St. Louis. Skinner remained at home for a few years to care for her children, but after the breakup of her marriage in 1969, she went to work at CID as an audiologist. In order to better provide for her children, she decided to go to graduate school. With the help of S. Richard Silverman, Ph.D., director emeritus of CID, she became a U.S. Public Health Service Predoctoral Trainee in Medical Audiology and eventually got a Ph.D.

Skinner said she feels that all her experiences have led her to be the person she is now. "I think that all these things that have happened to me have been very fortuitous. If I had gone directly to graduate school after college and directly on to get a Ph.D. after my master's degree, it wouldn't have been meaningful, she said. "But all of these experiences, teaching deaf children, teaching psychotic children, working closely with doctors in the care of patients and then working at CID, all led me to where I am now," she said.

Skinner is at the top of her field nationally and internationally. She serves on the executive board of two scientific societies, acts as a consultant on grants and recently was appointed a member of the Communication Disorders Review Committee of the National Institute on Deafness and Other Communication Disorders, an NIH committee.

George Gates, M.D., professor of otolaryngology-head and neck surgery and director of the Bloedel Hearing Research Center at the University of Washington at Seattle, was Washington University's cochlear implant surgeon for five years and also worked with Skinner at the University of Michigan as a resident. "Margo is stellar, known internationally as the authority on auditory rehabilitation, both through her book on hearing aids and her work with cochlear implants," said Gates.

More importantly, he said, is Skinner's tremendous warm and caring personality, which distinguishes her from others. "She lives her beliefs and her personal, spiritual life makes her one of the most whole, happy people I know."

Skinner attributes her happiness to a close circle of caring friends and the support she receives from her church. When her second husband died of a brain tumor in 1992, she turned to that support network and managed to get through it. She said she is more productive now. "I see what I am doing as being very relevant to the ongoing care of people who are profoundly deaf," she said. "I am just coming into my own."

— Mary Carollo

Calendar

April 20-29



Exhibitions

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

"Master of Fine Arts II." School of Art graduate thesis show. Opening reception: 5-7 p.m. April 28. Exhibit continues through May 7. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; and 1-5 p.m. weekends. 935-5490.

"Centennial of the First Ph.D. From Washington University." An exhibit of books, photographs and manuscripts commemorating the University's first Ph.D., granted to A. Isabel Mulford in 1895. Through May 26. Biology Library, Room 200 Life Sciences Bldg. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5405.

Thursday, April 27

5-7 p.m. "In-prints by and About Women From Three Collections in St. Louis." Exhibit and reception in conjunction with the "Women Writers in Pre-revolutionary France" conference held April 28-30. Olin Library, Special Collections, level five. 935-5495.



Films

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

Thursday, April 20

7 and 9 p.m. Filmboard Classic Series. "Monkey Business" (1931, B&W), the first Marx Brothers movie written for the screen, starring Groucho, Chico, Harpo and Zeppo.

Friday, April 21

7 and 9:30 p.m. Filmboard Feature Series. "The Commitments" (1991), a story about the hardest working band in Dublin, Ireland. (Also April 22, same times, and April 23 at 7 p.m.)

Midnight. Filmboard Midnight Series. "The Blues Brothers" (1980), starring John Belushi and Dan Aykroyd. (Also April 22, same time, and April 23 at 9:30 p.m.)

Wednesday, April 26

7 and 9 p.m. Filmboard Classic Series. "Sullivan's Travels" (1941, B&W), written and directed by Preston Sturges; based on a novel by Sinclair Beckstein. (Also April 27, same times.)

Calendar guidelines

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

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-4926.

Friday, April 28

7 and 9:30 p.m. Filmboard Feature Series. "Priscilla, Queen of the Desert." (Also April 29, same times.)

Midnight. Filmboard Midnight Series. "Animal House." (Also April 29, same time.)



Lectures

Thursday, April 20

1:30 p.m. Geometry seminar. Larry Conlon, prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

3 p.m. History lecture. "Postwar University Reforms in Japan and Germany and the Reinterpretation of History, 1445-1995," Sebastian Conrad, research assoc., Dept. of History, Freie U. of Berlin, and Douglas Trefla, research assoc., Center for Human Growth and Development, U. of Michigan. Co-sponsored by the Office of International Studies and depts. of Political Science and History. Stix International House Living Room. 935-5958.

4 p.m. African and Afro-American studies lecture. "'Narrative' 'Blackness' and the Political Economy," Wahneema Lubiano, prof., Dept. of English, Princeton U. Room 200B Eliot Hall. 935-8556.

4 p.m. Chemistry seminar. "Pre-ceramic Conducting and Optoelectronic Unsaturated Organosilicon Polymers," Thomas J. Barton, prof., Dept. of Chemistry, Iowa State U., Ames. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Structure of the Lunar Crust as Derived From Impact Crater Boreholes," Carle M. Pieters, prof., Dept. of Geological Sciences, Brown U., Providence, R.I. Room 362 McDonnell Hall. 935-5610.

4 p.m. History colloquium. "Modernization and Early-modernity: The Western European Exception?" Derek M. Hirst, William Eliot Smith Professor of History. Cohen Lounge, Room 113 Busch Hall.

4 p.m. Molecular oncology lecture. "Regulation of Apoptosis by Oncogenes and Tumor Suppressor Genes," Eileen White, assoc. prof., Dept. of Biological Sciences, Center for Advanced Biotechnology and Medicine, Rutgers U., New Brunswick, N.J. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

4 p.m. Neurology lecture. The Norman J. Stupp Inaugural Lecture. "Molecular Mechanisms of Neuronal Apoptosis in Human Neuropathology," Eugene M. Johnson Jr., Norman J. Stupp Professor of Neurology and prof. of molecular biology and pharmacology. Cori Aud., 4565 McKinley Ave. 362-9663.

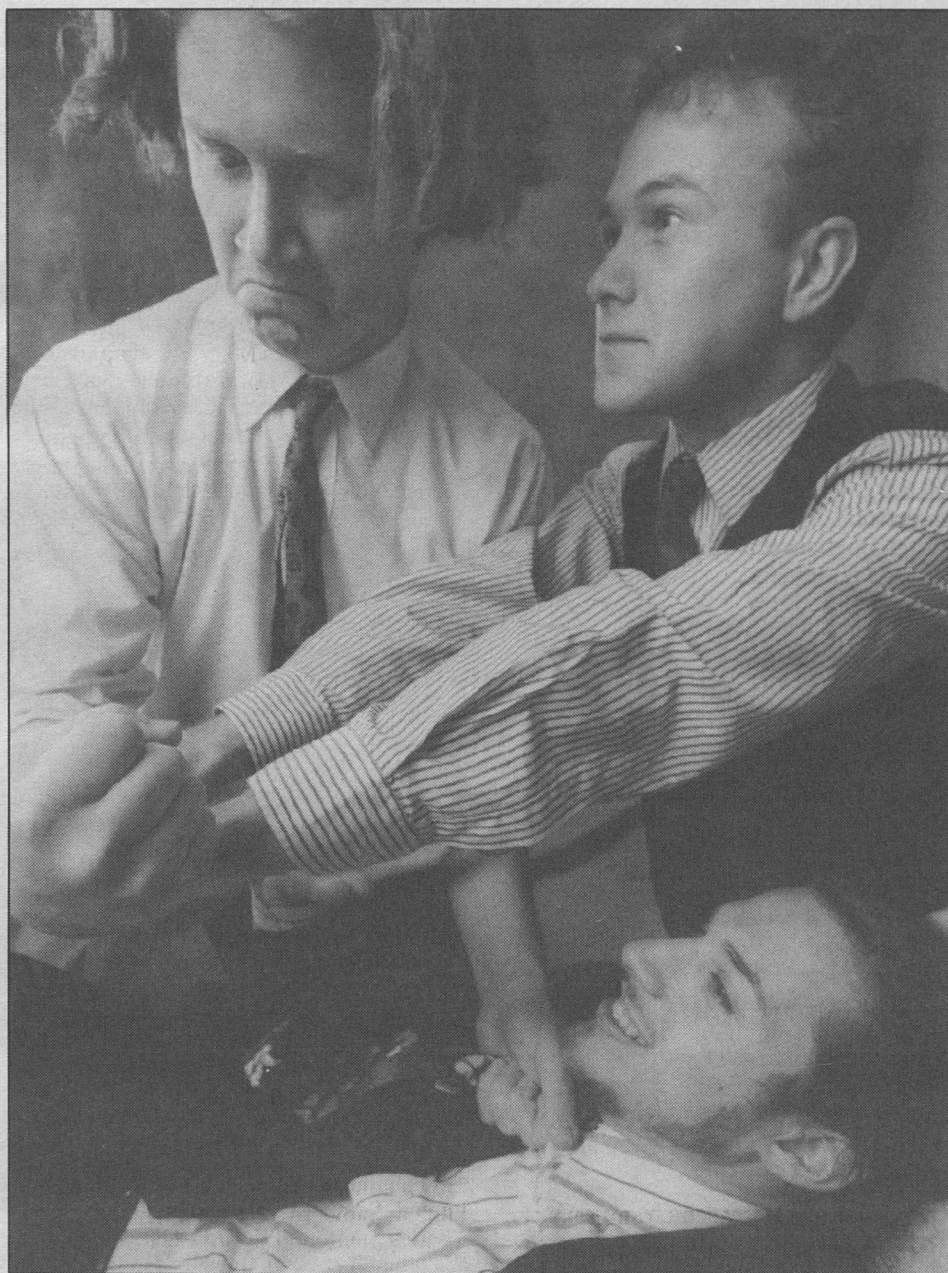
4 p.m. Political science lecture. Fourth Annual Thomas H. Eliot Memorial Lecture and honors convocation. "Thinking About Similarities in Politics," Kenneth Shepsle, prof., Dept. of Government, Harvard U. Room 200 Eliot Hall. 935-5810.

4:15 p.m. Philosophy lecture. "Should We Try to Define Truth?" Donald Davidson, prof., U. of California, Berkeley. Hurst Lounge, Room 201 Duncker Hall. 935-7148.

4:30 p.m. Math colloquium. "How I Learned to Stop Worrying and Love Schroeder's Equation," Joel Shapiro, prof. of mathematics, Michigan State U., East Lansing. Room 199 Cupples I Hall. 935-6726.

Friday, April 21

9:15 a.m. Pediatric Grand Rounds. Eighth Ben Abelson Memorial Lecture. "Molecular Analysis of the Hematopoietic Microenvironment — The Role of Membrane-associated Stem Cell Factor in Hematopoiesis," David Williams, assoc. prof. and Kipp Investigator of Pediatrics, assoc. prof. of medical and molecular genetics, Indiana U. School of Medicine, Bloomington, and assoc. investigator, Howard Hughes Medical Institute. Sponsored by the Lucille P. Markey Special Emphasis Pathway in Human Pathobiology and Dept. of Pediatrics. Clopton Aud., 4950 Children's Place.



Clockwise from left, sophomore Ken Ferrigni, junior Nicholas Tonks and senior Eric Goldlust play three avant-garde artists whose lives are changed forever by one woman in the comic drama "Artist Descending a Staircase."

Students direct, perform and design pair of murderous one-act plays

Students take their turn in the director's chair as the Performing Arts Department presents a pair of one-act plays packed with violence, murder and avant-garde artists for four shows April 27-30 in the Drama Studio, Room 208 Mallinckrodt Center.

The one-act plays — "The Ohio State Murders" by Adrienne Kennedy and "Artist Descending a Staircase" by Tom Stoppard — will be staged back-to-back at 8 p.m. April 27, 28 and 29, and 2 p.m. April 30.

"The plays explore how past experiences shape and influence people's art and how art helps people work through their past traumas," said Heather May, a graduate student and director of "The Ohio State Murders."

"The Ohio State Murders" is the story of a black female college student who gets involved with a white professor in the early 1950s and has his twin children. The relationship leads to the murder of one of her children, and generates experiences that she uses as grist for a successful writing career. The story unfolds as she is invited back to campus to speak on the frequent use in her writing of violent imagery: bloodied heads, severed

limbs, dead father, dead Nazis, dying Jesus.

The cast of "The Ohio State Murders" includes sophomore Cedric Derenoncourt and seniors Kathy Jo Carstarphen, Becky Henderson, Yahya Jeffries-El, Marion Oberle, Paul Reilly and April Woodard.

"Artist Descending a Staircase" is described by junior and director Sibyl Wickersheimer as both a comic drama and a murder mystery. The male characters are three avant-garde artists who are disciples of the first cult of post-modernists, including such artists as Marcel Duchamp, Man Ray, Picabia and Tristan Tzara. Sophie is a beautiful, intelligent and blind friend who falls in love with one artist, breaks the heart of another and changes all of their lives forever.

"It's a witty battle of love, death, murder and art that moves through the 1920s to the '70s," said Wickersheimer.

The cast of "Artist Descending a Staircase" includes sophomore Ken Ferrigni, junior Nicholas Tonks, and seniors Eric Goldlust and Kiva Schuler.

Tickets are \$8 for the general public and \$6 for senior citizens and University faculty, staff and students. For more information, call 935-6543.

Noon. Cell biology and physiology seminar. "Regulation of the Yeast Mating MAP Kinase Cascade by a Novel Tethering Protein," Elaine Elion, asst. prof., Dept. of Biological Chemistry and Molecular Pharmacology, Harvard Medical School. Room 426 McDonnell Medical Sciences Bldg.

Noon. Environmental engineering seminar. "An Overview of Pressure Relief Systems," Bob Lee, chief engineer, Associated Chemical Engineering Services, St. Louis. Room 216 Urbauer Hall. 935-8590.

1 p.m. Solid-state engineering and applied physics seminar. "Overview of Electrical Power Subsystems for Communications Satellites," R. Livingston, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall. 935-5565.

2 p.m. Radiation oncology lecture. The Norman K. Probstin Oncology Lecture. "The Biologic Basis of Altered Fractionation Schedules in Radiation Oncology," Jack Fowler, emeritus prof. of human oncology and medical physics, U. of Wisconsin, Madi-

son. Scarpellino Aud., First Floor, Mallinckrodt Institute of Radiology.

3 p.m. Math analysis seminar. "The Mean Value Property on Trees and on Rank One Symmetric Spaces," Massimo Picardello, prof. of mathematics, U. of Maryland, College Park. Room 199 Cupples I Hall.

4 p.m. Molecular microbiology seminar. "The Antiviral and Antiproliferative Properties of the Interferon Induced PKR: A Protein Kinase, RNA Binding Protein, and Tumor Suppressor Gene," Michael Katze, assoc. prof., Dept. of Microbiology, U. of Washington, Seattle. Room 775 McDonnell Medical Sciences Bldg. 362-7059.

7:30 p.m. Earth and planetary sciences seminar. "Volcanoes, Vapors and Venus," M. Bruce Fegley, assoc. prof., Dept. of Earth and Planetary Sciences, and fellow, McDonnell Center for the Space Sciences. Sponsored by the St. Louis Astronomical Society, Dept. of Earth and Planetary Sciences, and NASA Missouri Space Grant Consortium. Room 162 McDonnell Hall. 935-4614.

8 p.m. Philosophy lecture. "Varieties of Externalism," Donald Davidson, prof., U. of California, Berkeley. Alumni House Living Room. 935-7148.

Sunday, April 23

3 p.m. Art history lecture. "A Sacred Spring: Homer and Us," Sarantis Symeonoglou, prof. of art history and archaeology. Steinberg Hall Aud. 935-5270.

Monday, April 24

4 p.m. Biomedical engineering/biomedical computing seminar. "Coevolution to the Edge of Chaos," Stuart Kauffman, prof., Santa Fe Institute, Santa Fe, N.M. Room 322 Rebstock Hall. 935-6164.

4 p.m. Psychology colloquium. "Stress, John Henryism and Blood Pressure Changes in Blacks: The Pitt County Longitudinal Study," Sherman A. James, prof. and assoc. dean, School of Public Health, U. of Michigan, Ann Arbor. Room 102 Eads Hall. (Reception following in Room 218.)

Tuesday, April 25

4 p.m. Chemistry seminar. "Time-resolved Vibrational Spectroscopic Studies of Intra- and Intermolecular Energy Flow in Complex Molecules," John Jean, asst. prof., Dept. of Chemistry. Room 311 McMillen Lab. 935-6530.

4 p.m. Diabetes Research Group seminar. "Regulation of Glucose Transport in Skeletal Muscle," John Holloszy, prof. of medicine and applied physiology. Pathology Library, Room 3723 West Bldg. 362-7435.

Wednesday, April 26

6:30 a.m. Anesthesiology Grand Rounds. "Neural Networks in the ICU," Timothy G. Buchman, prof. of surgery, anesthesiology and medicine and section head, Trauma Burns and Surgical Critical Care. Wohl Hospital Bldg. Aud., 4960 Children's Place.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Prevention of Congenital Malformations in Offspring of Diabetic Women," Lorraine Milio, asst. prof., Division of Maternal Fetal Medicine. Clopton Aud., 4950 Children's Place. 362-3122.

4 p.m. Pathology lecture. "Urokinase Receptor: New Insights Into Structure and Function," Harold Chapman, assoc. prof. of environmental health, Harvard School of Public Health, and physician, Respiratory Division, Brigham and Women's Hospital, Boston. Third Floor Aud., St. Louis Children's Hospital. 362-3363.

5 p.m. Architecture lecture. Laura Miller, visiting asst. prof., School of Architecture. Room 116 Givens Hall. 935-6200.

Thursday, April 27

11:15 a.m. Mental health seminar. "Social Networks in Help-seeking and Service Utilization Among Mentally Disordered Persons," Bernice Pescosolido, assoc. prof., Dept. of Sociology, and principal investigator, Program for Services Research on Severe Mental Illness, Indiana U., Bloomington. Second Floor Conference Room, Administrative Bldg., 1130 S. Hampton Ave. 935-5741.

1:10 p.m. Social work lecture. "American Indian Families: Continuity and Change in the 20th Century," Gary Sandefur, prof., Dept. of Sociology, and assoc. vice chancellor for academic affairs, U. of Wisconsin, Madison. Brown Hall Lounge. 935-6600.

4 p.m. Earth and planetary sciences colloquium. "Low Temperature Igneous Evolution of the Galilean Satellites," Jeffrey S. Kargel, geologist, U.S. Geological Survey, Flagstaff, Ariz. Room 362 McDonnell Hall. 935-5610.

4 p.m. Oncology lecture. The Julia Hudson Freund Memorial Lecture. "Human Cytomegalovirus Immediate Early Proteins Block Apoptosis and Contribute to Oncogenic Transformation of Cultured Cells," Thomas E. Shenk, prof. of molecular biology,

Princeton U., and investigator, Howard Hughes Medical Institute. Moore Aud., 660 S. Euclid Ave.

4 p.m. Romance languages lecture. A talk by Henri Mitterand, prof. of French, Columbia U., New York, will kick off the conference "Women Writers in Pre-revolutionary France" to be held April 28-30. Women's Bldg. Lounge. 935-5175.

Friday, April 28

9:15 a.m. Pediatric Grand Rounds. "Flexortendon Healing," Richard H. Gelberman, prof. and chair, Dept. of Orthopaedic Surgery. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-3363.

1 p.m. Solid-state engineering and applied physics seminar. "Magnetoresistive Head Modeling," Mihir Sathe, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall. 935-5565.

4 p.m. Microbial pathogenesis seminar. "RNA-protein Interaction in Hepatitis B Virus Replication," Don Ganem, investigator, Howard Hughes Medical Institute, Dept. of Microbiology, U. of California, San Francisco. Cori Aud., 4565 McKinley Ave.

4 p.m. Music lecture. "Music and Light-housekeeping: West Coast Jazz in the Early 1950s," Robert L. Hughes, doctoral candidate in musicology. Room B-8 Blewett Hall. 935-5581.



Music

Thursday, April 20

8 p.m. Vocal jazz concert. Program: jazz standards, including "Mood Indigo," "Round Midnight" and "Blue Skies." Directed by Fred Binkholder, director, WU Vocal Jazz Ensemble. Graham Chapel. 935-5581.

Friday, April 21

8 p.m. Chamber choir concert. Program: "Purcell and His Successors," a program of English music that includes works of Henry Purcell, Samuel Wesley, John Stainer, Charles Stanford, Edward Elgar, William Walton and Herbert Howells. Graham Chapel. 935-5574.

Saturday, April 22

8 p.m. Piano recital. Program: music of Franz Joseph Haydn, Robert Schumann, Alexander Scriabin and Claude Debussy. Graham Chapel. 935-5581.

Sunday, April 23

2:30 p.m. Wind ensemble concert. "Almost Like Being There," a program that includes "Cartoon" by Phillip Hart, "Theater Music" by Phillip Sparke, Don Gillis' "Tulsa," and a feature performance by the WU Jazz Band. Saint Louis Art Museum Theatre, 1 Fine Arts Drive, Forest Park. 935-5581.

7:30 p.m. Harpsichord recital. Program: "Goldberg Variations," Maryse Carlin, harpsichord and piano teacher. Umrath Hall Lounge. 935-5581.

Tuesday, April 25

8 p.m. Student recital. Program: music of Samuel Barber, Béla Bartók, Domenico Scarlatti, Charles Griffes, Ralph Vaughan Williams and Kurt Weill. Graham Chapel. 935-5581.

Thursday, April 27

8 p.m. Flute recital. Program: music of Béla Bartók, Aaron Copland and Heitor Villa-Lobos. Graham Chapel. 935-5581.

8:30 p.m. Electronic music concert. Features the electronic music class with Richard O'Donnell, director. Tietjens Hall. 935-5581.



Performances

Thursday, April 20

8 p.m. Dance concert. Performed and choreographed by WU students. (Also April 21 and 22, same time.) Sponsored by Thyrsus and the Performing Arts Dept. Dance Studio, Room 207 Mallinckrodt Center. Cost: \$3. 935-5858.

Friday, April 21

8 p.m. Edison Theatre "OVATIONS!" series presents "Gray's Anatomy" with Spalding Gray, a comic storyteller, writer, actor and performer musing on medicine, mortality and mid-life crisis. (Also April 22, same time.) Edison Theatre. Cost: \$20 for the general public; and \$16 for senior citizens, WU faculty, staff and students. 935-6543.

Thursday, April 27

8 p.m. Performing Arts Dept. presents "One-act Plays," directed, acted and designed by students. (Also April 28 and 29, same time.) Drama Studio, Room 208 Mallinckrodt Center. Cost: \$8 for the general public; and \$6 for senior citizens, WU faculty, staff and students. 935-6543.



Miscellany

Friday, April 21

8:15 a.m. Office of Continuing Medical Education workshop. "Current Issues in Amplification." Continues through April 22. St. Louis Marriott West, 660 Maryville Centre Drive. For schedules, cost and credit info., call 362-6893.

Saturday, April 22

10-11:30 a.m. Bookmaking workshop. "The Road to Self-publishing." Three St. Louis authors tell of their adventures in self-publishing: Merryl Winstein, who wrote and illustrated her own book; Laura Dale Plummer, author of a book on regional foods; and Elaine Floyd, who self-published several books on newsletters. Bixby Gallery,

Sports

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

Baseball Bears secure third 20-win season

With a 14-4 victory over Greenville College on April 12, Washington notched its 20th win of the season — the third time in the last four years that the Bears have won 20 or more games. Junior Andrew Denlow, Evanston, Ill., provided the early offense, blasting a four-run homer in the third inning for a 7-1 Bear lead. It was Denlow's first career grand slam. First-year pitcher Bob Allen, Ellisville, Mo., starred on the mound, scattering nine hits and striking out a career-high 10. In the Bears' only other game, Washington succumbed to Division I Saint Louis University 15-4. The Bears finish the regular season with eight road games in an eight-day stretch.

Current record: 20-13 (5-1 UAA co-champions)

This week: 7 p.m. Wednesday, April 19, at McKendree College, Fairview Heights, Ill.; 3 p.m. Thursday, April 20, at Missouri Baptist College, St. Louis; 6 p.m. Friday, April 21, at Maryville University, St. Louis; 12:30 p.m. Sunday, April 23, vs. Wittenberg University, Greencastle, Ind.; 3 p.m. Sunday, April 23, at DePauw University, Greencastle, Ind.

Track team performs well in final UAA tune-up

The track and field teams combined to chart 24 season-bests at Saturday's Southern Illinois University-Edwardsville Relays — their final tune-up before next weekend's UAA Outdoor Championships. Senior Antone Meaux, Cincinnati, provided the weekend's highlight, earning a provisional ticket to the NCAA Division III Championships by flying 7.20 meters (23' 7 1/2") to win the long jump. On the women's side, sophomores Carrie Woods, Hinsdale, Ill., and Alyce Nelson, Oberlin, Ohio, placed third in the triple

Bixby Hall. Cost: \$20. For more info. and to register, call 935-4643.

11 a.m.-8 p.m. Thurtene Carnival. This year's theme is "Light Up the Sky." Features a variety of games, food booths, rides and skits. (Also April 23, same time.) Proceeds benefit St. Louis Transitional Hope House, which helps families break the cycle of homelessness. North Brookings parking lot. 935-3033.

Monday, April 24

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

Wednesday, April 26

8 p.m. Student poetry readings. Karen Helfrich and Barbara Orton, students of the master of fine arts program. Sponsored by the Dept. of English. Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Friday, April 28

11 a.m. Romance languages conference. "Women Writers in Pre-revolutionary France." Madeleine Lazard, Sorbonne Nouvelle, Paris, will deliver the keynote lecture, "The Birth of Women's Autobiography — Marguerite de Valois' 'Memoires.'" Conference continues through April 30. More than 100 scholars from South Africa, France, Canada and the United States are expected to attend. Sponsored by the Dept. of Romance Languages and Literatures. Radisson Hotel, 7750 Carondelet Ave., Clayton. Advance registration required. Cost: \$60. For more info. and to register, call 935-5180.

Saturday, April 29

9 a.m.-noon. Bookmaking workshop. "Illustrate a Book With Rubber Stamps." Room 104 Bixby Hall. Cost: \$35. 935-4643.

9 a.m.-4 p.m. Tyson Research Center family day. Includes crafts, nature walks, pond studies, cave tours and snake observations. Tyson Research Center, Eureka, Mo. For directions or more info., call 935-8430.

jump (33' 0 1/4") and fourth in the high jump (5' 0 1/2"), respectively.

This week: Saturday-Sunday, April 22-23, at UAA Outdoor Championships, Chicago

Women's tennis team faces tough competition

Facing the premier Division III programs in the region, the women's tennis team posted a solid showing at last weekend's Midwest Invitational Tournament. The Bears earned a 1-2 mark and advanced to the finals of the loser's bracket. Sixth-seeded WU lost to second-seeded Luther College (9-0), then came back to beat seventh-seeded Kalamazoo College (5-4), before losing to fourth-seeded DePauw University (5-4). Sophomore Sara Roberts, Billings, Mont., was the only Bear to win three matches — earning a 1-2 singles mark and a 2-1 doubles record.

Current record: 12-4 in spring (17-4 overall)

This week: Friday-Sunday, April 21-23, at UAA Championships, Atlanta

Men's tennis team boosts winning streak to seven

Before closing out their season with the Eighth Annual UAA Championships in Atlanta this weekend, WU's men's tennis team looks to extend its seven-match winning streak to eight on Tuesday, April 18, vs. Sangamon State University. The Bears defeated Saint Louis University 4-3 and Greenville College 5-2 in last week's action.

Current record: 8-4

This week: 3:30 p.m. Tuesday, April 18, vs. Sangamon State University, Tao Tennis Center; Friday, April 21-Sunday, April 23, at UAA Championships, at Emory University, Atlanta

'Take Our Daughters to Work Day' features Internet spin, South 40 tours

Daughters of Washington University employees are encouraged to join their parents at work on Thursday, April 27, as part of the second annual "Take Our Daughters To Work Day." On that day, girls between the ages of 9 and 15 will be helping their mothers and fathers teach classes, conduct research, answer telephones, write articles, fix electrical problems, plan events and dozens of other work-related activities on both the Hilltop and Medical campuses.

"Take Our Daughters to Work Day" is designed to give young girls positive messages about work and self-worth. The event was created by the Ms. Foundation for Women, based in New York, and brought to Washington University last year by a group of women administrators. This year, organizer Jane Schoenfeld, associate dean of Undergraduate Admission, has planned a day of optional activities to complement individual workdays.

Participants are invited to take a 30-minute spin on the Information Superhighway at Olin Library at 9 a.m. or 10 a.m. (advanced registration required). A campus tour will depart from the Admission Office, Room 107 South Brookings Hall, at 11 a.m. and return at noon. A brown bag lunch will be held in the Women's Building Formal Lounge from noon to 1 p.m., with entertainment provided by the Greenleafs, the University's female a cappella singing group. Soft drinks and dessert will be provided. At 3 p.m., the young visitors are invited to meet members of the four-time NCAA Division III National Championship women's volleyball team and coach Teri Clemens at the Athletic Complex. After a discussion, team members will lead the girls on a South 40 tour, returning by 4:15 p.m.

Interested parents should get permission from their supervisors and call Sue Pacheco at 935-8505 to register and receive more information.

Last year, millions of daughters nationwide participated in "Take Our Daughters to Work Day," joining grandparents, aunts, uncles, siblings, cousins, neighbors and

friends, in addition to parents. Although it is difficult to gauge how many daughters visited Washington University during last year's event, then-organizer Shirley Baker, dean of University Libraries, said participation was strong and almost equally divided between mothers and fathers.

According to the Ms. Foundation, the day was designed to show young girls, especially adolescents who are prone to low self-esteem, the importance of a fulfilling career. The foundation's research proposes that the self-esteem of young girls often plummets by the time they reach 15, when, in many cases, early confidence in their abilities gets subsumed by a focus on appearance. If adults support girls through their teen years by validating their opinions, offering strong role models and helping them navigate the transition into adulthood, girls stand a better chance of emerging physically and psychologically healthy, according to literature from the Ms. Foundation.

The theory behind "Take Our Daughters to Work Day" is that, contrary to what parents might think, children and young adults do pay attention to their elders. This year's theme is "A girl is watching. What is she learning?"

Representatives of the Ms. Foundation estimate that by the turn of the century, eight out of every 10 women between the ages of 25 and 54 will be working because they want and/or need to work. In addition, for the first time in history, a majority of new jobs will require education or training beyond high school.

"It's more important than ever that our daughters — the next generation — have the chance to witness first-hand the variety of ways women contribute to society and the economy, so they can begin to think realistically about their own options," Schoenfeld said. "Washington University is an especially appropriate location for this event, as it allows young girls to see the value of higher education and the interesting things going on in classrooms, labs and offices across campus."

— Susannah Webb

Sen. Danforth returns to law, church — from page 1

Danforth said he is most proud of his Civil Rights Act of 1991, one of the nation's basic statutes for fairness in hiring, promotion and other employment practices. That same year, he was the Senate sponsor of Supreme Court Justice Clarence Thomas, who succeeded Justice Thurgood Marshall.

As the ranking Republican member of the Committee on Commerce, Science and Transportation, which he chaired in 1985-86, Danforth was the first Missouri senator to chair a major legislative committee since World War I. He soon became a widely respected authority on international commerce. Closer to home, his influence greatly benefited Missouri, as he led the effort to secure annual Congressional funding for MetroLink and enacted legislation prompting the reorganization of TWA, which was in Chapter 11 bankruptcy in 1992. Nationally, Danforth was principal author of legislation to improve safety standards for professional drivers, strengthen laws against drunken driving, increase the safety of passenger vehicles, and expand and modernize the air transportation system. In the 102nd Congress, he was the principal sponsor of the Cable Television Consumer Protection Act, which sought to stimulate competition in the cable TV industry.

As a senior member of the Finance Committee, Danforth devoted significant attention to U.S. tax and international trade policies, and emerged as the Senate's chief architect of retaliatory trade legislation aimed at the Japanese and other countries that erected barriers against the importation of American products. His trade legislative accomplishments involved expanding U.S. exports, establishing the concept of reciprocity in trade by removing foreign trade barriers to U.S. goods and services, and providing better assistance to workers and firms injured by imports. He also proposed and supported legislation encouraging affordable housing, spurring research and development,

and fostering capital formation and the modernization of plants and equipment.

Danforth also was a member of the Select Committee on Intelligence and was active in efforts to address healthcare costs, improve education, stimulate rural economic development, encourage soil conservation, increase federal support for basic scientific research, and reduce hunger and malnutrition throughout the world.

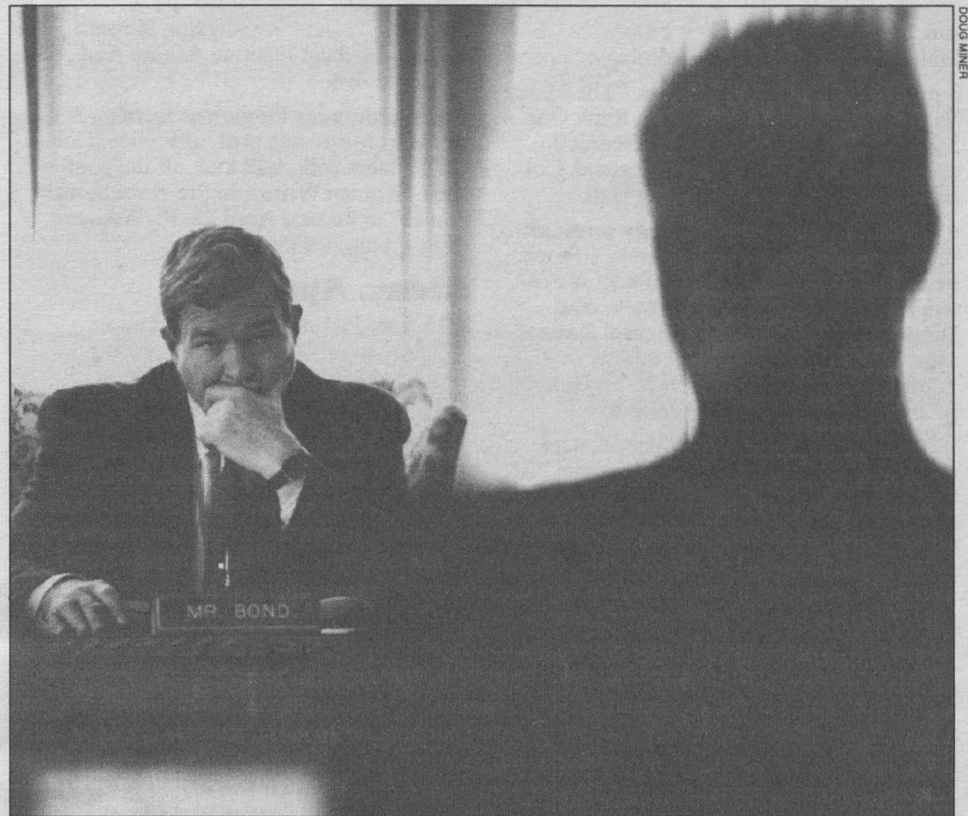
Danforth and his wife, Sally, recently returned to their hometown of St. Louis to embark on life after the Senate. In his new role as an attorney for the Bryan Cave law firm and as an Episcopal minister, Danforth also plans to devote his attention to InterACT, a project he founded to enable church members of all faiths to help boys and girls of the inner city.

Brookings lot closed for Thurtene Carnival

The 600-space parking lot in front of North Brookings Hall will be closed through Tuesday, April 25, for construction of Thurtene Carnival, which will be held from 11 a.m. to 8 p.m. Saturday, April 22, and Sunday, April 23. Arrangements have been made with the St. Louis Parks Department to allow parking on the north side of Grand Drive and both sides of Lagoon Drive in Forest Park.

Gary Sparks, director of transportation, noted that daily counts by his department have shown numerous open spaces in the Millbrook Garage. He urged drivers to park there, as well as consider parking in the garage at West Campus during this period. Off-site parking shuttles leave the corner of Forsyth and Jackson at West Campus every 10 minutes.

Cars parked without permits and/or with multiple violations will be towed. For more information, call 935-5601.



U.S. Sen. Christopher "Kit" Bond, R-Mo., held a U.S. Senate hearing in the Women's Building Formal Lounge April 12.

University hosts U.S. Senate hearing on small business entrepreneurship

Washington University was host to its first U.S. Senate hearing in recent memory April 12, when U.S. Sen. Christopher "Kit" Bond, R-Mo., as chair of the U.S. Senate Committee on Small Business Entrepreneurship in America, heard testimony from small business owners, lenders and investors. Included on a panel of experts was Murray Weidenbaum, Ph.D., Edward Mallinckrodt Distinguished University Professor of economics and director of the Center for the Study of American Business at Washington University.

The hearing, which took place in the Women's Building Formal Lounge, was the first of a series that Bond is holding across the country on the importance of small business access to capital. The hearings are in response to the U.S. Senate's proposed cuts to the Small Business Administration (SBA), which provides guarantees to lenders on loans they make to small businesses.

One panel comprised business owners who have achieved success with the help of SBA loans. St. Louis restaurateur Ramon A. Gallardo testified how a \$160,000 SBA loan in 1974 was the springboard for the first Casa Gallardo restaurant, of which there are now 38 in the Midwest and Southwest employing 3,000 people. Other Gallardo ventures, including five restaurants in St. Louis, generate approximately \$20 million in annual sales and employ about 1,000 people.

"The Small Business Administration's confidence in my Mexican concept changed my life and, in turn, altered the lives of many people," Gallardo said. "Several have called this the American Dream. I call it a miracle. I don't believe that I would have found this type of government assistance anywhere else in the world."

Another panel of lenders and investors testified to the necessity of SBA loans in stimulating the growth of small businesses, which are the backbone of the nation's economy, employing 54 percent of America's work force and generating 50 percent of the gross domestic product.

James F. O'Donnell, chair of Capital for Business Inc. of St. Louis, discussed the importance of the Small Business Investment Company (SBIC), a 36-year-old SBA program that invests in small businesses that might otherwise have difficulty securing long-term loans and equity financing. William W. Zielonko, senior vice president for the Retail Banking Division of Boatmen's Bank, described Boatmen's Civic Ventures Investment Fund, which, with SBA funding and private capital, helps socially or economically disadvantaged entrepreneurs and their communities create successful business ventures.

In his testimony, Weidenbaum accused the federal government of hurting small business by imposing a debilitating array of regulations and mandates; by financing a huge budget deficit, which drains a large portion of the funds in capital markets; by reducing the amount of earnings that can be reinvested with high tax rates; and by discouraging potential investors in risky new and small companies with high capital gains taxes.

"What should be done? The federal government needs to reduce the deficit, reform the tax system and streamline government regulation," Weidenbaum said. "Progress on these three fronts will do far more to ease the financing burden on small businesses than any special purpose legislation aimed to help small companies."

— Susannah Webb

Campus Watch

The following criminal incidents were reported to the University Police Department April 10-16. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

April 10

9:47 a.m. — A Marriott employee reported that a glass shield had been broken on the salad bar in The Gargoyle.

2:18 p.m. — A Marriott employee found a wallet in The Gargoyle. University Police contacted the owner, who said that \$20 was missing.

April 11

12:18 p.m. — A videocassette recorder was reported stolen from a classroom in Simon Hall sometime between 9:30 p.m. April 10 and 11 a.m. April 11.

1:11 p.m. — A student's vehicle parked in the Millbrook Parking Garage was reported scratched.

April 12

8:10 a.m. — A Spann employee was arrested

for shoplifting two packs of cigarettes from the Campus Bookstore in Mallinckrodt Center.

9:17 p.m. — University Police arrested a man in the Mudd Law Building courtyard for trespassing.

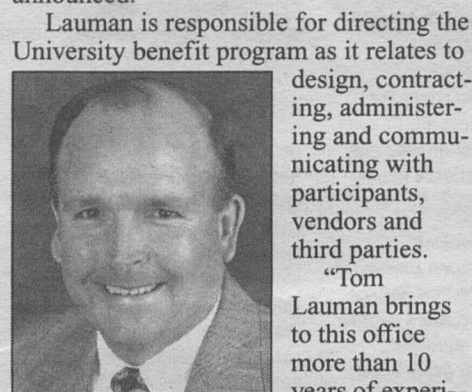
April 14

1:15 p.m. — A student's bicycle was reported stolen from the rack on the south side of Olin Library sometime between 10 a.m. and 1 p.m.

In addition to the incidents listed above, four counts of indecent exposure were added to the two counts already filed against a man arrested in Olin Library earlier this month. Four previous victims of the subject, who allegedly repeatedly exposed himself in the Mudd Law Building, identified that same man through mug shots. The subject is not affiliated with Washington University. Also, graffiti was discovered in several areas on campus.

Thomas Lauman appointed employee benefits director

Thomas W. Lauman has been named director of employee benefits for Washington University, Gloria W. White, vice chancellor for human resources, has announced.



Thomas W. Lauman

Lauman is responsible for directing the University benefit program as it relates to design, contracting, administering and communicating with participants, vendors and third parties. "Tom Lauman brings to this office more than 10 years of experience in benefits design and the administration and communication of health, life, disability and retirement plans, in addition to more than 10 years of experience in financial accounting and controlling of four different corporate entities," White said. "We are fortunate to have attracted someone of Tom's caliber to direct and communicate Washington University's benefits programs."

Prior to joining Washington University, Lauman was director of employee benefits at Wetterau Inc. in Hazelwood, Mo., where he worked for 23 years. During that time, he directed 15 corporate and more than 80 union benefit plans; recommended and implemented seven new benefit plans and more than 30 design changes to existing plans; and communicated and administered 15 insurance and six pension plan conversions for company acquisitions.

In addition, he recommended and implemented four managed care programs, including PPOs and HMOs, and achieved below-budget healthcare expenses for Wetterau Inc. from 1983 to 1993.

Lauman graduated from St. Louis University in 1969 with a bachelor's degree in business. He is a Certified Employee Benefit Specialist and member of the International Foundation of Employee Benefit Plans and the Employee Benefits Association of St. Louis.

White also announced that Harry J. Riedmeyer, associate director of human resources, retired after 24 years of service.

Phillip Gould named to Missouri Seismic Safety Commission

Phillip L. Gould, Ph.D., Harold D. Jolley Professor and chair of the Department of Civil Engineering, has been appointed to the Missouri Seismic Safety Commission by Gov. Mel Carnahan.

Gould, an expert in earthquake engineering and a board member of the Earthquake Engineering Research Institute, joins 15 other specialists and State Legislature members on the commission. He initially will serve a one-year term, with the possibility of reappointment.



Phillip L. Gould

His term begins this month. The commission will evaluate the state's readiness for a major earthquake and develop a response program.

Gould additionally has received the prestigious 1995 Otto Nuttli Award for Midwestern Earthquake Preparedness from the American Society of Civil Engineers' St. Louis Section. Gould was honored for his many research and public service efforts involving earthquake preparedness.

Nuttli, who died in 1987, was a nationally regarded St. Louis University researcher who pioneered the study of the 1811-12 New Madrid Earthquake. He was a great proponent of earthquake preparedness in the greater St. Louis area. Gould received the award during an April 11 ceremony at the Engineers Club of St. Louis.

For The Record

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

Of note

Zhaohai Li, Ph.D., assistant professor of biostatistics, received a five-year \$482,251 First Independent Research Support and Transition Award from the National Cancer Institute for a project titled "Statistical Methods in Cancer Research." **Michael W. Vannier**, M.D., professor of radiology and head of the image processing laboratory at the School of Medicine's Mallinckrodt Institute of Radiology, is a collaborator on the project. ...

Jay F. Piccirillo, M.D., assistant professor of otolaryngology and director of the Clinical Outcomes Research Office, received a \$15,000 grant from the American Laryngological Association for research on the "Measurement of Voice Function and Voice-related Quality of Life."

Speaking of

During the Missouri Association of Plastic and Reconstructive Surgeons' Scientific Program at the Adam's Mark Hotel in St. Louis, **Harold J. Brandon**, D.Sc., affiliate professor of mechanical engineering,

delivered papers on "Biomechanical Analysis of Breast Implants" and "Finite Element Modeling in Breast Implant Design." In addition, **Clarence Wolf**, Ph.D., research professor of chemical engineering, presented a paper titled "Biochemical Analysis of Breast Implants" at the meeting. **V. Leroy Young**, M.D., professor of plastic and reconstructive surgery, is co-principal investigator on the research projects, which are being conducted under a grant from the Plastic Surgery Education Foundation. The program was held in conjunction with the Missouri Medical Association's meeting. ...

Elizabeth C. Childs, Ph.D., assistant professor of art history, delivered a lecture titled "From Pont-Aven to Polynesia: Gauguin and Primitivism" at a symposium on Paul Gauguin held at the Walters Art Gallery in Baltimore. ...

During the 21st annual Third World Conference in Chicago, several graduate students presented papers. Those who delivered papers, along with the topics of their presentations, are: **Barbara R. Dilthey**, international affairs, maquiladora industry in Mexico; **Whitney Erickson**, MBA and certificate candidate in international affairs, future of Mexican maquiladoras; **David C. Grace**, international affairs, how credit affects fertility

rates in Bangladesh, Indonesia, Peru and Ecuador; **Haruyo Nakamura**, social work, income-generating projects for poor rural women in the Third World; **Mark L. Reichman**, international affairs, telecommunications privatization; **Bennet C. Schmidt**, international affairs, overpopulation and overconsumption; and **Edgar W. Schmidt**, international affairs, cookstove programs in developing countries. In addition, **Eugene B. Shultz Jr.**, Ph.D., professor emeritus of technology and human affairs, spoke during the conference's opening plenary session. He spoke on "Future Directions in the Teaching of Third World Studies." ...

Sol L. Garfield, Ph.D., professor emeritus of psychology, presented a workshop on "Developments and Issues in Psychotherapy, Particularly Brief Psychotherapy" for the Idaho Psychological Association in Sun Valley, Idaho.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity to For The Record c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

Hitzeman receives Eliot award for outstanding service

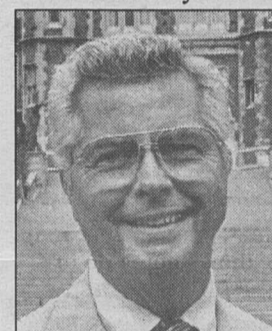
Herbert F. Hitzeman Jr., retired senior vice chancellor for university relations, was awarded the 1995 William Greenleaf Eliot Society Award April 11 during the society's annual dinner at the Ritz-Carlton Hotel in Clayton. The award recognized Hitzeman's outstanding service to Washington University during his 24 years as a member of the University administration and for his continued association with the University since his retirement in 1990.

The William Greenleaf Eliot Society was founded in 1959 in tribute to Washington University's founder. Since that time, the generosity and support of members has contributed to the University's growth and success. Each year, the award is given to an outstanding citizen of the University community. Last year's recipient was Lee M. Liberman, former chair of the Washington University Board of Trustees and chair emeritus of Laclede Gas Co.'s board.

John K. Wallace Jr., outgoing president of the Eliot Society, presented Hitzeman with a silver replica of Heikki Seppä's "The Search." The original sculpture is part of the Gallery of Art collection. Seppä is professor emeritus of art.

The keynote speaker at the event, Chancellor William H. Danforth, remarked: "It is a great personal privilege for me to see Herb receive this honor in

recognition of his long-standing service to the University. It is beyond the scope



Herbert F. Hitzeman Jr.

of this presentation to describe what Herb's efforts have meant in securing support for literally thousands of student scholarship recipients, for our faculty, for our teaching and research programs, and for major building projects. Without Herb Hitzeman, Washington University would be a lesser institution."

Hitzeman built the University's fund-raising program for more than two decades and guided the University through what at that time was the most successful fund-raising campaign in the history of American philanthropy. During his leadership of the advancement program, Washington University's reputation and visibility increased significantly nationally and internationally.

Hitzeman joined the University's development staff in 1966 and planned and directed the "Alliance For Washington University" campaign that was completed

in 1987 with a grand total of \$630.5 million in gifts and commitments. When the campaign was launched in 1983, its goal was \$300 million.

In 1968 Hitzeman was named director of the University's "Seventy By 'Seventy" program after serving as director of the medical and alumni phases. The \$70 million goal was reached a year ahead of schedule in 1969.

That same year Hitzeman was named director of development and a year later was promoted to associate vice chancellor. From 1973 to 1976 he headed a second major campaign that raised \$120 million and successfully was completed two years ahead of schedule. In 1975 he was named vice chancellor and in 1983 was promoted to senior vice chancellor for university relations.

Under Hitzeman's direction, total yearly giving to the University climbed from the \$5 million range to nearly \$50 million in fiscal year 1989. The final figure over his career for campaigns alone was \$860 million.

A 1953 bachelor of fine arts graduate of Washington University, Hitzeman resides with his wife, Jane (also a Washington University graduate), in Glencoe, Mo. Since his retirement the couple has pursued their love of sailing and travel and interests in St. Louis.

Olin foundation endows fellowships for medical sciences training — from page 1

Medical Campus. Groundbreaking ceremonies for the residence hall were held on Dec. 5, 1958, and the dedication took place on Feb. 24, 1961. Olin was the medical school's first dormitory. Olin, who devoted much of his life to supporting the Republican Party, was awarded an honorary doctor of laws degree from the University in 1969.

The late Ann Whitney Olin, Spencer Olin's wife, established the James E. Whitney Scholarships in memory of her father in 1975. In addition the couple, along with their daughter, current trustee Mary Dell Pritzlaff, was among the most generous supporters of the Monticello College and the Monticello College Foundation, which succeeded it. Ann Whitney Olin's allegiance to Monticello was an enduring one. She, as well as her mother, Norah Dell Hatheway Whitney, and Pritzlaff graduated from Monticello. Ann Whitney Olin died on Nov. 11, 1976, at age 70.

In 1974, to perpetuate the interest of the Spencer T. Olin family in the education of women, The Monticello College Foundation and Washington University jointly established the Mr. and Mrs. Spencer T. Olin Fellowships for Women at Washington University to broaden opportunities for

those who wish to pursue graduate and professional studies.

For their distinguished service to Washington University, Spencer Olin and his wife were awarded the William Greenleaf Eliot Society Award in 1975. At that time they were cited not only for the fellowships that bear their name, but also for their many other contributions, including the residence hall and other facilities at the School of Medicine as well as an endowed professorship and a scholarship fund. In 1979 the Women's Building was rededicated "The Ann Whitney Olin Women's Building" in tribute to the Olin families' generosity to Washington University.

In 1986 Pritzlaff, representing the Spencer T. and Ann W. Olin Foundation, announced a commitment of \$30 million to the School of Medicine's Division of Biology and Biomedical Sciences to permanently endow training in the medical sciences. The gift provides \$1.5 million each year for the next 20 years and is part of the University's permanent endowment. In recognition of his long-term commitment, dedication and generosity to the School of Medicine, Olin received a Second Century Award from the school in 1992.

The Spencer T. and Ann W. Olin Medical Fellowships were created in an effort to help fill the continuing shortage of physicians who pursue careers in biomedical research. The awards are primarily for students in the six-year Medical Scientist Training Program, which trains students simultaneously as physicians and researchers and grants a combined M.D./Ph.D. degree. Olin Fellowships also are awarded to selected students pursuing doctoral degrees in biomedical science.

The awards provide full tuition and annual stipends. Since the program began in 1987, 105 students have been selected Olin Fellows. In addition to funding the fellowship program, the gift supports an annual Olin Symposium focusing on biomedical research, an annual retreat for M.D./Ph.D. students and assists in the training of M.D./Ph.D. students.

In addition to Pritzlaff of Santa Barbara, Calif., Olin is survived by two other daughters, Barbara Ann Taylor of Hobe Sound, Fla., and Eunice Whitney Higgins of Greenwich, Conn.; a son, Spencer Truman Olin Jr. of Hartford, Conn.; 14 grandchildren; 19 great-grandchildren; and nieces and nephews.

Opportunities & personnel news

Hilltop Campus

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

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

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

Associate Director of Executive Programs 950222. John M. Olin School of Business. Requirements: master's degree in business administration or equivalent; minimum of five years of executive development or university administration experience preferred; some weekend and evening availability and some travel. Duties: manage all operations of Executive Programs, including customized executive education programs and the Executive MBA program; manage the operating budget and accounting controls as well as staff management. Resumé required.

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

year experience in a plant of comparable size. Application required.

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

Software and Network Manager 950231. Department of Economics. Requirements: undergraduate degree or equivalent experience; preferred languages include BASIC, C, Fortran, SAS, UNIX. Resumé required.

Department Secretary 950232. Alumni and Development Programs. Requirements: high school graduate, associate's degree preferred; typing 40 wpm with accuracy; strong background with personal computers; experience with Microsoft Word preferred; pleasant, professional manner with co-workers, volunteers, vendors; ability to handle multiple tasks in an organized, accurate and timely manner; excellent verbal and written skills; ability to work extra hours if necessary. Clerical tests required.

Materials Distribution Assistant 950233. Facilities Planning and Management. Requirements: high school graduate, some college or technical school preferred; retail or wholesale inventory experience desirable; mechanical aptitude and knowledge of electrical, plumbing, HVAC, and hardware desirable; dependable, honest and reliable; ability to lift objects up to 50 pounds; good communication skills; ability to use two-way radio and telephone. Resumé required.

Senior Internal Auditor 950236. Accounting Services. Requirements: undergraduate degree; CPA or CIA preferred; three years of professional auditing experience; ability to develop clear, concise, and thorough audit workpapers and audit reports; proven ability to work harmoniously with people and to communicate effectively, verbally and in writing, with all levels of faculty, management, and operating staff; familiarity with data processing systems and procedures; awareness of the use of flowcharting techniques and computer capabilities as audit tools. Resumé required.

Personal Computer Support Technician 950237. School of Law. Requirements: certificate or associate's degree, bachelor's degree preferred; extensive experience with IBM mainboards, add-on cards, hard disk drives, communication hardware and software; some network experience helpful; experience with a variety of personal computer-based software, specifically WordPerfect, Windows, spreadsheets, scanning (OCR), and database; strong DOS background; ability to stay on track regardless of interruption and to do so without prompting; ability to work independently for long periods without instruction; excellent verbal communication skills. Resumé required.

Administrative Specialist 950241. Department of Earth and Planetary Sciences. Requirements: some college; five years general office experience; proficiency with advanced word processing software, Word Perfect 5.0 or higher strongly preferred; experience with DOS, Windows, and Lotus 1-2-3 preferred; ability to interact courteously and efficiently with faculty, staff, students and visitors; ability to organize and prioritize work assignments; ability to master administrative procedures; ability to work under minimal supervision; ability to meet deadlines; ability to supervise and train student assistants. Clerical tests required.

Medical Campus

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

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

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

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

RN Staff Nurse 950668-R. Metabolism. Schedule: part time, 24 hours per week, 8 a.m.-5 p.m. Tuesdays, Wednesdays and Fridays; occasional weekends and early evenings. Requirements: graduate of an accredited school of nursing with current Missouri license; one year nursing experience and familiarity with clinical research. Duties: conduct and coordinate clinical research protocols.

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

User Support Specialist 950748-R. Medical Computing Services. Requirements: bachelor's degree in related discipline or equivalent technical training preferred; experience with DOS, Windows, MAC-

ROS and common office support software packages.

Project Leader (Data Processing) 950750-R. Medical Computer Network. Requirements: bachelor's degree in computer science, management information systems or engineering with one to three years experience managing a technical team.

User Support Technician 950754-R. Washington University Shared Billing Collection Service. Requirements: associate's degree in relevant field or equivalent training; two to four years experience in medical business environment in billing, scheduling or management preferred; IDX experience.

Medical Secretary II 950757-R. Cardiology. Requirements: high school graduate or equivalent; three years experience in a medical office setting; knowledge of medical terminology, medical reports and medical insurance; experience with WordPerfect 5.1; typing 60 wpm.

Secretary/Receptionist 950760-R. Washington University Shared Billing Collection Service. Requirements: high school graduate or equivalent with two years related experience; familiarity with telephone console and computer systems; typing 50 wpm.

Dialysis Nurse 950764-R. Kidney Center. Schedule: Full time, 12.5 hours per day, three days per week, rotating Saturdays. Requirements: graduate of an accredited school of nursing with Missouri license.

Surgical Assistant-Animal 950769-R. Cardiology. Requirements: associate's degree, bachelor's degree preferred; animal surgery skills; ability to analyze data and plan projects independently.

User Support Analyst II 950774-R. Medical Computer Network. Requirements: bachelor's degree in computer science, management information systems or engineering, plus one year of experience in providing end-use support and one year experience with networking applications; expertise with Windows operating system and Macintosh.

Statistical Data Analyst 950780-R. Finance Office. Requirements: high school graduate or equivalent with three years related work experience; experience in FOCUS report writing, data management, spreadsheet development and account analysis; IBM or Macintosh personal computer experience.

Statistical Data Analyst 950784-R. Biostatistics. Requirements: bachelor's degree, master's degree preferred; SAS experience with data analysis or data management. Duties include assisting investigators in the design of experiments, clinical trials and epidemiological studies.

Medical Secretary I 950790-R. Metabolism. Requirements: high school graduate or equivalent; some business or secretarial school training preferred; experience with WordPerfect and Lotus 1-2-3 or other spreadsheet software; knowledge of medical terminology; typing 60 wpm.

Q&A

Addressing employee questions concerning the Washington University community

Q: What is the smoking policy on campus? Is it in effect 24 hours a day, or just during working hours? Are there any buildings/areas in which smoking is permitted?

A: According to the University's smoking policy, all University spaces are non-smoking unless otherwise indicated. Departments responsible for a given space may designate smoking areas. All areas without signs

are considered non-smoking. Hilltop residence halls determine their own smoking policies, which must be in compliance with the provisions of the Missouri Smoke-free Air Act. — **Edward S. Macias, Ph.D., provost**

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

Olin Cup judges impressed with students' professionalism, energy — from page 1

— Gourmet cookies, top-quality ice-cream and specialty coffees.

Third Place — "American Correction Centers: A Market Solution to a Government Dilemma" — Privately run prison system for better, less-expensive incarceration and a future for inmates.

The toughest section of the competition is facing the questions of the judges: Knight of Emerson Electric Co.; Andrew C. Taylor, president, Enterprise Rent-A-Car; and Eugene F. Williams Jr., former chair of St. Louis Union Trust and Centerre Trust (now Boatmen's Trust).

"Students get grilled for 10 minutes by the likes of Chuck Knight, Andy Taylor and Gene Williams and they can be the longest 10 minutes you've ever experienced," Roberts said. "The judges push the students to defend every aspect of their ideas from marketing to finance to implementation. Students go all out in preparing their concepts and defense."

Richters said she and her fellow "Multimedia House" team members prepared their presentation — of course — with sophisticated multimedia programs.

"We tried to anticipate any objections," Richters said. "After the semifinals, we got together and racked our brains about anything they could ask us."

The preparation paid off. The team had an answer for nearly every one of the judges' questions. Not only an answer, but a graphic illustration at the ready.

Taylor said the judges were very impressed by the professionalism of the presentations and thoroughness of the finalists' proposals.

"We were very impressed at how tuned in they were to the business world, and even though there may be holes in their presentations, I think their energy and level of expertise and maturity is really outstanding," he said. "It's a lot of fun for the judges and very energizing."

Preparing for the judges' questions forced the "Multimedia House" team to answer so many questions for themselves, that after the competition they carefully considered whether to actually start the business, Richters said. They had the money, they had the skills, they

had the knowledge and an available market.

"We were so excited that we met to talk about starting up," she said. "It's a great opportunity, but I'm really the only person in a position to do it."

"If we wanted to do this, we could do this, based on the reaction we got from people asking for our services," Richters said. "We're a little disappointed in missing an opportunity."

Roberts said many of the students work on projects with at least a hope that they will become reality. "Most of the ideas are not just pie-in-the-sky, but real business projects the students want to make happen," he said.

"Cookies & Cream" team members are looking for investors to start the business, and "Baby's First" team members looked at starting their winning business.

But the baby store is at least on hold, members said, in part because they already have a thriving business on campus. The four team members, all juniors, bought "WashUWash," a laundry service, during their freshman year. The

group incorporated as Rooke Enterprises Inc., got a lawyer and is making a profit. They've also been getting an education, said Julie Uhrman, one of the investors with twin sister, Amy.

"We learned a lot about advertising and what type of packages to offer to customers and what to expect and what's realistic," Julie Uhrman said. Working on the Olin Cup project helped broaden their knowledge.

"We got great experience and learned things we hadn't learned in class yet, such as marketing, financial perspectives and in-depth studies of competitors and customers," Julie Uhrman said. "If I wanted to open 'Baby's First,' I know I could do it."

Amy Uhrman said she and her sister know they are skilled at business. "I think it's just a killer instinct combined with self-confidence," she said. "You either have an entrepreneurial spirit or you do not have an entrepreneurial spirit. You have the idea that there's nothing out of your reach. All you have to do is work hard and take advantage of your resources." — **Catherine Behan**