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Record

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 19 No. 32 May 18, 1995

More than 2,300 to receive degrees at Commencement

More than 2,300 degrees will be awarded at Washington University's 134th Commencement on Friday, May 19. Of the candidates, approximately 1,249 are undergraduate students and 1,322 are graduate students.

Commencement begins at 8:30 a.m. with the traditional academic procession into Brookings Quadrangle on campus.

In the event of heavy rain, an abbreviated ceremony will begin at 10 a.m.; souvenir plastic ponchos will be provided on site to all participants and guests. Guests who require shelter may choose to watch the ceremony via closed-circuit television in Brown Hall auditorium or Edison Theatre. A Commencement hotline number — 935-4355 — will provide up-to-the-minute information throughout Commencement week.

See pages 2-6 for student profiles that reveal the talent and diversity of the Class of '95.

John "Jack" C. Danforth, former U.S. senator and brother of Chancellor William H. Danforth, will deliver the Commencement address. During the ceremony, Sen. Danforth will receive an honorary doctor of laws.

Four other distinguished individuals will receive honorary degrees. **Johnnetta B. Cole**, Ph.D., a respected anthropologist and the first African-American woman to head Atlanta's Spelman College, will receive a doctor of humane letters. **Elizabeth "Ibby" G. Danforth**, a staunch supporter of Washington University and wife of William Danforth, will receive a doctor of humanities. **Edwin G. Krebs**, M.D., a biochemist who shared a Nobel Prize in physiology or medicine for work he began at his alma mater, Washington University School of Medicine, will receive a doctor of science. And **George E. Pake**, Ph.D., a former Washington University professor and provost whose pioneering contributions to the fields of physics and industrial research have helped transform society, will receive a doctor of science.

Candidates for the doctoral level degrees number 114 for the doctor of philosophy degree in the Graduate School of Arts and Sciences; 37 for the doctor of science degree in engineering; 205 for the doctor of law degree; and 129 for the doctor of medicine degree.

Alumni of the Class of 1945, who will celebrate their 50th-year reunion May 18-20, have been invited to march in the procession.

Burton Wheeler, Ph.D., professor of English and religious studies and chair of the Commencement Committee, will serve as grand marshal and lead the graduating students into the quadrangle.

The program will begin with music by the Mighty Mississippi Concert Band of St. Louis, directed by Dan R. Presgrave, director of instrumental ensembles at Washington University. Elizabeth Appunn Peterson, a graduate student in the Department of Music, will sing "America the Beautiful." Following the music, William M. Van Cleve, chair of the Board of Trustees, will address the graduates.

Chancellor William H. Danforth then will introduce Sen. Danforth.

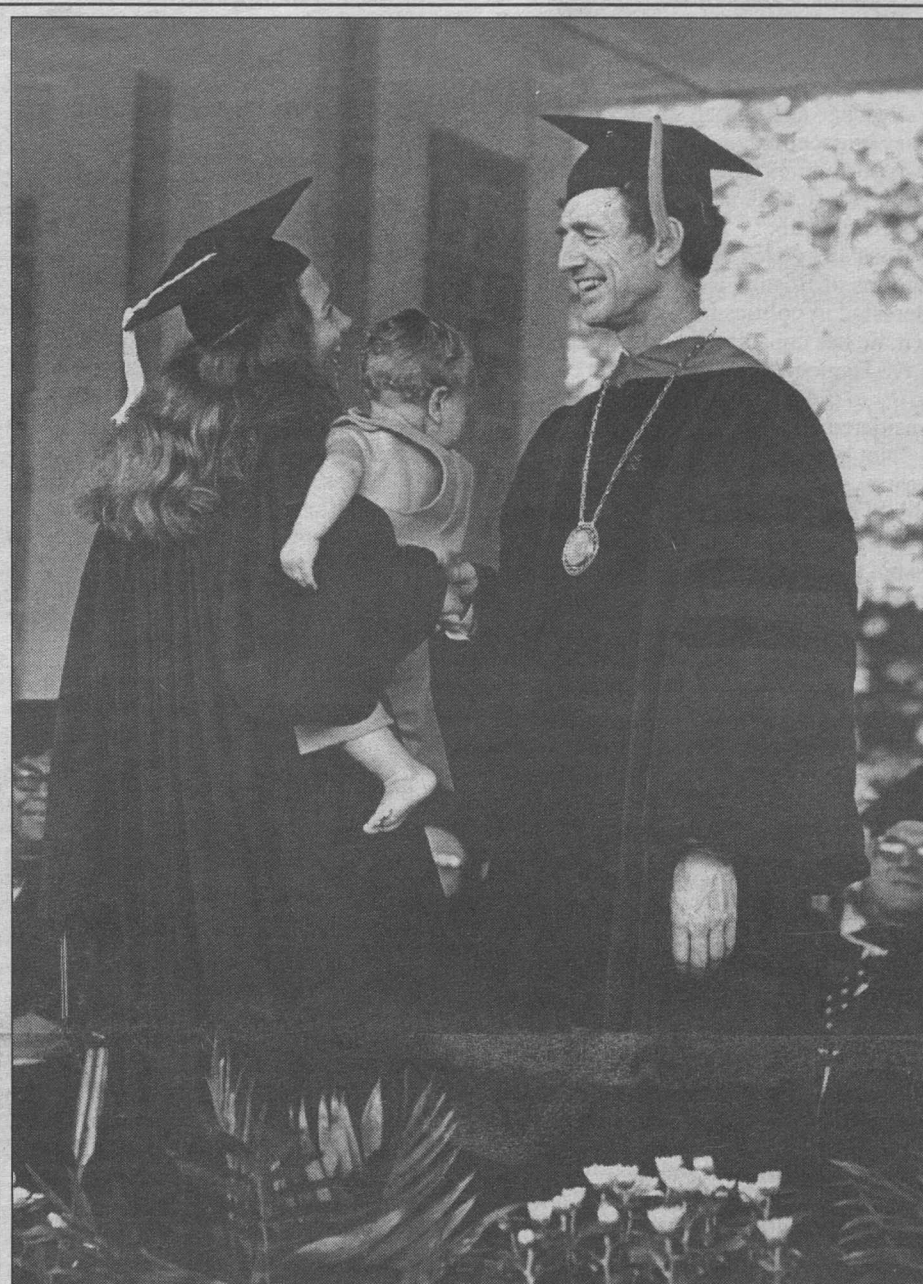
When he stepped down from his Capitol Hill post on Jan. 3, 1995, Sen. Danforth ranked 21st in seniority among 100 U.S. senators, and served on three key Senate committees. During his three terms, Danforth, the only ordained priest in the Senate, garnered respect from his colleagues on both sides of the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

The youngest brother of Chancellor 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 F. Eagleton, LL.B., University Professor of Public Affairs, shared the 1994 St. Louis Man of the Year honors.

Of all his achievements as a senator, 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. As a senior member of the Finance Committee, Danforth devoted significant attention to U.S. tax and international trade policies,

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Since William H. Danforth assumed the University's chancellorship in 1971, he has conferred degrees at 24 Commencement ceremonies — long enough for the child in this 1974 photograph to have graduated from college. See pages 7-10 for story and photos highlighting Danforth's tenure.

Medical student creates new way to treat cystic fibrosis patients

When graduating medical student Kraig Kirkpatrick saw a therapist whacking a cystic fibrosis patient on the back, he was shocked. "Did the patient forget to pay his bill?" he wondered. "Had he refused to take his medication?"

Like other cystic fibrosis patients, this man was treated twice a day. The medical therapy, called manual percussion, dislodges the sticky mucus from the airways and lungs that otherwise would impair breathing. Cystic fibrosis, a lethal hereditary disease, is caused by a defect in the mucus-producing glands in the airways, pancreas, liver and intestines.

Between third-year medical classes,

Kirkpatrick tried to think of a better way to help such patients. Because he originally intended to become an aerospace engineer, he had studied physics before embarking on a biology major at Graceland College in Lamoni, Iowa. So he knew that sound waves set columns of air vibrating. He also knew that sound has been used in other medical applications, including the treatment of kidney stones. If he used low-frequency sound waves to resonate the airways, would the vibrations be strong enough to shake off the mucus?

Kirkpatrick decided to test this idea for his student research project. For a mentor, he sought out Michel M. Ter-Pogossian,

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University embarks on ambitious strategic planning project

As Washington University prepares for the 21st century, there has been much talk about one of the most ambitious strategic planning projects in University history. Project 21 is a University-wide planning initiative designed to ensure Washington University's prominence in higher education through the next century. Nearly every segment of the University is involved, including faculty, staff, alumni, friends and trustees. And all are working toward the same goal: to critically examine the University's strengths and weaknesses and identify priorities for the next century.

This proactive effort comes at a time when institutions of higher education are

facing new and difficult challenges, including the increasingly rapid rate of knowledge expansion, new expectations of students and parents, an accommodation and respect for multiethnicity, a new emphasis on internationalism, an increasing dependence on technology, a tightening of federal funding for research, the need to restrain increases in tuition, and a reduction in public funding for higher education. To remain competitive, Washington University will have to excel in the face of these and other coming challenges, while holding down the cost of education.

Project 21, which began about two years ago, is a companion effort to Pro-

vost Edward S. Macias' Committee to Prepare for the 21st Century, and is modeled after the Commission on the Future of Washington University, an information-gathering process that set goals for the 1980s.

At that time, temporary task forces of alumni, academicians and business leaders were created to gather information and review the University's critical mission of service through teaching and research. Those task forces were so successful that the University later created permanent advisory groups known as National Councils. Today, every school

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Students, faculty, staff gather for tree planting, memorial service for senior Melissa Aptman

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Medical library named after Bernard Becker, M.D., who helped guide the facility's design and construction

Gallery of Graduates

Political ambitions

Senior helped Tipper Gore write speeches; hopes to return to White House

Graduating senior Michael Rodman may be the first U.S. president who derives his life philosophy from a comic strip.

"According to Calvin and Hobbes, every choice leads to a whole other set of choices. I wonder, how is it possible that I've made all the right choices?" Rodman said.

A glance at Rodman's résumé shows a series of excellent — and sometimes lucky — opportunities that have taken him to the White House once and, he hopes, may take him there again.

Born and raised in the Democratic environs of Boston, Rodman became interested in politics in high school. Since then, he has considered himself a conservative Democrat although, as the country moves to the right, he said he may soon be considered a liberal Democrat.

"Not because I've gone anywhere, but because everyone else is moving right," he said. "I believe it is the government's role to help those who cannot help themselves. It's not a matter of giving them money or carrots or sticks, but helping those who need it."

In high school, he founded his school's Young Democrats Club and got his first taste of presidential politics when he volunteered for the unsuccessful campaign of Michael Dukakis. One of his early good choices was Washington University, where he has majored in political science and was involved in student, University, municipal and federal government. Rodman said an interest in politics turned into a fascination the summer before his sophomore year, when he decided to attend the Democratic National Convention in Atlanta. At the convention, Rodman was lucky enough to get an all-access press pass and got caught up in the behind-the-scenes whirl of a presidential campaign.

Still reeling from the experience, Rodman returned to Washington University, where, in the course of the next three years, he volunteered for the Democratic National Committee office in Clayton, served as student representative to the Board of Trustees, chair of Student Union's Campus Service Committee, student representative to the University City, Mo., City Council, and communications intern for Tipper Gore, the wife of

Vice President Al Gore, among other activities.

At one time during the last presidential campaign, he and President Clinton were on a first-name basis.

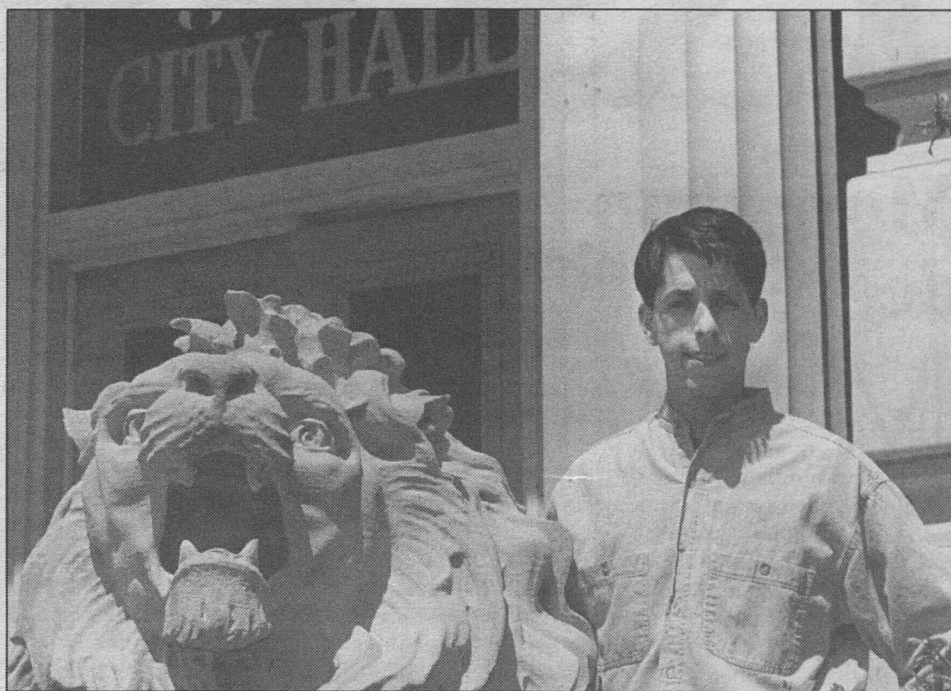
"I was interning in the office in Clayton and Clinton came in about nine times in the course of his campaign," Rodman said. "He knew me by name, though I doubt he does now."

After reading a quote by communications director Sally Aman in a Newsweek article about Clinton's inauguration, Rodman, then a sophomore, called her to volunteer his services. The next summer, Rodman found himself working in the White House communications office of Tipper Gore. On his first day, he wrote a public service announcement that aired on national television. After that, he wrote news releases, press reports, worked with the media, accompanied Tipper Gore on appearances, and helped write her speeches. Rodman's favorite reminder of that summer is a photograph taken by the White House photographer of Tipper Gore. In the picture, Tipper Gore, an amateur photographer, is taking a picture of Rodman as he lounged in the vice president's pool.

"It was so exciting. I kept asking myself, why am I so lucky? I mean, here's Mrs. Gore saying what I wrote. You'd walk in and out of the White House gate and tourists would look at you and wonder if you were important," Rodman said.

The next summer, he accepted Aman's offer to return to the Gore communications team. During the school year, however, Rodman was busy applying his democratic principles to life at Washington University. As chair of the Student Union's Campus Service Committee, he listened to student complaints and brought their concerns to the attention of the University administration. He quickly saw results.

"I learned that if you treat the administration with respect, they'll treat you with respect," Rodman said. "I think we have a good relationship with the administration now and students are seeing we're getting things done. They see improvements in food service and shuttle service and the library. We now have the student debit card, campuswide calendar, cable, voice



Senior Michael Rodman served as student representative to the University City, Mo., City Council. The lion is one of two statues that mark the entrance to city hall.

mail for faculty, a food court in Mallinckrodt, on-line registration. But for me, it's not just about being able to watch cable in my room; it's what I've learned in the process."

Rodman said he also has learned a lot from his one-year position as student representative to the University's Board of Trustees. He sat on the Student Affairs Committee as well as the investment, building and other committees. He said he knew he and fellow student representative Adam Stanley had earned the confidence of the board when members allowed them to remain in the room during last month's highly confidential vote for a new chancellor.

For the past two years, Rodman has served as student representative to the University City City Council, which, among other responsibilities, involves keeping council members apprised of goings-on on campus, as well as student concerns. During his tenure, Rodman helped improve a citywide apartment referral service, and organized a student forum with the city and University police chiefs, as well as the University's director of transportation, to address safety issues. His leadership at Washington University

and in the community earned Rodman the 1995 Ethan A.H. Shepley Award for community service, leadership and scholarship.

"It's been a great learning experience, especially in how government works, writes ordinances, responds to constituents," he said. "The mayor of University City asked me to come back and run for office after I graduate."

But Rodman plans to pursue his political ambitions from his home base of Boston, where he will return after graduation to attend Boston College law school in the fall. And then?

"I want to run for office. In high school I learned how to help 300 people, here 5,000. I love it," Rodman said. "I asked Vice President Gore if you want to be a politician, should you run as soon as you have an opportunity, or should you have a real job first. I think law school will be good preparation because it's important to understand the laws you're making. And it's nice to have something to do when you're voted out of office."

"But," he added, "if you generally like helping people and your skills are suited to politics, why wait?"

— Susannah Webb

Biology major investigated bat communication, behaviors

From key discoveries at the molecular level in biology to "nano" technologies everywhere, small-scale, or microscopic, examination of systems is much the rage in science today. But Punita Gupta, a May graduate in biology, is one who likes the big picture. The 20-year-old from rural Mt. Vernon, Ill., was casting her net for a research project in biology in 1993 for her senior thesis. With the guidance of Danny Kohl, Ph.D., professor of biology, she learned of Jagmeet Kanwal, Ph.D., a Washington University biologist who works with bats.

"I thought if I could look at something in a broader context, I could learn more from it," said Gupta, a vivacious, energetic woman who has finished her undergraduate work in just three years. "I read about Dr. Kanwal's work, and I was immediately interested. I had never even seen a bat before, and hadn't realized how tiny they are. They are a species that is still very mysterious to scientists. I thought by working with them I could get a macroscopic perspective of science."

Kanwal, a research assistant professor who works with Nobuo Suga, Ph.D., professor of biology and internationally renowned bat researcher, gladly welcomed Gupta on board. He put her to work in the flight room, a basement laboratory in Rebstock Hall that is kept warm year-round for the collection of as many as 60 mustached bats from the island of Jamaica. The flight room has all the simulated comforts of home for the

bats, including an inverted clay pot that serves as a roosting site.

For 10 hours weekly and for three academic credits a semester, Gupta observed the bats via a video camera from August 1994 until just short of graduation. She watched bat behavioral patterns and tried to observe the kind of noises the mammals made. It has long been known that bats have poor eyesight and actually "see" by listening. Suga is quite well known for his studies of how bats send, receive and interpret information in the form of sound pulses. This biosonar process is known as echolocation and acts like a built-in sonar (or radar) system to guide the bat as it emits sounds, listens for their echoes, and uses the resulting information to guide its flight.

Echolocation is an extremely sophisticated system that dwarfs many human processes in complexity. But bat communication is just as complicated and mysterious. Kanwal has identified several different communication calls that the bats make. Gupta, with Kanwal's help, has drawn some early conclusions on two calls, and she is promised that these conclusions will be included in a scholarly paper.

Gupta said she thinks one of the calls is emitted during aggressive and violent behavior like boxing; the other may be a threatening call to ward off an approaching bat.

"If you go to the zoo and observe bats, you can hear they make sounds among each other, and these are considered communications because studies tell us that

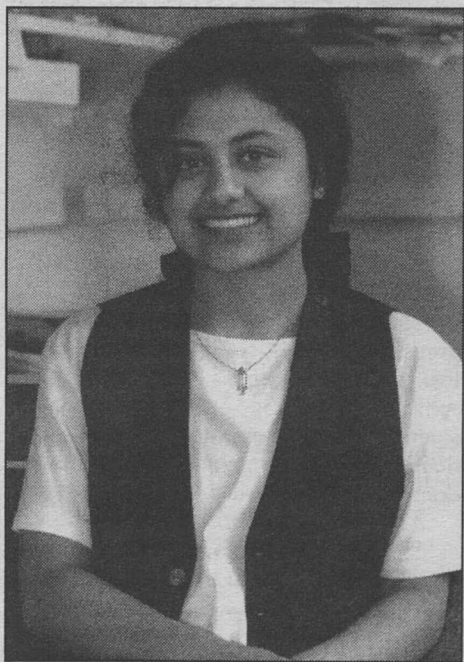
these sounds are rarely emitted when a bat is isolated," Gupta explained. "I noticed that in the roosting site the bats would hang on other bats and push or box each other with their wings. The two calls are related to these behaviors."

"We believe because we know what these two calls mean, some day we may be able to figure out what the other calls mean," she said.

Thirty-three different monosyllabic calls have been identified in mustached bats. But communication between bats is comprised of numerous combinations of these calls within complex sequences.

The opportunity to throw herself into a research experience is one of many instances in which Gupta has expanded her interests and activities at Washington University to make her own world more macroscopic. She has been very active in the Indian Students Association, serving as cultural co-chair, choreographer for the folk dances and master of ceremonies for the annual Diwali Festival; she learned to read and write her ancestral Indian language, Hindi, through a course at University College; she became an accomplished pianist through the Department of Music; she also found time for intramural tennis and classical Indian dances. She participated in all of these activities while averaging 17 hours per semester for three years and taking summer courses.

"People ask me: 'Why are you in a rush?' And I just tell them: 'I'm not rushing. I enjoy all of the activities.' I chose



Punita Gupta plans to become a general practitioner of medicine.

Washington University because of its excellent reputation, its proximity to home, its social opportunities, and its Indian Students Association. I didn't have many Indian friends in high school, so the chance to learn from people of a similar culture was very exciting to me. I'm very happy I chose Washington."

The daughter of family practice physicians, Gupta, true to her macroscopic view of life, wants to be a general practitioner so she can treat people of all ages and deal with the entire spectrum of illnesses.

— Tony Fitzpatrick

Gallery of Graduates

Social work student led grassroots effort to save urban public school

Jack Byrne, executive director of the Central West End Association, admits he was skeptical last spring when social work student Natalie Clapp came knocking with a plan to involve herself in the work of his community organization.

"I made a few polite suggestions about how busy I already was and of other organizations that she might contact," Byrne said. "But she countered with persistence and increasingly cogent arguments and I decided to give it a try."

Clapp, a graduate student at the George Warren Brown School of Social Work, was looking for a field study practicum project that would be both challenging and rewarding. Byrne had just the job for her. Her assignment was to get residents of a particularly blighted block of homes in mid-town St. Louis to work together toward improving the neighborhood.

Byrne had reason to be skeptical. While much of the Central West End is relatively affluent, there are pockets of poverty. Five of the 21 buildings on the targeted block were multi-family apartments that had been abandoned and boarded-up. Vacant lots had become miniature garbage dumps. Nearly a third of the block's 60 dwelling units were uninhabited. Several homes were known drug houses. Gang graffiti covered the block.

Clapp, a resident of the nearby Skinker-DeBaliviere neighborhood, was not to be deterred. In a matter of days, she had surveyed community leaders, business owners and residents and developed a list of neighborhood needs and concerns. She soon established a summer youth program, which included basketball sessions, a litter brigade, swimming parties and field trips to Kiel Center. She also rallied neighborhood adults to volunteer their time in a study program for the children.

"Natalie is a jewel as far as I'm concerned," said Juanita Sanders, a resident of the neighborhood since 1953. "She has been very good for the children, the school and the neighborhood. She is very dedicated, very conscientious. Last week, she was out there in the rain helping the children with Operation Brightside."

A desire to help people is what inspired Clapp to seek admission to the George Warren Brown School of Social Work in the spring of 1991.

"I was going through a divorce at the time and it had been very traumatic for me," said Clapp, who has three teen-age children. "I thought a career as a family therapist in social work might allow me to help other families work through the same sort of difficult situations that I was experiencing."

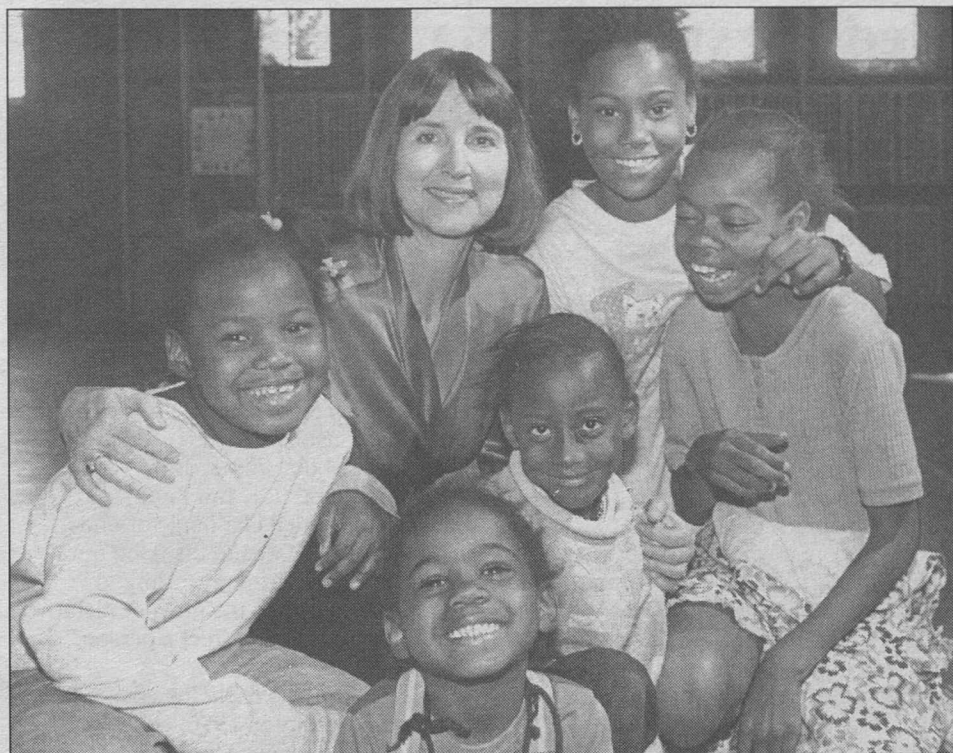
Clapp, a native of Marietta, Ga., met her husband while both were undergraduates at the University of Georgia in Athens. She graduated in 1970 with a bachelor's degree in education and moved to her husband's hometown of Fulton, Mo. She taught there for two years at the Missouri School for the Deaf, but her husband's career soon spurred moves to Iowa, Ohio and Georgia. The family settled in St. Louis 12 years ago.

"I had always wanted to go to graduate school, but with a family to raise and moving around the country, there never seemed to be an opportunity," Clapp said. "The idea of going back to school after 20 years was very scary, but my children encouraged me to go for it."

Clapp entered the master's program as a full-time student, but shifted to part time so that she could spend more time with her daughter. Going part time forced her to stretch her education over four years, but she is happy with her choice. She and her daughter often work side-by-side on clean-up projects and youth programs in their "adopted" neighborhood.

"Natalie has inspired the children to want to better their condition," said Sanders, a pre-school teaching assistant who has worked closely with Clapp at the community's Eugene Field Elementary School. "She has the confidence of the children and once children believe in you, it is a very powerful thing. I believe she could have them turn the world over."

One of Clapp's biggest campaigns in the neighborhood has been the preservation of Field School, one of several public schools now slated for closure by the city's Board of Education. Many residents see the school as critical to the neighborhood's



Natalie Clapp plans to use her degree to tackle social problems from a community-wide perspective. For the past year she has helped rebuild a blighted neighborhood in mid-town St. Louis by establishing summer youth programs, which included basketball sessions and a litter brigade.

future and Clapp has been at the forefront of a grassroots effort to save Field. She makes her case regularly at school board meetings and has taken the battle to Jefferson City, where she lobbied the neighborhood's political representative to intervene on the school's behalf.

Clapp also is seeking funding to expand various social programs in the neighborhood. She plans to establish a summer camp at Field School where area high school students could be hired to serve as counselors, tutors and role models for younger children in the neighborhood.

Although Clapp launched her social work education with plans of providing one-on-one counseling to families, she is confident that her future now lies in tackling social problems from a broader, community-wide perspective. She credits her change in focus to a course on social and economic development taught by Jack Kirkland, Ph.D., associate professor at George Warren Brown.

"I've always been a volunteer and an organizer," Clapp said. "Whether it was the parent-teacher organization or the neighborhood car pool, I've always tried to identify a need and fill it. Jack's course made me realize that by concentrating on the big picture — on the community as a whole — my efforts might help a lot more people."

For now, Clapp would like to continue her work with the Central West End Association. The organization has found enough money to hire Clapp on a part-time temporary basis through the summer, and she is not the only one hoping the job will become more permanent.

"Parents and longtime residents of the block talk of dreading the time when she is no longer present," Byrne said. "She has introduced new projects, expanded existing ones, gained the assistance of new people and earned the respect and gratitude of all who have worked with her and benefited from her leadership and from the outcomes of her projects."

— Gerry Everding

Academics, athletics, community, religion complete Meaux's life

Once a week — every week — for three years, senior Antone Meaux has tutored kids on how to conquer fractions and other mathematical mysteries.

In truth, Meaux's entire college career is, itself, a lesson in the mastery of fractions.

Meaux has split his time and his energy into fourths: academics, athletics, service to the community and ministry. Each quadrant is vital to his whole being, like the four chambers of the heart working as one.

While spreading oneself thin is a collegiate criterion, Meaux has a remarkable knack for not merely treading, but transcending. Not just a student, he's a Dean's List regular, bound for an elite law school. Not simply athletic, he's an All-America track and field standout. Not merely an occasional community volunteer, he's a tutorial program leader with the Campus Y. Not only a church-goer, the religious studies major is an ordained minister.

A yearning for diversity was a key component in Meaux's decision to attend Washington University. His path apparently was leading to Morehouse College in Atlanta, a traditionally all-black institution of prestige that counts Martin Luther King Jr. as a graduate.

But after an unsatisfying visit to Morehouse, Meaux came to the Hilltop Campus and immediately was sold. "I just had a hunch about Washington University — that it was the place for me," he said. "You're going to meet different people from different walks of life, different belief systems, different ways of thinking. That's one thing I really enjoy about this University — interacting with a variance of people."

One person that Meaux met midway through that first autumn was Ted Gibbons, then-head coach of the Bears' track and field team. That they hadn't yet met is a head-shaking story in itself.

Even in a Division III athletic setting, where student-athletes are students first and foremost, it's unfathomable for a talent of Meaux's magnitude to — in the parlance of athletics — "walk on." Long hours of recruitment, primarily on nights and weekends, are par for the course for any coach.

Yet in walked Meaux. Gibbons' smile was surely as broad as one of Meaux's 23-foot long jumps.

"When I first came to Washington University," said Meaux, "the only thing I was thinking about was academics. I wasn't recruited for sports, I was just a studying student. Studying was satisfying, but it didn't give me a completeness that I needed. So I tried to do more things."

"During my very first conversation with Coach Gibbons, he told me something that has always stuck with me and has been a platform for me. He said that there was no reason — with work and dedication — that I shouldn't leave here as conference champion, most valuable runner, All-American and national champion."

As they say, three out of four's not bad. And the fourth — a national championship — is still in the works. Meaux will compete in the 100- and 200-meter dashes and the long jump at the NCAA Division III Outdoor Championships on May 24-27.

Regardless of those results, Meaux is already one of the most decorated athletes in school history. He's competing in his fourth national meet and earned All-

America honors by placing fourth in the long jump (23' 5 1/4") in 1994. He's twice been tabbed as the University Athletic Association's most outstanding male track performer. Nine times he has earned an individual UAA championship and 22 times has been granted all-UAA recognition for finishing in the top three of an event.

And he led the Bears to the 1995 UAA outdoor crown after a succession of second-place finishes.

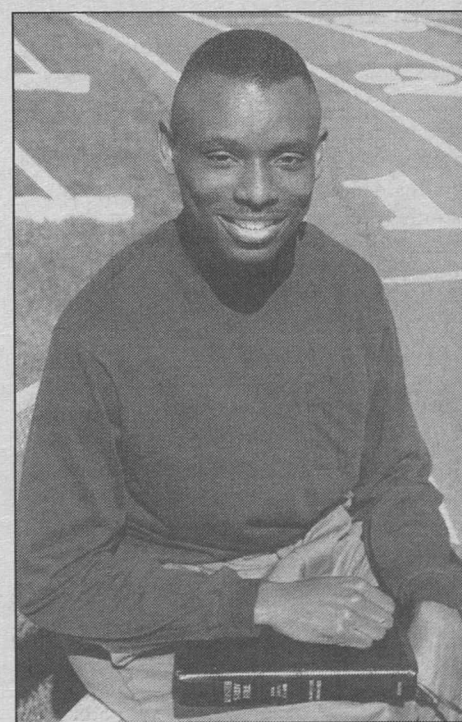
"Coach Gibbons always told us to be a champion on championship day," said Meaux, a three-year team captain. "If you can't do that, you're not a true champion. The past four years I've been looking over my shoulder because we hadn't taken home the team title."

"You always feel personally responsible when you're the leader of the team and you fall a little short. You look toward yourself — even if you got all first places individually — and ask, 'Did I support that guy enough? Did I push him enough?'"

That sense of "we, not I" shines through in all facets of Meaux's life. Heavily involved in the Campus Y tutorial program that helps about 90 middle and high school students, Meaux has helped shape a mentoring program that brings the boys and girls onto the college campus — a place they might never have considered coming to before.

"The thing about education and the tutorial program is that when someone learns something, it can't be taken away. Hopefully it can be a springboard to other things — a personal turning point."

A major turning point for Meaux came on Oct. 28, 1990, when he became an



Antone Meaux is one of the most decorated athletes in school history.

ordained minister at Lincoln Heights Baptist Church in his hometown of Cincinnati.

With his spiritual faith, and an ensuing bachelor's degree in religious studies, Meaux is heading toward law school — Harvard University and the University of Virginia are his leading candidates — and perhaps his ultimate juggling act.

"Proving that you can be a lawyer and a preacher," Meaux said with a smile.

— David Moessner

Gallery of Graduates

Medical student/pianist explores link between neuroscience, music

Gregory Foltz, who will graduate from the School of Medicine, gave up a career in music to become a neurosurgeon. An accomplished accompanist, he played piano for choirs and opera companies around the United States. But his interest in how the brain can transform a collection of sounds into an intensely moving experience shifted his focus from music to neuroscience.

Foltz grew up in Rochester, Ill., where his parents allowed their four sons to explore any interest. So when a grand piano arrived one day from a deceased relative, the 9-year-old plunged into lessons. In high school, Foltz won many awards, including a Presidential Scholarship in piano performance. This allowed him to enroll at Southern Illinois University at Edwardsville (SIUE) to study with concert pianist Ruth Slenczynska.

Three years earlier, Foltz had met a neurosurgeon while playing in a restaurant in Springfield, Ill. "Michael Beatty is an Edwardsville surgeon who cares about his patients the way a small-town family doctor would," Foltz said. "We established a friendship in which I admired what he did and he supported my music."

Their conversations made Foltz think about the brain's role in creating and perceiving music, and he saw parallels between music and neuroscience. "You can analyze every note in a great work by, say, Mozart, without ever fully understanding what that music ultimately expresses to a human being," he said. "Similarly, you can understand which areas of the brain are responsible for different functions, but no one understands how they combine to create a complex emotional response."

After his junior year at SIUE, Foltz spent two years as a full-time accompanist, even playing for choral rehearsals in New York's Lincoln Center. Then he transferred to Washington University in

1988 to add science to his music major. "I came to Washington University because it is a premier institution for neuroscience," he said. "At the same time, I was able to explore my artistic interests with some of the truly outstanding interpretive minds in music."

The decision to become a neurosurgeon came during his senior year. Like music, neurosurgery requires immense skill that comes from years and years of practice. But Foltz was drawn to the added challenge of understanding the normal and diseased brain. "And it is particularly rewarding to intervene in some of the most devastating illnesses that can affect a person," he said.

Foltz obtained a bachelor's degree in music and biology in 1990, and was named Phi Beta Kappa and Universali cum Honore. He also received a Dames Award for Scholarship in Music.

A Distinguished Student Scholarship helped support his first four years in the School of Medicine's M.A./M.D. program, where he found a very supportive environment. "From the very beginning, I had access to mentors such as Thomas Woolsey," Foltz said. "He has spent a lot of time encouraging me, giving me advice and helping me make decisions. That kind of personal attention at a big major medical institution can only be found in St. Louis."

Thomas A. Woolsey, M.D., professor of neurology and neurosurgery, directs the first-year neuroscience course, and he encouraged Foltz to do research in his laboratory on the formation of blood vessels in the brain.

Ralph G. Dacey Jr., M.D., professor and head of neurological surgery and president of the Congress of Neurological Surgeons, was an important clinical mentor. He taught Foltz that an excellent neurosurgeon also can be involved with his family and be active in administration, education and in the broader aspects of neurosurgery beyond patient



Medical student Gregory Foltz played for choral rehearsals in New York's Lincoln Center.

care. "It is awe-inspiring to watch him at work in the operating room," Foltz said. "You see the human brain functioning right in front of you — neurosurgery impacts on the very fabric of what distinguishes a human being."

Foltz will follow in Dacey's footsteps this fall when he begins a residency in neurosurgery at the University of Washington in Seattle, where Dacey was once a faculty member.

Foltz's honors include the 1991 James O'Leary Prize Award in Neuroscience, an American Heart Association Research Fellowship for 1991-92, the Robert Carter Medical School Prize in 1993, a Joseph Bancroft Distinguished Student Scholarship in 1994 and election to Alpha Omega Alpha in 1995. He

also is lead author on three research publications and has accumulated five years of medical teaching experience.

Music, meanwhile, has become Foltz's avocation. Two years ago, the demands of school deprived a Florissant church of its organist and steered Foltz to early American folk music. "But my true interest is in trying to understand how music can be what it is," he said. "The ability to communicate a profound idea with just musical notes — to write a symphony like Beethoven's ninth, which has affected millions of people — surely that must be one of the brain's highest functions. So I will be thinking about music throughout my neuroscience career."

— Linda Sage

Track record-setter also scores graduation 'hat trick'

In her college career, Genevieve Melton has brought new dimensions to the old adage, "Healthy Mind, Healthy Body." The 23-year-old from Redmond, Wash., graduates this May with not one but three bachelor's degrees — in electrical engineering, computer science and mathematics. Her athletic accomplishments include three years as a sprinter on the University track team, which she co-captained in 1993 and 1994, and a University record of 62.45 seconds, which she holds for the indoor 400-meter run. Plus, she is part of University record-setting teams in both the indoor and outdoor 1,600-meter relay and the 400-meter outdoor relay. To cap her outstanding accomplishments in academics and athletics, Melton received the W. Alfred Hayes Award for leadership and the A. Gwendolyn Drew Award for superior academic standing and positive contributions to varsity athletics.

While it's been rumored that there are actually three Genevieve Meltons, the one and only Genevieve points out that she accomplished her graduation "hat trick" over five years yet within the traditional eight semesters. She amassed 160 hours; of that, a whole academic year's worth was from advanced placement credits she received before starting at Washington University in 1990. And, during two different semesters, she took time off from school to work at Monsanto Co. in St. Louis through the School of Engineering and Applied Science's Cooperative Education Program. For Melton, burnout was never a factor — she keeps her extraordinarily active life in balance.

"People think I'm sort of superhuman,

but I'm not," said Melton. "Balance has been important to me. I try to achieve this through setting priorities, trying to stay as organized as possible and keeping my family and friends central in my life."

Melton cites her mother, Evelyn Au Melton, and father, Robert, as key influences and inspirations. Her father, who has a doctorate in organic chemistry, works with the U.S. Environmental Protection Agency. Her mother, born in China, is a computer scientist who immigrated to the United States when she was 19 and earned a bachelor's degree in mathematics. Later, when Melton was 7, her mother returned to school to get a master's degree in computer science.

"I observed my mother going to school and handling our family, and I saw how she approached all that work," Melton said. "She always stressed spiritual balance to me — healthy mind, healthy body, among other things. So, I've always kept involved in many different activities to give a sort of balance."

Another influence, she said, was high school science teacher Glen Botto, who challenged her with electrical technology and physics. "He gave me a jump start for a college science career," she said.

Melton balances her world with varied experiences. She mathematically modeled the auditory system as an undergraduate research assistant in 1992-93. She was a residence hall adviser her last semester at Washington University. And, in the summer of 1991, she taught natural sciences and mathematics to girls ages 6 to 17 for Girls Inc. of St. Louis. During the fall semesters of 1992 and 1994, Melton worked with Monsanto,

and had the opportunity to test the working world as a computer programmer and analyst. In the fall of 1992, she provided computer programming support to a scientific team. Then, in the fall of 1994, she managed a local area network for more than 400 users, many of them Monsanto executives.

"Engineers are professionals after they finish their degree, and this program let me find out what the corporate working world is like. The experience I gained from the two jobs was tremendous."

It was while working at Monsanto that Melton, an all-state track star in New York in 1989, found she missed running. Melton attended high school in New York for a couple years before moving to Washington.

"I'd go to an aerobics class at lunch time, and I started getting in shape again," she said. "I realized I really missed running, and I went back out again."

Melton considered California Institute of Technology and Massachusetts Institute of Technology before choosing Washington University. She received a four-year Langsdorf Merit Fellowship in engineering, which paid her tuition.

"Washington University appealed to me because there was this flexibility to go into many strong programs. Engineering has been a great discipline for me. Everybody who ever counseled me said it made sense to become an engineer, and it certainly has. Another reason I'm so glad I came here was to be part of the track team."

Now that Melton knows engineering, she wants to know medicine. She's been



Genevieve Melton will graduate with three bachelor's degrees.

accepted into Johns Hopkins, the University of Washington and Washington University. She's not certain yet where she will attend or what her specialty will be. "Electrical engineering and computer science give me a good foundation for neurology, and that is an interesting area," she said. "But so is oncology, and, from an academic perspective, the whole area of biomedical engineering. I want to be in a technical area, but I want to know what it means to be a doctor first before I consider a more technical type of career."

— Tony Fitzpatrick

Gallery of Graduates

Fulbright winner heads to Taiwan as marketing intern

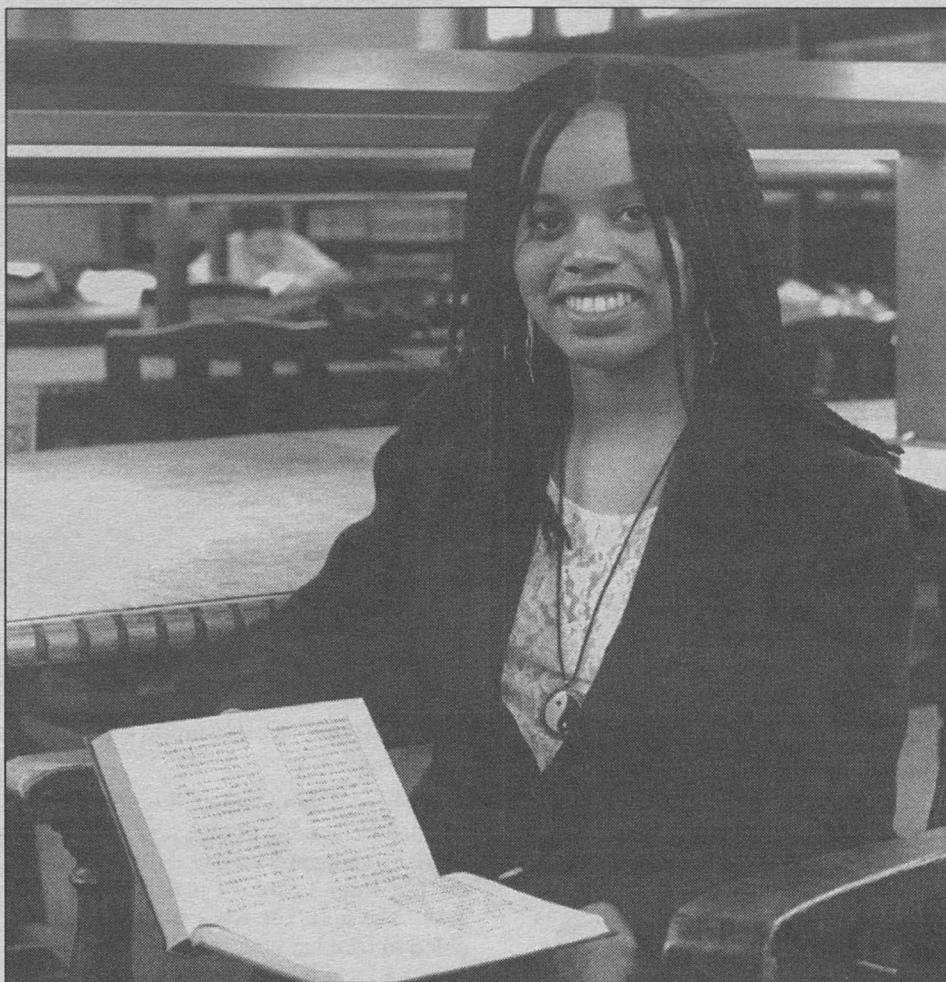
Senior Sheba J. Holsey became captivated by the Chinese language during her sophomore year in high school.

Next year, the East Asian studies major will delight in speaking Chinese while in Taiwan. Holsey, who will graduate magna cum laude May 19, has received a 1995-96 Fulbright Scholarship. She will study Chinese at Taiwan's Stanford Center and work as a marketing intern for Tatung Inc., of which John M. Olin School of Business alumnus David Lin is president. Holsey is the first African-American student at Washington University to be awarded a Fulbright Scholarship to Taiwan, said Michele W. Shoresman, Ph.D., associate director of the Office of International Studies.

Holsey took a Chinese language class while a student at The Sidwell Friends School in Washington, D.C. Her interest in East Asia was sparked by a friendship with Li Yutong, an exchange student at the school. Holsey often watched as Li Yutong wrote letters in Chinese to her family in Beijing. "I just fell in love with the language," Holsey said. "I love writing the characters. Of course, language is a part of any culture, but in Chinese, in every character you can see the way the culture and the language interact. It's amazing."

For example, the first of two Chinese characters for the word "peace" represents a woman under a roof. This character is symbolic of many Chinese people's view that a woman's place is in the home rather than the workplace, said Holsey. Deciphering the characters, then, enlightens the reader about Chinese society, where, in most families, "the woman in the home represents peace."

Holsey said she was shocked to learn she had won the Fulbright Scholarship. "Just to have such a wonderful opportunity, I'm really, really, excited." As a marketing intern for Tatung Inc. in Taipei, her duties will include translating



Sheba J. Holsey is the first African-American student at Washington University to be awarded a Fulbright Scholarship to Taiwan.

magazine articles from English into Chinese and analyzing how American business policies will affect the company. She is ready for her foreign assignment. "Washington University is very strong in languages," said Holsey, who minored in French. "I'm very well prepared to go to Taiwan and then to graduate school," said the 1994 recipient of the Ansehl Prize for Excellence in Chinese.

After her stint in Taiwan, Holsey plans to enroll in the Master of East Asian Studies Program at Stanford University, one of the few schools to

offer such a degree. She also has developed an interest in international business and plans to apply to Stanford's MBA program next year. "I'm really interested in U.S. policy toward China and East Asian countries. I think that there's a lot of manipulation. Generally, in dealing with foreign countries, the United States lacks a knowledge of the culture — even of the language. What I want to do is change that trend from manipulation to cooperation because I feel that's not the way that you should do business with someone."

"Everyone's trying to get into the Chinese market and exploit the cheap labor or sell their products. I want to tap into that and figure out a way that we can still do business and exchange goods, but do it in a way that deals more with friendship rather than exploitation. If I can just make even a small impact, if I can make some kind of change, I think that would be good." To accomplish her goal, she's considering a career in international trade.

Holsey is a Washington University Ervin Scholar. The University's John B. Ervin Scholarship Program awards full-tuition scholarships to talented college-bound black high school students each year. Throughout her four years at Washington University, Holsey has been active in a variety of student organizations, including membership in the Asian, Taiwanese and Korean student groups, as well as the Association of Black Students. She additionally is a co-chair of the Black Senior Alliance, an organization that sponsors events ranging from educational forums to graduation activities. For three years, she has worked as an office assistant in the Department of Asian and Near Eastern Languages and Literatures, performing duties that have included translating movie titles from Chinese to English.

"I would encourage students to get involved," said Holsey. "I've become involved in a lot of activities and I've used the resources on campus, like the Career Center's Career Prep Series and Student Educational Service's math tutors. There are just so many resources available to tap into. I encourage students to take advantage of this time because, after this, not everything is going to be there for you where you can just go in and make an appointment."

"College is a wonderful time in one's life. It's important to study hard, but also to have fun and get to know your peers and professors. I think the friendships I've made will last a lifetime."

— Carolyn Sanford

Architecture student drawn to building beautiful, low-income housing

Jeff Frahm began his architecture career as a board carrier, the low man on the totem pole in a carpenter's shop.

The board carrier is just what it sounds like, the person who moves boards from one area to another to keep them from warping and to bring them closer to the worksite, said Frahm, who is receiving a master's degree in architecture. "It was awful. You'd come in to work and the foreman would say, 'See that big pile of lumber over there, move it over there.' So you have to look at all the boards and make sure they are straight and then move them. After a few days, as the water evaporates from the boards, they start to twist again so you have to check and move them again."

Fortunately, that only lasted a couple of weeks and then Frahm was promoted to carpenter's assistant. In spite of the heavy lifting, Frahm enjoyed the job.

"I liked figuring out how things are put together. Architects are very visual people, you can really explore your creative sense even if what you design isn't always feasible," he said.

So once Frahm finished a bachelor's degree in art and English at Nebraska Wesleyan University he turned around and earned a bachelor of science degree in architecture from the University of Nebraska. Both schools are in Lincoln, Neb.

In addition to the creative aspect of architecture, Frahm is concerned about social issues, such as affordable housing. He participated in a graduate-level homeless symposium last semester taught jointly by faculty at the School of Architecture, St. Louis University's School of Law and the Department of

Public Policy. He also spent a semester at the Regional Housing Alliance learning how to build homes for low-income people. One project Frahm worked on at the alliance was a siteplan for downtown housing.

Unlike many of his class projects, which are not constrained by such

"Fifty percent of people in the country can't afford a house — the American dream. Yet the architecture profession seems divided over the value of designing for the poor."

things as budgets, this one involved many real-life roadblocks. Some of the issues that arose were the importance of being able to park close to the house, so residents could get inside quickly. Frahm found that often city residents prefer to not use the front door. "As architects, a lot of times we idealize about how the street is the place for the community to interact. But residents don't want to be in the street — that's where drive-by shootings happen."

"Even with everything I've done this semester, I'm just beginning to understand some of the problems," said Frahm. "Fifty percent of people in the country can't afford a house — the

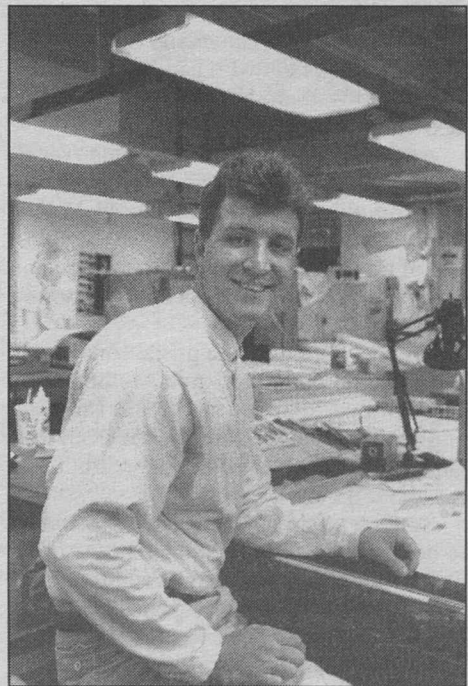
American dream. Yet the architecture profession seems divided over the value of designing for the poor. It still costs too much money to build homes as inexpensively as we know how to today. I am trying to figure out what we as architects have to offer."

"One of the most important issues is community involvement," Frahm said he learned in the homeless symposium. "An ugly building stigmatizes a project and if people can see your architectural drawings and they are beautiful, it helps them visualize the finished project and gain their support."

Frahm's interest in both the aesthetics and social issues within architecture fits perfectly with the School of Architecture. The faculty is a mix of those involved in understanding things visually and who see architecture as a high art, and others who concentrate on more social issues.

It also helps that Cynthia Weese, FAIA, dean of the School of Architecture, champions many of the same issues. "She believes we, as architects, need to be more vocal about social issues like affordable housing and to be more influential," said Frahm.

Frahm is no slouch on computers, either. During his first semester at the School of Architecture he won third place in a national competition sponsored by Learn Television based in Chicago. The competition, Forum/America, called for the design of a virtual space or forum for people to exchange ideas and communicate using computers. Frahm's expertise also earned him a position as a teaching assistant for three semesters, teaching computer-aided design and digital



Jeff Frahm will travel to Volos, Greece, to help the townspeople design an artists' workshop and housing area in an abandoned brick factory.

rendering, imaging and animation.

After he graduates, Frahm, along with fellow student J.D. Chen, will travel to Volos, Greece, to help the town design an artists' workshop and housing area in an abandoned brick factory. The project is sponsored by Gerard Gutenschwager, Ph.D., professor of architecture. "I'm intrigued about how another culture responds to architecture, what their issues are, and what the politics for getting things built are," said Frahm.

— Debby Aronson

Gallery of Graduates

Senior cuts demo for major record label during finals week

Unlike many of her law school classmates who will put on suits and carry briefcases to their new jobs when they graduate, Robynn Ragland will trade in her books for a guitar and microphone. Ragland, who grew up in Orange County, Calif., will embark on her life's dream — a career in music.

Ragland started classical piano lessons when she was 5 and sang with choruses in both high school and college. Still, she didn't consider music a secure career path. "I had pretty much decided it was a hobby," she said.

Ragland, who spent much of her summers and Christmas vacations on her grandparents' farm in Salem, Mo., thought she wanted to be a veterinarian when she began college at California Polytechnic State University in San Luis Obispo. A required class in beef production changed her mind — "the teacher was discussing cuts of beef and at the end of the semester you butchered a cow or something" — and she switched to political science with minors in music, philosophy and speech communication. By her sophomore year she had decided to aim for law school. Even though no one in her family is a lawyer, Ragland saw law as a natural path. "I love books, dictionaries and research," she said, "and the fact that law is both practical and philosophical."

But college wasn't all work and no play. Ragland and seven classmates founded a band called Rhythm Akimbo. The group, which played in local clubs, created a sensation in San Luis Obispo. "We were like a little college legend. We were THE band," she said. Rhythm Akimbo performed all original music, some of which Ragland wrote. The group recorded three compact discs, which are still for sale and are played on the college radio station, she said.

It was a big decision to give that all up to go to law school and Ragland struggled hard. "I really thought about going to L.A. and trying to make it in music; it's where my heart is," she said.

But finally she decided she wanted a stable career, not one that involved more waitressing than song writing and singing. She came to St. Louis to attend Washington University's School of Law. Her first year in St. Louis, Ragland stuck to her law books, writing an occasional song in her room when she needed a break. Still, during her first summer here, while volunteering for Volunteer Lawyers for the Arts and at Lashly and Baer Professional Corporation, she was drawn into local clubs like Mississippi Nights. The music scene in St. Louis is tight knit, said Ragland, and soon she hooked into it. "I found people to play with and met lots of musicians," said Ragland.

That summer she became a singer and guitarist with Five of These, a six-member band that was voted Best New Local Group by The Riverfront Times last year. Its recording "I Married My Head" was voted Best Local Recording in this year's poll. Ragland wrote two of the songs on the album. The band plays often in St. Louis and travels to Kansas City and to many clubs in Illinois.

"We just clicked," she said. The other band members are Ted and Jim Ibur, Melissa Wilson, Joe Steinman and Sean Anglin. Ragland, whose one hero is Elvis Costello, describes the group's music as "pop alternative with a percussive undertone."

"The transition back into music was tough at first. It felt like I had to turn a physical switch in my brain," said Ragland. "I would go off to rehearsal and when I came back to school I had to switch my law school brain on."

After her first year Ragland founded the Sports and Entertainment Law Society, which met with several successes. The group established an annual law school talent show, which became a big hit. They also petitioned for sports law and entertainment law classes, which have been added to the curriculum. Ragland also began a publication called "Stage and Stadium." The Sports and Entertainment Law Society lined up some live bands to perform at law school happy hours.



Robynn Ragland performing as a member of "Five of These" at Broadway Oyster Bar.

As graduation loomed, Ragland finally decided to take the plunge and follow her heart. "I've been trying to do music all my life. I don't care if I'm \$85,000 in debt," she said. The week Ragland decided to take her chances with a music career a local label indicated interest in signing her. Although she opted for another plan, Ragland said she felt like it was a positive sign that she had made the right decision. "It's still really scary," she said. "But I just don't want to do anything else."

One of the biggest hurdles Ragland faced was the resistance of her father to her pursuing a music career. "He always said, 'Just get that degree.'"

"Now, the closer I get to graduation, the prouder my dad is. He's a very proud dad and very supportive of me. In fact, the plan is he's going to give me a new guitar for graduation," said Ragland.

From her mother, Ragland will receive a new microphone.

Ragland can use her new gifts at the law school commencement ceremonies, when she and Dave Truman, also a law school graduate and president of the Department of Music's Chamber Choir, will sing "America the Beautiful." "It's a cool arrangement, very bluesy," said Ragland.

Meanwhile, Ragland's professional projects continue. During final exams Ragland completed a demo recording for Giant, a major record label. "My producer will be bringing me rough mixes in the middle of finals for me to listen to."

If the company likes what it hears Ragland might be offered a recording contract, but she recognizes there are many risks involved. Still, if it doesn't work out, Ragland can use her education in entertainment law to stay in the music business, her first love.

— Debby Aronson

Business major, news editor, senior class treasurer enjoys juggling act

Last month, Adam Stanley knew one of the biggest secrets in recent Washington University history: the name of the person who had been selected to succeed William H. Danforth as the next chancellor.

As one of the student representatives to the Board of Trustees, Stanley, who graduates from the John M. Olin School of Business this month, had an edge on the rest of the University community. And as a member of the staff of Student Life newspaper, a bit of a conflict.

"When you know the prime candidates — or people *think* you know — they're very curious," Stanley said. "But I was really impressed that my friends from the paper didn't cross the line; they didn't ask me about the candidates."

Stanley might say he was just fortunate to be on the board and know that the next chancellor would be Mark Wrighton, Ph.D., provost of the Massachusetts Institute of Technology. But friends and Olin school staff say Stanley is like heavy cream — he usually rises to the top.

"Adam is an extremely personable and outgoing person; he's one of those people who really emerged quickly as a leader among his classmates," said Gary Hochberg, Ph.D., associate dean for the undergraduate program at Olin.

And Stanley simply gets things done. His list of accomplishments is staggering for a 21-year-old, particularly one who started out on the not-so-privileged southwest side of Chicago. As a first-year student, he earned the title of Student Life news editor. In later years, he progressed to managing editor, and was offered the top job as editor, but turned it down because he didn't have time.

In addition, he worked to raise money as co-captain for the class gift committee;

participated in a spring internship in London as part of the school's abroad program; served as treasurer of the senior class and as a resident adviser; and worked as an Inroads management intern during the summers. Inroads helps high achieving African-American students gain management skills and connections in the corporate world.

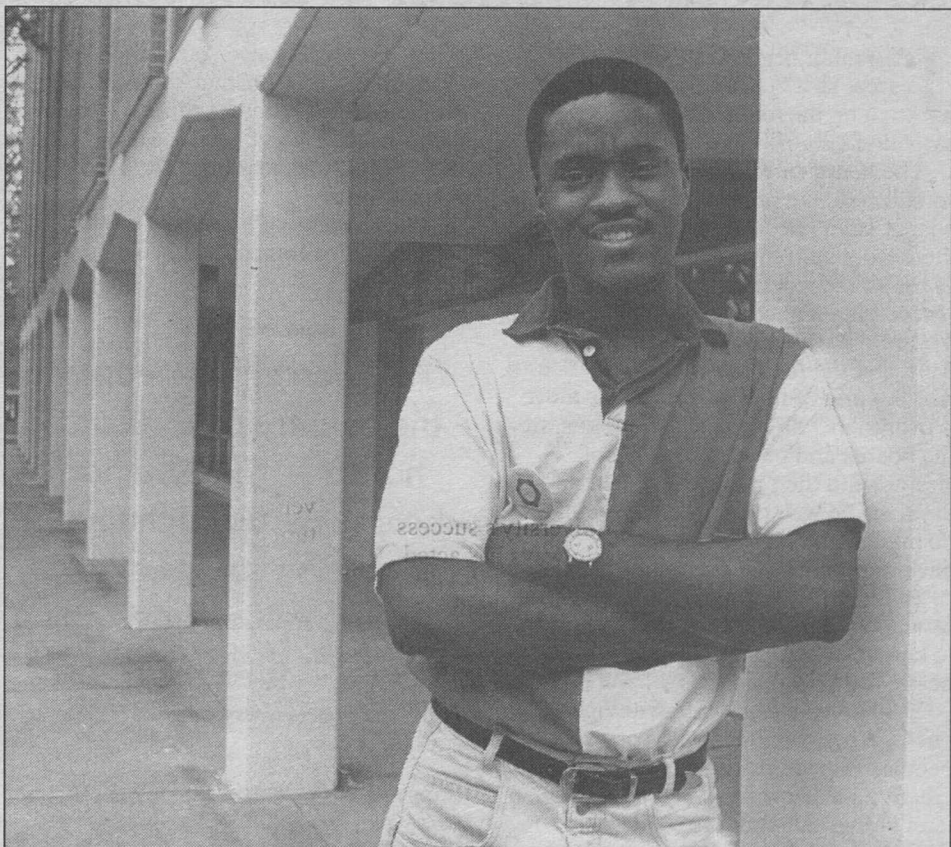
Stanley said he has loved business since he was a child. His family calls him "Alex P. Keaton," after the business-obsessed character on the TV show "Family Ties." In the fifth grade, Stanley was the top seller in candy sales. His choice of a prize? A game called "Stock Market."

"I think that's when my parents thought something was wrong with me," Stanley recalled, laughing.

Stanley and his sister grew up with a strong family network. His father is a police officer and his mother is in healthcare administration. They are very close-knit and supportive, Stanley said, adding that about 32 people are planning to come to graduation.

Stanley said he was very competitive in high school, a magnet school in Chicago for college-bound students, and chose Washington University because it attracts top students whose abilities go beyond book smarts. "I wanted a tough school, but not one filled with 'brainiacs,'" Stanley said.

He had no questions about what he would study in college — finance and international business. His efforts landed him several job offers, including a dream job at his dream corporation: a finance manager at Procter and Gamble. But Stanley turned that job down in favor of an offer from Deloitte and Touche, a consulting company in Chicago. In that job, he will gain business skills and, possibly, further his education. He said he wanted to



Business student Adam Stanley emerged quickly as a leader among his classmates.

have a bit of seasoning before starting as a finance manager.

"I want people to look at me and think, 'well, this guy knows his stuff,'" he said.

One of his toughest decisions was to turn down a job offer from ABN AMRO North America, the company with which he spent four summers as an Inroads intern.

"I owe them so much," Stanley said. "Turning down their job offer was the hardest call I ever had to make."

Janine Clark, a friend of Stanley's who also graduates this spring, said Stanley's success comes from hard work and commitment. "He also likes to juggle a lot of things. I think that makes him happy," she said.

How does he juggle so many activities and succeed in nearly all endeavors?

Hochberg said, "We assume he sleeps only in the summertime."

— Catherine Behan

The Danforth Era

Making WU a national treasure

When William H. Danforth took residence in the chancellor's office in July 1971, he thought it would be a short occupancy. "I always believed that Washington University was a national treasure, momentarily in difficulty," he said of the radical period that had rifled many American campuses. "There was nothing to do but to take on the job. Three years was probably the minimum that an honorable person could do, five at the outside."

Twenty-four years later, the chancellor still wonders at how quickly the years have raced by. That his tenure is the second longest among the nation's active chief educational leaders gives the chancellor pause. He breaks into a smile, as if discovering for the first time what he has known and cherished for many years: He and the University have constituted a perfect match.

Danforth's last day occupying the chancellor's office in Room 228 North Brookings Hall will be June 30. He will be succeeded by Mark S. Wrighton, Ph.D., provost and chief academic officer at the Massachusetts Institute of Technology.

Danforth's unwavering commitment to education, by his definition, "the most important of all human activities," has fulfilled him beyond his dreams. "The opportunity to work for one of the greatest institutions in the world, to be involved with the leaders of tomorrow and with people who are preserving the knowledge of the past and adding to the sum of human knowledge and wisdom — this has been a privilege," said Danforth.

Yet, members of the University community say the privilege of working with a wise and devoted leader has been very much their own. "Chancellor Danforth has set high standards, by his own behavior, for professional and personal integrity," said James E. McLeod, dean of the College of Arts and Sciences. "This has been great for the University."

"Incredibly dedicated, wise and sensitive, Bill Danforth has been completely and selflessly devoted to the institutional cause," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "He is universally liked, admired and respected — a true rarity among leaders."

The chancellor will be taking leave of a job that has been different every year, he said. "It has kept me challenged. We have accomplished a lot, but there is much more to do as there always has been and always will be." Danforth will continue serving the University as chair of its Board of Trustees, effective July 1, it was recently announced.

Forging partnerships

Danforth long has realized that a university's success depends upon a team effort, and he always has acted quickly to credit those who further the institution's progress. His belief that the thoughtful and steady growth of an institution does not happen without the hard work of many others exemplifies one of his greatest gifts: his refined ability to build strong bridges that link programs, and people, in very significant ways.

"He can rally the support of the alumni, faculty and major corporations and also touch the students," said Gail Louise Grossman, B.A. '77, a criminal defense attorney with her own firm in Miami. "When I was there, I was impressed with how the University was geared toward the students. It would bend to fit your needs. That was remarkable. Chancellor Danforth set the tone for the way the University was going to be run, and everybody followed suit."

Early in his chancellorship in 1971, Danforth played a key role in the University's initiative to form the Division of Biology and Biomedical Sciences at the School of Medicine. The effort was "a stroke of genius," said P. Roy Vagelos, chairman of Regeneron Pharmaceuticals Inc. and the division's first director. Vagelos, also a trustee of the Danforth Foundation and former chair of the Department of Biological Chemistry at the medical school, noted that the program's pooling of 300 faculty members from both the Hilltop and Medical campuses, along with many graduate students, "dramatically enhanced the

teaching of science and revolutionized the teaching of graduate students."

In the early 1980s, the chancellor fostered yet another integral partnership. The University established the Monsanto Agreement, one of the largest research agreements between an American university and an American corporation. Through the agreement the chemical giant provides funding for biomedical research to be carried out by the University's medical faculty in exchange for the right to license any patents that result. The agreement has brought the medical school more than \$100 million in research grants and has produced more than 40 patents.

In characteristic deference to faculty, students and friends of the University, Danforth prefers to see the

campaign in the 1970s that raised \$120 million, and the highly successful Alliance Campaign that raised \$630.5 million between 1982 and 1987, more than doubling the original goal.

"Recently someone asked me why Washington University has been successful," Danforth said. "I answered, 'Because we are never satisfied.'"

The personal touch

Awards and rankings aside, the true measure of an institution's success, according to the chancellor, lies within the students. Honoring his own words, Danforth has labored to ensure that student needs are addressed. The students know this well, holding their chancellor in high

regard for the unflagging interest he shows in them, as well as for the personal touch he manages to impart, even on the busiest of days.

"Last spring at our new officers' luncheon, I was so impressed that he took the time out to meet with us and that he personally greeted us at the door — he didn't send someone else out to do it," recalled Phyllis Chen, a sophomore business major from Bridgewater, N.J., and co-president of the Asian Student Association. "We recently met again, for nearly two hours, on his birthday. Even though he is retiring, he is still concerned about how we are running our organization."

Recently, students expressed deep affection for their chancellor with "the biggest party for the best chancellor," a celebration complete with fireworks and a 150-square-foot birthday cake in the shape of Brookings Hall. Held in mid-April "Chan Dan — the final bash" marked Danforth's 69th birthday. Some 4,000 students, faculty, alumni, staff and friends gathered on campus

to celebrate the special day and to honor the chancellor's unparalleled service to the University.

"The party was wonderful!" exclaimed Elizabeth G. Danforth, who often is seen at her husband's side. "This couldn't have happened anywhere except here at Washington University."

Elizabeth Danforth, nicknamed "Ibby," is as thoroughly engaged with Washington University as her husband. In a letter nominating Ibby for an honorary degree from the University, Burton Wheeler, Ph.D., professor of English and religious studies and chair of the Commencement Committee, wrote: "Mrs. Danforth's job is unofficial, but she is indispensable." Ibby Danforth will receive an honorary doctor of humanities during the 134th Commencement May 19.

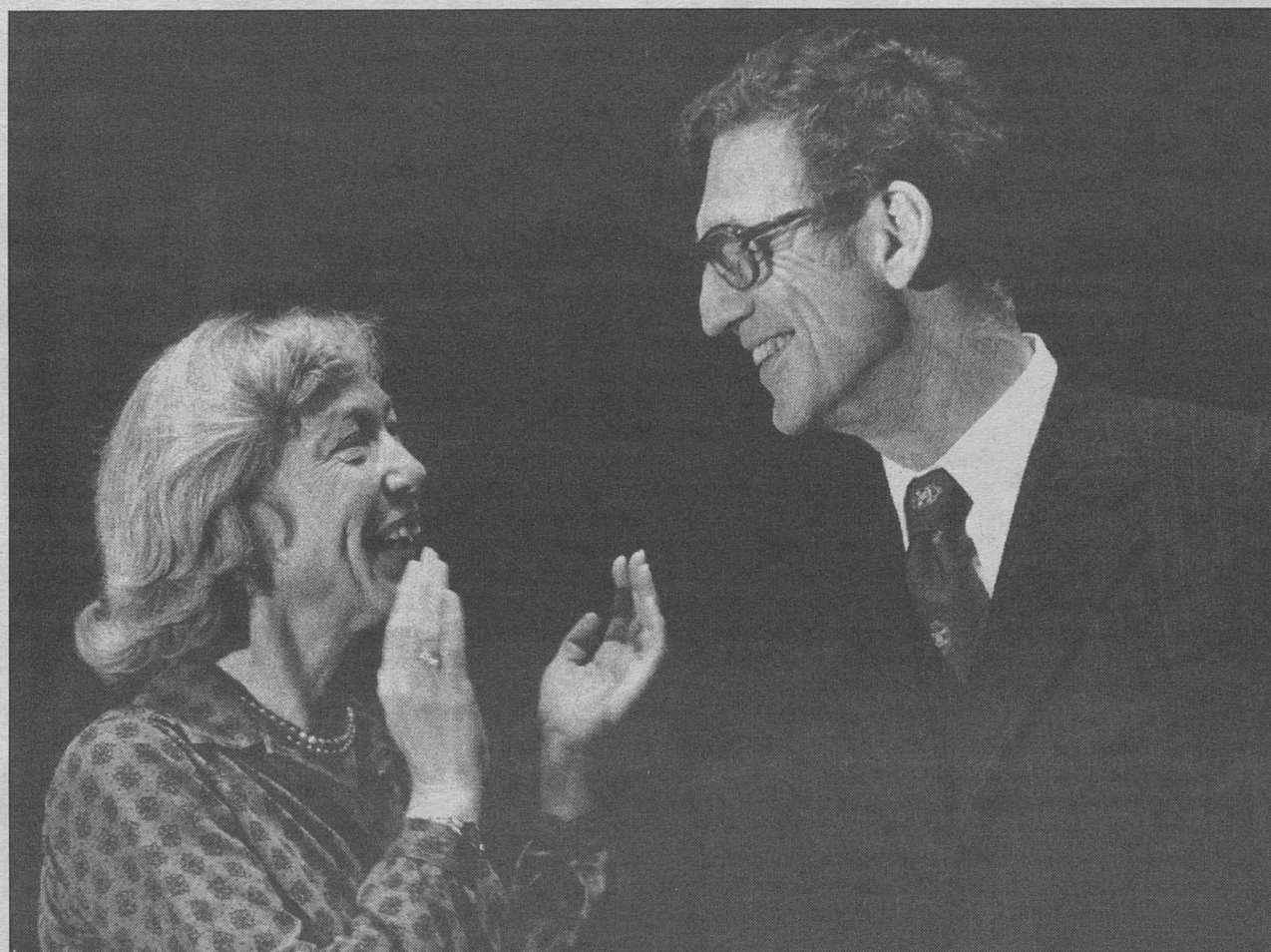
Not only does she attend many campus activities, host receptions and travel to meet with alumni and friends of the University, she also takes classes. She enjoys spending time with the students, "who are so special," she said. "They feel so good about their school, their education, and their chancellor that I think, aren't we lucky to have shared all of this?"

One of the chancellor's most ardent supporters, she is quick to respond to the recent tributes bestowed upon the two of them. "It's Bill," she said pointedly. "This really stems from my husband, his love of the job, and his love of his constituency, whether it's the students, faculty, alumni or the business community. I'm touched that so many people have honored us both."

Ibby Danforth will greatly miss the University, she said, and looks forward to returning to campus each year to present a Women's Society scholarship, newly named in her honor. The scholarship annually provides a community college transfer student from the St. Louis area with a two-year full-tuition scholarship. Both she and the chancellor will continue many of the relationships they have forged with members of the University community — "their extended family," as both are fond of saying.

"The chancellor and his wife are certainly well-known and beloved throughout the University," remarked junior Allen Mattison, a political science major from Belmont, Mass. As the 1994-95 managing editor of Student Life, Mattison has worked with the chancellor and has even given him a few writing assignments. In one issue,

Continued on page 10



Elizabeth "Ibby" Danforth applauds as her husband, Chancellor William H. Danforth, is honored as The Globe-Democrat's 1977 Man of the Year. In his acceptance speech the chancellor explained the many reasons he was pleased with the award. "It signifies a healing of the strained relations between university and community that occurred in the 1960s, not only in St. Louis, but throughout the nation," he said.

"The opportunity to work for one of the greatest institutions in the world ... this has been a privilege."

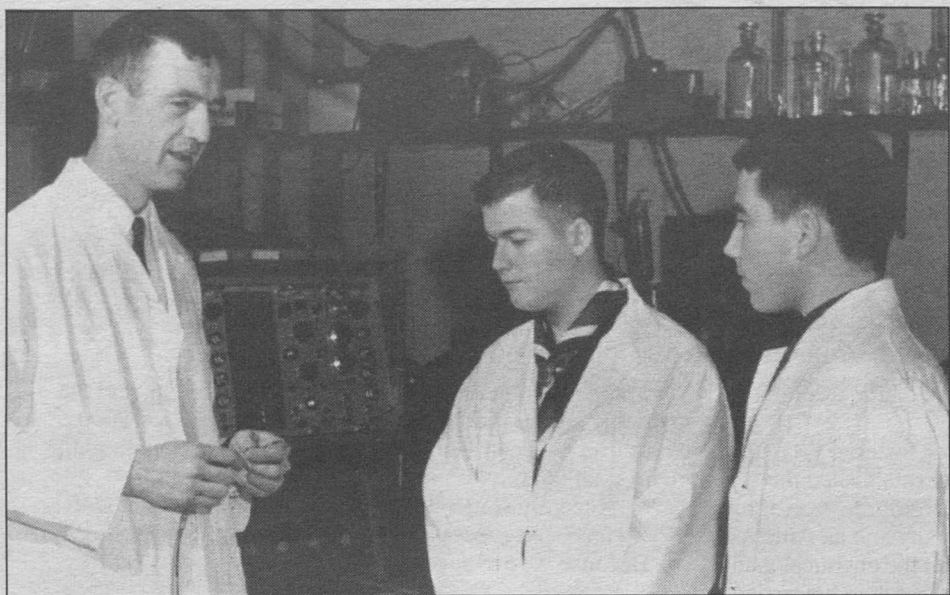
spotlight where he thinks it belongs — on those who create a place for students to learn, grow and mature. He views himself as "part of the infrastructure" of the University. "The real work," he insists, "goes on in the lecture halls, the laboratories, the libraries. We're about teaching and learning — learning by both students and faculty," he continued. "Whatever we in the administration do is given value by what the faculty and students do. You can have a great university without a great chancellor. You cannot have a great university without great faculty and students."

Washington University appears to have benefited from winning combinations of all of the above. Under Danforth's careful eye and steady hand, the faculty and students have taken the "real work" of the University to lofty heights — to higher education's upper echelons of excellence in teaching and research. A sampling of accomplishments bears witness to this rise:

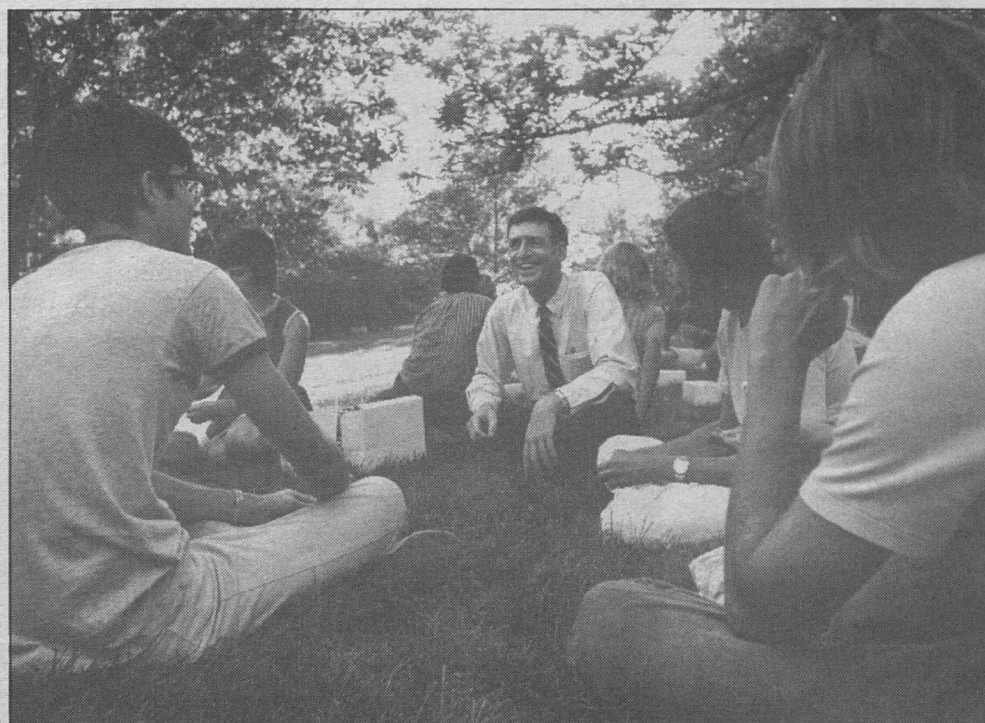
The University consistently has been ranked in the top 25 universities in America. U.S. News and World Report magazine has placed the School of Medicine, the Program in Physical Therapy and the George Warren Brown School of Social Work in the top five in their categories. During the Danforth era, 10 Nobel and two Pulitzer prizes were awarded to individuals associated with Washington University; named scholarships and grants have more than tripled, totaling 840; 70 chaired and endowed professorships were established, bringing the number to 110; and some 60,000 degrees were granted.

During Danforth's tenure the University conducted two major fund-raising campaigns: a three-year capital

The Diary



The year was 1964 — prior to Chancellor Danforth's switch from medicine to administration — when he demonstrated a piece of that day's medical equipment.



The newly appointed chancellor talks with freshmen during an orientation event in 1971.



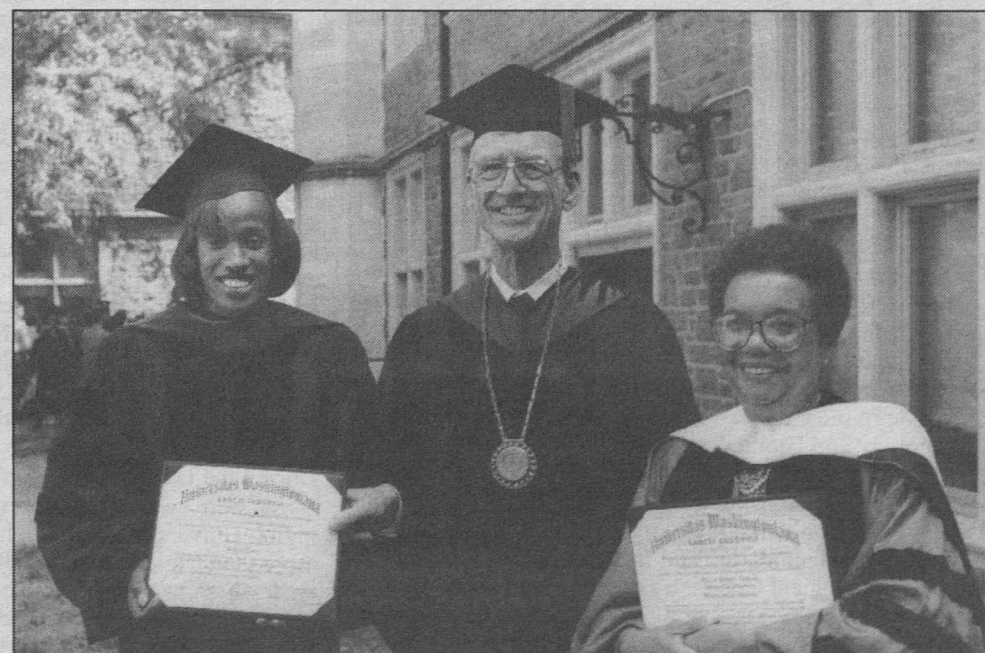
President Bush is welcomed by Chancellor Danforth and student volunteers/leaders on the platform in the Athletic Complex Field House Feb. 17, 1987. Bush praised Washington University as a shining example of his vision of a "Thousand Points of Light." He used that theme during his presidency to express support for an increase in volunteerism across America as a way of improving society. Bush recognized the efforts of numerous Washington University student volunteers, 680 of whom were given special seating at the speech.



Chancellor Danforth was Variety Club "Man of the Year" this spring. Above, Danforth par

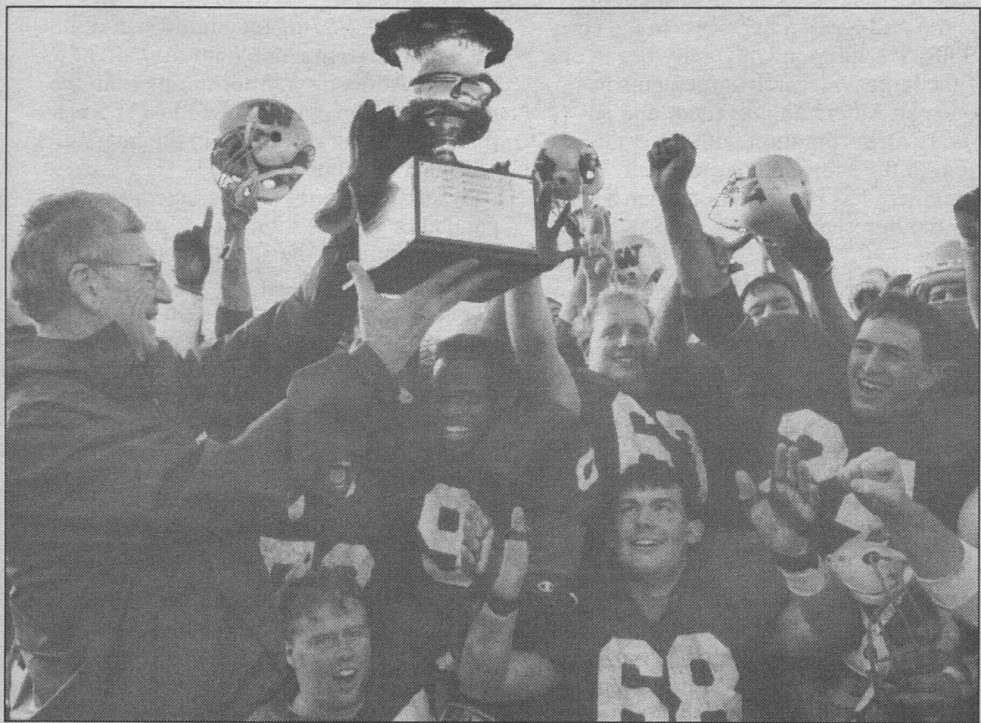


Groundbreaking ceremonies for the new \$13 million John M. Olin School of Business building were held Oct. 7, 1983. Funds for the building were raised through the Alliance for Washington University. Above (left to right) were: Robert L. Virgil, then dean of the business school; Charles F. Knight, chair and chief executive officer of Emerson Electric Co. and a University trustee; Chancellor Danforth; W.L. Hadley Griffin, chair of the board of Brown Group Inc. and then chair of the University's Board of Trustees; and George H. Capps, president of Capitol Coal and Coke Co., general chair of the Alliance for Washington University, and then vice chair of the University's Board of Trustees.

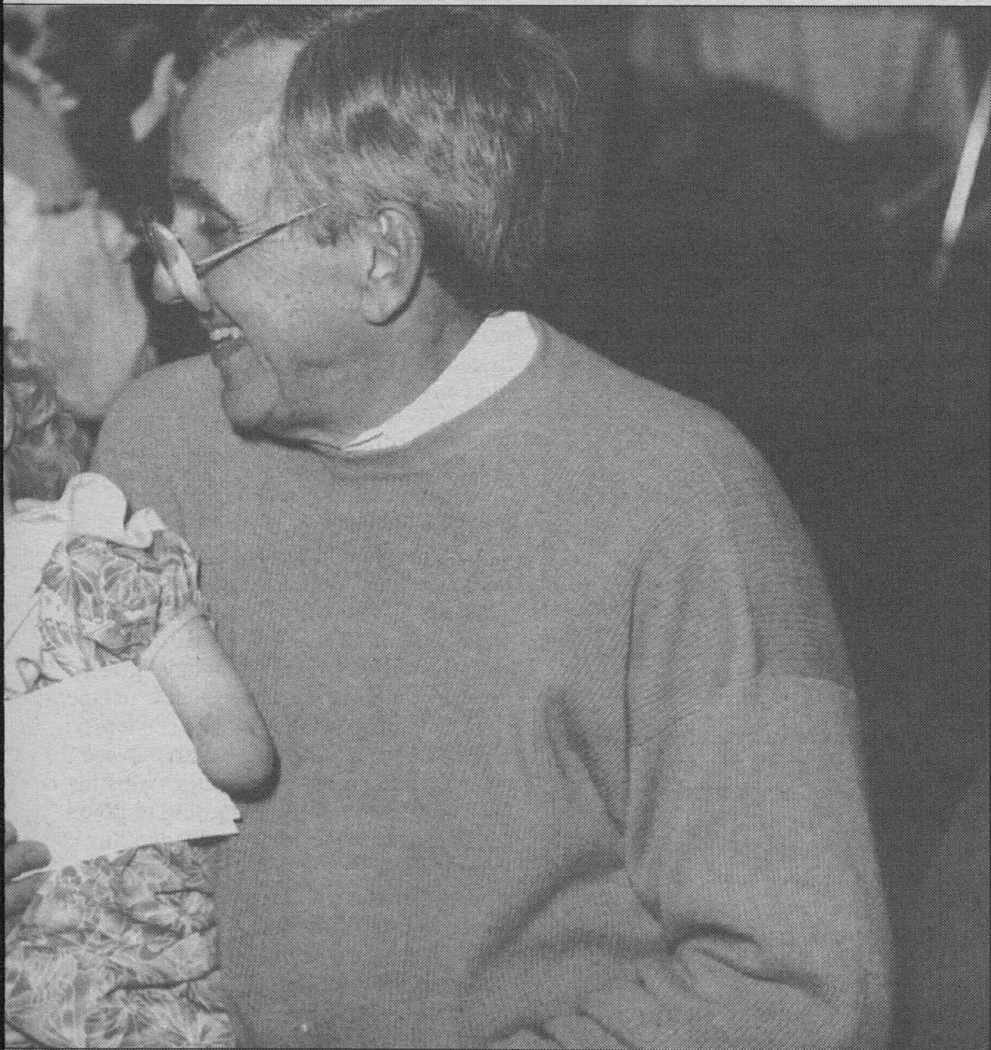


Chancellor Danforth with 1992 honorary degree recipients Jacqueline Joyner-Kersee, Olympic track and field gold medalist, who received a doctor of laws, and Marian Wright Edelman, founder of the Children's Defense Fund, who received a doctor of humanities and delivered that year's Commencement address, "The Measure of Our Success." Danforth has been on hand as more than 150 received honorary degrees. The recipients have included St. Louis Symphony conductor Leonard Slatkin, comedian Bob Hope and filmmaker Charles Guggenheim.

Danforth Era



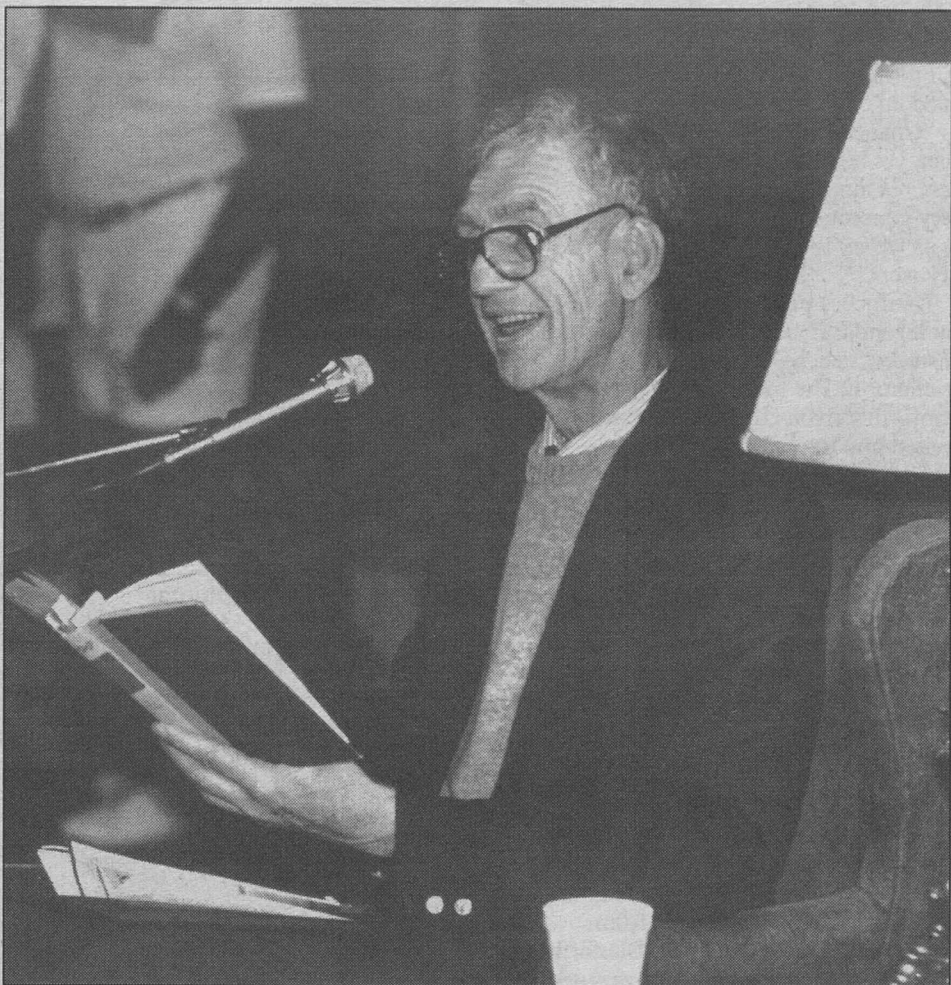
Chancellor Danforth helps the football Bears celebrate their victory over the University of Chicago 25-7 in November 1991. Danforth is a fervent fan and frequent spectator at Washington University sports competitions.



icipates in the telethon.



More than 200 faculty gave Chancellor Danforth a standing ovation at the May 8 meeting of the Faculty Senate. From left, Paul Michael Lützeler, Ph.D., chair of European Studies and Rosa May Distinguished University Professor in the Humanities, Nicholas Dopuch, Ph.D., Hubert C. and Dorothy R. Moog Professor of Accounting, Danforth, and Michael W. Friedlander, Ph.D., professor of physics, listen as individual faculty members praise Danforth's tenure. In appreciation of Danforth's exemplary leadership, the faculty also presented him with a replica of the Bears statue that stands in front of the Athletic Complex.



Chancellor Danforth began the tradition of reading "bedtime stories" on the South 40 every year during freshman orientation. Through the years he has read from James Thurber, E.B. White, George Orwell, and other authors of his liking.



Brothers meet at the introduction ceremony for the first presidential debate of 1992. The first nationally televised three-person debate in U.S. history was held in the Athletic Complex Field House on Oct. 11. U.S. Sen. John C. Danforth introduced Chancellor Danforth prior to the televised portion of the debate.

Chancellor Danforth listens to members of the Association of Black Students at a reception he hosted for friends of the University in fall 1994.

Photographs by Joe Angeles, David Kilper, Bob Srenco and Herb Weitman.

Danforth era brings great achievements

William H. Danforth succeeded Thomas Eliot as chancellor of Washington University in 1971.

In the 24 years since, the institution has grown dramatically. Danforth's far-reaching vision and his talents as an administrator, fund-raiser and fiscal manager are strengthened by his unparalleled sense of integrity, respect for traditional values and genuine concern for his fellow human. He has served as the beacon that has guided Washington University into national and international prominence. Among the University's myriad achievements earned during the Danforth era are the following:

- Between 1971 and 1994, more than 60,000 degrees were granted by Washington University.

- Twenty Nobel Laureates have been affiliated with the University. These individuals have served the University as faculty or house staff, or attended as students. In 1971, this group totaled 10.

- Rankings by U.S. News and World Report magazine have placed Washington University in the country's top 25 universities. Washington University currently ranks 20th.

- Washington graduates often receive such prestigious graduate study awards as

Fulbright, Marshall, Beinecke, Truman and Rhodes scholarships. Fellowships awarded include Goldwater, Mellon, Putnam, National Science Foundation and National Graduate fellowships.

- Students received \$35.1 million in financial aid in 1994, compared to \$3 million in 1971. To attract and retain a top-flight, diverse student body, the University uses a combination of its own funds and some support from federal assistance programs to provide aid to these students.

- The number of applications to the University has doubled in the past decade, numbering 9,300 in 1995. Last year, 88 percent of first-year students ranked in the top 20 percent of their high school classes.

- Eighty-six percent of entering first-year students graduate from Washington University. This number has increased 16 percent since 1971. (A graduation rate above 80 percent is considered excellent.)

- The number of chaired and endowed professorships has climbed from 40 in 1971 to 124 in 1995. These positions are held by nationally and internationally regarded teacher-scholars.

- Over the past 24 years, special scholarship opportunities created by both the University and by the generosity of its

alumni and friends have grown from 276 to 840.

- Research awards, grants and contracts form the basis for a significant portion of the activities of Washington University faculty and their students. This support rose from \$30.7 million in 1971 to \$211.8 million in 1994. Of the latter figure, \$165 million comes from federal sources.

- The School of Medicine is ranked fourth among medical schools receiving funding from the U.S. Department of Health and Human Services. In the early 1980s, Washington University began one of the largest research agreements between an American university and an American corporation with the establishment of the Monsanto Agreement. The agreement has brought more than \$100 million in research grants to the medical school.

- The cost of operating Washington University has increased ten-fold since 1971, reaching \$779.9 million in 1994. The University has maintained balanced budgets for the past two decades and is engaged in a program to improve services to students while containing and reducing administrative costs.

- The market value of the University's endowment has grown eleven-fold from \$147.4 million in 1971 to \$1.72 billion in 1994. The endowment is maintained in perpetuity to provide earnings support for scholarships, professorships and necessary programs.

- In 1971 alumni, parents and friends of the University gave \$13.6 million to support the institution; these donors gave \$62.3 million in 1994. In the 1970s, the University conducted a three-year capital campaign that raised \$120 million, followed in 1982-87 by the highly successful Alliance Campaign that raised \$630.5 million. At the time of its completion, the Alliance Campaign was the most successful fund-raising campaign in the history of higher education.

- Many facilities were erected, expanded or acquired during the past 24 years. Several of the academic buildings are used for both teaching and research. These facilities number 34 and include the new psychology building and the School of Law building, both under construction on the Hilltop Campus, and the Newman Center and two research buildings under construction on the Medical Campus.

Chancellor takes a national treasure to his heart — from page 7

Danforth crafted an opinion piece on freedom of expression.

"Chancellor Danforth is an understated man, yet he's a very intelligent — a brilliant person," Mattison said. "He has been very generous with his time and helpful to us as we try to figure out how the University works."

Danforth's personal touch is evident in the legendary "bedtime stories" he reads to students each year during freshman orientation. The tradition began early in Danforth's chancellorship, when students invited him to read at the South 40. "I said, 'sure,'" Danforth recalled, "thinking they were probably kidding. But then I saw signs about the reading around campus, so I tried to figure out what would be appropriate." Through the years he has read from James Thurber, E.B. White, George Orwell, and other authors of his liking. He graciously has complied with students' requests to read on other occasions, "but I always make a deal," noted Danforth. "I'll read if they'll read."

"The best and brightest minds"

Danforth's caring nature first led him into the field of medicine. He received a medical degree from Harvard University in 1951 following a bachelor's degree from Princeton University in 1947. Danforth embarked upon his medical career in 1951 as an intern in medicine at Barnes Hospital. During his years as a young physician on the medical faculty, he said he worked with some of the best and brightest minds the world had to offer. "I had caught the drive for excellence. It was contagious," he said.

His research on glycogen metabolism in the laboratory of Nobel Prize winners Carl and Gerty Cori, earned him election to the prestigious American Society for Clinical Investigation and marked a particularly exciting time. His admiration for the great physicians of the era inspired him to reach for high levels of achievement for himself and for the University.

Danforth's appointment to vice chancellor for medical affairs in 1965 followed 14 years in various positions on Washington's medical faculty. After a year of interning in medicine at Barnes Hospital, the chancellor served as a U.S. Navy physician from 1952-54. He returned to the Medical Campus where he worked in pediatrics and cardiology, the latter as a fellow, from 1957-58, in the research of metabolic processes that underlie a failing heart. Danforth served as instructor from 1957-1960, assistant professor from 1960-65, and as associate professor from 1965-67, all in medicine. He was named a full professor of internal medicine in 1967.

"I've taught some of the brightest students. I've had the opportunity to take care of people from all different kinds of backgrounds and walks of life," recalls the chancellor, "to deal with their deepest personal problems, the things they cared about. It was a great privilege."

Danforth's move into the relatively new post of vice chancellor for medical affairs

presented him with different challenges. In recalling these years, Danforth is reminded of an observation shared with him by close associate M. Kenton King, M.D., retired dean of the School of Medicine. "There are two kinds of people," Ken King once said to me. "Those who look for the problems and say they're too great for me; I want to do something else. And those who look at the problems and say, great! I've always thought of that when trying to make appointments."

Six years later, Danforth was offered

ing fields to assist with the Special Olympics, which the University has organized and hosted for several years.

Danforth views the St. Louis community as a national treasure, as well. A native son and member of a prestigious and admired family — Danforth's grandfather founded Ralston Purina Co., the giant foods and animal feed company — Danforth has worked tirelessly for the city he loves. From a young age, he was taught the importance and value of a life of service and has never forsaken these early lessons.



The chancellor and Ibbey Danforth on her birthday in 1994.

the position of chancellor. Subscribing to the philosophy of the second premise in King's tenet, he accepted. He took the "national treasure" to his heart. With the hard work and support of the University family, he has greatly increased its value and given it a luster that rivals that of the country's finest institutions.

When asked to describe the gains and losses that might accompany a move from medical faculty to chancellor, Danforth looked askance and replied, "I simply don't think that way. I've learned in every job. Medicine is a great profession. I wouldn't have traded it for anything. As chancellor, I've had the best job in the world."

Danforth continues to hold the title of professor of internal medicine and has maintained a deep affinity for all that transpires at the Medical Campus. "Bill's leadership has contributed significantly to the increasing success of the School of Medicine," said executive vice chancellor Peck. "He has vigorously promoted our mission and our system of governance, represented us effectively to our many constituents, and helped us recruit and retain the best faculty. His timely but unintrusive advice and counsel have never failed to guide us through rough spots."

In many ways, the chancellor has continued to do what he first envisioned for himself as a young Harvard Medical School graduate: caring for people.

His concern for his fellow human has brought him to the bedside of ill staff members and students, to the support of countless campus events, and to the play-

In taking leave of his post at the University, the chancellor shares a historic moment with his younger brother, Sen. John "Jack" C. Danforth, who stepped down from government service this year. The senior lawmaker, too, has served a lengthy tenure in the 18 years he's represented Missouri in the U.S. Senate.

Serving humanity

University and community form a symbiotic relationship that the chancellor has carefully tended. "To have a successful community it is necessary to have in it world-class institutions with national and international outreach," stated Danforth. He supports this view by example. Besides service on a variety of area corporate boards, he also serves on numerous charitable boards, such as the United Way of Greater St. Louis, the Boy Scouts of America-St. Louis Council, and the American Youth Foundation. He holds leadership positions in many higher education organizations and those affiliated with science and health.

Danforth has served the prestigious Association of American Universities (AAU) in a number of capacities, including chairman. Longtime colleague John W. Ryan, president emeritus of Indiana University in Bloomington, remarks on Danforth's AAU contributions: "Because of Bill's leadership, the nation enjoyed 10 years of constructive, effective policy-making in the education of health professionals and the support of research into health priorities."

Danforth also has a presence in AAU international affairs. "It was clear that

presidents from around the world listened carefully to the soft voice and persuasive rhetoric of Bill Danforth," Ryan added. "His contributions advanced the relationship-building that has characterized the context of U.S.-European universities for the past 20 years."

Danforth's far-reaching vision of the University's role has been sharpened by his knowledge that "progress in education is measured in decades, not years." This vision always has been backlit by the philosophy that in 1853 breathed life into Washington University. The University's co-founders — headed by William Greenleaf Eliot, poet T.S. Eliot's grandfather — had "a wonderful combination of idealism and practicality," said the chancellor. "These individuals chose to deal above the fray of a country that was experiencing sectional strife, a shift in political parties, and ideological and religious disputes. They wrote into their charter that the University should be open to all."

"To be worthy of its heritage, the University will continue to evolve and improve, much as it has in the past," said Danforth.

Family matters

The quintessential family man, Danforth does not, for a moment, take anything for granted. "I was lucky to have married well," he said of his 45-year partnership with his wife. "Our children have given great meaning to our lives — new perspectives on human affairs. It has been a privilege to have raised them and now to see them forming their own families, raising their own children. Life is going to go on long after we've left the world, and this is very exciting."

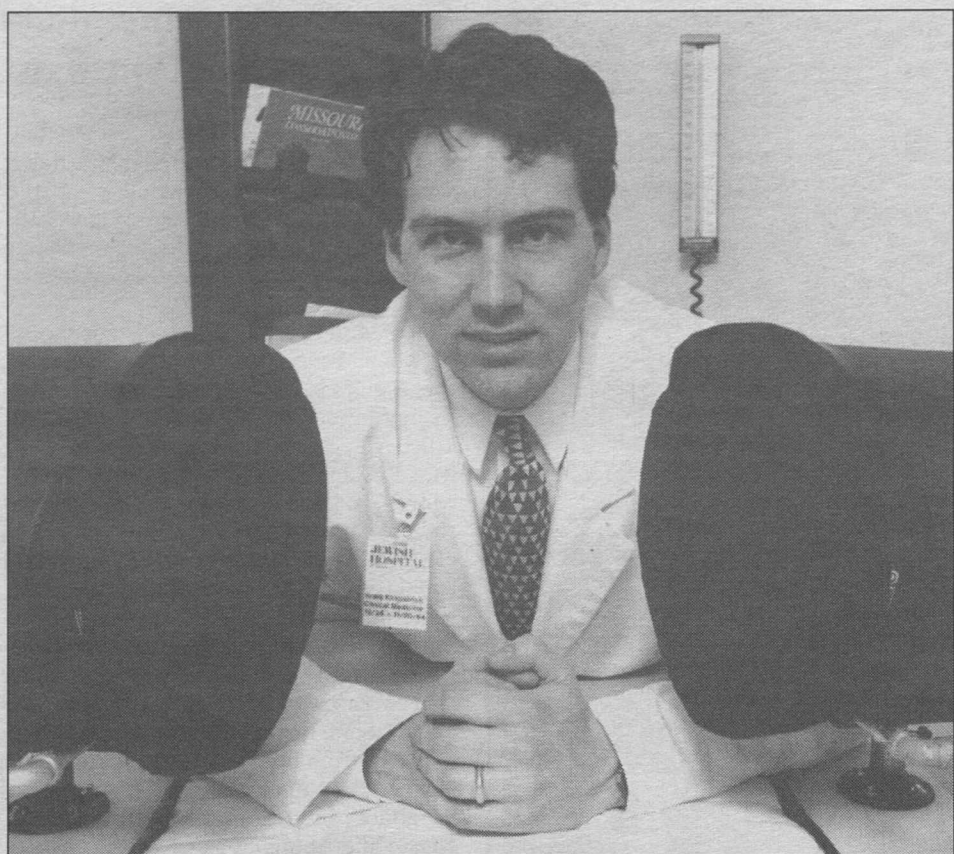
The Danforth children already are jockeying for prime time with their parents. "One of my daughters is trying to make a golfer out of me, and it's proving disastrous," said Ibbey, laughing. "At this point, I don't have time for it. And I don't think Dr. Danforth will be playing golf in his retirement."

The chancellor looks forward to visits to Lake Michigan, where he finds time "to think and organize thoughts." At the mention of their grandchildren, both Danforths light up, providing an obvious clue as to who soon may be occupying much of their time.

In the 24 years since Danforth heeded the call of a restless University, the excitement of serving as chancellor has never abated. Colleagues say Danforth always has approached his work with great integrity and a sense of wonder tempered by the wisdom and wit to do what he deemed fit. He continues to marvel at the University's research projects, to take pride in student and faculty achievements, and to celebrate the institution's successes.

How might this extraordinary leader like to be remembered? "For the successes in the lives of those students who graduated during my tenure," he answers. With a grin, he adds, "I've told them I'd be happy to be a footnote in their biographies."

— Cynthia Georges



Graduating medical student Kraig Kirkpatrick developed a sonic percussion device to clear small airways in the lungs of cystic fibrosis patients.

Patent proceeds will aid Third World — from page 1

Ph.D., professor of radiation sciences. In the early 1970s, Ter-Pogossian had developed a well-known medical device — the PET scanner.

A parental grant and donations of cosmetically flawed audio components from audio companies allowed Kirkpatrick to assemble his sonic percussion device. He had plenty of experience with hands-on projects, having helped his father remodel their home in Kansas City, Mo.

The device consists of a plastic board, two speakers on stands, acoustic mufflers, a power amplifier and an audio oscillator. The patient lies on the board on his side, and the speakers direct sound waves into the front and back of his chest for 20 minutes. When the patient's voice begins to quiver, the sound waves have hit the airways' resonant frequency.

The sonic treatment, combined with deep breathing and spontaneous coughing, appears to be just as effective as manual percussion. Under the direction of Marin N. Kollef, M.D., assistant professor of medicine and medical director of Barnes Hospital Respiratory Services, Kirkpatrick has begun to evaluate the device. Each patient receives manual percussion one day and sonic percussion the next — or vice versa. After each treatment, Kirkpatrick compares both lung function and the total

weight of mucus expelled. The results will be presented May 24 at a poster session of the American Thoracic Society/ American Lung Association International Conference in Seattle. If the device is patented, Kirkpatrick said he will donate his share of the proceeds to medical programs in developing countries. His interest in medicine and the Third World comes from his family. His father, a minister in the Church of the Reorganized Latter Day Saints, performs missionary work in Africa several months each year, and his mother is dean of nursing at Graceland College.

After graduation, Kirkpatrick will become a resident at Washington University's Mallinckrodt Institute of Radiology. He intends to become an interventional radiologist — a radiologist who enters the body in a minimally invasive way via the bloodstream. "One benefit is to save patients from surgery," Kirkpatrick explained. "It's the least invasive way of treating, say, certain types of tumor or malformed blood vessels in the brain."

Meanwhile, Kirkpatrick will continue to test the sonic percussion device. The only alternative to manual percussion is a therapy vest, which comes with a huge compressor. "I want to develop a portable device," he said, "so patients can regain their independence." — Linda Sage

University sets UAA record by winning nine conference championships in one school year

It was a record-setting school year for Washington University's athletics program as the Bears captured nine University Athletic Association (UAA) titles — a league record. The Bears concluded the year by claiming both the men's and women's outdoor track and field titles on April 23 for their eighth and ninth titles.

Washington, along with the University of Rochester, held the previous UAA single-year record of seven. Rochester won its seven UAA titles in 1987-88, the first year of league competition, while the Bears captured seven UAA crowns in 1989-1990.

In addition, four Washington teams were invited to NCAA Division III postseason tournaments, with the Bears' volleyball squad winning its fourth consecutive national championship.

The UAA, the most geographically diverse small college conference in the nation, is in its eighth year of existence. The nine members of the UAA, all pri-

vate research universities with undergraduate, graduate and professional programs, are: Brandeis University (Waltham, Mass.), Carnegie Mellon University (Pittsburgh), Case Western Reserve University (Cleveland), University of Chicago, Emory University (Atlanta), Johns Hopkins University (Baltimore), New York University, University of Rochester (N.Y.), and Washington University.

The formation of the UAA is a bold statement of what college athletics can and should be — that it is highly desirable and possible for a group of committed institutions to conduct a broad-based program of intercollegiate athletics for men and women; to compete with like academic institutions spread over geographically expansive areas; and to seek excellence in athletics while maintaining a perspective that holds the student-athlete and the academic mission of the institution as the center of focus.

Washington's 1994-95 UAA champions:

Sport	Head coach	Sport	Head coach
Football	Larry Kindbom	Men's Basketball	Mark Edwards
Volleyball	Teri Clemens	Baseball	Ric Lessmann
Men's Soccer	Ty Keough	Men's Track and Field	John Pfeiffenberger
Women's Cross Country	Troy Engle	Women's Track and Field	John Pfeiffenberger
Women's Basketball	Nancy Fahey		

Anthropology students lead major conservation efforts around the world

Although some students wait to look for a job until after they graduate, several graduate anthropology students of Robert Sussman, Ph.D, professor of anthropology, are not only employed, but are leading significant conservation efforts around the world. All five students — Josephine Andrews, Donna Hart, Michael Fay, Claudia Olejniczak and Shawn Lehman — will finish their dissertations in the next year or two, said Sussman.

The field of conservation is ripe with employment opportunities, Sussman said, and an anthropology degree is one of the best training fields for international conservation efforts. A longtime advocate of drawing the local population into conservation efforts, Sussman has received admiration from leaders of varied wildlife organizations.

Andrews, director of the Black Lemur Project in Madagascar, agrees with his theory.

"If you are interested in working with people or in the human/wildlife conflict, then anthropology puts you in a good position for working with local people," she said, adding that unless researchers understand the "traditions, hopes, beliefs and feelings" of the indigenous people, then "conservation is never going to work."

Andrews is combining her interest in primate biology with her interest in the local populations. Part of her project involves identifying and developing alternative sources of income, such as tourism, that would take pressure off the forest, which is being severely deforested to make way for agriculture.

Her program also involves long-term ecological research on black lemurs and their forest habitats, a Malagasy student-training program, and educating school-children about their environment. Andrews, who recently received the Whitley Award — a major international prize — for her contributions, works with a team of Malagasy students, school teachers and researchers.

"If my project is successful, the principles of integrated research, local education and small-scale development can be applied elsewhere on Madagascar, because the government is very keen on attracting tourists. This project both educates the tourists and generates income for the locals ... everyone benefits and hopefully this will ensure the long-term protection of the tropical forest."

Hart, vice president of wildlife programs for the International Wildlife Coalition, works a little closer to home, but her work is equally international in scope. Based in Clarksville, Mo., Hart focuses on multilateral wildlife agreements, in which many countries gather together to draft and ratify treaties to protect and manage animal populations. One such treaty is the Convention on International Trade and Endangered Species. Hart serves as an adviser and resource for governments researching and developing conservation plans to bring to the table. The International Wildlife Coalition, a 200,000-member group based in Falmouth, Mass., is supported entirely by membership dues and donations.

Sen. Danforth focuses on inner city — from page 1

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. Danforth also was a member of the Select Committee on Intelligence.

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 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.

Thomas Joseph Deutsch, senior class

president, will give the student Commencement address.

Hart, who plans to finish her dissertation this year, began her environmental career about 22 years ago. "It's hard to explain the energy created by such things as Earth Day back then," she said. "But I got swept up in that and began doing volunteer work in conservation." Shortly after that Hart became a professional in the field.

"Many of us interested in conservation gravitate to Bob Sussman in the anthropology department," said Hart. "He is a well-known and highly respected conservationist. He was, for example, one of the first to highlight the risk to the primate populations in Madagascar."

Sussman co-founded the Beza Mahafaly Reserve in southwestern Madagascar with Alison Richard, Ph.D., professor of anthropology and provost of Yale University, and Guy Ramanantsoa, a professor at the University of Madagascar. At Washington University, Sussman also helped establish the Environmental Studies Program, in which undergraduates can major. The first undergraduates receiving degrees in environmental studies are graduating this spring.

Africa is the focus of a lot of conservation work, including much of what Hart does. Fay, director of Project Nouabale-Ndoki, a multimillion dollar conservation program in the Congo, works in the forest itself. The project, which is run by the New York Zoological Society and funded mainly by USAID, involves conserving major portions of the remaining forests of the Congo, in part by integrating the forest with the indigenous people and trying to save large populations of elephants and gorillas. Fay's project was the focus of a Time magazine article almost three years ago. His dissertation will examine the effects of gorillas and elephants on the forest vegetation.

Olejniczak, a graduate student working in the Congo with Fay, is documenting the Congo gorilla population. Olejniczak has received grants from numerous organizations, including the Fulbright Foundation, Boise Fund, Leakey Foundation, and the Chicago and Milwaukee zoological societies, and has spent more hours observing lowland gorillas than any other researcher, said Sussman.

Lehman, on-site director of the Smithsonian Institution's biodiversity project in Guyana, is charting completely new territory. His project will help determine the distribution, density and diversity of plants and animals in Guyana. Sponsored by the Smithsonian Institution and run in conjunction with the University of Guyana, this is the first broad biodiversity survey in that country. Lehman's dissertation, which expands a preliminary research project by Sussman and Jane Phillips-Conroy, Ph.D., associate professor of anthropology, will focus on the biogeography of the primates of Guyana.

"Conservation and world ecology are pressing concerns and it's gratifying to see these students and others contribute to this effort and pursue their research interests at the same time," said Sussman.

— Debby Aronson

Chancellor Danforth will confer the academic degrees, assisted by Provost Edward S. Macias, Ph.D. The chancellor then will deliver his message to the 1995 graduates.

Joseph Michael Consiglio, a graduate student in the Department of Music, will conclude the ceremony by singing the Alma Mater.

Following the Commencement exercises, the deans of the various divisions will hold receptions where individual diplomas will be distributed. (See calendar on page 15 for reception locations.)



From left, Craig Monson, chair of the Department of Music, Christine Armistead, lecturer in music, and John Lowry, judicial administrator, served students a "Late-Night Breakfast" at 11 p.m. May 4 as students were preparing for finals. Faculty and administrators made buttermilk pancakes and served a variety of other foods provided by Marriott Food Service. Marriott sponsored the study break in Wohl Center. About 450 students were served.

Community remembers senior Melissa Aptman

Approximately 50 students gathered in a light rain to plant a red maple tree in senior Melissa Aptman's memory as part of a campus-wide effort to help students and friends cope with her tragic death. The tree-planting was held in front of the Women's Building Tuesday morning.

In addition, more than 800 students, faculty and staff gathered last Thursday evening in the Brookings Quadrangle for a memorial service for Aptman, who was killed May 5 leaving Chuy Arzola's Tex-Mex Restaurant (commonly known as Chuy's) in Dogtown. Aptman and a second student were abducted as they got into their car. They were taken to East St. Louis, shot and left for dead. The second student was shot three times in the face and survived. She was released from the hospital four days later. Their car was recovered in St. Louis.

The service, which lasted about one and a half hours, included a slide show, a taped message from both of Aptman's parents, a letter to the gathering from the survivor of the attack, and readings from friends, a cousin and Aptman's sister. Chancellor William H. Danforth, his wife Elizabeth, and Chancellor-designate Mark S. Wrighton attended the memorial.

"I want you to remember a very important message that I truly believe," said Aptman's mother in part of her taped message. "We cannot let violence take over. If we allow this to stop us from doing good things, then violence has won. You cannot give in to senseless random violence. I know if Melissa were here today she'd be saying these exact same words."

Aptman's father said, in part of his message, "We do not sit here with anger. We sit with hope for you, our young generation."

One of Aptman's friends read a message from the survivor. It said, in part, "Melissa, you will be my source of power, hope and love for the rest of my life. You will be in my heart every day and on my shoulder watching over me. I love you. I will always love you."

At the end of the memorial service, Rabbi James S. Diamond, executive director of Hillel, said the kaddish, a Jewish prayer for the dead. Candles were lit and the mourners filed slowly and quietly from the quadrangle.

The surviving student's parents also relayed a message to the Washington University community. The message, which was written and passed out to those attending the memorial service read, in part:

"To us, Washington University has been, and now will always be, a very special place. The University community has become like an extended family for us. In the hours between the incident and the time we arrived in St. Louis early Saturday morning, others whom we have not met were critical in finding, helping, transporting and caring for our daughter. To those people: We have not seen your faces, but your efforts have touched our hearts. Our hearts are broken over the Aptman family's most profound loss. Melissa was a jewel — a very, very special young woman. We ask you all to direct your good intentions toward the Aptmans and toward supporting the project they have begun as the Melissa Aptman Fund."

In addition, Danforth wrote a letter to all students' parents. It read, in part:

"This tragic, senseless murder has shocked the campus community and indeed the entire St. Louis community. I have never experienced such a pulling together of so many people. Students, faculty and staff were like one extended family. Many went far beyond the call of duty. Those closest to Melissa dealt with their loss with love and understanding and support for one another. I am fortunate to be associated with such wonderful people."

A campus counseling session also was held for students, staff and faculty affected by the crime. In addition, the Student Counseling Service will be available to help students throughout the summer.

As of press time May 16, one 16-year-old suspect has been charged with murder and a second suspect is in custody.



Melissa Aptman

Internships give students behind-the-scenes look at TV network

Senior Josh Gotthelf gets nostalgic every time he watches "48 Hours."

Gotthelf, an English major from Boston, worked as a full-time intern for the CBS news magazine program over winter break. He and fellow seniors Cloise B. Anderson, Alyse C. Dampf and Carla C. Waldron were the first students to participate in the new CBS internship program sponsored by the College of Arts and Sciences. The students work at CBS headquarters in New York.

Alumna Ann Rubenstein Tisch established the internships to offer Washington University students more opportunities in journalism. Tisch, who is a member of the Board of Trustees, received a bachelor's degree in sociology from Washington University in 1976. She worked as an NBC news correspondent from 1984-1991, at various points filling in for Jane Pauley on the "Today" show. From 1979-1984 she was an anchor/reporter for WCCO-TV, a CBS station in St. Paul-Minneapolis, Minn.

At CBS, Gotthelf conducted research for future "48 Hours" segments on airline safety and gambling. He spent a lot of time in the network's library, reviewing previous articles on the topics and gathering related statistics for the show's producers. "It was just an incredible opportunity," he said. "It's not often that you get exposed to a television network. I really did learn how the television business works, and it was interesting to be behind the scenes. A lot of writing and editing is involved in a five-minute segment that doesn't focus on breaking news. It takes a few days to complete."

Warren Davis, assistant dean in the College of Arts and Sciences, and Nancy Sutherland, career counselor in the Career Center, serve as campus coordinators for the CBS internship program. Like Gotthelf, all of the program participants "came away with a good picture of what goes into creating and producing the news. They learn that there's more to it than what they see on the 5 p.m. newscasts. There's research, writing and editing involved," said Davis.

Furthermore, "the internships help students clarify their career goals and give them a sense of accomplishment," said Sutherland. "They learn they have something to contribute. Producing the news is a team effort, so students feel like they're part of the team."

As a result of the internship, Gotthelf has concluded that a broadcasting career is in his future — but not immediately. He first wants to pursue a career in print journalism because it would enable him to hone his writing skills faster, he said.

Entry-level newspaper reporters get to write stories, compared to entry-level TV production assistants who do not, he added.

Gotthelf plans to stay in St. Louis after graduation. He is a contributing writer for Sports St. Louis, a monthly magazine that will premiere in June. He additionally is a freelance writer for the St. Louis Business Journal.

As a University student in the 1970s, Tisch had to diligently seek internship opportunities in broadcasting. She eventually landed an internship at KMOX-TV (now KMOV-TV), and considered it a very worthwhile experience, said Davis.

By setting up the internship, Tisch has shown "a real sense of commitment to Washington University," said Sutherland. Gotthelf, who has met Tisch, agrees. "She basically went out on a limb and put her faith in four people (students) that she didn't know," he said.

Brian Bredeson, assistant director of the Career Center, Davis and Sutherland select the students based

on a résumé as well as a 250- to 500-word essay and interview. They look for organized, detail-oriented students who have strong writing skills and have shown an interest in journalism. Students of all backgrounds are encouraged to apply. Eldra Gillman, manager of professional advancement and internship at CBS News, serves as the students' mentor and makes sure they have a meaningful internship experience.

Seven students have been selected to participate in this year's summer internship program, with six students working at CBS and one student working at ABC. Tisch also arranged the ABC internship.

Once the internship participants return to campus, plans are under way to assist them in further using their new skills, said Alfreda Brown, director of the Career Center.

Students interested in learning more about the CBS internships for the next winter break or summer may call Davis at 935-6806 or Sutherland at 935-4613.

— Carolyn Sanford

Campus Watch

The following criminal incidents were reported to the University Police Department May 8-14. 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.

May 8

2:27 p.m. — A student's bicycle was reported stolen from the rack just south of Lopata Hall sometime between 9:15 a.m. May 6 and 10:15 a.m. May 7.

6:28 p.m. — A student's book bag was reported stolen from the library in Givens Hall.

May 10

8:26 a.m. — A staff member reported that a locker used to keep exam papers in McMillen Laboratory was damaged. University Police are investigating the incident.

May 11

1:15 a.m. — A student reported seeing a male subject remove a "One Way" sign from Shepley Drive and another subject carry it away. The subjects were not located.

3:08 a.m. — A student reported that someone had stolen two "Permit Parking Only" signs from outside of Millbrook Apartments.

3:52 p.m. — A tire was reported stolen from a student's bicycle locked to the rack just east of Simon Hall.

11:51 p.m. — A student's bicycle was reported stolen from the rack just north of Givens Hall.

May 12

4:49 a.m. — A security guard reported that a bulletin board outside of Olin Library had been set on fire. The fire was extinguished with a nearby fire extinguisher, but the resulting smoke set off the Olin Library fire alarm.

May 13

12:20 a.m. — A University police officer apprehended two students who apparently entered the stairwell of North Brookings Hall through an open window and were damaging a door in an effort to gain access to the flag tower. The students have been referred to the Board of Judicial Administrators.

2:19 p.m. — A tire was reported stolen from a student's bicycle locked to a rack at Millbrook Apartments.

In addition to the incidents listed above, University Police responded to nine reports of vandalism, three reports of recovered property and one report of destruction of property.

Faculty members receive tenure

At the May 5 meeting of the Board of Trustees, the following faculty were appointed with tenure, promoted with tenure or granted tenure on the Hilltop and Medical campuses, effective July 1.

Hilltop Campus

Appointment with tenure

Stuart I. Greenbaum as professor of finance.

Promotion with tenure

Siddhartha Chib to professor of econometrics, and Roger D. Chamberlain to associate professor of electrical engineering.

Medical Campus

Promotion with tenure

Brent T. Allen to associate professor of surgery (general surgery); Roberto Civitelli to associate professor of medicine; Enrico Di Cera to associate professor of biochemistry and molecular biophysics; James W. Fleshman Jr. to associate professor of surgery (general surgery); Daniel E. Goldberg to associate professor of medicine; Daniel P. Kelly to associate professor of medicine; William C. Parks to associate professor of medicine (dermatology); Thomas H. Steinberg to associate professor of medicine; Paul E. Swanson to associate professor of pathology; and Mary M. Zutter to associate professor of pathology.

Granting of tenure

Daniel F. Sahn as associate professor of pathology.

Two biology seniors win Spector Prize

Two graduating seniors in biology have been named recipients of the Marian Smith Spector Prize in Biology for 1995.

The winners are Michael S. Chua and Paul A. Scheet. Their work was judged the best among research done by 18 honors biology graduates. The students were honored at the Department of Biology honors symposium on May 17 in the Life Sciences Building.

"These undergraduates have produced research worthy of seasoned, well-regarded professionals," said Danny H. Kohl, Ph.D., professor of biology and chair of the Spector Prize committee. "The entire University can be proud of their achievements."

The Spector Prize, which began in 1974, is an annual award for academic excellence and outstanding undergraduate achievement. It was established in memory of Marian Spector, a 1938 graduate of the University who studied zoology under Viktor Hamburger, Ph.D., now Edward Mallinckrodt Distinguished Professor Emeritus of biology. Spector participated in Hamburger's highly acclaimed research in embryology.

Chua won the prize for his work characterizing messenger ribonucleic acid proteins in the laboratory of Clay F. Semenkovich, M.D., assistant professor of medicine. Chua developed a test to identify two proteins that bind to a portion of a complex enzyme called human fatty acid synthase, which is key to the production of fatty acids. He showed that the proteins are expressed in the cytoplasm of the cell — the portion of the cell outside the nucleus — and can be regulated by glucose. He also characterized the size of the proteins with an ultraviolet probe. Chua will be the first author of a forthcoming technical paper, with his mentor Semenkovich as the other author.

Scheet worked with Douglas D. Robertson Jr., M.D., Ph.D., assistant professor of radiology in the School of Medicine's Mallinckrodt Institute of Radiology. He merged image processing and computer-aided design techniques to begin an electronic database of more than 30 femurs, or thigh bones, which will be used as a noninvasive way of evaluation and eventual design of prosthetic femurs. The aim of his work is to reconstruct the articulation of the ball-and-socket hip joint in a healthy hip bone for total hip replacement surgery. This surgical procedure is designed to eliminate pain from arthritic or severely damaged hips, and provide a mechanical replacement hip that patients can use throughout their lives.

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

Of note

John C. Cole and **Jacob P. Schwarz**, biology majors graduating with honors May 19, are the recipients of the Harrison Dailey Stalker Award in Biology, which is given annually to graduating seniors distinguished for both academic excellence in science and breadth of interests. The award is named after the late Harrison D. Stalker, Ph.D., who was a professor of biology at Washington University for 40 years. In the fall, Schwarz will attend the Johns Hopkins University School of Medicine, while Cole will begin studies in the Washington University M.D./Ph.D. program. ...

Alyse C. Dampf, a senior and president of the Human Resources Management Association of Greater St. Louis' student chapter at Washington University, received the Student Chapter of the Year Award on behalf of her organization. Dampf and **Raymond L. Hilgert**, D.B.A., professor of management and industrial relations and the chapter's faculty adviser, received the award and plaque during the association's April meeting. ...

Nicholas J. Nissing, a junior chemical engineering student, won the Midwest Regional Student Paper Contest held at the University of Missouri-Rolla. He presented a talk on the application of signal analysis to localized corrosion. The talk was based on work he performed in the summer of 1994 with chemical engineering graduate student **Xue-Dong Dai**, **Babu Joseph**,

Ph.D., professor of chemical engineering, and **Rodolphe L. Motard**, D.Sc., professor of chemical engineering. **Polly J. Shrewsbury**, a senior in chemical engineering, also presented a paper on "The Influence of a Sizing Agent on the Strength of Carbon Fiber/Epoxy Composites" at the meeting. **John L. Kardos**, Ph.D., Francis F. Ahmann Professor and chair of chemical engineering, served as her adviser.

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.

Winners of Fulbright, DAAD Scholarships announced

Ten students and an alumna have been awarded Fulbright Scholarships to study abroad during the 1995-96 academic year, Michele Shoresman, Ph.D., associate director of the Office of International Studies, has announced. In addition, a senior has received a scholarship from the German Academic Exchange Service (DAAD).

Fulbright Scholarships pay travel expenses and a stipend to approximately 1,800 college students and faculty each year, allowing them to spend an academic year studying or conducting research in another country. DAAD provides a stipend, round-trip air travel to Germany, tuition and a fee waiver at a host German university, along with a small additional allowance for books and possible language study at a Goethe Institute.

Six graduating seniors and four graduate students have won the Fulbright Scholarships. The seniors, along with their field and location of study, are: Benjamin B. Gum, mathematics, Hungary; Sheba J. Holsey, Mandarin, Taiwan; Lucinda D.

Lessley, teaching assistant in English, Germany; Ananda Martin, politics, Japan; Andrew Stone, history, Germany; and Katherine S. Kraig, teaching assistant in English, France. Senior Melissa M. Parrish was named a Fulbright alternate to Japan to study volunteerism.

The graduate students, all doctoral candidates, and their field and study locations are: Thomas A. Bonasera, chemistry, Sweden; Karen A. Kroeger, how AIDS information is distributed to women, Indonesia; Claudia L. Olejniczak, the behavior of the Western lowland gorilla in the Congo; and Alan J. Pascuzzi, Michelangelo's art works, Italy.

Alumna Doris M. Schoenhoff, who received a doctorate in computer science and engineering from Washington University in 1992, has been awarded a Fulbright to South Africa, where she will work at the University of Natal in Duran. She will teach a course on "Expert Systems for Development" and help the Center for Indigenous Plant Use Research create a system that will encode information about

indigenous plants, many of which are in danger of extinction.

Senior Erica R. Davis will study art history in Germany through the DAAD scholarship.

Besides the Fulbright and DAAD scholarships, Shoresman announced that two students have been awarded National Security Education Program Fellowships. The program is designed to help support outstanding students who demonstrate high levels of academic performance and strong motivation to develop expertise in non-Western languages and area studies.

Megan M. Ferry, a doctoral candidate in comparative literature, has been awarded \$13,200 to conduct dissertation research in the People's Republic of China next year. Her grant includes funding for airfare and living expenses. Indira J. Falk, a doctoral candidate in history, has been awarded \$21,200 over two years to support her studies both abroad and at Washington University. She will be studying advanced Arabic in Egypt next year.

Outstanding programs cited during awards reception

During the recent sixth annual Leadership Awards Dessert Reception, students, as well as student-run programs and organizations, were cited for contributions to the Washington University community. The reception, which was sponsored by the Office of Student Activities, was held in McMillan Cafeteria.

The awards presented during the reception were Outstanding Program, Dignity of Difference, Leadership Challenge and the Victor H. Farwell Award. With the exception of the Farwell award, members of the Division of Student Affairs and faculty select the winners. The Victor H. Farwell Award Committee chooses that recipient.

The Outstanding Program Award recognizes excellence in the planning and presentation of ongoing, theme, and single-event programs by student groups. "Into the Streets" received the award in the single event category. The program introduces students to volunteerism in the St. Louis community by working with local social service agencies.

Both the Jewish Student Council and the Catholic Student Center won the award in the ongoing events designation for the "STONE Soup" project. The STONE in the title stands for Students Together Offering Nourishment and Enthusiasm. Each Sunday, since last November, students have cooked and delivered meals, as well as clothing and hygiene items, to the homeless in St. Louis City. The Reflections for Peer Education group received an honorable mention in the same category. Reflections works to educate the campus about the emotional and societal aspects of eating disorders, body image and self-esteem.

The Jewish Student Council also won an Outstanding Program Award in the theme category for Israel Week, which was held on campus Nov. 7-13. The council's Israel Committee Project Team planned the

activities. Honorable mentions went to the Committee Organized for Rape Education for organizing Sexual Assault Awareness Week Nov. 14-18, and to Student Union's Sex Week Committee for planning Sex Week, which was held Feb. 20-24.

The Dignity of Difference Award recognizes organizations that, through their programs, have enhanced the campus climate in terms of race, gender, religion, culture, sexual orientation, disabilities and wellness. The Jewish Student Council received the award.

Both the council and the Congress of the South 40 received the Leadership Challenge Award, which honors exemplary leadership, service and commitment by a student organization to the University community.

Honor students to be recognized at convocation

More than 500 seniors will receive awards during the 40th annual Eliot Honors Convocation to be held Thursday, May 18, in the Field House.

The convocation honors students whose achievements in scholarship and service to Washington University have been recognized by honor organizations and by the academic divisions of the University. The ceremony is dedicated to the memory of the Rev. William Greenleaf Eliot, who inspired the founding of Washington University and was chancellor for many years. Ursula W. Goodenough, Ph.D., professor of biology, will speak on "An Elite University in Populist Times."

Recipients of the Ethan A. H. Shepley, W. Alfred Hayes and A. Gwendolyn Drew awards will receive framed certificates at the ceremony.

The Ethan A. H. Shepley Award is presented in recognition of leadership, scholarship and service to the campus

community. The recipients are Delvin A. Burton, Deborah E. Busler, Brian G. Carlson, Danielle A. Dahlby, Jamie L. Gray, Aimee D. Israel, Lisa M. Jericho, Sayar Lonial, Antone M. Meaux, Howard E. Olson, Melissa B. Parsons, Michael G. Rodman, Brad A. Rubin, Adam L. Stanley and Helen H. Wei.

The W. Alfred Hayes Award is presented in honor of student-athletes who, by personal example, have provided constructive leadership at Washington University. The recipients are Amy N. Albers, Daam T. Barker, Matthew A. Gomric, Robert T. Hannum, Genevieve B. Melton, Kevin M. Neebes and Anne M. Quenette.

The A. Gwendolyn Drew Award is presented in honor of students with superior academic standing who have contributed positively to varsity athletics. The recipients are Antone M. Meaux and Genevieve B. Melton.

Medical Update

Samuel Wells elected president of American Surgical Association

Samuel A. Wells Jr., M.D., Bixby Professor of Surgery and head of the Department of Surgery, has been elected president of the American Surgical Association.

The only other Washington University surgeons to serve as president of the association were Evarts A. Graham, M.D., former head of the Department of Surgery, and Eugene M. Bricker, M.D., professor emeritus of the Division of General Surgery. The American Surgical Association, founded in 1878, is the oldest surgical society in the nation. The scientific and honorary organization, with 1,000 members, recognizes leadership in surgery in the United States.

Wells was elected to the post by a vote of the organization's members during the association's 115th annual meeting, held recently in Chicago. He will serve as the association's president and chief executive officer for one year and also will preside over next year's annual meeting.

Wells is known for his research and

clinical expertise in oncology and endocrinology. He has been particularly interested in cancer genetics, and last year he and his collaborators at the School of Medicine developed a genetic test that accurately identifies individuals who have inherited a certain type of thyroid cancer. Surgery to remove the thyroid gland in affected family members prevents the development of thyroid cancer.

In 1981, Wells was named head of the School of Medicine's Department of Surgery. He came to Washington University from Duke University School of Medicine, where he was a professor of surgery and director of the school's clinical research unit.

Wells has been a member of the American Surgical Association since 1976. He also is a fellow of the American College of Surgeons and serves as vice-chairman of its board of regents. He is editor-in-chief of the Journal of the American College of Surgeons.

Occupational Health Program protects employees who conduct animal research

Employees who conduct animal research at the School of Medicine have the potential to be exposed to a wide range of diseases. To protect employees, the medical school has an extensive Occupational Health Program.

As part of the Occupational Health Program, employees are offered vaccines to safeguard them from diseases ranging from tuberculosis to rabies to measles. Employee Health Service also keeps a health history on all employees who work with animals to establish a baseline of information in case an employee is exposed.

Employees learn about the Occupational Health Program in orientation and from the primary investigator of the lab in which they are working, said Marilyn Miller, clinical nurse specialist in Employee Health. During orientation, employees are tested for tuberculosis and urged to call Employee Health to set up an appointment for vaccinations and screenings.

Employees working with different animals need varying vaccines, Miller said. Employees who conduct research on mice and rats need a tetanus/diphtheria vaccine and a tuberculin skin test.

If employees come in contact with sheep, chickens or pigs, they should receive a tetanus/diphtheria vaccine, a tuberculin skin test, and have a serum sample taken. Annual serum samples are frozen to enable Employee Health to

determine if infection has occurred after exposure.

A rabies vaccine, a tetanus/diphtheria vaccine and a tuberculin skin test are in order for employees who conduct research on animals that could carry rabies. Some of these animals are cats, bats and dogs. During their childbearing years, females who work with cats are tested for toxoplasmosis, which could harm a developing fetus.

Employees working with monkeys should receive vaccines for tetanus/diphtheria and measles and have a tuberculin skin test. Animal care providers receive vaccines for all of the diseases mentioned above.

Miller said Employee Health follows up on any animal-related injuries, such as bites or scratches, that happen on the job.

Animals also are vaccinated against various diseases, to protect them and employees. "I think the veterinarians here do a wonderful job of making sure the animals are protected and the people are protected from animals," she said. "It's a two-way street."

For more information or to arrange for vaccinations or screenings, employees should call 362-3528.

"I think it's important to stress that the program is free and available to employees working with animals. It's a benefit for employees," Miller said. "All it requires is one call."

Burr named billing operation executive director

Bob Burr has been named executive director of Washington University Shared Billing and Collection Services (WUSBCS). Lee Fetter, associate vice chancellor and associate dean for administration and finance, announced the appointment and said Burr would begin June 1.

"We conducted a national search for this position because our faculty practice program is one of the largest in the country," said Fetter. "In Bob we found a skilled manager whose experience with a large and sophisticated physician group provides the seasoned leadership we need to launch our organization."

WUSBCS, a joint billing and collection operation created to better serve the clinical departments and patients of the School of Medicine, was implemented in November 1994. In his new position, Burr will plan, organize and direct billing and collection activities, reimbursement analysis, department relations and system maintenance. As a member of the WUSBCS management team, Burr will be responsible for overseeing cash flow from clinical

services and for the functioning of business operations within WUSBCS.

Joan Podleski, WUSBCS management committee chairperson, said the committee will provide day-to-day oversight and coordination for the executive director. "We are very pleased with the selection of Bob Burr," she said. "The addition of Bob as leader of the WUSBCS management teams puts us in a position to move confidently forward with this new operation and to respond well to challenges in the future."

Since 1990, Burr has been director of financial services at the Carle Clinic Association in Urbana, Ill. While there, he was responsible for all financial services for the 250-physician multispecialty group practice, including \$210 million in annual charges. He also held positions at the Springfield Clinic in Springfield, Ill., the Carle Foundation in Urbana, Ill., and Paxton Community Hospital in Paxton, Ill.

Burr graduated from the University of Illinois in Urbana in 1972. He holds a bachelor's degree in finance.



At a reception following the dedication ceremony of The Bernard Becker Medical Library at 660 S. Euclid Ave., Bernard Becker, M.D., professor and emeritus head of the Department of Ophthalmology and Visual Sciences, visits with his granddaughter, Amariah Becker, and his son, Robert Becker. Bernard Becker chaired the committee that oversaw the library's construction and design.

Medical library dedicated in honor of ophthalmologist Bernard Becker

Washington University School of Medicine recently renamed its medical library. The Bernard Becker Medical Library was dedicated in honor of Bernard Becker, M.D., professor and emeritus head of the Department of Ophthalmology and Visual Sciences.

The eight-level, 113,000 square-foot Bernard Becker Medical Library was completed in 1989. It supports research, teaching and patient care at Washington University Medical Center. The facility contains 6,600 linear feet of book stacks that can shelve more than 400,000 volumes. The \$14 million facility is located at the intersection of Euclid Avenue and Barnes Hospital Plaza.

Becker was acutely aware of the need for a new library. He chaired the University committee that oversaw the building's design and construction.

"We were one of the country's top medical schools with the most modern facilities, but the old library could not match that reputation," Becker recalled. "The new library has become one of the jewels of the medical center complex, and I am proud to have my name identified with it."

"I can't imagine a more appropriate way to honor the outstanding contribution of Bernie Becker to medicine and science. He was the major force behind the construction of this wonderful facility," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

Becker is a graduate of Princeton University and Harvard Medical School. He trained in ophthalmology at the Wilmer Institute of Johns Hopkins Hospital. Upon completing his residency in 1953, Becker was recruited as professor and head of the ophthalmology department at Washington University. He served as department head through 1988.

Becker is a recipient of numerous academic awards and the author of many scientific publications. He also is a collector of books.

The Becker Collection of rare books on ophthalmology and the visual sciences is a major component of the library's internationally recognized rare book collection. The catalog for the Becker Collection is cited by scholars and rare book librarians around the world.

Researcher Lily Yeh Jan to deliver Lowry lecture

Lily Yeh Jan, Ph.D., professor of physiology and biochemistry, will deliver the 18th Oliver H. Lowry Lecture at 4 p.m. Thursday, May 25, at the School of Medicine. Jan is on the faculty at the University of California in San Francisco and an investigator of the Howard Hughes Medical Institute.

The lecture, titled "Potassium Channels," will take place in the Carl V. Moore Auditorium at 4580 Scott Ave.

Jan studies nerve membrane conduction. She has used frogs and flies as model systems in a search for the molecules and mechanisms involved in transmitting information between neurons. In particular, her interest has been in potassium channels, transmembrane protein complexes that regulate membrane potential during neuron-to-neuron conduction.

Jan received a master's degree in physics in 1970 and a Ph.D. in biophysics

and physics in 1974, both from the California Institute of Technology.

In addition to publishing 95 scientific articles, Jan has been awarded the W. Alden Spencer Award and the Javits Neuroscience Investigator Award. She also gave the Mildred Trotter Lectureship at Washington University in 1989.

The Lowry lecture is sponsored by the Department of Molecular Biology and Pharmacology to honor Oliver H. Lowry, M.D., Ph.D., distinguished professor emeritus and lecturer. Lowry served as head of the department from 1947-1976 and as dean of the School of Medicine from 1955-58. He also served as acting head of the department from 1989-1990. Lowry was internationally known for his development of powerful tools used to analyze enzyme activities and their substrates in individual cells.

For more information about the lecture, call 362-7053.

Calendar

May 18–June 3



Exhibitions

"Centennial of the First Ph.D. From Washington University." 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.

"Bachelor of Fine Arts." School of Art undergraduate thesis show. Through May 21. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

"The Keenest of Senses: Celebrating the Becker Rare Book Collection in Ophthalmology." Printed treasures in ophthalmology and the visual sciences from four centuries. Through Dec. 22. Glaser Gallery, The Bernard Becker Medical Library, 660 S. Euclid Ave. Hours: 9 a.m.-9 p.m. weekdays; 1-5 p.m. weekends. 362-4239.



Lectures

Thursday, May 18

11:15 a.m. Social work lecture. "Critique of Proposal: SSI Participation Among Children With Mental Illness," Martha N. Ozawa, Bettie Bofinger Brown Professor of Social Policy. Room 307 Brown Hall. 935-5741.

Friday, May 19

Noon. Cell biology and physiology seminar. "Newly Identified Pathways Leading Into and Emanating From RAS Proteins," Larry Feig, assoc. prof., Dept. of Biochemistry, Tufts U. School of Medicine, Medford, Mass. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

2 p.m. Molecular cell biology thesis defense. "Regulated Disassembly and Assembly of the Mammalian Vacuolar H(+)-ATPase," David Underhill, graduate student in molecular cell biology. Room 426 McDonnell Medical Sciences Bldg. 362-3365.

4 p.m. Hematology seminar. "Chimeric Transcriptional Control Genes in Acute Leukemia," Tom Look, Dept. of Experimental Oncology, St. Jude Children's Research Hospital, Memphis, Tenn. Room 8841 Clinical Sciences Research Bldg. 362-8834.

7:30 p.m. Astronomical Society meeting. "How Far to the Distant Stars?" Larry Stacey, prof. of physics, St. Louis U. Room 162 McDonnell Hall. 935-4614.

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.

Monday, May 22

10:30 a.m.-noon. Social work lecture. "Comparisons of Mental Health Services in the United States and New Zealand," Elizabeth Wells, senior research fellow, Biostatistics Unit, Dept. of Public Health and General Practice, Christchurch School of Medicine, New Zealand. Room 307 Brown Hall. 935-5741.

Noon. Molecular biology and pharmacology lecture. "Transcriptional Auto Regulation of a Cardiac-enriched Retinoid X Receptor Gene," Philip M. Barger, fellow in cardiology, Dept. of Internal Medicine. Room 3907 South Bldg.

Noon. Neurology seminar. "Genetic Manipulation and Therapy of the Central Nervous System Using Viral Vectors," Michael Kaplitt, postdoctoral fellow, Laboratory of Neurobiology and Behavior, Rockefeller U., New York. Schwarz Aud., First Floor Maternity Bldg.

1 p.m. Neurosciences thesis defense. "Calcium and Voltage-dependent Potassium Channels: Inactivation and the Separability of Calcium and Voltage Dependence," Chris Solaro, graduate student. Room 521 The Bernard Becker Medical Library, 660 S. Euclid Ave.

Tuesday, May 23

10 a.m. Immunology/rheumatology seminar. "Disruption of the IgE Gene: Effects of Hypersensitivity and Isotype Switching," Hans Oettgen, asst. prof. of medicine, Harvard Medical School. Third Floor Aud., St. Louis Children's Hospital.

4 p.m. Computational neuroscience seminar. "Stochastic Process Models for Pre- and Post-synaptic Transduction in the Auditory Nerve," Michael Miller, Newton R. and Sarah G. Wilson Professor of Biomedical Engineering and prof. of electrical engineering. Room 241 Compton Hall. 935-6195.

4 p.m. Neurodegeneration and cell death discussion. "Confocal Imaging of Mitochondria From Patients With Encephalomyopathies," Shawn Handran, graduate student, Dept. of Neurology. Room 228 Biotechnology Bldg.

Wednesday, May 24

6:30 a.m. Anesthesiology Grand Rounds. "Acute Management of the Pregnant Woman With Diabetes," William Holcomb, asst. prof., Maternal Fetal Medicine, Division of Obstetrics and Gynecology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-4449.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Case Conference," Luis Mertins, chief resident, Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place. 362-3122.

12:30 p.m. Neuroscience luncheon seminar. "Neutrophil-endothelium Adherence in Post-asphyxial Reperfusion," Tae Sung Park, prof., depts. of Pediatrics and Neurology and Neurological Surgery. Room 928 McDonnell Medical Sciences Bldg.

6-8:45 p.m. Ophthalmology and visual sciences dinner/lecture. Program titles: "Exodeviations," "Incomitant Childhood-onset Strabismus," and "A and V Patterns," K. Arnoldi, asst. prof., Dept. of Surgery. Seventh Floor Conference Room, McMillan Hospital, 660 S. Euclid. 362-3740.

Thursday, May 25

4 p.m. Student-organized seminar. "Sexual Selection: Historical and Sensory Influences," Michael Ryan, prof., Dept. of Zoology, U. of Texas, Austin. Room 322 Rebstock Hall. 935-6706.

4 p.m. Molecular biology and pharmacology seminar. Eighteenth Oliver H. Lowry Lecture. "Potassium Channels," Lily Yeh Jan, investigator, Howard Hughes Medical Institute, and prof. of physiology and biochemistry, U. of California, San Francisco. Moore Aud., 4580 Scott Ave.

Friday, May 26

11 a.m. Neurosciences thesis defense. "Molecular Mechanisms Underlying Neuronal Death by Trophic Factor Deprivation," Thomas Deckwerth, graduate student, Dept. of Neuroscience. Room 3907 South Bldg.

4 p.m. Anatomy and neurobiology seminar. "Cellular Communication in the Developing Retina," Rachel Wong, asst. prof., Dept. of Anatomy and Neurobiology. Room 928 McDonnell Medical Sciences Bldg.

Wednesday, May 31

6:30 a.m. Anesthesiology Grand Rounds. "Practice Policies," Paul Picetti, chief resident, Dept. of Anesthesiology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-4449.

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



Music

Sunday, May 28

3:30 p.m. Brass band concert and clinic. Featuring Sweden's Gothenburg Brass Band, the World Brass Band champions in 1989. Sponsored by the Dept. of Music, Regional Commerce and Growth Association, World Affairs Council and a consortium of music dealers. Saint Louis Symphony Community Music School, 560 Trinity Ave., University City. Cost: \$7.50 for the general public; and \$5 for senior citizens and WU students. 935-5581 or 863-3033.



Miscellany

Thursday, May 18

Undergraduate Reunion weekend. Reunion schools/classes invited: BU, LA, FA, AR, EN (1930, '35, '40, '45, '50, '55, '60, '65, '70, '75, '80, '85 and '90); UC (1930, '35, '40, '45, '50, '55 and '60). Thursday's activities include a faculty lecture, campus tour and "50th Reunion Comeback Cocktails" at 6:30 p.m.; Friday's activities include a "50th Reunion Class March" in Commencement, school cocktail parties, faculty lectures, campus tours, a "Late Night Ride" to Ted Drewes and individual class parties from 7-11 p.m.; Saturday's activities include a reunion run/walk, Athletic Complex open house, estate planning presentation, faculty and class lectures, a chancellor's luncheon for emeritus alumni (1945 and earlier graduates); and the chancellor's farewell reunion gala dinner dance from 7-11 p.m. 935-5212.

Monday, May 22

8:05 a.m.-4:15 p.m. Molecular oncology/neurology seminar on pharmaceutical research. Cori Aud., 4565 McKinley Ave. For topics, speakers and times, call 362-9035.

7-10 p.m. Office of Continuing Medical Education seminar. Internal Medicine Review. The topic is endocrinology. Steinberg Amphitheatre, Jewish Hospital. For credit info., call 362-6893.

Wednesday, May 24

6-9:15 p.m. AIDS training seminar. "Psychological Healing: Holistic Approach to the Mental Health Needs of People Living With HIV." Sponsored by Blacks Assisting Blacks Against AIDS, the School of Medicine's AIDS Clinical Trials Unit, Midwest AIDS Training and Education Center and Saint Louis Effort for AIDS. Moore Aud., 4580 Scott Ave. Registration by May 23 required. 362-2418.



Special Events

For more information about the following Commencement Week events or costs, call the Commencement Hotline at 935-4355.

Thursday, May 18

11 a.m. Eliot Honors convocation for honor students, families and friends. Field House, Athletic Complex.

2 p.m. School of Engineering and Applied Science recognition ceremony for undergraduates. Field House, Athletic Complex; reception immediately following in Lopata Hall Gallery.

4:30 p.m. College of Arts and Sciences recognition ceremony. Brookings Quadrangle. (Rain location: Field House, Athletic Complex.)

8 p.m. School of Art recognition ceremony. Front lawn, Bixby Hall. (Rain location: Graham Chapel.)

9 p.m. Commencement reception at the Ritz. Enjoy dancing and dessert for students, faculty, administrators, families and friends. The Ritz-Carlton Hotel, 100 Carondelet Plaza, Clayton. Shuttles depart from Brookings Hall.

Friday, May 19

8 a.m. Degree candidates assemble.

8:30 a.m. Commencement exercises. Brookings Quadrangle. (Rain schedule: 10 a.m.)

Immediately following Commencement, the deans of the various schools will hold receptions where diplomas will be distributed individually.

College of Arts and Sciences. Diploma distribution and reception on the north side of Graham Chapel. (Rain location: west side of Olin Library.)

University College. Diploma distribution and reception in Women's Bldg. Lounge.

Graduate School of Arts and Sciences. Hooding and recognition ceremony in Edison Theatre; reception immediately following in the Gallery and Gargoyle, lower level Mallinckrodt Center.

School of Engineering and Applied Science. Diploma distribution and reception in Lopata Gallery and Lopata Plaza between Jolley and Cupples II halls.

School of Architecture. Diploma ceremony on the front lawn of Givens Hall. (Rain location: Steinberg Hall Aud.) Reception immediately following in Givens Hall.

School of Art. Diploma distribution and reception on Steinberg Hall terrace. (Rain location: Gallery of Art, Steinberg Hall.)

John M. Olin School of Business. Diploma ceremony in the Field House, Athletic Complex; reception immediately following in Simon Hall.

George Warren Brown School of Social Work. Diploma ceremony in Graham Chapel; reception immediately following on the east lawn of Brown Hall. (Rain location: Brown Hall Lounge.)

Program in Occupational Therapy. Luncheon reception in Holmes Lounge, Ridgley Hall; diploma ceremony immediately following in Graham Chapel.

The following ceremonies begin at noon:

School of Law. Diploma ceremony in Brookings Quadrangle; reception immediately following in Mudd Law Bldg. (Rain schedule: diploma ceremony at 3 p.m. in the Field House, Athletic Complex; reception immediately following in Mudd Law Bldg.)

Health Administration Program. Diploma ceremony in Moore Aud.; reception immediately following in M. Kenton King Faculty Center, The Bernard Becker Medical Library, 660 S. Euclid Ave.

School of Medicine. Luncheon in the Promenade Ballroom, Adam's Mark Hotel, Fourth and Chestnut streets; senior program immediately following in the St. Louis Ballroom, Adam's Mark Hotel.

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.

Millbrook Coordinator 950217. *Residential Life.* Requirements: bachelor's degree, master's degree and residence hall and/or facilities management experience preferred. Duties: manage maintenance, housekeeping and mailroom services for the apartment complex; help develop activities that foster a sense of community in the complex; some responsibility for room assignments, policy enforcement and crisis intervention. This is a 10-month, live-in position supervising a four-building complex housing 285 students. Résumé required.

Administrative Assistant 950248. *Center for the Study of American Business.* Requirements: bachelor's degree or equivalent experience; typing 45 wpm with accuracy; good grammatical skills; ability to write clearly and concisely; excellent word processing/computer skills with an emphasis on Microsoft Word, Quattro Pro, Q & A, and Pagemaker; graphic art skills for publication layout and paste-up of news articles. Résumé required.

Public Service Assistant 950249. *University Registrar.* Requirements: some college, bachelor's degree preferred; ability to work well with people in public service environment; ability to work in complex network of computer systems. Résumé required.

Research Assistant 950250. *Department of Psychology.* Requirements: bachelor's degree; at least one year of experience conducting speech and hearing tests; knowledge of word processing and statistical software. Résumé required.

Administrative Assistant 950251. *Law Library.* Requirements: high school graduate, bachelor's degree preferred; typing 60 wpm with accuracy; good telephone manner; ability to deal courteously with many types of people; ability to learn quickly; supervisory skills; administrative office management; shorthand or speed writing skills preferred; editing skills helpful. Résumé required.

Technical Director 950252. *Theatre and Theatre Arts.* Requirements: bachelor's degree, advanced technical theatre degree preferred; experience with professional touring shows; strong lighting and sound design skills imperative; rigging and welding experience preferred as well as knowledge of repair of electronic equipment; strong communication, motivational, management and interpersonal skills. Résumé required.

Support Center Specialist 950253. *Accounting Services.* Requirements: some college; one year of

basic scientific and manual skills education as is offered in technical institutes or junior colleges, or an equivalent amount of on-the-job training; working knowledge of personal computers, set-up, maintenance and support; excellent work attendance record; capacity for light lifting and other manual work; experience operating and maintaining office equipment, including microfilm cameras, processors and mail machines; ability to work independently with a high degree of self-motivation; strong service orientation; willingness to participate as a team member on various projects to achieve goals of Accounting Services. Résumé required.

Research Technician 950254. *Department of Biology.* Requirements: bachelor's degree in biological sciences; ability to conduct research at the bench; ability to keep notes and maintain lab records. Résumé required.

Receptionist 950255. *Alumni and Development Programs.* Requirements: high school graduate; one to two years secretarial/receptionist experience or training; typing 40 wpm with accuracy; good command of English; efficiency; alertness; good grooming; pleasant, calm, polite manner. Résumé required.

Assistant Director of Admissions 950259. *School of Law.* Requirements: bachelor's degree and public relations/marketing experience preferred, graduate or law degree preferred; demonstrated interpersonal and writing skills; ability to

deal with a diverse student population; experience in the preparation and analysis of statistical reports preferred; demonstrated ability to work simultaneously with multiple projects; willingness to travel, including weekends; availability on evenings and weekends. Résumé required.

Slide Curator 950260. *Art History and Archaeology.* Requirements: master's degree in art history or library science; good broad knowledge of art history; expertise necessary to classify slides; some familiarity with foreign languages helpful. Résumé 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.

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

Phlebotomist 950828-R. *Lipid Research.* Requirements: high school graduate or equivalent with six months phlebotomy experience; experience working with children preferred.

Social Worker MSW 950837-R. *Barnard Cancer Center.* Requirements: master's degree in social work with two years experience in oncology; LCSW or eligibility for license; knowledge of oncology/hematology diseases, treatments and psychosocial implications across cancer continuum.

Research Associate 950864-R. *Veterans Administration Medical Center.* Requirements: bachelor's degree in psychology or related discipline, master's degree preferred; experience with administering and scoring standardized neuropsychological tests and standardized interview tests.

Dialysis Tech II 950867-R. *Kidney Center.* Schedule: full time, 12-1/2 hours per day, three days per week, including alternate Saturdays. Requirements: high school graduate or equivalent; experience as a medical assistant or nurse aide preferred; phlebotomy experience helpful. Duties include assisting nursing staff in setting

up and operating artificial kidney machine.

Programmer Analyst I 950870-R. *Washington University Shared Billing Collection Service.* Requirements: bachelor's degree with two years application support, including programming experience; knowledge of physician billing system, preferably M, C, RDB or SYBASE application.

Operations Manager 950882-R. *Plant Maintenance.* Requirements: associate's degree, bachelor's degree with purchasing experience preferred; familiarity with contract negotiations; accounting background.

Secretary II 950892-R. *Internal Medicine.* Schedule: part time, 20 hours per week, flexible hours. Requirements: high school graduate or equivalent with two years secretarial experience, some college preferred; knowledge of word processing, spreadsheet, DBase and medical terminology; typing 60 wpm.

Security Officer 950894-R. *Security.* Schedule: evening and mid-shift rotation. Requirements: high school graduate or equivalent, associate's degree preferred; two years experience as a security officer in a large institution or with military police.

Pharmacy Tech 950925-R. *Barnard Cancer Center.* Requirements: two years college pharmacy training or two years pharmacy experience; experience with chemical preparation. Pharmacy tech will fill in for full-time employee absences.

National Councils play key role in Project 21 planning effort — from page 1

has a National Council, except the John M. Olin School of Business, which will be forming its National Council shortly. The National Councils, which are playing a key role in Project 21, are chaired by members of the Board of Trustees.

Gathering information

The planning effort started with and will build upon the University's academic units. Since May of 1993, deans from the schools of Architecture, Art, Engineering and Applied Science, Law, Medicine, and Social Work, Arts and Sciences, University Libraries and the Office of Student Affairs have been scrutinizing their current operations to identify strengths and weaknesses and develop plans for the future. Deans and faculty, for example, looked at areas such as student enrollment, faculty strength, admission trends, curricula, research support, technology, facilities and resources. They evaluated their schools' ability to recruit and retain students and faculty, place graduates, and compete for research funding, among other areas. And they addressed ways to increase their schools' service to society.

In the past year, representatives from each school, as well as University Libraries and Student Affairs, have presented their findings to their respective National Council. The nine National Councils have an average of 25 members each and are

composed of alumni and top national and local academic and corporate leaders. The National Councils, in turn, have been evaluating the external opportunities and challenges facing each school.

"As we think about the future of University Libraries, our National Council has been especially helpful. Council members, who are from a wide variety of professions, ask excellent questions and make us think in layman's terms," said Shirley Baker, dean of University Libraries. "One thing struck us: the cost of the collection is rising much faster than the cost of staff. Because of technology, we can do a lot more with fewer staff. And the cost of technology is not rising as dramatically as we thought. It's been very useful for us to look at these issues as we think about where we are going."

During the next step, the National Councils and schools collaborated to prepare written reports and oral presentations for the University's Board of Trustees. Since December, the schools of Art, Engineering and Applied Science, and Law, as well as University Libraries, have presented their Project 21 reports to the board. In May, the schools of Architecture, Medicine and Social Work made their presentations. By the end of October, the rest of the schools should have prepared and presented their reports.

"What I am most proud of is how the

school's department chairs, program directors and administrators really approached this as a team," said Christopher I. Byrnes, Ph.D., dean of the School of Engineering and Applied Science. In the course of preparing the school's Project 21 report, executive and administrative committees held several daylong retreats and special meetings with its National Council. The school's March 3 presentation to the Board of Trustees included a high-tech computer presentation, complete with audio and video components, and a full-color publication. "We have never done this kind of intense planning effort before and we learned a lot in the process. Project 21 has been a good opportunity for self-analysis and to plan and build on the strengths we have been developing," Byrnes said.

Setting priorities

After absorbing the new information, Project 21 teams from individual schools are identifying key areas to address into the 21st century. In its mission to be one of the premier university affiliated professional art schools in the country, the School of Art, for example, has as its goals to attract and retain outstanding and diverse students and faculty; to develop new learning approaches by enhancing new technologies and improving interdisciplinary study and international opportunities; to consolidate the school's physical facilities and bring them and equipment up to professional standards; and to achieve financial stability.

As part of its broad goal to provide international leadership in several key areas of engineering, the School of Engineering and Applied Science proposes to direct resources to the areas of biomedical engineering, computers and communication, engineering education, environmental engineering and materials science, as well as enhancing its traditional departments.

A board steering committee, chaired by Trustee John F. McDonnell, will review these reports and priorities and identify themes that are common to the entire University. Already, some common themes are emerging, including the critical importance of teaching and learning, the necessity of interdisciplinary teaching and research and other collaborative

efforts on campus, the essential role of computers and communications in the educational process, and the importance of continued University involvement with the St. Louis community, its community of alumni, parents and friends, and the world at large.

The steering committee is scheduled to present a final University-wide Project 21 report to the entire Board of Trustees in May 1996. At this point the Board of Trustees, with Chancellor-designate Mark Wrighton, Ph.D., will be prepared to set the University's course as it enters the 21st century.

— Susannah Webb

Record

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

The mission of Washington University is the promotion of learning — learning by students and by faculty. Teaching, the transmission of knowledge, is central to our mission, as is research, the creation of new knowledge. Faculty composed of scholars, scientists, artists and members of the learned professions serve society by teaching; by adding to the store of human art, understanding and wisdom; and by providing direct services, such as healthcare.

Our goals are:

- to foster excellence in our teaching, research, scholarship and service;
- to prepare students with the attitudes, skills and habits of lifelong learning and with leadership skills, enabling them to be useful members of a global society; and
- to be an exemplary institution in our home community, St. Louis, as well as in the nation and the world.

To this end we intend:

- to judge ourselves by the most demanding standards;
- to attract people of great ability from all types of backgrounds;
- to encourage faculty and students to be bold, independent and creative thinkers; and
- to provide the infrastructure to support teaching, research, scholarship and service for the present and for future generations.

(Approved by the Faculty Senate Council Oct. 27, 1994, and by the Board of Trustees Dec. 2, 1994)