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Record

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 22 No. 29 April 23, 1998



Seniors Jenny Bohman (left) and Kandace Detwiler examine cores from white oak trees at Tyson Research Center in an effort to determine the trees' age for anthropological and environmental research. Their work will be among the featured attractions at Tyson's History Day May 2.

University to confer six honorary degrees

Trailblazing civic leaders recognized

Pioneers in brewing, broadcasting and black theater are among the six people who will receive honorary degrees during Washington University's 137th Commencement May 15. The University also will bestow academic degrees on some 2,480 students during the ceremony, which begins at 8:30 a.m. in Brookings Quadrangle.

The six honorary degree recipients are Floyd E. Bloom, M.D., doctor of science; August A. Busch III, doctor of humanities; Lynne Cooper Harvey, doctor of humanities; Ronald J. Himes, doctor of arts; E. Desmond Lee, doctor of humanities; and Commencement speaker George F. Will, doctor of letters.

Floyd E. Bloom

Floyd E. Bloom, M.D., who graduated cum laude from Washington University School of

Medicine in 1960, has been called one of the major architects of modern neuroscience. An innovative neuroscientist with a broad-based concept of the nervous system's structure and function, he was the first to appreciate the necessity for in-depth study of comprehensive neurotransmitter systems at the anatomical, physiological and pharmacological levels.

Bloom is chair of the Department of Neuropharmacology at The Scripps Research Institute in La Jolla, Calif. Previously, he directed behavioral neurobiology at The Salk Institute in San Diego and was chief of the Laboratory of Neuropharmacology at the National Institutes of Health.

Bloom received a bachelor's degree cum laude in 1956 from Southern Methodist University. He developed an interest in pharmacology while a medical student at Washington University. After completing an internship and a year of residency at Barnes Hospital, he was accepted as a research

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Celebrating history, nature at Tyson

Bird-watching tours, nature hikes, hayrides, displays of American Indian artifacts and World War II equipment, arts and crafts and tours of an abandoned mining village and quarry cave are all on the agenda May 2 for the Tyson Research Center's History Day, a celebration of the multilayered history and unique ecological features of this trea-

sured University asset in southwest St. Louis County. The event will run from 11 a.m. to 4 p.m. on the Tyson grounds.

The center's 2,000 acres of oak-hickory forest provide a hilly, diverse landscape that includes open meadows in lowland areas and a series of springs and man-made aquatic habitats. Ferns, flowering plants, fungi, lichens,

amphibians, birds, mammals and reptiles abound in a setting right on the outskirts of greater St. Louis.

Noted birder and field guide Richard W. Coles, Ph.D., adjunct professor of biology in Arts and Sciences and former director of Tyson, will lead a birding tour to view Tyson's scores of songbird species. Representatives from the St. Louis Zoo and the Missouri Department of Conservation will give talks on the fauna and flora that Tyson hosts. Local authors and American Indian and archaeological scholars will be on hand to discuss the history of Tyson, along with area people who worked at Tyson during World War II, when it served as an ammunition-testing grounds for the U.S. armed forces.

The federal government conveyed the site to the University in 1963. The University has used it for a research field station to study many different aspects of the environment. Washington

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A&S sophomores gather for help in major choices

The metaphors were tallying faster than "Titanic" ticket sales.

Selecting your major is like falling in love. Being a sophomore sometimes feels like being a "forgotten" middle child. An academic department should be a student's "intellectual home."

These parallels drew 125 second-year students away from an enticing, sun-splashed after-

noon into Graham Chapel April 8 for the College of Arts and Sciences' inaugural Sophomore Convocation — an ambitious outreach program designed to welcome students into the familial arms of the departments that house their newly chosen majors.

The two-hour event had three goals — one symbolic, one substantial, one social.

Black law students 'giving back' in mentoring program for area youths

As the 80 African-American youths quietly closed their books at the end of a recent Saturday tutoring session, members of Washington University's Black Law Students Association (BLSA) offered words of encouragement and inspiration.

"Education is one of the most effective means of upward mobility in our society," said third-year law student Darrell Graham, who helped set up the law students' monthly tutoring program for St. Louis area youths. "Keep your heads up high. You have a lot to be proud of."

Kemba Logan, a second-year law student and another tutor in the St. Paul Saturdays program, added: "Don't quit no matter what. When things get rough, just tell yourself, 'I can stick it out for

five more minutes.' Before you know it that five minutes becomes five hours, five days, five years, if you just keep going."

This is the second year the tutoring program has been offered at the School of Law in conjunction with the non-denominational St. Paul Saturdays program. St. Paul Saturdays was founded at St. Paul AME Church in North St. Louis in 1984 by the late William J. Harrison, an associate dean at Forest Park Community College,

to deal with the issues that young black males face, said Keith Antone Willis, the program's executive director.

Throughout the school year, the young men, ages 5 to 17, file into the law school the first Saturday of each month with homework in hand. While many of their counterparts are at home tuned into the morning cartoons or out playing ball, these youths do some serious studying during the one-and-a-half-hour tutoring sessions.

"I always have my books," said Darrell Sides, 14, of Florissant, Mo., who was comfortably seated in one of the law school classrooms. "It's so quiet. You can concentrate here, not like at home. At home I do my homework in my room, but I'm always tempted to watch TV. Still, I get it done."

Down the hall in the law school's computer lab, Martise Hill, 10, of St. Louis was learning how to key in a report he was working on for his fifth-grade

class. The report was to describe a memorable experience in school.

"I'm writing about when my poem was published in a poetry anthology for young Americans," he said. "I felt glad when my poem was selected, but I thought I was going to get some money," he added with a big grin. "I did get an award from the Clayton Board of Education, so I liked that." When asked what the poem was about, Martise quickly rattled off the first lines: "No two people look the same; a different place, a different name ..."

The law students provide assistance and moral support as the youths tackle anything from trigonometry to French lessons to spelling words. For the BLSA members, it's a chance to give something back to the community.

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Carnival hijinks

Freshman Nate Forst is a pudding-toss target at the Sigma Chi booth during last weekend's Thurtene Carnival. The popular event, a charity fundraiser in its 92nd year, drew nearly 100,000 people.

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St. Louis Cardinals choose University physicians for medical care

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Maxine I. Lipeles, J.D., applies her legal expertise to environmental engineering

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Poet Laureate Robert Pinsky's national Favorite Poem Project has Midwest launch here

Medical Update

Cardinals choose University physicians as team doctors

The St. Louis Cardinals have selected physicians from the Department of Orthopaedic Surgery to provide medical services for the entire Cardinals' organization. The Washington University physicians practice at BJC Health System institutions.

The orthopaedics department and its sports medicine specialists will work together with other University physicians to provide comprehensive medical care on a daily basis and in emergency situations. Those services include pre-season, pre- and post-game evaluations and physician presence at games. The doctors also will use a computerized system to monitor injuries and develop an injury-prevention program.

University faculty physicians also will serve as consultants for the team's minor league affili-

ates, and BJC Health System will provide inpatient hospital services for the Cardinals.

"When you take care of a professional sports team, you take care of elite athletes that demand the highest level of conditioning, care and rehabilitation," said Richard H. Gelberman, M.D., the Fred C. Reynolds Professor and head of orthopaedic surgery. "Our goal is to return injured players to their full potential as rapidly as possible."

Cardinals President Mark Lamping said of the selection: "The overall expertise of these physicians, coupled with their individual areas of specialization, will be an exceptional asset to the club. These doctors have outstanding reputations not only in sports medicine but within the entire medical community. Wash-

ington University and BJC Health System are two of our most valued partners, and this takes our relationship to an even higher level."

Because baseball players play almost every day throughout a long season, many of their injuries involve the cumulative effects of repetitive stress and strain. The common problems include hamstring, back, shoulder and elbow injuries, and the physicians will battle those problems with the help of computers.

BJC is providing laptop computers and a software program called Trainers' Wizard®. The program already is used by a handful of major league teams, and it should enable the physicians to better monitor all injuries and medical problems for both major and minor league

players. Information from the program will be used to standardize a new strengthening and conditioning program for all pre-game warm-up exercises throughout the season. Gelberman said that should help the Cardinals avoid many of the injuries that keep players from performing at their maximum ability.

All three major sports teams in St. Louis now use Washington University faculty physicians as their team doctors. The Cardinals, Blues and Rams have chosen the orthopaedic department and BJC partly in recognition of the high level of expertise that has been recruited since Gelberman's arrival from Harvard Medical School in 1995.

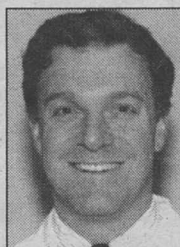
The department has recruited a specialist in sports medicine to serve as team physician for the Cardinals. George A. Paletta Jr., M.D., comes to the University from Cornell University Medical College, where he was an instructor in surgery and an

assistant attending surgeon at the Hospital for Special Surgery/Cornell University Medical Center in New York. He also completed fellowships in sports medicine at the Cleveland Clinic Foundation and in pediatric sports medicine at Children's Hospital of Michigan. While in New York, Paletta served as associate team physician for the Mets.

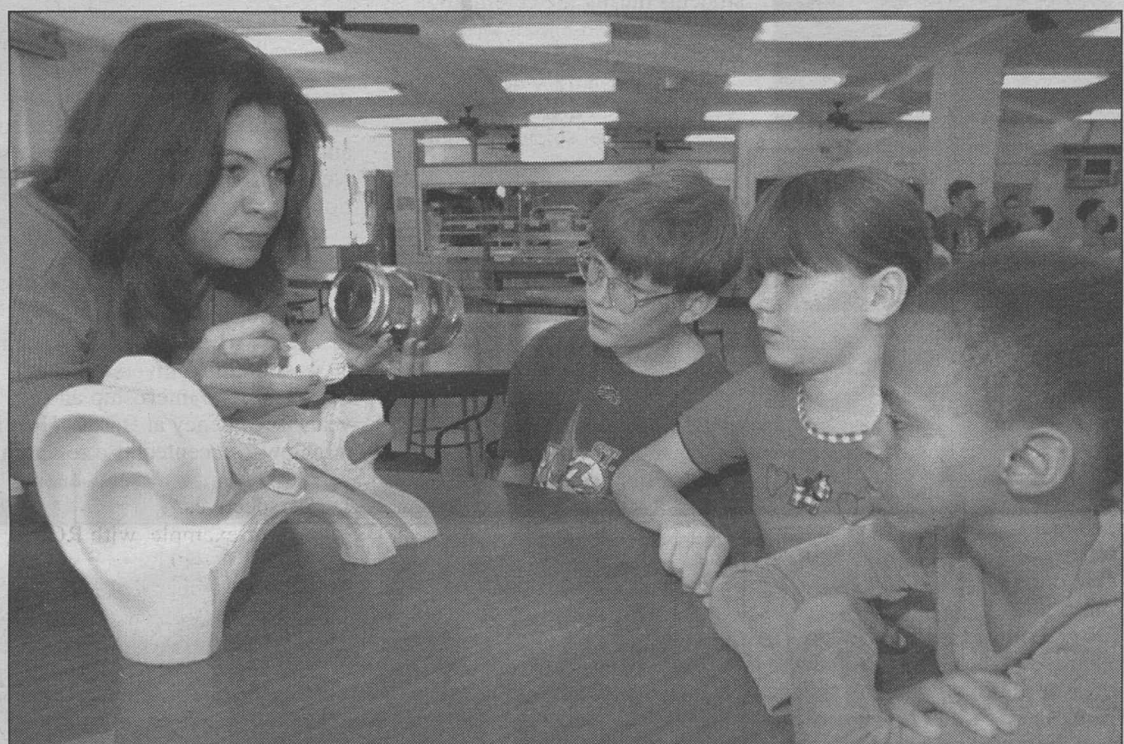
Paletta is one of several highly regarded specialists the department has recruited recently from around the country. Experts in microvascular surgery; adult reconstruction and pediatric orthopaedic surgery; trauma; and spine, shoulder, foot and ankle surgery now are on staff.

Besides Paletta, the core medical team includes: Gelberman, who will oversee medical services for the Cardinals; Rick W. Wright, M.D., instructor of orthopaedic surgery, who also is co-head team physician for the St. Louis Blues; and Ken D. Yamaguchi, M.D., assistant professor of orthopaedic surgery and director of shoulder and elbow surgery at the School of Medicine.

— Jim Dryden



George A. Paletta Jr.



All ears

Debbie Carter (left), outreach service coordinator at Central Institute for the Deaf, shows models of the ear to Beirbaum Elementary School fourth-grade students (from left) Travis Dearmont, Amy Bell and Jasmine Harris. Carter visits schools and talks with children about how the ear works, what it means to have a hearing impairment and how to communicate with people who have hearing loss.

Grant to support cochlear implant research

Margaret W. Skinner, Ph.D., professor of otolaryngology, has received a five-year \$2 million grant from the National Institute on Deafness and Other Communication Disorders. She is determining ways to adjust settings on cochlear implants so that people who are severely hearing impaired can improve their speech recognition.

"Cochlear implants move people into the world of sound again," Skinner said. "But there's a lot of variation in sound clarity, and I want to find out what strategies will optimize people's understanding of speech."

Skinner will study 75 volunteers who no longer benefit from traditional hearing aids. The volunteers will receive either the Nucleus 24 cochlear implant developed by Cochlear Limited or the COMBI 40+ cochlear implant developed by MED-EL.

Cochlear implants use an external microphone placed above the ear to pick up sounds. The signals are relayed to a speech processor worn on a belt or clothing, which sends the signals through the skin to a surgically implanted receiver behind one ear. The sound then travels through insulated wires to electrodes in the cochlea of the inner ear.

The fluid-filled cochlea converts sound waves into nerve signals. Damage to its hair cells or to the auditory nerve itself can sabotage this process, making hearing aids useless. Cochlear implant electrodes bypass the damage by directly stimulating healthy nerve fibers.

To maximize the benefit of cochlear implants, Skinner will test volunteers' ability to understand speech sounds, words and sentences after a variety of adjustments have been made.

One study will reveal whether patients with extensive nerve damage hear better using as few as six electrodes or as many as 22 electrodes. It is unknown how many electrodes will provide the best understanding of speech.

Other studies will determine whether hearing improves when the number of speech processing channels is adjusted. Each processor contains channels that divide incoming sound into different pitches. Using more channels provides more information but may increase sound distortion.

Skinner also will adjust the processors to send signals to the electrodes at different rates. Like other nerves, auditory fibers need to recover after

responding to a stimulus. "If you give a person too much sound information too fast, their nerve fibers can't recover quickly enough to analyze the incoming sound," she said.

Other studies will evaluate the best settings to help people hear a range of sound levels, from a quiet telephone conversation to a noisy concert. Long-term changes in the hearing ability of cochlear implant recipients also will be investigated.

With each study, Skinner hopes to establish standard settings that work best for the majority of volunteers. However, because patterns of hearing damage and other factors vary, these settings will not be appropriate for all participants. She will investigate one variable: the position of electrodes in recipients.

A combination of X-ray and 3-D spiral computed tomography images will allow Skinner and collaborators at Harvard University and the University of Iowa to visualize the final resting place of implanted electrodes in each volunteer. Comparing these images with patients' responses in the other studies may reveal electrode positions that work best for certain types of hearing loss.

— Barbra Rodriguez

Nobel laureate to give Lowry lecture

Bruce Merrifield, Ph.D., the John D. Rockefeller Professor Emeritus at The Rockefeller University in New York, will deliver the 20th annual Oliver Lowry Lecture at 4 p.m. Thursday, April 30, in Moore Auditorium, 4580 Scott Ave. His lecture is titled "The Solid Phase Method for Synthesis of Peptides and Other Macromolecules and Its Application to Antibacterial Peptides."

Merrifield won the Nobel Prize in chemistry in 1984 for the development of solid phase synthesis. This technology, which he first applied to the synthesis of small peptide hormones such as bradykinin, angiotensin and oxytocin, has been adapted for use in the synthesis of proteins, nucleic acids, carbohydrates and, more recently, to synthetic organic chemistry in general. This adaptation has provided the technological foundation for the explosion of combinatorial chemistry,

which now underlies much drug discovery.

The Lowry lecture is held annually to honor the contributions of the late Oliver Lowry, M.D., Ph.D., to science and to Washington University. Lowry, a distinguished biochemist and member of the National Academy of Sciences and the American Academy of Arts and Sciences, was head of the Department of Pharmacology from 1974 to 1976 and again from 1989 to 1990. He died in 1996.

Discounted transit pass available

In an effort to encourage commuting to work by mass transit, the Washington University Medical Center Transportation Management Association (TMA) is offering a discounted transit pass to Medical Center employees.

Medical Center employees can purchase decals that will be affixed to their employee photo identification badges. A decal will entitle the employee to unlimited rides and transfers on Metrolink and/or Bi-State buses for three months. The decals will cost \$90 — \$15 less than the traditional monthly transit pass.

The initial pass will be valid May 1 through July 31. All pass sales will be coordinated by the TMA office in Room 2211 of the Clinical Sciences Research Building. Enrollment forms currently are being accepted, and enrollment is limited to 300 participants.

For more information, call 747-0706 or e-mail rideshare@facilities.wustl.edu.

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Washington
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Washington People

Lipeles brings law and engineering together

What does an environmental lawyer at the top of her profession do for her next challenge?

If she possesses the rare skills, intellect and personality of Maxine I.

Lipeles, J.D., she becomes an engineering professor.

In 1990, Lipeles, a partner in the prestigious St. Louis firm of Husch & Eppenberger, was looking for an alternative to her full-time law practice. She had developed a stellar reputation as one of the nation's top environmental lawyers, mainly through her work in St. Louis, but also as assistant attorney general in the Massachusetts Attorney General's Environmental Protection Division from 1980 to 1982.

William P. Darby, Ph.D., chair of the Department of Engineering and Policy in the School of Engineering and Applied Science, learned of Lipeles and was eager to have her join his staff. Darby's department is one of only about 25 nationwide that integrates policy concerns with the discipline of engineering. Environmental policy was an area he wanted to strengthen.

"The first time I met Maxine, I knew we wanted to attract her to Washington University," Darby said. "That's the kind of lasting impression she makes. Maxine only wants to do something if she can really make a difference, and today she's doing that at the helm of our new environmental engineering program."

"Working with Maxine is fun," he went on, "and I always learn something from her. Her sense of humor, warmth and deep concern for students come through in every situation. But none of that diminishes her determination or her ability to cut to the heart of any issue faster than anyone I've ever known. Maxine somehow combines all those qualities to produce a trusted colleague who is both universally respected and universally liked. Even so, I hope I never have to sit across the table and be cross-examined by her."

Lipeles taught her first course in January 1990 and since then has helped forge the environmental engineering program, serving as interim director from 1994 to 1997 and then full-time director. Today, Lipeles is professor of environmental regulation and policy in the engineering and policy department and has an adjunct appointment with the School of Law, where she teaches environmental law and serves as faculty adviser to the Environmental Moot Court Competition. She oversees 29 graduate students pursuing master's degrees or doctorates in environmental engineering plus numerous undergraduates working toward an environmental engineering minor. The interdisciplinary program is comprised of faculty from the chemical, mechanical, civil and engineering and policy departments, and also draws on the University's environmental studies program.

Relating legal and technical issues

It doesn't take a T square to note that Lipeles, a New York native who graduated summa cum laude in 1975 from Princeton University's Woodrow Wilson School of Public and International Affairs, pulled a 180-degree professional change in the '90s.

Or seemingly so.

"Actually, environmental engineers confront environmental law nearly as much as environmental lawyers do, so there's a match right there," Lipeles said. "And I was drawn to the engineering and policy department because of a long-standing interest in the relationship between legal and technical issues."

Her involvement in environmental issues was sparked early. Lipeles was a high school student in the late '60s, when assassinations and racial, gender and foreign policy questions occupied the American conscience. Environmental issues were just emerging then, and Lipeles was attracted to them. On the very first Earth Day in 1970, she and a fellow student compiled a program of visuals and music for a presentation to a full-school assembly.

"There were so many things we were working against," Lipeles said. "It was refreshing to have something to work for."

At Princeton, Lipeles immersed herself in an interdisciplinary program her junior year that combined political science, history, economics and sociology with a focus on public policy issues. In a required junior-level policy

conference course, students tackled an unresolved policy issue, dividing it into subtopics about which each student did a research report and provided a detailed recommendation for the group.

"Energy policy was the topic of my policy conference, and it came to life when the Arab Oil Embargo occurred during the semester," she said.

She became active in Princeton's University Press Club, a group of students who serve as correspondents for United States newspapers. For most of her junior year and half of her senior year, Lipeles was the Princeton correspondent for The New York Times. The topics she covered ranged from the sublime to the ridiculous, from features and speeches by major dignitaries to campus fads — including streaking.

Lipeles became the first woman president of the Princeton Press Club; her successor and fellow Woodrow

comply with environmental laws. That can be very daunting, even if the engineer has been exposed to environmental law."

Lipeles cited two infamous federal environmental hazardous waste laws, the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response, Compensation and Liability Act, better known as Superfund. RCRA governs the day-to-day generation and handling of hazardous waste, whereas the Superfund law is retroactive, providing for the cleanup of past contamination.

The laws have stymied, frustrated and perplexed manufacturers, environmental engineers and lawyers alike since their inception in 1980. Throw the broad powers of the U.S. Environmental Protection Agency (EPA) into the mix, and it's easy to see that pure applied engineering becomes only part of an environmental engineer's job.

"So much of environmental law involves questions that don't have answers," she explained. "If you're working in the field, you need to have the skills to figure out what to do in situations that don't have easy answers. Part of what I do in my courses is sensitize students to situations where there are no clear-cut answers, but nonetheless a best decision must be made."

Lipeles said that engineers studying environmental law have to go against their basic instincts in dealing with such situations. "Engineers are basically oriented to finding the answer," she pointed out. "But in law school, the emphasis is on analyzing the question. You have to look at an issue not from just one dimension, but from several perspectives."

For example, with RCRA, the engineer always must ask: Is a substance a hazardous waste? A simplified RCRA definition of hazardous waste is any solid waste that either exhibits one of four characteristics — ignitability, reactivity, corrosivity or toxicity — or else appears in one of four distinct lists compiled by the

EPA. Thus the diversity of substances that can be considered hazardous wastes is mind-boggling, as are the myriad situations that arise in dealing with treatment, permits and reporting.

"The risks of guessing wrong are very high," Lipeles said. "On the one hand, if it's not a hazardous waste and you decide to handle it as one, the cost is very high. If it is a hazardous waste and you handle it as if it is not, you're subject to fines and penalties. But it's not the kind of thing where you can go to a lab and run a test that says, 'Yes, it is a hazardous waste.' Some of these issues will be decided with a lawyer, but lots of engineers make those judgments on a daily basis as part of their work."

Books used nationwide

To aid in deciphering environmental law, Lipeles has written two books, "Hazardous Waste" and "Water Pollution," the latter co-authored with Jackson B. Battle, a Texas environmental lawyer. Both are successful casebook studies in their third editions and used in law schools nationwide. She also is co-editor of "Environmental Law Anthology," published in 1996, which is becoming popular in political science courses as well as environmental classes.

"Books are how I spend my summer vacations," said Lipeles, smiling. She is the mother of two active children, Rachel, 13, and Josh, 10, who play organized sports year-round and are involved in many other activities. According to her mother, Rachel is an "awesome" softball pitcher who never loses her cool on a 3-2 count, and Josh is an avid sportsman who recently started playing tennis competitively.

Lipeles regularly teaches two undergraduate environmental engineering courses and three different graduate courses on a rotating basis. She is developing a fourth, Environmental Regulation of the Technological Corporation, which she plans to teach in the fall.

"We have a very strong group of graduate students, many of whom are practicing engineers who've had dealings with environmental regulations," Lipeles said. "They add a lot to the class discussion. And of course there is a very bright array of undergraduates pursuing the environmental engineering minor. One of the most gratifying things for me is to get e-mail from former students asking for graduating engineers with the minor because their company wants more graduates with the training they received."

— Tony Fitzpatrick



Maxine I. Lipeles, J.D., and graduate student Demian Wincele explore environmental law's complex issues.

Wilson student was Mike McCurry, now White House spokesman for President Clinton.

Despite her journalism background, which she found helpful to her law career, Lipeles was determined to enter law school to pursue environmental law, then an emerging field. "I'd become really interested in environmental issues and thought being a lawyer would give me the skills to make a positive impact," she said.

She took an "eye-opening" year off after undergraduate school to serve as a Washington lobbyist for an environmen-

"Engineering judgment alone isn't enough in today's workplace in terms of designing a process or a pollution control technology."

tal group. As a lobbyist, she drafted legislation, testified in congressional hearings and visited the offices of senators and representatives. Lipeles said the experience was invaluable for both her teaching and law professions. She then went to Harvard Law School and graduated with honors in 1979.

Lipeles and her husband, Joel Goldstein, moved to St. Louis in 1982 to practice law. Goldstein also switched from law practice to academia when he joined the faculty of the Saint Louis University Law School in 1994.

Lipeles' many professional experiences are tailor-made to help environmental engineers traverse the labyrinth of environmental law. "Engineering judgment alone isn't enough in today's workplace in terms of designing a process or a pollution control technology," she said. "Engineers also have to understand the regulatory framework and other constraints the law will impose that may or may not be related to engineering judgment. Many of the jobs environmental engineering graduates perform are in the private sector where they're expected to help their companies

Calendar

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

April 23-May 2



Exhibitions

"Master of Fine Arts Thesis Exhibition." All-media exhibit of works by grad. students. Opening reception, Friday, April 24, 5-7 p.m. Exhibit runs through May 3. Gallery of Art. 935-4523.

"Photography Thesis Exhibition." Works by grad. students. Through May 16. Mudd Hall.

"Powerful Grace Lies in Herbs and Plants: A Joint Exhibit on Herbal Medicine." Sponsored by Missouri Botanical Garden Library and Bernard Becker Medical Library. Through August. Seventh floor, Bernard Becker Medical Library, 660 S. Euclid. 362-4235.

"The Book Arts in St. Louis: 1898 to 1998." Through May 22. Special Collections, level five, Olin Library. 935-5495.



Films

Friday, April 24

7 and 9:30 p.m. Filmboard Feature Series. "Cinema Paradiso." (Also April 25, 7 and 9:30 p.m. and April 26, 7 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

10 p.m. and midnight. Filmboard Midnight Series. "Ferris Bueller's Day Off." (Also April 25, midnight, and April 26, 9:30 p.m.) Cost: \$3 first visit; \$2 subsequent visits. Room 100 Brown Hall. 935-5983.



Lectures

Thursday, April 23

11:15 a.m. Mental Health Services Spring Seminar Series. Overview of NIH-funded project "HIV Prevention and Life Options for Youth in Foster Care." Wendy Auslander, assoc. prof. of social work Curtis McMillen, asst. prof. of social work; and doctoral students Diane Elze and Ron Thompson. Room 222 Goldfarb Hall. 935-7453.

Noon. Computational neuroscience seminar. "Internal Models in the Cerebellum." Mitsuo Kawato, Kyoto, Japan. Room 928 McDonnell Medical Sciences Bldg.

Noon. Genetics seminar. "Progress Towards the Cloning of One Tumor Suppressor Gene Predisposing Women Towards the Development of Cervical Carcinoma." Daniela S. Gerhard, research asst. prof. of genetics and asst. prof. of psychiatry. Room 823 Genetics Library, McDonnell Medical Sciences Bldg. 362-7076.

4 p.m. Cancer Center seminar. "Gene Transfer into Hematopoietic Stem Cells." Arthur Nienhuis, prof. of pediatrics and medicine, St. Jude Children's Hospital, Memphis, Tenn. Third Flr. Aud., St. Louis Children's Hospital.

4 p.m. Chemistry seminar. The 39th Joseph W. Kennedy Memorial Lecture. "Trapping Atoms and Other Neutral Particles with Light."

Steven Chu, the Theodore and Frances Geballe Professor of Physics and Applied Physics and co-winner of 1997 Nobel Prize for physics, Stanford U. Room 458 Louderman Hall. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "A Geochemical Investigation of Zircons from the Lyon Mountain Gneiss, Adirondack Mountains, New York State." John M. Hanchar, Environmental Research Div., Geochemical Processes, Argonne National Lab. Room 112 Wilson Hall. 935-5610.

4:15 p.m. Philosophy-Neuroscience-Psychology Program colloquium. "Knowledge-based Vision and Simple Visual Machines." Dave Cliff, MIT. Room 215 A and B, Psychology Bldg. 935-5119.

5 p.m. Vision Science Seminar Series. "Regulation by Phosphorylation of the Small Heat Shock Protein HSP 27: Functions and Structures." Jacques Landry, Laval U. Cancer Research Center, Quebec. East Pavillion Aud. 362-7167.

5:30 p.m. Art history and archaeology lecture. "Peirce's Visuality." Michael Leja, prof. of art history, MIT. Room 200 Steinberg Hall. 935-5270.

6 p.m. Arts and Sciences Century Club Series lecture. "Mars: Exploration and Life." Raymond E. Arvidson, chair of earth and planetary sciences. Room 162 McDonnell Hall. 935-8003.

7:30 p.m. School of Art Lecture Series. "Translations." Slide lecture by painter Suzanne McClelland. Room 118 Brown Hall. 935-6500.

8 p.m. School of Architecture Monday Night Lecture Series. The Fumihiko Maki Endowed Lecture. "The Capacity for Endlessness." Ben Van Berkel, architect, Van Berkel & Bos Architecture Bureau, Amsterdam. Steinberg Aud. 935-6200.

Friday, April 24

9:15 a.m. Pediatric Grand Rounds. The 11th Ben Ableson Memorial Lecture. "Gene Therapy for Hematopoietic Stem Cells." Robertson Parkman, prof. of pediatrics and microbiology, USC Medical School, and head, research immunology and bone marrow transplantation div. Children's Hospital, Los Angeles. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Intracellular Survival Strategies of *Histoplasma capsulatum*." William E. Goldman, assoc. prof. of molecular microbiology. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

12:15 p.m. Internal medicine lecture. The 45th annual Alpha Omega Alpha Lecture. "History of Laparoscopic Surgery." Nathaniel J. Soper, prof. of surgery and head of minimally invasive surgery. Clopton Aud., 4950 Children's Place. 362-6251.

2 p.m. Chemistry seminar. The 39th Joseph W. Kennedy Memorial Lecture. "The Study of Polymer Dynamics and Biological Function at the Single Molecular Level." Steven Chu, the Theodore and Frances Geballe Professor of Physics and Applied Physics and co-winner of 1997 Nobel Prize for physics, Stanford U. Room 458 Louderman Hall. 935-6530.

4 p.m. Music lecture. "Seeing Music: Visuality in the Friendship of Carl Friedrich Zelter and Johann Wolfgang von Goethe." Stephanie Campbell, grad. student in music. Room 102 Music Classroom Bldg. 935-4841.

4 p.m. Neuroscience student-organized biweekly seminar. "Neurotrophins and Hippocampal Synaptic Plasticity." Erin Schuman, Calif. Inst. of Tech. Cori Aud., 4565 McKinley Ave.

4:30 p.m. Managed care symposium. "Future Directions in Man-

aged Care: Academic and Industry Perspectives." Eric P. Newman Education Center. 454-8638.

Saturday, April 25

9 a.m. Neural sciences seminar. "SERIES: Dementing Diseases. The Cell Biology of Dementing Diseases: Prions." David A. Harris, assoc. prof. of cell biology and physiology. Erlanger Aud., McDonnell Medical Sciences Bldg. 286-2881.

Monday, April 27

Noon. Molecular biology and pharmacology seminar. "Signaling Pathways to and from the Lens: New Morphogens, Mitogens and Mechanisms in Eye Development." David C. Beebe, the Jules and Doris Stein Research to Prevent Blindness Professor of Ophthalmology and Visual Sciences and prof. of cell biology and physiology. Pharmacology Library: Philip Needleman Library, Room 3907 South Bldg. 362-2725.

4 p.m. Immunology Research Seminar Series. "Molecular Aspects of T Helper Cell Differentiation." Laurie H. Glimcher, immunology and infectious diseases, Harvard School of Public Health. Eric P. Newman Education Center. 362-2763.

4 p.m. Mathematics analysis seminar. Speaker is Rick Laugesen, U. of Ill.-Urbana-Champaign. Room 207 Cupples I Hall. 935-6760.

Tuesday, April 28

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Molecular Mechanisms of Phagocytosis." Alan Aderem, immunology dept., U. of Wash. Cori Aud., 4565 McKinley Ave. 362-3693.

12:10 p.m. Physical therapy research seminar. "Self-regulation of Exercise Behavior in Older Women." Joanne Schneider, postdoctoral fellow, geriatrics and gerontology. Classroom C, 4444 Forest Park Blvd. 286-1400.

2:15 p.m. Condensed matter physics seminar. "Investigations in Chemical Physics by Neutron Time-of-Flight Spectroscopy." Terry Udovic, research scientist, National Inst. of Standards and Technology, Gaithersburg, Md. Room 241 Compton Hall. 935-5739.

4 p.m. Chemistry seminar. "Nanostructured Polymeric Materials." Karen L. Wooley, asst. prof. of chemistry, Room 311 McMillen Lab. 935-6530.

Wednesday, April 29

6:30 a.m. Anesthesiology Grand Rounds. "Topics in Pediatric Pain Management, Including Cystic Fibrosis." Matthew Barry Jones, asst. prof. of anesthesiology. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

7:30 a.m. Orthopaedic Surgery Distinguished Lecturer Series. "Biology and Treatment of Skeletal Metastases." Denis Clohisey, U. of Minn. Scarpellino Aud., first floor, Mallinckrodt Institute of Radiology, 510 S. Kingshighway Blvd. 747-2803.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Linking Internet, Information and Medicine: Can It Help Us?" Vincente M. Colon-Alcaraz, asst. prof. of obstetrics and gynecology. Seminar Room B, Eric P. Newman Education Center. 362-7139.

3:45 p.m. Physics colloquium. "Phase Transitions in Neutron Stars: Structure and Signals." Norman Glendenning, prof. of physics, Lawrence Berkeley Lab., UC-Berkeley. 935-6252.

4 p.m. Biochemistry and molecular biophysics seminar. "Inter-protein Dynamics Within the Replisome During Chromosome Replication." Michael O'Donnell, Replication Lab., The Rockefeller U., N.Y. Cori Aud., 4565 McKinley Ave. 362-0261.

7 p.m. Outlook Symposium. "Addressing Domestic Violence in

Same-sex Relationships." Sponsored by the student organization for gay, lesbian, bisexual, transgendered and heterosexual allies of the social work school community. Brown Hall Lounge. 361-2343 or 361-1449.

Thursday, April 30

Noon. Genetics seminar. "RNA Recognition by RNA Binding Domains (RBDs)." Kathleen B. Hall, assoc. prof. of biochemistry and molecular biophysics. Room 823 Genetics Library, McDonnell Medical Sciences Bldg. 362-7076.

4 p.m. Chemistry lecture. "Static and Time-resolved Studies of Molecular Orientation in Mesos-structured Materials by Near-field Scanning Optical Microscopy." Daniel Higgins, asst. prof. of chemistry, Kan. State U. Room 311 McMillen Lab. 935-6530.

4 p.m. English dept. lecture. "Writer and Editor: A Memoir on Working with Robert Lowell." Robert Boyers, editor, Skidmore College, Saratoga Springs, N.Y. Hurst Lounge, Duncker Hall. 935-7130.

4:30 p.m. Mathematics colloquium. Speaker is Carl Sundberg, U. of Tenn. Room 199 Cupples I Hall. 935-6785.

Friday, May 1

4 p.m. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Black Holes and Bacterial Pathogenicity: A Large Genomic Lesion that Enhances the Virulence of *Shigella* and *E. coli*." Anthony Maurelli, Uniformed Services U. of the Health Sciences, Bethesda, Md. Cori Aud. 4565 McKinley Ave. 935-6819.



Performances

Thursday, April 23

8 p.m. A.E. Hotchner Playwriting Competition performance. "Nebraska." One-act play by Alan Griswold, winner of the 1997 competition. (Also April 24 and 25, same time, and April 26, 2 p.m.) Cost: \$10; \$7 for faculty, staff, students and senior citizens. A.E. Hotchner Studio Theatre. 935-5858.

Friday, May 1

8 p.m. OVATIONS! Series performance. "The Speed of Darkness." Performance artist Laurie Anderson. Cost: \$25. Edison Theatre. 935-5643.



Music

Saturday, April 25

8 p.m. Concert. The Carrie Newcomer Band. CD release "My True Name." Sponsored by housing/residential life. Cost: \$10; \$7 for students (\$12 day of show). Steinberg Aud. 935-5037.

8 p.m. OVATIONS! Series concert. Senegalese singer and guitarist Baaba Maal and his 12-piece African band, Daande Lenol, joined by Griot guitarist Mansour Seck. Cost: \$23. Edison Theatre. 935-6543. (See story on page 5.)

Sunday, April 26

7 p.m. Chancellor's Concert. WU Symphony Orchestra and the Chamber Choir of WU. Poulenc's "Gloria," Prokofiev's "Lieutenant Kijé" and

the music of P. Grainger. St. Louis Symphony Music School, 560 Trinity, University City. 935-4841.

Monday, April 27

8 p.m. Black Composers Repertory Chorus concert. Graham Chapel. 935-4841.

Wednesday, April 29

6 p.m. SONGFEST 1998. WU Chorus, Chamber Choir of WU, Vocal Jazz Ensemble and Black Composers Repertory Chorus. Graham Chapel. 935-4841. (See story on page 6.)

Friday, May 1

8 p.m. WU Opera performance. Excerpts from "Faust," "Manon" and "Tales of Hoffman." (Also May 2, same time.) Umrath Hall Lounge. 935-4841.



Miscellany

Thursday, April 23

8 p.m. Writing Program poetry reading. Readings by MFA candidates Heidi Lynn Nilsson, A.F. Thomas and Derek Webster. Hurst Lounge, Duncker Hall. 935-7130.

Friday, April 24

3:30 p.m. Architecture Student Awards Ceremony. Steinberg Aud. 935-4636.

6-8 p.m. Painting Program open house. Third flr., Bixby Hall. 935-6500.

Saturday, April 25

9 a.m. Saturday workshop. "Paste Papers." Make decorative papers. Cost: \$40. 935-4643.

2 p.m. Poetry reading. Poet Laureate Robert Pinsky's Favorite Poem Project. Midwest launch of project features 15-20 non-poets reading works by their favorite American poets. Sponsored by the Center for the Book in the Library of Congress and in Jefferson City, Mo. May Aud., Simon Hall. 935-7130. (See story on page 5.)

Tuesday, April 28

8 p.m. Writing Program fiction reading. Sarah Frisch and Ted Rooney, MFA candidates. Hurst Lounge, Duncker Hall. 935-7130.

Wednesday, April 29

9 a.m.-4 p.m. School of Social Work Continuing Education Series workshop. "Dismantling Racism." Facilitators from the National Conference on Christians and Jews lead an experiential workshop on understanding issues of cultural inclusion and oppression. (Continues Thursday, April 30, same times.) Cost: \$50 per day. Brown Hall Lounge. 935-4909.

Friday, May 1

Noon. Woman's Club spring lunch and annual meeting. "Children of the Flowers, The Australian Vision of Mary Gibbs." Peter Bernhardt, prof. of botany, SLU. Cost: \$15.50. Ces & Judy's Le Chateau, 10405 Clayton Rd. 721-1619.

3:30 p.m. Dedication of Alvin Goldfarb Hall. Mario Cuomo, former gov. of N.Y., will deliver the keynote address. Front of Goldfarb Hall (rain location: Brown Hall). 935-4780.

Saturday, May 2

9 a.m. Saturday workshop. "Block Printing." Make prints or rubber stamps and take home a basic kit. Cost: \$40. 935-4643.

1:30 p.m. Saturday workshop. "Bookbinding Options." Alternative methods for making books. Cost: \$40. 935-4643.

Mayor Harmon, others to read favorite poems here in Midwest launch of national project

Carl Phillips, associate professor in the Department of English in Arts and Sciences, will launch Poet Laureate Robert Pinsky's Favorite Poem Project in the Midwest at 2 p.m. Saturday, April 25, in Simon Hall's May Auditorium at the John M. Olin School of Business.

The event, which coincides with National Poetry Month, will feature up to 20 non-poets reading works by their favorite American poets. Participants will include a range of Missourians, from high school students to St. Louis Mayor Clarence Harmon, who will read a work by Langston Hughes. Pinsky, a professor of English and creative writing at Boston University, will attend the reading, which will be recorded for the Library of Congress' Archive of Recorded Poetry and Literature.

The reading is scheduled to last for about one hour and will be followed by a reception. Both the reading and the reception are free and open to the public. The event is co-sponsored by the Center for the Book in the Library of Congress and the Center for the Book in Jefferson City, Mo.

The Favorite Poem Project is Pinsky's main endeavor as poet laureate. Rooted in the belief that poetry is meant to be read

aloud, the project will create audio and video archives of Americans of all ages, backgrounds and walks of life reading their favorite poems. The archives ultimately will include 1,000 audio recordings symbolizing the new millennium and 200 video recordings symbolizing the Library of Congress' bicentennial in the year 2000.

"It will be a gift to the nation's future, an archive that may come to represent, in a form both individual and public, the collective cultural consciousness of the American people at the turn of the century," Pinsky said.

The St. Louis reading is the fourth of five such readings held around the country. The first reading was April 1 in New York and featured Ed Bradley, co-host of CBS Television's "60 Minutes"; Garrison Keillor, host of "A Prairie Home Companion" on National Public Radio; and musician Suzanne Vega. Other readings followed in Washington, D.C., with President and Mrs. Clinton, and in Boston. A fourth will take place in Los Angeles April 25.

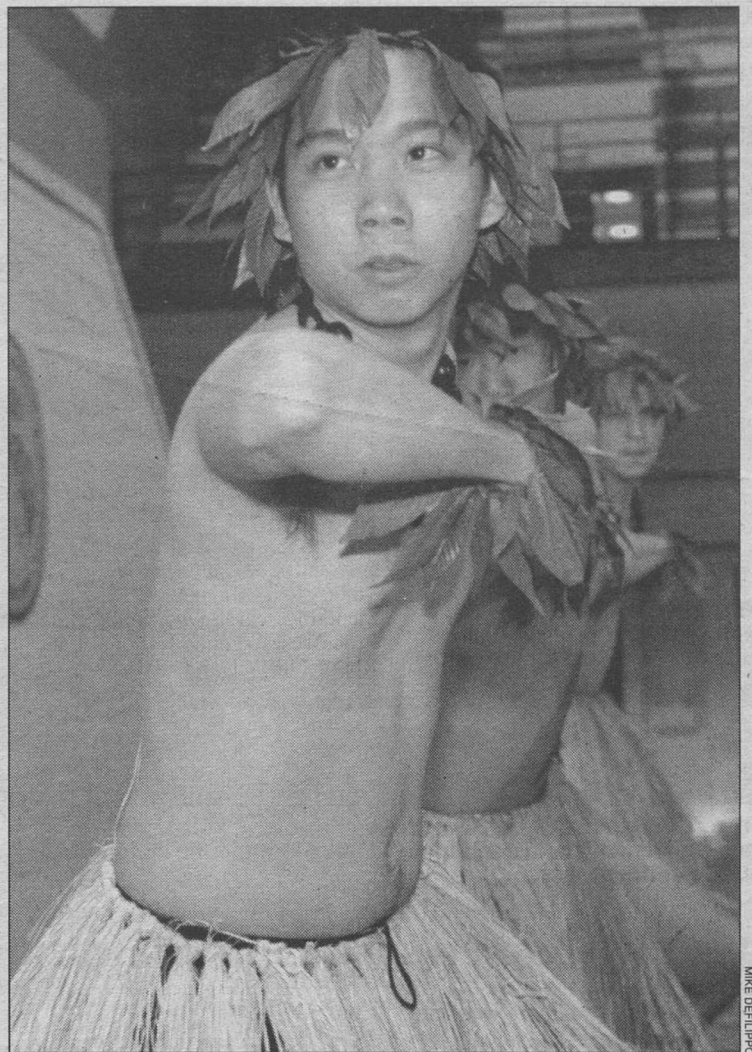
Phillips, who also directs the University's Writing Program in Arts and Sciences, was one of two poets chosen by Pinsky earlier this year to receive a \$12,500 Witter Bynner Fellow-

ship. The fellowship is sponsored by the Witter Bynner Foundation in conjunction with the Library of Congress and is to be used to support the writing of poetry.

"The Favorite Poem Project reminds us of the place poetry had in this country in earlier years, when people learned poems by heart and through song," Phillips said. "The idea is to take poetry out of its academic environs and allow it to speak to everyone. Robert Pinsky's project restores poetry to its place as a national, shared treasure, not something exclusive to university classrooms."

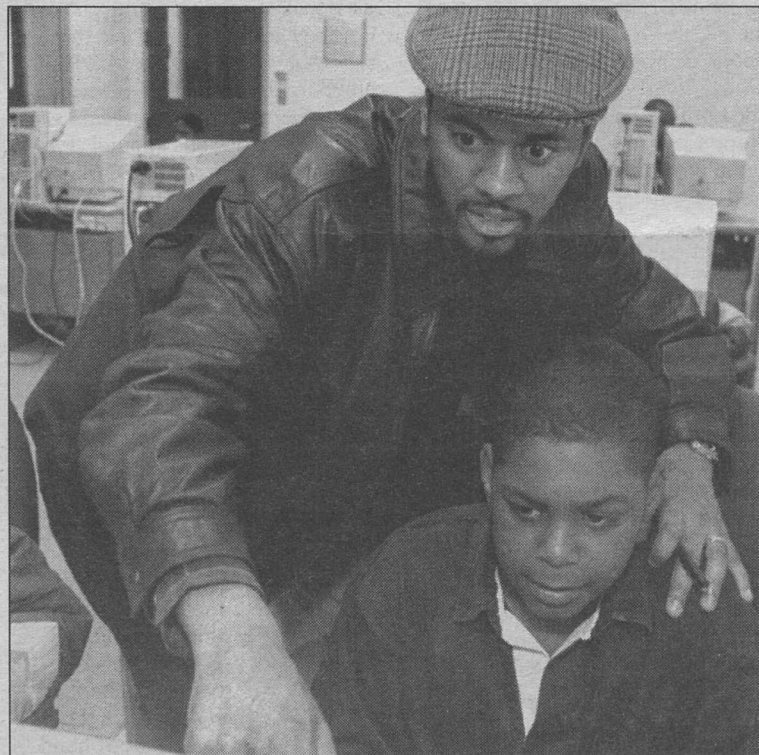
Phillips' new collection of poetry, "From the Devotions," recently was published by Graywolf Press. He is the author of "In the Blood," winner of the 1992 Morse Poetry Prize, and "Cortege." He has received fellowships and awards from the Guggenheim Foundation, the Massachusetts Artists Foundation, the Academy of American Poets and the National Endowment for the Humanities.

For more information about the April 25 reading, call 935-7130. For more information about the project, call the Center for the Book in the Library of Congress at (202) 707-5221. — Liam Otten



Welcoming prospective students

Members of the University's Hawaiian Club entertain with ethnic dancing at the Chancellor's dinner, held Saturday, April 18, in the Athletic Complex as part of April Welcome's Multicultural Celebration. About 350 high school seniors who have been admitted to the University attended the weekend, which celebrates ethnic diversity.



Third-year law student Darrell Graham coaches Martise Hill, 10, at the computer. Graham established the Black Law Students Association mentoring program.

Law students 'giving back' — from page 1

"Volunteering to help with St. Paul Saturdays is the flagship project of BLSA," Graham said. "That's what we want to be recognized for. We're reaching back to a younger generation and providing guidance and leadership."

"It's such a good feeling to sit down and listen to what these young men want to do when they grow up," he continued. "The majority don't want to be athletes or rappers. Some want to be doctors, others lawyers. One wants to be an astronaut, one an animator and one a marine biologist. It's so positive."

Logan added: "It's important that once you've attained a certain level of knowledge that you share what you know. It's an obligation, but it is something you want to do, and it's fun. Someone took the time with me when I was a girl. We want these kids to remember that we believe in them."

Program administrators are grateful for the BLSA's help. "We appreciate and value the relationship we have with the law students," Willis said. "We also get to bring the young men to a major university. Our whole focus is

academic excellence.

"To date, 100 percent of our students have graduated from high school and gone on to college," he added. "Some of these young men will be first generation college students."

In addition to the monthly tutoring sessions, the youths spend other Saturdays visiting places throughout St. Louis, including the St. Louis Science Center, the Black Repertory Theatre, Laumeier Sculpture Park and the Saint Louis Symphony.

"It's all about exposure," Willis said. "We can expose them to things beyond their little block, their little neighborhood. Our motto is: 'Building Men is Better than Mending Boys.'"

Second-year law student Ivory Johnson said the law students enjoy being part of such a worthwhile program. "It's a great opportunity to help kids," he said. "For the most part you get a really good reaction. They want reassurance that what they are doing is right. It motivates them to go on and excel. It's important for them to know they can do a good job."

— Ann Nicholson

Senegalese singer Baaba Maal performs April 25

Renowned Senegalese singer Baaba Maal, one of the rising stars of the World Music movement, will bring his 12-piece African band Daande Lenol ("Voice of the People") to Edison Theatre at 8 p.m. Saturday, April 25, for a special one-night-only performance. Maal will be joined by legendary Griot guitarist Mansour Seck in a concert sponsored by Edison Theatre's OVATIONS! Series and The Sheldon Concert Hall.

Maal, one of the most accomplished performers in the high-pitched vocal tradition of West Africa, combines African styles like tasso and yela music with elements of Western forms such as rap, reggae, jazz, blues and even chamber music. Equally at home with folk rhythms and modern technological innovations, Maal has emerged, along with Youssou N'Dour, as one of Senegal's biggest international stars. Working in both acoustic and dance/pop idioms, his songs often speak to issues facing Africa today, such as the chang-

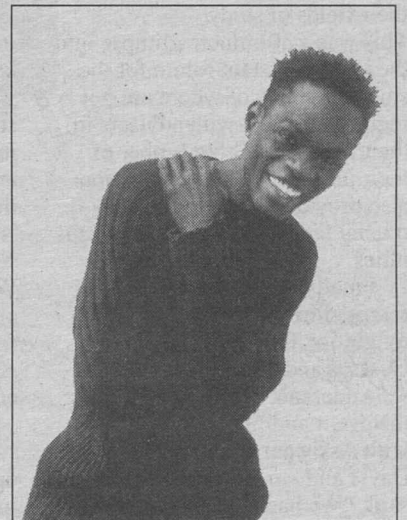
ing role of women, the need to work towards self-reliance, the importance of settling old tribal conflicts and the connection between the past and the future.

Maal was born in Podor, a small town in northern Senegal. As the son of a muezzin, a Moslem crier who calls the faithful to prayer five times each day, Maal was not encouraged to become a musician — a profession generally reserved for the Griot caste. He initially studied law but later joined the Asly Fouta Orchestra, a traditional music academy in Dakar, where he won a scholarship to study in France at the École des Beaux Arts.

In 1984, Maal and Seck, whose families have long been acquainted, recorded an album of acoustic guitar music, "Djam Leeli," which blended elements of traditional African lute music and American country blues. Maal has gone on to record more than a dozen albums, including "Wango," "Taara," "Baayo," "Lam Toro" and "Firin" in Fouta. Maal recently founded a new

recording label, Yoff Productions, which releases music by Senegalese artists on compact disc.

Tickets are \$23. Call for discounts. Tickets are available at the Edison Theatre Box Office, 935-6543, or through MetroTix, 534-1111. For more information, call 935-6543.



Baaba Maal

Sports

Compiled by Mike Wolf, asst. athletic director for media relations, and Kevin Bergquist, asst. director, sports information. For up-to-date news about Washington University's athletics program, access the Bears' Web site at rescomp.wustl.edu/~athletics/.

Tennis teams ready for UAA tourney

The men's tennis team defeated the University of Illinois-Springfield 6-3 on Sunday, April 19.

Current Record: 16-4

The women lost three of four matches last weekend at the Midwest Invitational Tournament in Madison, Wis., defeating Carleton College (5-4) but falling to Gustavus Adolphus College (8-1), St. Olaf College (7-1) and De Pauw University (5-0).

Current Record: 11-8

This Week: 9 a.m. Friday-Sunday, April 24-26: 11th annual UAA

Championships, Tao Tennis Center and Dwight Davis Tennis Center, Forest Park.

Baseball Bears lose three games

The Bears dropped three games to NCAA tournament contenders this past weekend. WU fell 6-2 to neighboring rival Fontbonne College, Friday, April 17, at Kelly Field. The Bears, who were missing a pair of their top hitters, then lost 6-1 and 6-4 at Rose-Hulman Institute of Technology Sunday, April 19.

Current Record: 16-14

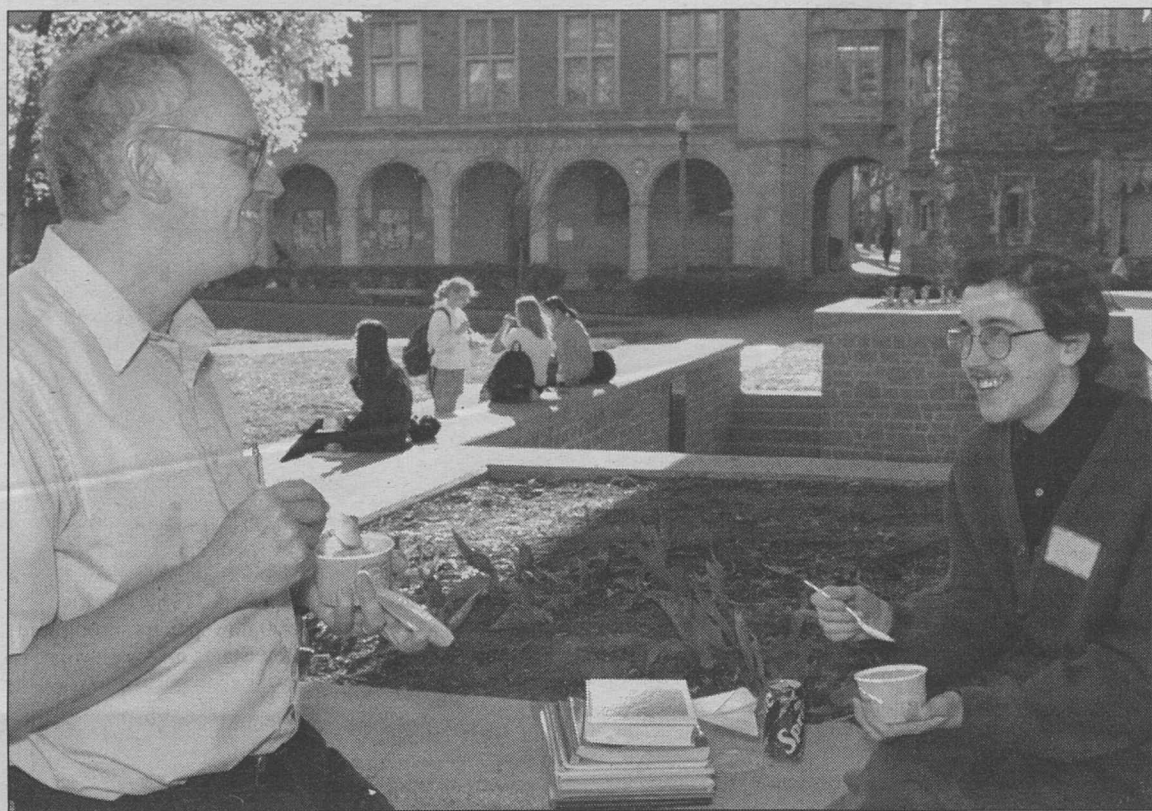
This Week: Noon Saturday, April

25, vs. University of Chicago (2), Kelly Field; 1 p.m. Sunday, April 26, at McKendree College (2), Lebanon, Ill.

Women runners win

The women's track and field team won the 1998 Millikin University Classic Saturday, April 18, behind four first-place finishes. The men's squad placed fifth of 11 teams. The men are the defending UAA outdoor champions, while the women seek a UAA sweep after winning the indoor conference championship in March.

This Week: 10 a.m. EDT Saturday and Sunday, April 25 and 26, at UAA Championships, Atlanta, Ga.



Frozen custard helps break the ice as Edward L. Spitznagel, Ph.D., professor of mathematics, discusses majoring in math with sophomore Derek Moffitt at the inaugural Sophomore Convocation in the College of Arts and Sciences.

A&S sophomores gather at convocation — from page 1

The first, a communal recognition that an important transition occurs with the selection of a major, was achieved in a 45-minute program in Graham Chapel. Five speakers — Vice Chancellor for Students and Dean James E. McLeod; Associate Dean Sharon Stahl, Ph.D.; Assistant Dean Joel Anderson, Ph.D.; and seniors Levi Funches and Aurora Spector — offered greetings and motivational remarks.

From there, students branched out to one of the college's 33 departments, where faculty members relayed practical advice, information and opportunities about their fields of study. This was a 30-minute glimpse into the not-too-distant future for the students, many of whom are not required to meet with advisers in their majors until November of their junior year. The interaction also provided some initial and crucial face-with-a-name opportunities.

Finally, the entire group reunited in the Brookings Quadrangle for Ted Drewes Frozen Custard and further connections.

Anderson, who conceived of the event and planned it along with Assistant Deans Warren Davis and Amy Suelzer, Ph.D., said: "We had a sense that there needed to be more community for sophomores so that they don't fall between the cracks. The advising programs that we've been working on have been geared toward that, in part."

"The idea is to have the departments in which students are majoring be a kind of intellectual home for them," Anderson continued. "And they can only feel that way if they have a connection with the

community. But it needs to be more than just a social connection. It needs to be a place where people are talking about new developments in the field and have an awareness of the big questions that are motivating faculty.

"The faculty really are the academic and intellectual models for students," Anderson said. "It's

address often-asked questions on topics like major requirements, typical sequences of courses, internships, honors programs and career opportunities. "In fact, having this opportunity to talk with our own colleagues was a real payoff," she said. "Our department is rather informal, and going through this process certainly helped in giving students more consistent replies."

Colleen Kelly, along with seven other students, attended the English reception, which also included eight faculty members. "The open forum was the most helpful aspect," she said. "I got most of my questions answered."

Kelly continued: "Something that Dean McLeod said at Graham Chapel also touched home. He said that if by the time you graduate you don't know the name and face of everybody in the department, then you haven't given of yourself wholeheartedly. Today was a good start."

Armed with generally positive anecdotal feedback from both faculty and students, Anderson is pleased with the effort and eager to hone it for next year's beneficiaries, the Class of 2001.

"We're all very aware that just pumping out more programs — without a real purpose to them and a clear sense that this meets the needs that students have — is not the best use of our time or resources," Anderson said. "So it was such a thrill to look out on all those sophomores who had shown up to Graham Chapel on a beautiful sunny afternoon because this clearly is an important turning point."

"I think students felt it met a need, and faculty recognized that this is something that could be good for everybody."

— David Moessner

"We had a sense that there needed to be more community for sophomores so that they don't fall between the cracks."

important for students to get to know them, to have a feel for what they're doing. If all that students see are professors teaching classes, they will have less awareness of the life of the mind that the faculty is engaged in, to such an extraordinary degree, in so many extraordinary ways. When students have just declared a major, that's when it's easiest to form these bonds because they've got all kinds of curiosity and energy and openness."

The face-to-face interaction succeeded in giving faculty an opportunity to extend a welcoming hand and break through the self-imposed barriers that students sometimes set, according to Assistant Professor Erin Mackie, Ph.D., who hosted the Department of English gathering. "The students seemed charmed to have attention paid to them," she said. "We emphasized that angle: our doors are open. We have office hours. Feel free, feel free."

Mackie said it also was an efficient, load-lightening way to

Student medics pass test in dramatic quake drill

"EARTHQUAKE: LOPATA HALL." The words practically scream from the digital pager at a minute past noon.

Within four minutes, senior Sheila Lee, sophomore David Salvay and senior Rachael Payne of Washington University's Emergency Support Team (EST) race onto the scene. Blood. Wailing. Hysterics. More blood. Immediately, the three are mobbed by a handful of victims who stagger from the steps of the venerable engineering building. Payne darts from room to room, quickly taking stock of the situation.

Almost instantly, a command structure is established. Payne begins triage — identifying, prioritizing and treating the victims based on the severity of the wounds.

Steadily, another 32 members of the EST team — triggered via phone chain by Salvay — stream in over the next 20 minutes, each falling into step and fulfilling a role in aiding what turns out to be nearly 50 victims.

What seems like a scene from M*A*S*H is, indeed, staged. The mock disaster drill, held Sunday, April 5, was designed to test the emergency response capabilities of EST — a volunteer student organization that provides free and confidential 24-hour emergency medical care to the University community.

As with any drill, the goal is realism. To that end, members of the 375th Moulage Team from Scott Air Force Base near Belleville, Ill., arrived that morning and applied makeup and fake blood to simulate injuries on some 50 student volunteer "victims" — the gorier, the better.

Also on hand — both to assist and critique — were representatives of the Clayton and St. Louis fire departments, University Police and observers from the University's Emergency Preparedness

Planning Committee.

By all accounts, the EST team came away with high marks. "Overall, I was very pleased with EST's performance," said Steven P. Hoffner, assistant vice chancellor for operations, who oversees the University's disaster preparedness. "The drill was a valuable learning experience — both for EST and for those of us who were evaluating."

Added Laurie Reitman, M.D., Health Service director and EST's medical director for the past six years: "EST always exceeds my expectations. This drill was just one example of their commitment to the University community. It's practice, practice, practice."

Forty-four members strong, with 24 women and 20 men, the EST team prides itself on rigorous training and preparation. In addition to a thorough initial training regimen, the group also receives auxiliary training for nearly two hours every Sunday and Wednesday evening of the school year.

Such dedication pays dividends. Last semester alone, EST responded to 201 calls, ranging from sprained ankles to cardiac distress.

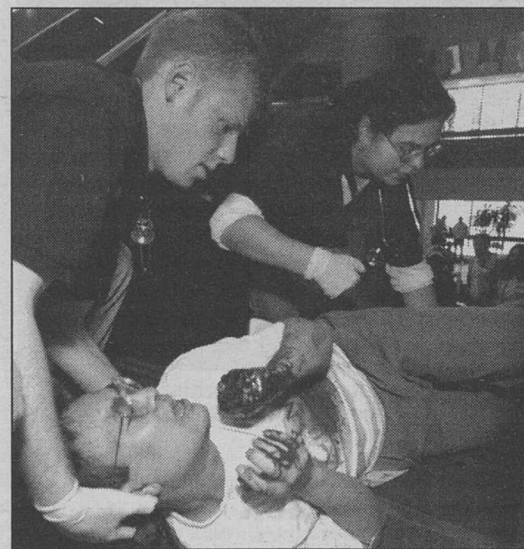
"EST is different, in many respects, from your basic Emergency Medical Service organization," said Justin Bachmann, EST's disaster co-chair. "The people we treat are colleagues — friends and fellow students. For them to trust us, we have to be very good at what we do. That's why we train so hard."

The earthquake drill put that schooling to the test. Lopata Hall is home to biomedical engineering labs, where strange chemicals and hazardous materials abound. Two EST medics entered one darkened room where two patients lay prone. A quick examination revealed the symptoms of irreversible carbon monoxide poisoning. Further taking in their surroundings, the two medics discovered a cluster of gas tanks and vacated. Time elapsed in

the room: 48 seconds. Time remaining until the medics themselves would become "casualties": 12 seconds. Test passed.

"In a disaster, there's a lot of things going on," Bachmann said. "It becomes chaotic. It's easy for things to get out of hand. Medics have to keep their composure or else everything could just disintegrate. That's why we train for this scenario. That's why we're ready."

— David Moessner



The EST's David Salvay and Nadya Rashkovetsy tend to an "injured" Todd Chang during an earthquake preparedness drill April 5.

SONGFEST 1998 offers music of four University vocal groups

SONGFEST 1998, a special concert featuring four vocal groups from the Department of Music in Arts in Sciences, will kick off at 6 p.m. Wednesday, April 29, in Graham Chapel. Refreshments will be available.

The concert will include performances by the Washington University Chorus, the Chamber Choir of Washington University, the Vocal Jazz Ensemble and the Black Composers Repertory Chorus. Each group will perform works from its own repertoire, then come together for a rendition of "Make Our Garden Grow" from Leonard Bernstein's "Candide."

The concert is the brainchild of Hugh Macdonald, professor and chair of the music department. "This is a first for the department," Macdonald said. "We have all these diverse choral groups on

campus, but they're always seen on different stages and by different audiences. I thought it would be beneficial, for both the singers and the audience, to let them overlap a bit."

SONGFEST 1998 parallels the annual Chancellor's Concert, which takes place Sunday, April 26, and brings together the University's Symphony Orchestra and the Chamber Choir.

The Chancellor's Concert will take place at 7 p.m. at the Saint Louis Symphony Music School, 560 Trinity at Delmar Avenue, University City. The program will include Francis Poulenc's "Gloria," Sergei Prokofiev's "Lieutenant Kijé" and music of Percy Grainger.

Both concerts are free and open to the public. For more information, call 935-4841.

Campus Watch

The following incidents were reported to University Police from April 13-19. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at <http://rescomp.wustl.edu/~wupd>.

April 14

8:57 p.m. — A student reported the theft of a bookbag from outside Olin Library. The contents were valued at \$310.

April 16

5:02 p.m. — A student reported the theft of an electronic dictionary, a CD player, a micro-cassette recorder and a set of

speakers, together worth \$490, from an unlocked office in Bryan Hall.

April 19

2:56 a.m. — An officer on patrol discovered graffiti scrawled on the brick and concrete on the top level of the South 40 parking garage.

6:10 p.m. — A visitor reported a

broken vehicle window and the theft of a purse from a Millbrook Boulevard parking lot during Thurtene Carnival. Contents were valued at \$3,300.

University Police also responded to three additional reports of theft, one additional report of vandalism, one report of assault and one false fire alarm.

University to confer six honorary degrees at Commencement — from page 1

associate at the National Institute of Mental Health (NIMH). After two years at the NIMH, Bloom went to Yale University, where he continued his lifelong research theme: understanding the chemical basis by which the anatomical connections in the brain function.

In 1968, he returned to the NIMH as chief of the laboratory of neuropharmacology. Bloom was one of the first neurobiologists to use modern molecular biological techniques in a search for molecules important to brain function



Floyd E. Bloom

and the characterization of brain-specific genes. Recognizing the value of computers in neuroscience, he pioneered their application to neuroanatomic investigations and the development of a neuroanatomic database. His work has been applied to many enigmatic disorders of the nervous system, such as addictive states, dementia and major psychoses.

In 1995, he was named editor-in-chief of Science magazine. A member of the National Academy of Sciences and the Institute of Medicine and a foreign associate of the Royal Swedish Academy of Science, Bloom has received numerous awards, including the Pasarow Award in Neuropsychiatry, the Janssen Award in the Basic Sciences and the Hermann von Helmholtz Award. He has served on the board of directors of the American Association for the Advancement of Science, the Science Advisory Board of the MacArthur Foundation and the Science Advisory Board of Massachusetts General Hospital.

August A. Busch III

August A. Busch III has earned a reputation as one of American industry's most effective executives. At the same time, he is recognized as one of the nation's leading corporate citizens for his long-standing community support.

Busch is chairman of the board and president of Anheuser-Busch Companies Inc., a \$13 billion St. Louis-based global corporation that includes the world's largest brewing organization, the second-largest U.S. manufacturer of aluminum beverage containers and one of the largest theme park operations in the country.

Busch started his career working in Anheuser-Busch's St. Louis brewery in 1957. Since then, he has worked in nearly every department of the company's brewing and operations divisions. Under his 24-year leadership, company beer sales have grown 159 percent, compared with industrywide growth of 34 percent.

As a brewmaster who is actively involved on a daily basis, Busch is deeply knowledgeable about all aspects of brewing, from the selection of raw materials to the scientific and technological details of brewing processes. As a marketer, he pioneered many of the strategies now standard in the industry.

Busch also has had a major role in the company's philanthropic activities, both in St. Louis and nationwide, promoting alcohol awareness efforts,

environmental conservation, educational opportunities and disaster relief.

A Washington University trustee for 10 years and now a John M. Olin School of Business National Council member, Busch has received numerous awards for his corporate citizenship, including the Equal Opportunity Award from the National Urban League for his efforts to expand social and economic opportunities for African Americans; the Silver Buffalo Award from the Boy Scouts of America, Scouting's highest recognition for volunteer service to young people; and the Great American Award from the USO in recognition of his support of the men and women of the U.S. armed forces.

Busch has been named one of America's "Most Admired CEOs" by Industry Week and one of the nation's top CEOs by Business Week.

Educated at the University of Arizona, Busch also studied as a brewmaster at the Siebel Institute of Technology in Chicago.

Lynne Cooper Harvey

Washington University alumna Lynne Cooper Harvey is the first producer ever inducted into the Radio Hall of Fame. The honor, bestowed last fall at Chicago's Museum of Broadcast Communications, highlights a career in which she has guided one of the industry's most popular and legendary personalities, her husband, Paul Harvey, and helped shape radio and television news formats. For more than 35 years, the program she produces, "Paul Harvey News," has been and continues to be first in audience ratings, reaching an international audience of more than 24 million people via some 1,400 ABC network radio stations and 400 stations abroad.

Lynne Harvey has been involved as a developer, producer, director, editor and writer of numerous innovative programs, including "The Rest of the Story," four-minute radio segments that reveal little-known facts behind stories of famous people and events; "Paul Harvey Comments," a nationally syndicated TV show that aired five days a week for 20 years; and "Dilemma," a TV show that became a prototype for today's talk-show genre.

In recent years, Harvey has taken episodes from "The Rest of the Story" and edited them to fit two other successful venues: a book series and video cassettes. In the late '40s, she suggested that her husband's news show be broadcast at 10 p.m. to take better advantage of adults' leisure time and thus gain a larger audience. That time slot soon became the national broadcasting standard for radio news programs. Harvey also created a television version of "Paul Harvey Comments," which was syndicated and aired on as many as 100 stations across the country from 1968 to 1988.

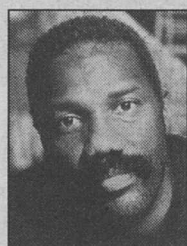
Active in community and philanthropic endeavors as well, Harvey serves on numerous charitable boards, including the National Committee to Prevent Child Abuse, the Infant Welfare Society, the Illinois Charitable Trusts and Advisory Committee, the Joffrey Ballet and the Children's Home & Aid Society. A dedicated alumna, she is a life member of the University's William Greenleaf Eliot Society and has been involved with the development of the University's

American Culture Studies program in Arts and Sciences.

Harvey, a Phi Beta Kappa who earned both a bachelor's and a master's degree in English in Arts and Sciences, received a Distinguished Alumni Award at Founders Day last year.

Ronald J. Himes

Ronald J. Himes is the founder and producing director of the St. Louis Black Repertory Company, which has developed a national reputation for staging quality productions from an African-American perspective.



Ronald J. Himes

Himes founded the company in 1976 while still a student at Washington University, graduating in 1978 from University College with a bachelor's degree in business administration.

Himes and the Black Rep soon began touring to other college campuses and, in 1981, found a home in the former sanctuary of Greely Presbyterian Church in north St. Louis City, which the company converted into a theater space and renamed the 23rd Street Theater. In 1991, after a multimillion-dollar renovation, the company moved into the former First Congregational Church building, located in the heart of the Grand Center arts and education district in Midtown, renaming it the Grandel Square Theatre.

Under Himes' leadership, the Black Rep has developed a strong local following, experiencing what the St. Louis Post-Dispatch calls "a magical state of growth," pointing out that "[The Black Rep's] audiences are willing to risk attending a play they never heard of, assured it will be backed up with a solid standard of acting." Himes, who also serves as an adjunct instructor in Washington University's African and Afro-American Studies program in Arts and Sciences, has produced and directed more than 100 plays at the Black Rep, including August Wilson's "The Piano Lesson" and the Black Rep's own "I Remember Harlem II." His acting credits include starring roles in "The Meeting," "When the Chickens Came Home to Roost," "Boesman and Lena," "Joe Turner's Come and Gone" and "I'm Not Rappoport."

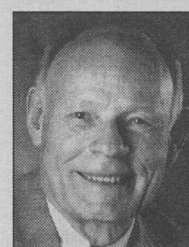
In 1994, he took the Black Rep's production of "The Meeting" to the John F. Kennedy Center for the Performing Arts in Washington, D.C. Respected both in St. Louis and nationwide for his contributions to the arts, Himes has served on boards, panels and advisory councils for a number of arts organizations, including the National Endow-

ment for the Arts, the John F. Kennedy Center, the Arts and Humanities Commission, the Missouri Alliance for Arts Education, the Lila Wallace/Reader's Digest Foundation and the Midwest African American Arts Alliance.

E. Desmond Lee

E. Desmond Lee has blazed entrepreneurial and philanthropic trails in St. Louis, giving tens of millions to not-for-profit educational, cultural, scientific and arts institutions in the metro area in creative and innovative ways. Aiming to enhance education, open opportunities for disadvantaged kids and improve the quality of life in the area, his gifts encourage collaboration among groups and individuals to bring out the best in all.

Among those benefiting from his generosity have been the Herbert Hoover Boys' & Girls' Club, Missouri Botanical Garden, Ranken Technical College, The Saint Louis Art Museum, St. Louis Science Center and his alma mater, Washington University. Lee came to the University on a basketball scholarship and was the team's center and leading scorer. He received a bachelor of science in business administration from the John M. Olin School of Business in 1940.



E. Desmond Lee

During his senior year, he and fraternity brother Jim Rowan and their fathers founded the Lee/Rowan Company, sparked by Rowan's father's creation of a wire pants-hanger. Their company produced pants-hangers, metal trouser-creasers and metal drying frames for socks, sweaters and gloves. Later, they began producing now common plastic-coated wire shelves and racks and selling them to newly developing mass marketers, including K-Mart, Target and Wal-Mart. Eventually the company manufactured 600 different products.

In 1993, with sales of \$130 million yearly, Lee sold the business to the Newell Company conglomerate of Freeport, Ill. Now, he says he's in the business of "making a positive difference in the community." A recent example of that business is his gift to the University to endow the E. Desmond Lee Professorship for Community Collaboration, which includes a scholarship fund and will rotate from school to school each year.

Lee also provided the seed money for the University's Total Quality Schools program, an experiential learning/consulting course in which business and social work students work with St. Louis-area public school students, teachers and parents to

address issues in the school environment by using Total Quality Management principles.

His many contributions have been recognized with numerous awards, including the business school's Distinguished Alumni Award in 1994, the St. Louis 1996 Man of the Year Award sponsored by the St. Louis Post-Dispatch and the University's 1997 Distinguished Alumni Award.

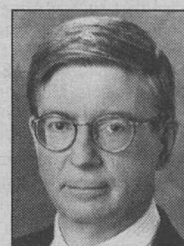
George F. Will

George F. Will's newspaper column has been syndicated by the Washington Post since 1974. Today it appears twice weekly in nearly 500 newspapers throughout the United States and in Europe. In 1976, Will became a regular contributing editor of Newsweek magazine, for which he provides the back page essay twice a month. In 1977, he was awarded the Pulitzer Prize for commentary.

Will is a television news analyst for ABC News, and from 1977 to 1984, he was a regular panelist on the network's "Aronsky & Company." In 1981, he became a founding member of the panel of the Sunday morning news program "This Week."

Six collections of Will's columns have been published, including "The Pursuit of Happiness and Other Sobering Thoughts" and "Suddenly: The American Idea Abroad and At Home, 1986-1990." The most recent, published in 1997, is titled "The Woven Figure: Conservatism and America's Fabric." Will also has published three books of political theory: "Statecraft as Soulcraft" (1993); "Restoration: Congress, Term Limits and the Recovery of Deliberative Democracy" (1992); and "The New Season: A Spectator's Guide to the 1988 Election" (1987). His 1990 book, "Men At Work: The Craft of Baseball," rose to No. 1 on The New York Times best-seller list. This May, a collection of new and previously published writings on baseball will be published under the title "Bunts."

A native of Champaign, Ill., Will received a bachelor of arts degree from Trinity College in Hartford, Conn., in 1962; a bachelor's degree in politics, philosophy and economics from Oxford University in 1964; and a master's degree and doctorate in politics from Princeton University in 1967. He has taught political philosophy at Harvard University, Michigan State University and the University of Toronto. From 1970 through 1972, Will served on the staff of the U.S. Senate. He was Washington editor of National Review magazine from 1973 through 1976. Will lives and works in the Washington, D.C., area.



George F. Will

Cynthia White appointed director of Sponsored Projects

Cynthia White has been appointed director of Sponsored Projects Services in the Research Office effective April 1, announced Theodore J. Cicero, Ph.D., vice chancellor for research. The position previously was held by Dorothy Yates, who joined the research administration staff at the University of Colorado-Denver.

In her new position, White will assist the faculty in applying for research grants and manage all Hilltop Campus awards and Medical Campus contracts.

White brings to the post more than 10 years of broad experience in research administration and a total of 18 years in university

administration. White most recently served as assistant director of the Division of Sponsored Research at Vanderbilt University.



Cynthia White

She is active in the National Council of University Research Administrators (NCURA) and is the immediate past chair of the organization's Southeastern region. White will be the national workshop coordinator for the NCURA's 1998 annual meeting.

White holds a master's degree in higher education administration from Vanderbilt (1981) and a bachelor's degree in sociology from Louisiana College in Pineville (1979).

"We are very fortunate to have someone of Cynthia's caliber join our institution in this important role," Cicero said. "Her background and philosophy are highly service oriented and team based, focusing on providing grants and research management services tailored to meet the needs of our customers: the research faculty. I think we all will be challenged and energized by her leadership in the research office."

Opportunities & personnel news

Hilltop Campus

Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130, at West Campus. Job openings may be accessed via the World Wide Web at cf6000.wustl.edu/hr/home. If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call our information hotline at 935-9836. Staff members may call 935-5906.

Research Assistant (part time) 980269.

Psychology. Requirements: bachelor's degree; research experience; computer experience, particularly word processing and spreadsheet management; ability to work well independently; ability to interact with adults and children and with individuals who have neurologic disorders such as Alzheimer's disease, stroke, epilepsy or cerebral palsy.

Catalog Librarian 980271. Olin Library.

Requirements: MLS from accredited library school; academic library cataloging experience with AACR2, LCSH and LC classification; knowledge of Marc formats, familiarity with NACO standards, experience with automated authority control, experience with online bibliographic utility and an integrated library system preferred; ability to work with foreign languages; ability to analyze problems and determine solutions; understanding of information needs of a research university; ability to work effectively in collegial manner in changing environment.

Administrative/Budget Assistant (part time) 980275. Financial Planning.

Requirements: high school diploma, two years successful college work preferred; one year of college accounting or bookkeeping, credit or equivalent experience; good PC skills in word processing, basic spreadsheet and graphics application skills; ability to become proficient in use of mainframe and computer base systems (e-mail and FIS); well organized; accurate; reliable; efficient; hard-working; productive; ability to handle multiple priorities and maintain confidentiality; ability to work independently and show initiative under general supervision; good grammar, punctuation and spelling skills; excellent verbal and interpersonal skills on the telephone and in person with visitors and all University contacts. Twenty hours per week; hours can be flexible.

Assistant Director Infrastructure 980278.

Computing and Communications. Requirements: some college; minimum five years experience; proven ability to design, program and install computer systems; ability to analyze and coordinate business processes and technologies in development of applications and installation and maintenance of operating systems; experience in technologies in numerous computing environments, OS/390, Novell, NT and VM preferred; knowledge of principles of computing sciences and business processes; project management skills; successful track record in technical management or university systems environment; leadership ability with imagination to guide systems development in new ways and manage complex processes; good interpersonal and communication skills; service oriented; willing to work flexible hours.

Executive Master's of Business Administration-Health Services Management Student Services and Programs Coordinator (part time) 980279. Business School.

Requirements: high school diploma, some college preferred; high quality customer service orientation; ability to interact with executive students and corporate clients; strong interpersonal and organizational skills; strong verbal and communication skills; ability to function in fast-paced environment and work under occasional tight deadlines; some weekend and evening availability.

Licensing Case Coordinator 980280. Center for Technology Management.

Requirements: bachelor's degree, master's preferred; attention to detail; excellent computer skills (PC Windows platform); communications skills; organizational ability; willingness to work as part of a team.

Financial Operations Supervisor 980287.

Housing/Residential Life. Requirements: bachelor's degree with a major in accounting; CPA and/or MBA preferred; minimum three years accounting experience; minimum two years supervisory experience; experience in Focus preferred; excellent communication skills, written and verbal; self-motivated and driven by challenge; ability to meet deadlines with varying degrees of pressure; knowledge of internal controls and various accounting system applications; ability to research and report upon accounting and other technical issues; ability to streamline and automate transaction processing and recording; ability to handle confidential information responsibly; experience with personal computers; proficiency in various software applications.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested should contact the medical school's Department of Human Resources at 362-7196 to request applications. External candidates may call 362-7195 for information regarding applicant procedures or may submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

User Support Technician 980654.

Requirements: associate's degree or two years technical training or experience in related discipline; training or experience in PC hardware and software technologies, including Windows 3.1, Windows 95, Office 95 and Lotus Notes; familiarity with TCP/IP and Windows NT, LAN technologies, modem and remote connectivity protocols; superior communication and personal interaction skills to interact with all levels of staff and faculty members. Entry level telephone support position. Responsibilities include assisting callers with computer problems and questions.

Secretary III 981144.

Requirements: high school diploma or equivalency with three or more years experience in medical office setting; ability to type and use various software processing packages to set up spreadsheet and report formats; knowledge of medical terminology; good communication and organization skills essential. Responsibilities include secretarial duties such as typing, dictation, scheduling meetings and making travel arrangements.

Systems Support Technician II 981157.

Requirements: associate's degree in computer science with two to four years experience; thorough understanding and knowledge of computer components and their interface requirements. Responsibilities include providing full range of desktop support services to end users; installing and maintaining computer software, printers and peripherals; troubleshooting, diagnosing and resolving problems; instructing end users on use of equipment; maintaining inventory records of equipment and computer hardware.

User Support Manager 981200.

Requirements: bachelor's degree or equivalent in computer science with five years related experience; supervisory and helpdesk experience; working

knowledge of varied hardware and software and related LAN equipment. Responsibilities include supervising and coordinating activities of team that provides support to computer users; analyzing, designing, implementing and maintaining optimum configuration of computer systems; performing routine and emergency maintenance on applications; hiring, training, supervising and evaluating performance of user support personnel; keeping current on developing technologies and recommending upgrades.

Associate Systems Manager 981276.

Requirements: high school diploma or equivalent.

Additional training and some college preferred; three to five years experience in information systems management; working knowledge of mainstream languages, databases, systems, operations and related applications. Responsibilities include installation, configuration and administration of all departmental personal computing systems; assisting systems manager in maintaining system performance, system security, hardware/software utilities and capacity planning; providing assistance with system configuration proposals and service requirements; installing, configuring and troubleshooting PC and Macintosh software and peripherals.

Q&A

Addressing employee questions concerning the University community

Q: Why can't employees deposit their pay checks into multiple accounts when using the University's direct deposit option?

A: While the University's payroll system allows only one bank account number per employee for direct deposit, there might be a way to set up the transfer of funds to multiple accounts by contacting your bank. Listed below are two options that employees can investigate:

Pre-authorized transfer of funds: You can set up an agreement with your bank to transfer funds (usually in specific amounts and on specific days of each month) into several accounts — checking, savings, credit union, money market and so on. These accounts can be located at your bank or at any other bank that participates in this type of program. Banks often provide

this service free of charge for customers holding personal accounts. It's usually as easy as visiting your branch office and filling out a request form.

Electronic bill payment:

Mortgage companies, utility companies and other creditors can set up an arrangement with you to allow them to access your bank account for payment of bills. A call to the creditor will let you know if they participate in such a program. If they do, they probably will mail you a form to complete and return to them giving them the authority to access your account. This service also is typically free of charge.

— Susan A. Wines, Manager, Shared Payroll Services

Questions that have broad appeal to the University community should be submitted to Betsy Rogers, Campus Box 1070. Questions will be answered by the appropriate administrators. Though employee questions will appear anonymously in the Record, please submit your full name, department and telephone number with your typed question. For information, call 935-6603.

Celebrating history and nature at Tyson — from page 1

University researchers and faculty and students from other local universities, colleges, elementary and secondary schools have benefited from research projects as well as field days that give city and suburban children experiences with nature and wildlife.

Tyson Research Center has a rich history, much of which is still visible. The site includes fifty bunkers, earthen "igloos" that blend surreally into the natural landscape. The bunkers contained ammunition and military equipment during the war years and were built into the earth to camouflage their contents from the air.

After the war, Tyson's swords were beaten into plowshares as the military post ceased operations and the site flourished instead as a natural area in the midst of incessant development on all of its boundaries.

"Today, Tyson is one of the best urban biological field stations in the country, with decades of data that help show the effects of metropolitan areas on the environment," said Owen Sexton, Ph.D., professor emeritus of biology in Arts and Sciences and Tyson's director. "We're holding the History Day to share the importance of Tyson with the greater St. Louis community and to appreciate the history that has contributed to making it such a unique place."

Lifeguards needed

Lifeguards are needed for the summer session at Millstone Pool in the Athletic Complex. The session lasts from May 18 through Aug. 21. Life Guard Training and CPR certification are required of all applicants.

For more information, contact Martha Tillman at 935-5296.

The military use was just one part of the site's history. Like the distinct layers of forest growth in Tyson's woods — the canopy of oaks, hickory, maples and walnut; the understory of redbud, dogwood, buckthorn and pawpaw; and the ground vegetation of wildflowers, grasses, moss and lichens — there are at least three distinct layers of civilization to be explored at Tyson.

The woods and open prairies are reminiscent of the pre-European-settlement era. On Tyson's western edge are remnants of a valley settlement called Mincke Village, a company town that existed between 1877 to 1927, including remains of stone and log houses, a school and the company store. History Day tours will visit the village and also the Quarry Cave where limestone was mined for agricultural lime. And then there are the bunkers, dating from the war years when the testing and firing of ammunition and tracers echoed throughout the hills at night.

Further back in time, little is documented about which American Indian tribes occupied central and southern Missouri. Senior Kandace Detwiler explored part of that subject for her thesis in anthropology, researching the extent of American Indian settlement in what is now west St. Louis County. She will be at History Day to talk about her findings.

Detwiler is one of numerous undergraduate and graduate students who are using Tyson to advance research interests. She and fellow senior Jenny Bohman analyzed the cores of three old white oak trees that grow in an open area of Tyson on ridge tops. Sexton and others long have wondered if their presence is related to the American Indians' use of fire in managing their

habitat. Detwiler and Bohman are using a special kind of mass spectrometry to determine the age of the trees and to detect trace elements.

Detwiler hopes to pinpoint the age of the trees to link them either to American Indians or to European Americans. The trace-element analysis also involves another project, this one in the environmental studies program: She hopes to determine the lead amounts in the trees to trace pollution from automobiles on nearby Interstate 44.

"It's been a great experience working at Tyson," Detwiler said. "It's a wonderful opportunity for students in sciences and the humanities to benefit from this great resource that the University owns."

Through History Day, Sexton hopes to make that resource more widely known.

"We've had the help of many volunteers who've worked hard and long to make this a special day," he said. "Our hope is that we can show everyone how Tyson was used in the past and give them an idea of the valuable ways it will be used in the future."

Admission is \$5 per carload and reservations are not necessary. Food will be available on the grounds. Tyson Research Center is located seven and a half miles west of Interstate 270 on Interstate 44 at Beaumont-Antire Road.

The event will be held rain or shine and is sponsored by the Tyson Research Center and the Friends of Tyson. Proceeds will go to academic research at Tyson and to the Tyson Field Science Program, which sponsors educational programs for area schoolchildren. For more information, call 935-8430.

— Tony Fitzpatrick

Broad choices in continuing education to be explored in brown bag seminar

Expand your horizons by finding out about options for continuing education at the brown bag seminar "Learning Choices in the Evening Divisions."

Two sessions of the free seminar are being sponsored by the Office of Human Resources from 12:10 to 12:50 p.m. Tuesday, April 28, in Training and Development Room B at 7507 Forsyth Blvd. on West Campus and Wednesday, April 29, in the Women's Building Formal Lounge.

The seminar will be led by University College in Arts and Sciences staff members Diane Willis, coordinator of undergraduate advising and student services, and Maria Hunter, academic adviser and financial aid coordinator. Willis and Hunter will discuss the multitude of educational opportunities available to University employees, strategies for success, tips for returning students, time management skills and financial aid resources.

University College offers

evening classes in more than 50 subject areas. In addition, evening programs are offered through Architectural Technology, the John M. Olin School of Business, the Fine Arts Institute, the George Warren Brown School of Social Work and the School of Engineering and Applied Science.

Full-time University employees receive a 50 percent discount on undergraduate tuition in the evening divisions. For graduate-level evening courses, full-time employees must be enrolled in a degree program and have departmental approval to receive the same tuition discount.

"As academic advisers, one of our greatest satisfactions is to witness personal and professional growth," Willis said. "It's true — returning to the classroom can change lives. It's amazing how quickly the world opens up, our vision expands, and we are transformed."

For more information on the seminar, call 935-6126.

Employees may adjust health plans

Now is the time to initiate additions, changes and terminations in health or dental-only coverage under the University's health insurance plans. The current open-enrollment period runs through May 15.

During this period, University employees may enroll in a plan, switch to a different carrier or plan without interruption of coverage, cancel coverage and add

or remove a dependent or domestic partner from coverage.

To do so, the appropriate forms must be completed and received by the Office of Human Resources by 5 p.m. May 15. For forms or to discuss enrollment options, contact human resources on the Hilltop Campus at 935-5907 or 935-5931 or on the Medical Campus at 362-9341 or 362-6961.