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Senior class president to stress community trust during Commencement

When Senior Class President Will Johnson steps up to the podium May 17 to deliver the student Commencement address, his message might well be summed up in words he used in a speech honoring Martin Luther King Jr.

"Trust me. Those are the words," Johnson said in a speech that was part of a 1995 student celebration of King Day. "Real change only happens when an entire community can speak *those words* together through its actions."

For more information on Commencement Week activities, see the Calendar on page 4.

By many accounts, a very similar message — bringing the campus community together in trust — has been a hallmark of Johnson's career in student leadership at Washington University.

"My goal in addressing the Class of '96 is to provide a sense of perspective — this has been four years of our life," Johnson said in a recent interview. "I'd like to convey my sense of great hope for this class. We are all capable of great things."

The University's 135th Commencement ceremony begins at 8:30 a.m. May 17 in Brookings Quadrangle. The University will bestow degrees on about 2,383 graduating students.

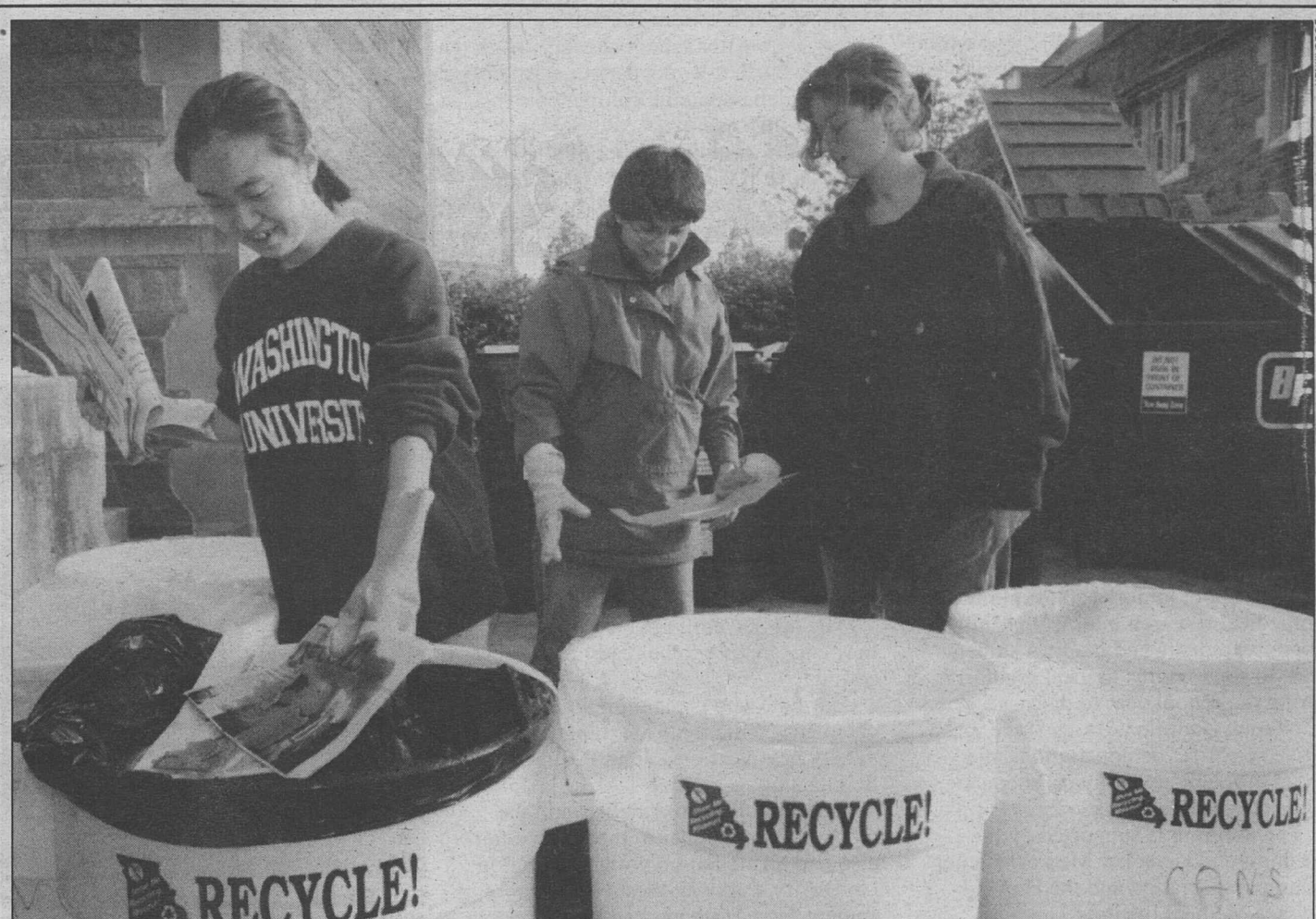
Ironically, Johnson will provide the farewell comments to a class of students with which he will not graduate. Johnson plans to spend his fifth year here writing a master's thesis in history, and he will graduate in the spring of 1997 with three Arts and Sciences degrees: joint bachelor and master's degrees in history and a bachelor's degree in comparative literature. He then hopes to teach high school for a couple of years before pursuing a law degree.

During the last four years at Washington University, Johnson has more than demonstrated that change is possible when students come together to improve the campus experience.

A native of Birmingham, Ala., Johnson became involved in student government during his first semester here. He was elected to represent his freshman residence hall before the Congress of the South Forty (CS40), a governing body that oversees services to residential students. He also served on three CS40 committees and attended Liggett Residence Hall Council meetings.

By his sophomore year, Johnson was representing three residence halls and was chairing a CS40 internal operations committee. As a member of the Residen-

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Trash audit

Sophomore Hiromi Ogiso, left, and junior Robin Zimble, right, sort recyclables with Almut Stephan, University coordinator of custodial services, during an April 30 trash audit at Simon Hall. The students, members of the campus environmental club Green Action, were auditing the Simon Hall trash to determine what could have been recycled instead of thrown away. For more information on this pilot recycling project, see the story on page 6.

'Giving something to society'

Students enroll in teaching program because they want to contribute

Every day, Jackie C. Mathews contributes to the betterment of society.

Mathews is a student in the Department of Education in Arts and Sciences' master's of arts in teaching (MAT) program. The full-time program, which spans an academic year and a summer, provides students with graduate study in their chosen field, courses on teaching, and student-teaching experience in local schools. Students may specialize in one of six areas: the classics, English, mathematics, modern foreign languages (French, German, Japanese and Spanish), the sciences (biology, chemistry, earth science and physics), or social studies.

Individuals enrolled in the program have recently received undergraduate degrees in the sciences, humanities or social sciences. Few have had formal courses in education before entering the program, but when the students graduate, they leave with certification to teach in public secondary schools in Missouri.

Mathews, who has a bachelor's degree in French from Georgetown University in Washington, D.C., just completed her student-teaching stint at Kirkwood High School. In addition, since last September, she has worked as a regular part-time French teacher at the school. She will receive a master's degree in teaching, with an emphasis in French, during Commencement on May 17.

"I just love teaching," Mathews said. "I feel like I'm doing something important — giving something to society. I have friends who are lawyers, and they make a lot more money. ... Not a day goes by that I don't feel like I'm doing something important."

"Teaching is an opportunity to take the future youth of our country and help them develop a certain attitude and outlook. That affects society as a whole. Teachers can be role models. When students see teachers who have chosen to be with them and are dedicated, it helps them have a really hopeful outlook as

adults. It makes a difference in their lives, the way they feel about themselves. With teaching, you have a real potential to make an impact."

The opportunity to positively affect young people's lives is a major reason many students join the MAT program. Debunking the myth that "those who *can't* teach," these students definitely could be pursuing other careers that are, in some cases, more profitable.

The MAT program traditionally has attracted students with strong academic credentials. However, for the last several years, their academic standing has been exceptional, said Marilyn M. Cohn, Ph.D., adjunct associate professor of education and director of pre-service teacher education.

For the fall of 1995, the average grade-point average for the 12 students entering the program was 3.43 on a 4.0 scale. For the 13 students who will be enrolled for the fall of 1996, the average

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The International Writers Center in Arts and Sciences creates book series to document its conferences

Board of Trustees elects officers, appoints six new members

At its meeting Friday, May 3, the Washington University Board of Trustees elected officers and appointed six new trustees. In addition, the board received the Project 21 report for the John M. Olin School of Business regarding its plans for the future. The report was presented by Trustee Sam Fox, chairman and chief executive officer of Harbour Group Ltd.

Chancellor Mark S. Wrighton, Ph.D., reported on recent activities at the University. Reviews of the year also were presented by students and faculty, beginning with a special report on a newly formed Undergraduate Team headed by under-

graduate student representatives to the board Allison O'Steen and Elsa Wentling, both seniors in Arts and Sciences. The graduate student report was presented by Lorrie Cranor from the School of Engineering and Applied Science. Highlights of issues considered by the Faculty Senate Council this year were presented by Gustav Schonfeld, M.D., chair of the council and the William B. Kountz Professor of Medicine.

On the recommendation of the nominating committee, the board elected the following six new trustees to four-year terms: John W. Bachmann, managing

partner, Edward Jones; Carl R. (Ray) Holman, chief executive officer, Mallinckrodt Group Inc.; Katherine B. Magrath, principal, ValueQuest Inc., Marblehead, Mass.; Craig D. Schnuck, president and chief executive officer, Schnucks Markets Inc.; Horace Wilkins Jr., president-Missouri, Southwestern Bell Telephone Co.; and Arnold B. Zetcher, president and chief executive officer, Talbots, Hingham, Mass.

Current trustees re-elected to four-year terms are: Raymond F. Bentele, retired president and chief executive

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Medical Update

Young scientists make strong showing at local science fair

Mentors in the Young Scientist Program at the School of Medicine are feeling particularly proud these days. Four out of 10 finalists in the 49th annual Greater St. Louis Science Fair are students under their tutelage. One of those high school students, Bart Bartlett, was a division winner and will compete in the International Science and Engineering Fair next month in Tucson, Ariz.

The three other finalists were Loan Tran, a Roosevelt High School student who worked with mentor Matthew Schreiber, an M.D., Ph.D. student; Norma Todd, a Gateway High School student who conducted research with the help of doctoral student Barbara Crippes; and Gateway High School student Susan Lewis, who was mentored by Sean R. Eddy, Ph.D., assistant professor of genetics.

A group of graduate students in the Division of Biology and Biomedical Sciences started the Young Scientist Program in 1991 to educate, focus and inspire St. Louis high school students interested in science. The program hosts 12 high school juniors each summer for biomedical research internships and pairs up graduate and medical students with 30 sophomores to meet regularly during the school year to discuss a scientific topic. Coordinators also take interactive scientific demonstrations and group problem-solving workshops to high school classrooms.

The program is supported by the Washington University Medical Center Alumni Association and the Howard Hughes Medical Institute.

"We wanted to make opportunities in science available to students from disadvantaged backgrounds, who often don't

have quality science education available to them," said Jim McCarter, a co-founder of the Young Scientist Program. The summer program, he added, now hosts students from city and county high schools.

McCarter has been Bartlett's mentor since 1995. After school at Metro High School, Bartlett works part-time in the genetics lab, where he completed a summer internship.

McCarter said a number of attributes distinguish Bartlett. "Bart is extremely hard-working and dedicated to his project. He's also displayed an ability to generate scientific hypotheses that is rare in a student his age."

For his project, Bartlett studied the muscle that surrounds sex cells in the nematode worm *C. elegans*. For 18 months, he spent 20 hours a week looking at the worms on lab plates. "Without the opportunity to work in the lab at the School of Medicine, there's no way I could have completed this type of project," Bartlett said. "The equipment I used and Jim's help were instrumental in allowing me to achieve the potential that the project had."

The lab's overall goal is to determine how eggs mature to be ready for fertilization.

Bartlett, who is planning to major in chemistry, will attend Washington University next year on a John B. Ervin Scholarship.

Another of the 10 finalists and the other division winner in the science fair also had an affiliation with Washington University. Parkway West High School student Jerry Ling worked last summer with Paul A. Schlesinger, M.D., Ph.D., associate professor of cell biology and physiology.

— Diane Duke



Bart Bartlett, a Young Scientist Program student and a division winner in the 49th annual Greater St. Louis Science Fair, explains his science project. Bartlett studied the muscle that surrounds sex cells in the nematode worm *C. elegans*. Four out of 10 finalists in the science fair were students in the School of Medicine's Young Scientist Program.

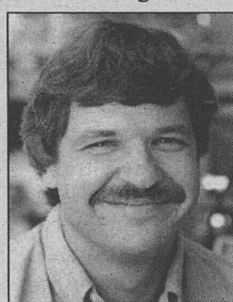
Investigators license novel nerve growth factor to Genentech Inc.

School of Medicine scientists have discovered a novel neurotrophic factor that eventually may prove useful for treating neurodegenerative disorders, such as Parkinson's and Lou Gehrig's diseases. The University recently licensed the growth factor, called neurturin, to Genentech Inc., a San Francisco-based biotechnology company.

Neurturin was identified in the laboratories of Eugene M. Johnson Jr., Ph.D., the Norman J. Stupp Professor of Neurology and professor of molecular biology and pharmacology, and Jeffrey Milbrandt, M.D., Ph.D., professor of pathology and of medicine. Their in vitro studies show that neurturin promotes nerve cell growth and protects some nerve cells against damage.

Neurturin's molecular structure is similar to that of glial-cell derived nerve growth factor (GDNF), another substance that preserves and restores some nerve cells. "The excitement is that neurturin is so closely related to GDNF," Milbrandt said. "There's a lot

of interest in GDNF right now because of its potential therapeutic applications for neurodegenerative diseases."



Jeffrey Milbrandt

that we've cloned neurturin, it will be easier to find the other growth factors in this family," he said.

They hope to identify other GDNF family members within the next six months, Johnson said. They filed a U.S. patent application for neurturin in 1995.

The team first detected neurturin activity almost four years ago when Paul Kotzbauer, a graduate student in Milbrandt's lab, and Patricia Lampe, a research assistant in Johnson's lab, were conducting experiments to investigate the survival of nerve cells. They found that neurons survived when grown in a solution collected from Chinese hamster ovary cells that were engineered to manufacture various growth factors. To their surprise, neurons also survived in

a solution collected from "control" Chinese hamster ovary cells, which presumably did not express growth factors. "It became clear to us that all these Chinese hamster ovary cells were producing a factor that allowed the neurons to survive," Johnson said.

The researchers spent the next two-and-a-half years purifying this protein. They recently spelled out neurturin's molecular sequence and cloned the gene.

Kotzbauer won the 1996 James L. O'Leary Prize for Research in Neuroscience at the University for purifying and cloning neurturin.

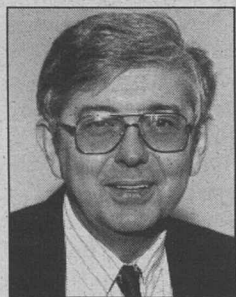
Johnson, Milbrandt and their co-workers now plan to produce neurturin in large enough quantities to supply it to Washington University colleagues who have animal models of neuronal injuries such as stroke and brain trauma. They also are working with Genentech on additional pre-clinical studies of neurturin.

E.J. Brandt, Ph.D., director of technology management in the School of Medicine's research office, negotiated the collaborative research and licensing agreement with Genentech. In the past six years, the University has seen a dramatic increase in the number of patent filings and industry-related

licenses and contracts. In 1995, University faculty filed for 32 U.S. patents and signed 43 new licensing agreements.

If you have questions about technology transfer or think your research may be of interest to biotechnology companies, please contact the School of Medicine's research office at (314) 747-0920 or the Hilltop's research office at (314) 935-5825.

— Caroline Decker



Eugene M. Johnson Jr.

of pathology and

of medicine. Their in vitro studies show that neurturin promotes nerve cell growth and protects some nerve cells against damage.

Neurturin's molecular structure is similar to that of glial-cell derived nerve growth factor (GDNF), another substance that preserves and restores some nerve cells. "The excitement is that neurturin is so closely related to GDNF," Milbrandt said. "There's a lot

Volunteers needed for hip fracture study

Researchers in the Division of Geriatrics and Gerontology are recruiting recent hip fracture patients for a study seeking to minimize hip fracture disability.

The principal investigator for the study is Ellen Binder, M.D., assistant professor of medicine. Binder said more than 200,000 older adults fracture hips every year. "Up to 80 percent of hip fracture patients do not have a complete

recovery," she said. "Many sustain permanent loss of independence, even after a course of physical therapy."

Study participants will undergo a specialized exercise program to determine whether exercise can prevent or minimize disability from fractures. Volunteers should be older than 65 and have sustained a hip fracture within the past three months. For more information, call Sue Leon at (314) 286-2700.

Medical Center Block Party set for May 16

The seventh annual Washington University Medical Center Block Party will be held from 11 a.m. to 2 p.m. Thursday, May 16, on Children's Place, near St. Louis Children's Hospital and the Clinical Sciences Research Building.

Food, games and entertainment will be provided for the staffs of Barnes-Jewish and St. Louis Children's hospitals and the School of Medicine.

For more information, call (314) 362-6825.

Record

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Washington

WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Petersen looks at the brain in action

In the file drawers of his mind, Steve Petersen keeps a folder labeled "Big Questions." The one he'd most like to crack is why your brain just focused on the words you read even though your eyes took in all the words on this page. Or why you tune in to one piece of gossip at a time even though all the conversations in the room come flooding through your ears.

Big questions keep Steven E. Petersen, Ph.D., associate professor of neurology and of radiology, away from the rest of his life — hard rock, softball, baseball, tennis. When he's not roller-blading with his teen-age son or watching movies with his wife, Bonnie, he's hatching ideas about the brain's higher functions — how the brain picks and chooses information, recognizes objects, distinguishes "Cat eats mouse" from "Mouse eats cat."

Big problems require big pieces of equipment, so Petersen uses a PET (positron emission tomography) scanner to probe the working brain. His images catch the brain in the act of thinking and suggest a master switch as well.

In 1970, Petersen went to the University of Montana in Missoula wanting to become a trial lawyer. But a freshman requirement diverted him from political science to anthropology, which demolished his small-town view of the human race. "Anthropologists were talking a lot about the evolution of the brain," he recalled, "but no one knew much about it. I was going to learn about the brain and revolutionize the discipline single-handedly."

In the neuroscience graduate program at the California Institute of Technology, he signed up with former anthropologist John M. Allman, Ph.D., to study the visual system of the brain. This landed Petersen a job in 1981 at the National Eye Institute (NEI) of the National Institutes of Health in Bethesda, Md., with David Lee Robinson, Ph.D. Robinson finds Petersen very bright but unpretentious, and he applauds his ongoing willingness to dirty his hands with lab experiments.

Making electrical recordings from single neurons in monkeys, Petersen and Robinson uncovered a function for a part of the brain called the pulvinar, which lies just beneath the cortex. "No one had any idea what the pulvinar did," said Robinson, chief of the NEI's Section on Visual Behavior in the Laboratory of Sensorimotor Research. "Our experiments showed that it is involved in selective visual attention. It becomes active when someone asks you to look at something in the periphery of your visual field, enabling you to see that object better."

In 1985, a Washington University neuro-ophthalmologist gave a seminar at the NEI on PET studies of rapid eye movements. Petersen immediately became excited by the technique's potential to explore higher brain functions. So when University of Oregon psychologist Michael I. Posner, Ph.D., asked him to move with him to Washington University, Petersen accepted the offer, glad to return to the west side of the Mississippi River.

When Petersen arrived at the medical school that July, Posner was impressed with his outgoing personality and active sense of humor. "He fit well with the St. Louis sports and music scene," he said. "He looks more like a Cardinals fan than a researcher."

The thinking brain

Posner and Petersen began to collaborate with a group led by Marcus E. Raichle, M.D., professor of radiology, of neurology and of anatomy and neurobiology. Using a technique that allowed them to obtain PET scans in rapid succession, they studied the parts of the brain involved in vision and language, a uniquely human talent. Before long, they had images of subjects seeing, hearing or speaking words. This was groundbreaking work, but Petersen was after "the spooky stuff" — pictures of the brain thinking. So someone in the group invented the generate verb experiment, in which a subject sees or hears a noun, such as "dog," and has to think of a related verb, such as "bark."

The generate verb images soon revealed a striking difference between a person just saying a noun he saw or heard and the same person coming up with a related verb. "We were jumping up and down," Petersen recalled, "because there seemed to be something going on in the cingulate, near the midline of the brain, and something huge in the left frontal cortex, on the side of the brain that does language."

As the data grew more convincing, the researchers wrote a 70-page manuscript, which they shrank to 10 pages. Published in *Nature* in 1988, the paper caused a big stir because neuroscientists previously had imagined a

with neurology research instructor Maurizio Corbetta, M.D., as lead author, illustrates this well. "When we tested some ideas we had put together, we got both expected and unexpected results," Petersen said. "It was a careful analysis of the unexpected data that really helped us understand what was going on. I think this is the best piece of work we've done."

The subjects had to compare two fleeting displays that followed each other on a computer screen. The displays showed moving, colored bars. The PET images revealed that a different part of the visual cortex becomes active when subjects compare the colors of the bars than when

they compare the shapes. Yet a third region switches on when they focus on how the bars are moving. "This implies that the brain contains a master control system, though direct evidence for such a system has been difficult to find," Petersen said. "But something seems to select information and shunt it to the color area or the shape area or the motion area of the visual cortex."

Robinson believes this study is one of Petersen's major contributions. "Behavioral experiments had shown that you can discriminate color better if that is the only thing you're looking for," Robinson said. "You don't do so well if you don't know whether the difference will involve color, shape or speed. Petersen's group showed how the brain pays attention to a particular attribute and which parts of the brain are used."

By this time, Petersen had assembled a talented group. Research associate Julie A. Fiez, Ph.D., has been working with him since 1988. "He has a well-developed sense of humor and definitely enjoys a good argument," she said. "But while he may state his opinion strongly, he's very open to changing his mind when presented with a clear and convincing counter-argument. Perhaps it's no coincidence that his lab is filled with so many stubborn people."

Learning and memory

During the past five years, the group has added research on memory and learning to studies of attention and language. One study identified an area on the left side of the brain that holds information in short-term memory as you silently repeat, say, a telephone number. Another found that the right prefrontal cortex jumps into action if you're asked to recall words you've previously seen. This study also showed that language-processing regions of the brain can be primed by prior exposure to a task.

A 1994 paper by Raichle's and Petersen's groups concluded that practice also changes the brain in a completely different way. "We found that several areas that are active when a person generates a verb from a noun become inactive after practice," Petersen explained. "And at least one new area becomes active. It seems that you switch to a more efficient route when you get familiar with a task."

PET images of a stroke patient recently added a new twist to the concept of alternative routing. The group scanned a 72-year-old man who had lost part of his left prefrontal cortex. Surprisingly, he could complete words if given the first three letters, even though he lacked one of the parts of the brain normally used for this task.

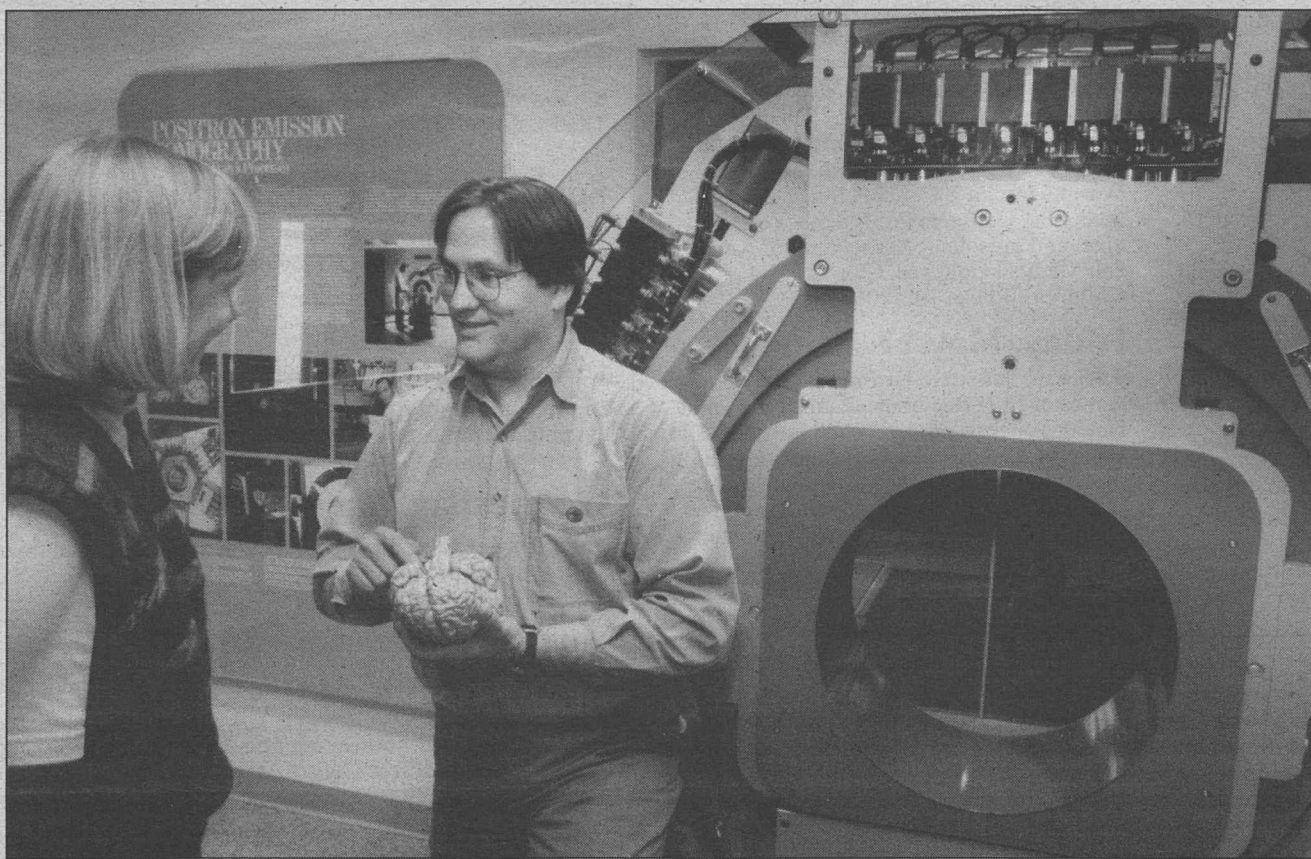
The images revealed that the man did the task with the right side of his brain instead of the left. He used the right prefrontal cortex, which normally remains quiet during the word-completion task.

"I had always thought that one of the ways the brain recovers from injury is by coming up with new ways of doing things," Petersen said. "This PET evidence clearly supports that idea."

Despite these advances, Petersen's "Big Questions" folder is bulging. He wants to know more about the brain's master control mechanism — "the little man inside the head." And he intends to move beyond experiments with single words to look at syntax and other aspects of grammar. Studies with word associations will help him approach semantics, he hopes.

"Before my career is over, I'd like to solve one of those hard problems," he said. "And once you get a handle on one, I think you'd be a good way toward solving some of the others."

— Linda Sage



Holding a model of the brain, Steven E. Petersen, Ph.D., discusses the cerebellum with Julie A. Fiez, Ph.D. On the right is one of the original PET imaging instruments built at the School of Medicine.

"Before my career is over, I'd like to solve one of those hard problems. And once you get a handle on one, I think you'd be a good way toward solving some of the others."

straight path from the place the brain takes words in to the place it puts them out. "Our results showed that language processing involves areas that are scattered," Petersen said. "These areas form two different pathways."

Educating the public

Petersen's horizons broadened in 1990 when he spoke at a workshop for local teachers. After requests for classroom appearances grew, he helped found a program for grade-school students called "Hands on Neuroscience." Still in existence, the program brings schoolchildren to the medical school and takes demonstrations to classrooms. "It's important for kids to see that science is a process and not a bunch of facts," Petersen said.

This exposure to teachers and to the journalists who interviewed him about the *Nature* paper made Petersen more aware of the need for public information. "I think scientists generally are bad at this," he said, "which is why people latch on to paranormal phenomena even though normal phenomena are just as interesting. Learning about science also makes people more skeptical and more likely to question authority, which I think is a very good thing."

Petersen himself is so skeptical that he originally ignored a message from the *Nature* editor who wanted to see the generate verb paper. And he thought a recent request to appear on the Donahue show was one of the practical jokes that fly around his lab.

Skepticism is a good trait, Petersen believes, because scientists constantly must question the status quo and remain skeptical as they test their ideas.

A study described in the June 1990 issue of *Science*,

Calendar

May 9-18



Exhibitions

"Currents 66." Paintings and collages by Michael Byron, visiting artist in the School of Art. Through May 19. Gallery 337, Saint Louis Art Museum. 721-0072.

"B.F.A. Show." Opening reception: 5-7 p.m. May 10. Exhibit runs through May 19. Gallery of Art, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-4761.

"The Stanley Elkin Show." Through May 31. Special Collections, Olin Library, Level Five. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5495.

"Core Show." Works by first- and second-year art students. Through May 10. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-5 p.m. weekdays; noon-4 p.m. weekends. 935-6500.



Lectures

Thursday, May 9

Noon. Molecular biology seminar. "Developing Molecular Genetic Systems for Histoplasma Capsulatum," William E. Goldman, assoc. prof. of molecular microbiology. Room 823 McDonnell Medical Sciences Bldg. 362-7367.

4 p.m. Biology and biomedical sciences seminar. "Chromosome Translocations: Dangerous Liaisons," Janet D. Rowley, the Blum-Riese Distinguished Service Professor of Medicine and prof. of molecular genetics and cell biology, U. of Chicago. Erlanger Aud., McDonnell Medical Sciences Bldg. 362-3364.

4 p.m. Chemistry seminar. "A Binary Code for Protein Design: Novel Proteins by the Dozen," Michael Hecht, assoc. prof. of chemistry, Princeton U. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Iron in the Earth's Core and Lower Mantle — From First Principles," Ronald Cohen, research geophysicist, Geophysical Laboratory, Carnegie Institution of Washington, Washington, D.C. Room 362 McDonnell Hall. 935-5610.

Friday, May 10

9:15 a.m. Pediatric Grand Rounds. The 14th Alexis F. Hartmann Sr. Lecture. "The Human Sex Chromosomes in Health and Disease, or Who Put the X in seX and whY?" Larry J. Shapiro, the W. H. and Marie Wattis Distinguished Professor and chair, Dept. of Pediatrics, U. of California School of Medicine, San Francisco. Clopton Aud., 4950 Children's Place. 454-6128.

4 p.m. Biology seminar. Biology for the 21st Century Lecture Series. "Signaling and Defense Gene Activation in Plant/Fungus Interactions," Klaus Hahlbrock, Max-Planck Institute, Germany. Room 162 McDonnell Hall. 935-6860.

4 p.m. Hematology lecture. "Hard Knocks to the Hemostatic Balance: Fibrinogen and Plasminogen Deficiency in Mice," Jay L. Degen, assoc. prof. of pediatrics, Children's Hospital Research Foundation, U. of Cincinnati. Room 8841 Clinical Sciences Research Bldg. 362-8806.

Monday, May 13

4 p.m. Biology seminar. "Modeling and Analysis of Biochemical Networks," Toni Kazic, instructor in biomedical computing. Room 322 Rebstock Hall. 935-6860.

4 p.m. Immunology seminar. "Mechanism and Control of VDJ Recombination," Frederick Alt, prof. of pediatrics and of

genetics, Harvard Medical School. Eric P. Newman Education Center Aud. 362-8740.

Wednesday, May 15

6:30 a.m. Anesthesiology Grand Rounds. Topic to be announced. Mark Haacke, prof. of radiology and director, Magnetic Research Imaging Laboratory. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Recent Advances in Assisted Reproduction," Rita Basuray, asst. prof. of obstetrics and gynecology and director, Advanced Assisted Reproductive Technology Laboratory. Clopton Aud., 4950 Children's Place. 454-7886.

Thursday, May 16

9:30 a.m. Medicine lecture. The Michael and Irene Karl Lecture. "Reforms in Medical Education: Lessons From the Real World," Jordan J. Cohen, clinical prof. of medicine, Georgetown U. School of Medicine, and president, Association of American Medical Colleges. Clopton Aud., 4950 Children's Place. 362-8065.

Friday, May 17

9:15 a.m. Pediatric Grand Rounds. "Outcomes of New Recommendations for Child Health Supervision: 'Bright Futures' or 'Dim Prospects,'" Robert A. Hoeckelman, visiting prof. of pediatrics; assoc. dean of planning, U. of Rochester School of Medicine and Dentistry; and prof. of pediatrics and nursing, U. of Rochester, New York. Clopton Aud., 4950 Children's Place. 454-6128.

Noon. Cell biology and physiology seminar. "Cell Migration and Axon Outgrowth in Early Cortical Development," Alan L. Pearlman, prof. of cell biology and physiology and of neurology and neurological surgery. Room 426 McDonnell Medical Sciences Bldg. 362-6950.



Miscellany

Friday, May 10

Summer School registration deadline. Your mailed or faxed registration for the Arts and Sciences 1996 Summer Session I (May 20 to June 7) must be received by May 10, or you may register in person through May 15 with an applicable late charge. Session I includes the following programs: African and Afro-American studies; anthropology; art; art history and archaeology; biology; drama; earth and planetary sciences; East Asian studies; economics; education; English; English literature; history; Japanese; music; philosophy; political science; psychology; religious studies; Spanish; and women's studies. For more info., class locations, or to register, call 935-6777. Fax: 935-4847.

12:30-5:30 p.m. Music workshop and seminar. "Miles Davis and American Culture II." Features a mix of critics, musicians and writers who will discuss the late Davis and his work. (Continues May 11.) West Campus Conference Center. 935-5216.

Monday, May 13

7-10 p.m. Continuing Medical Education conference. "Internal Medicine Review." The topic is neurology. Steinberg Amphitheater, The Jewish Hospital of St. Louis. To register, call 362-6891.

Thursday, May 16

3:30-5 p.m. Book signing. William H. Gass, the David May Distinguished University Professor in the Humanities and director of the International Writers Center, and Lorin Cuoco, assoc. director of the writers center, will sign the book "The Writer in Politics." Campus Bookstore, Mallinckrodt Center. (See story, page 6.) 935-5500.

Friday, May 17

7:30 a.m.-6 p.m. Continuing Medical Education conference. "Alzheimer's Disease and Driving." Continues 8 a.m.-noon May 18. Eric P. Newman Education Center. To register, call 362-6893.

Commencement Week

The following are activities scheduled during Commencement Week, which runs from May 9-17. For information, call the Commencement Hotline at (314) 935-4355.

Thursday, May 9

9 p.m. Freshman Floor Reunions. Visit your former floormates where it all began. Food provided by the Senior Student Association. Locations to be announced.

10 p.m. Last Rat Nite Ever. Dance with your friends and win prizes. The Umratshkeller.

Friday, May 10

5 p.m.-midnight. Loop Night. Enjoy senior-class discounts at area establishments in The Loop.

Sunday, May 12

7:30 p.m. Bedtime Story With Former Chancellor William H. Danforth. Finish your college-years the way they began — with a "Chan Dan" bedtime tale.

Monday, May 13

12:30 p.m. Senior Service Day. Spend the afternoon giving back to the community.

10 p.m.-midnight. (Until) Midnight Bowling. Take out last-minute frustrations on the pins at Tropicana Lanes, 7960 Clayton Road.

Wednesday, May 15

Noon. Day at the Zoo. Spend the day where the wild things are at the St. Louis Zoo. Refreshments provided.

Thursday, May 16

11 a.m. Eliot Honors Convocation. For honors students, family and friends. Field House, Athletic Complex.

2 p.m. School of Engineering and Applied Science recognition ceremony for undergraduates. Field House, Athletic Complex. Reception follows in Lopata Hall Gallery.

4:30 p.m. College of Arts and Sciences recognition ceremony. Field House, Athletic Complex.

8 p.m. School of Art recognition ceremony. Graham Chapel.

Friday, May 17 — 135th Commencement

8 a.m. Degree candidates assemble.

8:30 a.m. Commencement ceremony begins in Brookings Quadrangle.

The following programs begin immediately following the Commencement ceremony:

College of Arts and Sciences

Diploma distribution and reception near the southeast corner of Olin Library (outside); rain location: Women's Bldg. dance studio.

University College

Diploma distribution and reception in the Women's Bldg. Lounge.

Graduate School of Arts and Sciences

Hooding and recognition ceremony in Edison Theatre; reception immediately following in The Gallery and The Gargoyle, Mallinckrodt Center, lower level.

School of Engineering and Applied Science

Diploma distribution in Room 324 Lopata Hall; reception in Lopata Gallery and Lopata Plaza between Jolley and Cupples II halls.

School of Architecture

Diploma ceremony on the front lawn of Givens Hall; rain location: Steinberg Hall Aud. Reception immediately following in Givens Hall.

John M. Olin School of Business

Diploma ceremony in the Field House, Athletic Complex; reception immediately following in Simon Hall.

School of Art

Diploma distribution and reception on Steinberg Hall terrace; rain location: Gallery of Art, Steinberg Hall.

George Warren Brown School of Social Work

Diploma ceremony in Graham Chapel. Reception immediately following on the east lawn of Brown Hall; rain location: Brown Hall Lounge.

Program in Occupational Therapy

Reception in Holmes Lounge, Ridgley Hall; diploma ceremony immediately following in Graham Chapel.

The following programs begin at noon:

School of Law

Diploma ceremony in Brookings Quadrangle; rain location: Field House, Athletic Complex. Reception immediately following in Mudd Law Bldg.

Health Administration Program

Diploma ceremony in Moore Aud.; reception immediately following in the M. Kenton King Faculty Center, The Bernard Becker Medical Library.

The following program begins at 2:30 p.m.:

School of Medicine

The Senior Program in the Field House, Athletic Complex.

Students tackle nine community-development projects in St. Louis

Programs aimed at reducing child abuse, preventing teen violence and coping with high student-turnover rates at an elementary school are just a few of the real-world community projects that have been tackled this semester by students in an interdisciplinary community-development course at Washington University.

A cross-listed offering of the School of Architecture and the George Warren Brown School of Social Work, the "Creating Healthy Urban Environments" course puts students from various disciplines in small teams that are assigned to work directly with community leaders on specific neighborhood problems.

Designed to train students in neighborhood assessment and planning and provide hands-on experience working with neighborhood groups, the course is co-taught by John Robertson, Ph.D., assistant professor of social work, and Jerry Breakstone, affiliate assistant professor of architecture. Breakstone holds master's degrees in social work, architecture and urban studies.

Robertson focuses on social and economic factors that structure a community. Breakstone discusses the neighborhood as a physical space in which subtle changes in lighting, streets, buildings and other infrastructures can make important differences in the lives of residents.

The course began with an exploration of what is a neighborhood. Students examined how planning theory has impacted community development in the last two centuries and the role of institutions and leaders in neighborhood life,

especially how power is used to get things done. They also considered ways to empower residents who have been alienated or excluded from the community.

"The course is open to any student who has a serious interest in community-development issues," said Robertson. "We would like to make these teams as multi-disciplinary as possible."

Project teams this semester typically consisted of three or four social work students and one architecture or business student. The class took on nine community-planning projects in neighborhoods scattered across the north, south and central areas of the city of St. Louis.

For Donna Presley, a second-year master's of social work student, the biggest challenge of her project in the Shaw neighborhood of west central St. Louis was "getting all the neighborhood people to the table and finding ways to get them to work together." Presley's team worked with the Shaw Neighborhood Improvement Association on a plan to make neighborhood entryways more attractive to residents and businesses.

Carolyn Mecker, who is pursuing a joint master's degree in business and

social work, was part of a team that looked for ways to help Sigel Elementary School on the near south side deal with high student-turnover rates. Rental prop-

erties in the neighborhood change tenants so often that more than 80 percent of the school's students moved there within the last two years.

Richard Ayres, a junior in architecture, credits his experience conducting residential focus groups for the

Sigel project with helping him become more comfortable working with a diverse group of community residents and political leaders. Ayres, who plans to work in urban planning, said the course has left him much better prepared to deal with future clients.

"Students involved in these projects learn fairly quickly that these neighborhoods have complex problems that involve much more than housing stock and social issues," said Breakstone. "Each proposed improvement program must be carefully weighed in terms of political, legal and economic consequences."

The sometimes sensitive nature of these neighborhood challenges was exemplified by a project at the Sigel Elementary Community Education Center.

"Students involved in these projects learn fairly quickly that these neighborhoods have complex problems that involve much more than housing stock and social issues."

— Jerry Breakstone

Johnson to urge graduates to trust in the 'potential of good will and optimism' — from page 1

tial Student Advisory Board, he worked to improve telephone service and to provide quiet study lounges in residence halls. He also advocated student interest in healthier menu options and longer hours of food service and helped develop a proposal for a new student meal plan.

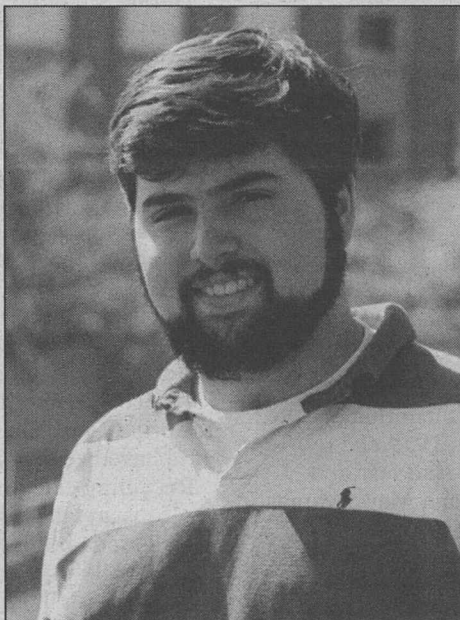
Johnson's abilities soon began to attract national attention. As a sophomore, he attended a four-day leadership conference as a Washington University delegate to the National Association of College and University Residence Halls (NACURH) and won first place in a national case-study competition. Students here elected him overwhelmingly as speaker of the CS40 for the 1994-95 school year.

"In terms of leadership, serving as speaker of the Congress of the South Forty has been the highlight of my time here," Johnson said. "The CS40 creates opportunities to be involved in so many different ways — as much, if not more than, any other organization on campus."

As CS40 speaker, Johnson pushed for the installation of cable television and computer-networking capabilities in residence hall rooms and for the creation of Helping Halls, a program to involve residence hall students in community-service activities. He also worked to

develop closer ties between the CS40 and Student Union through cooperative events, such as the 1994 CommUnity Rally, a pro-diversity student gathering held as a positive counter-balance to a Ku Klux Klan demonstration in Clayton. Johnson also coordinated the student response to a 1995 accident in which three students were injured in the collapse of a railing at Wohl Student Center.

Under Johnson's leadership, the CS40 became an award-winning organization on the state, regional and national levels. In 1995, the CS40 earned the "School of the Year" award from the Midwest Association of College and University Residence Halls. The CS40 also won the NACURH national case competition for the second



Senior Class President Will Johnson will deliver the student Commencement address.

year in a row and claimed the Office of Student Activities' Student Leadership Challenge Award.

In April 1995, Johnson was elected senior class president and took advantage of the opportunity to make a playful jab at low voter turnout among students. "I am thrilled to have the mandate of five percent of my class," Johnson told the student newspaper, Student Life.

He then went on to promise a senior class "town hall" meeting before the end of 1995 to find out what his classmates wanted in their senior years. Traditionally, the biggest responsibility of senior officers is the planning of the "Senior Week" celebration between the end of finals and Commencement.

Johnson has taken his role as class

A student team organized neighborhood information on a computerized geographic-information-mapping system that will be used in a pilot child abuse-prevention program.

Mandated by recent legislation in the Missouri Senate, the pilot program is designed to test the effectiveness of a new two-track system for the investigation of reports to child-abuse hotlines. The legislation passed in part as a response to a lobbying battle between two opposing groups — one seeking to curtail state intervention in family matters and another seeking to strengthen the state's child-protection system. The student mapping project has generated plenty of interest among state legislators, agency officials and community organizations, Robertson said.

The two-track approach refers high-risk child-abuse reports for immediate investigation, while placing lower risk cases in an assessment phase in which state agencies work closely with community groups to monitor situations and provide necessary social services.

The computerized neighborhood maps developed by student teams will help agencies identify areas with high incidences of reported child abuse. More importantly, it will provide hotline operators with a wealth of information about the nearest available source of social services, including data on hours of operation and the best bus routes to local social-service agencies, schools, churches, child-care providers and businesses.

— Gerry Everding

Future teachers find MAT program demanding and rewarding — from page 1

is even higher — 3.51. As far as scores on the Graduate Record Examination, the average score on the verbal section, which often is considered a strong predictor for success in teaching, was 531 for the fall of 1995, compared with 640 for the fall of 1996.

In determining who will be accepted into the program, the MAT Admissions Board looks closely at test scores and grades, as well as letters of recommendation. The board is made up of faculty from different disciplines in Arts and Sciences.

As further indication of the students' credentials, Cohn noted that several of them have been accepted into doctoral programs at Washington University and elsewhere but chose to teach because "they have a desire to influence young people. They feel like conducting research or teaching in a college is more abstract and removed from reality. They really want to be involved with students moment-to-moment, in more of a service/helping relationship."

Like Mathews, Trevor A. Payne views teaching as a stimulating profession that offers individuals a chance to contribute

to society. The Stanford University graduate and former law student will receive a master's degree in teaching, with an English emphasis, in August. He taught English at Kirkwood High School as a student-teacher and is working as a long-term substitute English teacher there until mid-May. Ironically, he is filling in for the teacher who supervised him when he student-taught.

"Teaching is one of the most challenging and demanding professions," he said. "You're involved in motivating young adolescents to learn; to want to excel; to achieve their own potential. You're inspiring kids, as well as teaching reading and writing."

After graduating from Stanford in 1993 with a bachelor's degree in English, Payne entered law school at Washington University that fall. After a year, he decided he did not want to pursue law, however, and began pondering what career path to follow. He considered advertising and public relations, but "I really loved English, and I felt that teaching would be a fulfilling career."

He believes most of the problems in society stem from people's inability to communicate, whether by written or oral

means. "My motivation in becoming an English teacher is that I believe if more people were better educated on how to read, write and communicate, society would be a better place," he said.

Both of the future teachers give the MAT program high marks. "It's the perfect program for me," Mathews said. "The teachers are fantastic. The classes have real substance. You can take a class on teaching methods at the same time that you're student-teaching. This allows you to take the theories that you've read about into the high school."

After graduation, Mathews will teach French at the Bryn Mawr School, an independent college-preparatory school in Baltimore.

Payne appreciates the University faculty supervisors and Kirkwood cooperating teachers who allow MAT students to make mistakes and learn from them as student-teachers. "They let you treat your mistakes as opportunities to do better the next time," he said. "They also acknowledge your successes."

For information, call (314) 935-6776.

— Carolyn Sanford

Edison receives \$5,000 NEA grant

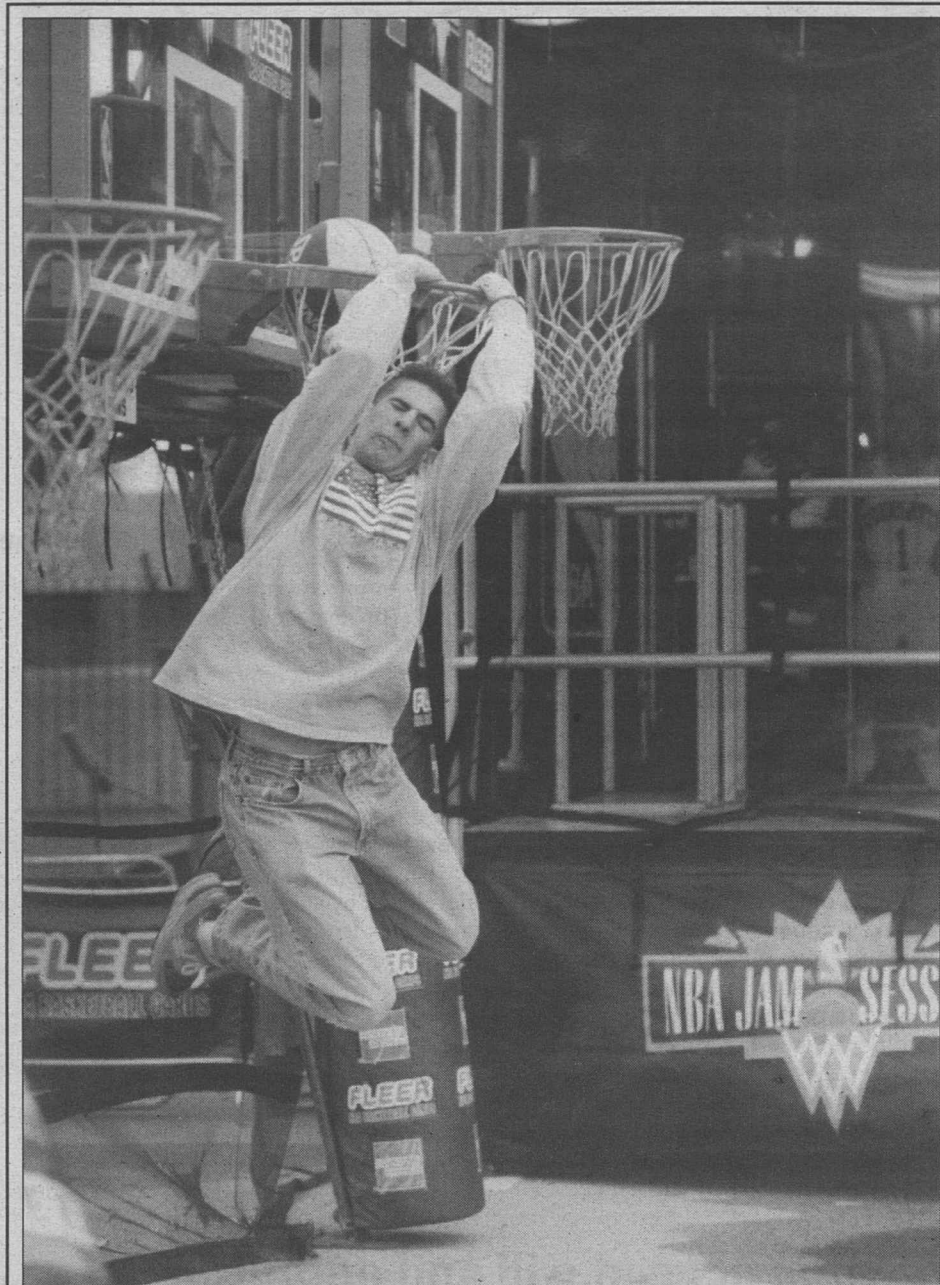
Edison Theatre has received one of the coveted — and perhaps final — grants awarded for arts programming by the National Endowment for the Arts (NEA), said Evy Warshawski, Edison's managing director.

"We are one of the few presenters in the country to get one," she said of the \$5,000 grant earmarked for programming in the 1996-97 "OVATIONS!" series. "This is a wonderful seal of approval."

This is the third-straight year Edison has received a grant from the NEA.

Warshawski said that because of recent federal budget cuts, the NEA has had to drastically reduce funding for arts groups and arts programming nationwide. This may be the last year the NEA is able to offer such a grant, she said.

The grant will be matched by Edison Theatre and will be applied to various costs involved in bringing almost 15 performing arts groups to St. Louis next season.



Jam session

Junior Lawrence Klein slam dunks — with authority — on an 8-foot-tall basketball goal during a campus visit by the NBA Jam Van on April 29. The van is actually a 67-foot-long semi-truck that opens up into a “theme park” offering visitors several basketball-related activities. The National Basketball Association’s van has been traveling around the country, making 80 stops at college campuses, malls and other sites. One activity allows participants to compare their hand and foot sizes with those of actual NBA players.

Writers center book series highlights conferences

The International Writers Center in Arts and Sciences has produced its first volume in a series of books that will document the proceedings of international writers conferences convened by the center.

Titled “The Writer in Politics,” the first volume features essays by a pre-eminent cast of six international writers who composed works for “The Writer in Politics” conference held at Washington University in October 1992. Published by Southern Illinois University Press, the book also includes the edited transcripts of panel discussions that followed the six major addresses.

The collection is edited by William H. Gass, Ph.D., the David May Distinguished University Professor in the Humanities in Arts and Sciences and director of the International Writers Center, and Lorin Cuoco, associate director of the center.

“We want to keep a record of the conferences,” Gass said of the center’s efforts to publish a book series that documents the center’s biennial gatherings of international writers invited to focus on a particular theme. “The papers and discussions — the general proceedings — were significant enough that we thought they ought to be placed in the public domain and not allowed to disappear.”

The center’s first international conference was divided into three parts: politics as material for the writers’ works, politics as a threatening power over the pen, and politics as a viewpoint held by writers.

Authors whose essays appear in the book are Breyten Breytenbach, a white South African and early critic of apartheid who was jailed for seven years before being exiled from his homeland; Nuruddin Farah, an exiled Somali author of several critically acclaimed novels; Carolyn Forché, an American poet who wrote of her experiences as a Guggenheim Fellow in El Salvador; Antonio Skármeta, a Chilean short-

story writer, screenwriter and novelist; Luisa Valenzuela, an Argentine novelist and journalist who fled the military regime of her country in 1979 and returned a decade later to find restored democracy a mockery; and Mario Vargas Llosa, a Peruvian novelist who founded Libertad, the political party under whose banner he unsuccessfully ran for president of his country.

“All of the contributors were deeply involved in the politics of the day,” Gass said. “At the time of the conference, the writer as an active political person was everywhere in evidence. Havel, the president of the Czech Republic, was a writer. Vargas Llosa was running for president in Peru. This was quite unusual.”

Panelists from the University included poet Eric Pankey, director of the University’s creative writing programs in Arts and Sciences, and Richard Watson, Ph.D., professor of philosophy in Arts and Sciences. Other panelists included Irish poet Eavan Boland and Palestinian-Israeli author Anton Shammas.

The book, said its editors, represents a unique treatment of conference proceedings. “We’ve included not only the papers and panel discussions but also the whole responses of the audience and ensuing discussions,” Gass said. “This was not your typical ‘Gee-I-have-a-question-for-you-here-is-the-answer’ sort of thing. The panel and audience were comprised of important people with interesting viewpoints. The discussions grew very heated.”

Gass and Cuoco will sign copies of “The Writer in Politics” from 3:30 to 5 p.m. Thursday, May 16, in the Campus Bookstore in Mallinckrodt Center. On May 22, they will be at Left Bank Books, 399 N. Euclid Ave., where Gass will read from his introduction at 7:30 p.m.

The series’ second volume, “The Writer and Religion,” which details the fall 1994 conference of the same title, is slated for publication next year.

— Cynthia Georges

Green Action conducts trash audits

While students in Simon Hall are busy crunching numbers, members of a campus environmental club have taken to auditing the business school’s trash.

Participants in the club Green Action are finding that one person’s trash is another’s treasure when it comes to recycling efforts at Washington University. Club members asked the Department of Facilities Planning and Management to launch a pilot recycling program at Simon Hall, and they’ve been looking through the trash to see how well the project is catching on.

Lauren Berger, a program leader with the student-run club, said the pilot has gotten off to a slow start, but she is hopeful the effort will be a success.

“It just makes sense to recycle, with all the environmental problems. It’s just so simple (to do),” said the sophomore who is majoring in social thought and analysis in Arts and Sciences.

According to the students, while the University has some recycling efforts throughout campus, the recyclables almost universally are not being separated correctly and are ending up in the trash. Green Action selected Simon Hall for the pilot because members thought it would be easier to focus on one school and one building.

As part of the pilot program, containers for recycling were distributed and information about the project was disseminated. The janitors also were trained to collect the recyclables from containers inside the building and take them to the appropriate containers outside. Faculty, staff and students periodically were reminded about the program and encouraged to participate.

During an initial audit of the building’s trash on March 20, the students found that almost two-thirds of the trash from public areas and offices could have been recycled but was not. The students literally sorted through the trash to determine what had been thrown away and what was salvageable.

“We collected six 32-gallon drums of trash, and of that, two were ‘real trash,’” said Almut Stephan, University coordinator of custodial services, who has been working with the students to spread awareness about the need for recycling.

A second audit of the building’s trash on April 30 revealed that 55 percent could have been recycled.

Recycling categories include: aluminum cans and glass bottles; No. 1 plastics (such as soda bottles); No. 2 plastics (such as milk jugs and TV-dinner trays); white and pastel copier paper; adding machine tape; carbonless invoices; Post-it notes; legal pad paper (with the cardboard backing removed); and newspapers and inserts (with wrappers separated out).

Non-recyclables include brown paper bags; brown envelopes; paper plates; Styrofoam and paper cups; magazines; and copier-paper wrappers.

Junior Robin Zimble, a Green Action member, explained that separating items properly is a key to the project.

“We have a large problem with contamination. People throw the wrong things in the wrong bins. If a bin is contaminated, it has to be all thrown out,” she said.

Currently, the University’s trash contractor does not charge to pick up the recyclable items but also does not credit the University for the value of the recyclables.

However, Stephan said that if the University could significantly cut down on the amount of waste going into the regular trash, it could save on its trash-hauling contract.

The group had hoped for better results in the trash audits, Stephan said.

“It seems like a lot of office people are still not recycling,” she said. “When I go through the offices checking on cleaning, I also look in the trash and see they’re still throwing good stuff away.”

A partial breakdown of items from the trash audits reveals much of what was being thrown out. Of the 119 gallons of trash in the first audit, 14.2 percent could have been recycled as cans and glass, 16.8 percent as office paper and 4.2 percent as newspaper. Of the second audit’s 89 gallons of trash, 13 percent could have been recycled as cans and glass, 17 percent as office paper and 7 percent as newspaper.

“We have seen a slight reduction in finding recyclable materials in the garbage. It is our goal to find less than 5 percent of recyclable materials in waste cans,” Stephan said. “All those recyclable materials can be used as resources to manufacture new products, and this will save landfill space.”

The audits also revealed that paper and Styrofoam cups made up between 14 percent and 18 percent of the trash, demonstrating the need for alternatives such as reusable cups, Zimble said.

Members of Green Action said the success of the program will depend upon people at all levels of the University getting behind it. Plans call for expanding the recycling pilot program to the Department of Psychology in Arts and Sciences and the George Warren Brown School of Social Work.

Zimble, majoring in Spanish in Arts and Sciences, said the effort must be long-term.

“People need to know why it is important; we have to make them want to recycle and then give them information on how to do it,” she said.

For information, call (314) 935-4472.

— Ann Nicholson

Campus Watch

The following incidents were reported to the University Police Department from April 22-May 5. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety-awareness on campus.

April 24

11:15 a.m. — A student reported that a cassette player was stolen from a vehicle parked in the South 40 garage.

4:01 p.m. — A student reported a stolen compact disc player from Lee Residence Hall.

April 26

2:45 a.m. — University Police responded to noise complaints regarding a fraternity party.

11:16 p.m. — A student reported being struck in the face by a person in Brookings Quadrangle.

11:24 p.m. — A student was arrested on a charge of disturbing the peace in Brookings Quadrangle. The student allegedly also confronted a University Police officer in an aggressive manner.

April 27

12:26 a.m. — A student reported being assaulted in Wydown Residence Hall by another student.

3:15 a.m. — A uniform jacket, hat and flashlight were reported stolen from Campus Police Headquarters. The jacket and hat later were found at Givens Hall in an envelope marked “Return to Campus Police.”

April 28

7:36 p.m. — A student was arrested for stealing a ladder from the law building construction site.

April 29

6:12 p.m. — A student reported being struck by another student in Rebstock Hall.

May 1

12:09 p.m. — A staff member reported stolen electronic equipment from Simon Hall.

12:42 p.m. — A staff member reported that a VCR was stolen from Simon Hall.

May 2

11:43 a.m. — A student reported that an ATM card was stolen from Mallinckrodt Center.

May 5

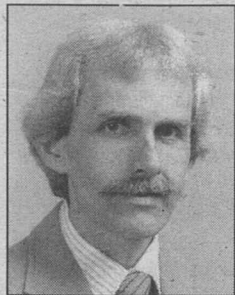
12:04 a.m. — A student reported being struck by another student in Liggett Residence Hall.

University Police also responded to reports of harassment at Eliot and Koenig residence halls; reports of vandalism at the Women’s Building, Olin Library and Duncker Hall and to a vehicle parked near Millbrook Square apartments; reports of theft at Liggett Residence and Eads halls; reports of stolen bicycles; and reports of stolen wallets.

Clifford Will to serve as Fulbright, Guggenheim fellow during 1996-97

Clifford M. Will, Ph.D., professor and chair of the Department of Physics in Arts and Sciences, is the recipient of both Guggenheim and Fulbright fellowships for the 1996-97 academic year.

Will, one of the world's leading experts in experimental tests of



Clifford M. Will

Einstein's theory of general relativity, will take a sabbatical for the year, spending six months at the Observatoire de Paris in Meudon, which is just outside Paris, and six months at the Hebrew University of Jerusalem. His research will focus on the theory of gravitational radiation from inspiralling binary systems of neutron stars or black holes.

John W. Clark, Ph.D., professor of physics, will serve as acting chair during Will's sabbatical.

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences, said, "These fellowships represent well-deserved recognition of Professor Will's significant contributions to the study of general relativity. He is an outstanding scientist and a world leader in his field. He also is an outstanding University citizen."

Guggenheim Fellows are appointed on the basis of unusually distinguished achievement in the past and exceptional promise for future accomplishment. Will is one of 158 U.S. and Canadian Guggenheim Fellows selected this year

from among 2,791 applicants. The list of new fellows includes poets, novelists, playwrights, painters, sculptors, photographers, physical and biological scientists, social scientists and scholars in the humanities.

The Fulbright Fellowship is awarded to those who have achieved impressive academic accomplishments, and its purpose is to increase mutual understanding between the people of the United States and the people of other countries by means of educational and cultural exchanges.

Will joined the Washington University physics faculty in 1981 and has been chair of the department since 1991. A member of the University's McDonnell Center for the Space Sciences in Arts and Sciences, he examines the observational and astrophysical implications of Einstein's general theory of relativity, including gravitational radiation, black holes, cosmology, the physics of curved space time, and the interpretation of experimental tests of general relativity.

Will's book "Was Einstein Right?" focuses on Einstein's theory of general relativity and the experiments designed to test it. Will won the 1987 American Institute of Physics Science Writing Award in Physics and Astronomy for the book, which was published in 1986 and has been translated into eight languages. The award is given annually for the best popular science book.

A native of Hamilton, Ontario, Will received a bachelor's degree in applied mathematics and theoretical physics in 1968 from McMaster University in Hamilton and a doctorate in physics in 1971 from the California Institute of Technology in Pasadena.

For The Record

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

Of note

Weili Lin, Ph.D., assistant professor of radiology at the School of Medicine's Mallinckrodt Institute of Radiology, received a \$791,233 four-year grant from the National Institute of Neurological Disorders and Stroke for a project on "Tissue Water Measurements of Brain Edema With Magnetic Resonance Imaging." ...

L. David Sibley, Ph.D., assistant professor of molecular microbiology, received an \$891,150 four-year grant from the National Institute of Allergy and Infectious Diseases for a project titled "Protein Secretion and Intracellular Survival by Toxoplasma."

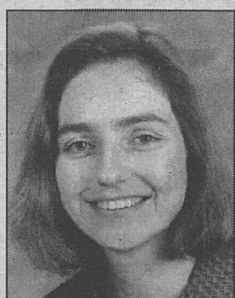
Speaking of

Mitchell S. Sommers, Ph.D., assistant professor of psychology in Arts and Sciences, and **Cynthia A. Yonan**, a graduate student in psychology, presented a poster on "Age Differences in the Effects of Talker Familiarity on Spoken Word Recognition" at the Acoustical Society of America's 130th meeting at the Adam's Mark Hotel in St. Louis.

Barbara N. Kunkel named Searle Scholar

Barbara N. Kunkel, Ph.D., assistant professor of biology in Arts and Sciences, is one of 15 chemical or biological researchers nationwide to be named a 1996 Searle Scholar. As a Searle Scholar, Kunkel receives \$180,000 over the next three years to support her research in plant genetics.

The Searle Scholars are all young scientists at the assistant professor level



Barbara N. Kunkel

who are nominated by their universities. Competition to become a Searle Scholar is very steep. This year, there were more than 160 applications. The finalists were chosen by a panel of 11 distinguished scientists.

The funds to support the awards come from trusts established under the wills of John G. and Frances C. Searle. John Searle was president of G.D. Searle & Co. of Skokie, Ill., a research-based pharma-

To press

Andy Clark, Ph.D., professor of philosophy and director of the Philosophy-Neuroscience-Psychology Program in Arts and Sciences; **Marilyn Friedman**, Ph.D., associate professor of philosophy in Arts and Sciences; and **Larry May**, Ph.D., professor of philosophy, edited a book titled "Mind and Morals: Essays on Ethics and Cognitive Science" published by the Massachusetts Institute of Technology Press of Cambridge, Mass., and London. They also wrote the introduction to the volume. In addition, Clark wrote a chapter on "Connectionism, Moral Cognition and Collaborative Problem-solving." Most of the chapters in the book were presented as papers at a conference on "Mind and Morals: A Conference on Ethics and Cognitive Science" at Washington University in 1994.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity, to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For more information, call Sanford at (314) 935-5293.

Obituaries

Virginia Minnich, professor emeritus of medicine

Virginia Minnich, professor emeritus of medicine, died of ovarian and colon cancer on Friday, April 26, 1996, in Pensacola, Fla. She was 86.

Minnich joined the School of Medicine in 1938 as a technician. She was promoted to professor of medicine in 1974 and was named professor emeritus of medicine in 1978. She

continued to work at the school until 1984.

In her honor, the Division of Hematology-Oncology is establishing the Virginia Minnich Memorial Visiting Professorship in Hematology. Contributions may be sent to the Division of Hematology-Oncology, 660 S. Euclid Ave., St. Louis, MO, 63110.

Chancellor, students, faculty deliver end-of-year reports to trustees — from page 1

officer, Mallinckrodt Inc., and Andrew C. Taylor, president, Enterprise Rent-A-Car Co.

Also elected to the board are the following former trustees who served from 1987 to 1995 and had gone off the board for a required hiatus year: Benjamin F. Edwards III, chairman, president and chief executive officer, A.G. Edwards Inc.; David W. Kemper, chairman, president and chief executive officer, Commerce Bancshares Inc.; Andrew E. Newman, chairman and chief executive officer, Race Rock International; and Ronald L. Thompson, chairman of the board and chief executive officer, Midwest Stamping Co., Bowling Green, Ohio.

Roma Broida Wittcoff, who has served since 1984, and William H. Webster, senior partner, Millbank, Tweed, Hadley and McCloy, Washington, D.C., who has served since 1974, were elected emeritus trustees.

The trustees re-elected the current slate of officers to serve for the 1996-97 year: William H. Danforth, chairman; Clarence C. Barksdale, vice chairman; John F. McDonnell, vice chairman; and William M. Van Cleve, vice chairman.

In his report to the board, Wrighton noted that undergraduate admissions was proceeding well, with total applications up 20 percent over last year and up 45 percent over two years ago. Other significant indicators that he reported included the fact that applications for minority students are up 30 percent over the previous year, as are applications from siblings and

legacies and from international students. Early decision applications improved 46 percent over 1994-95. He also noted that the University has received more than 100,000 inquiries from high school juniors vs. 75,000 at this time last year.

Among the other areas upon which he reported are the following:

- Plans for the first presidential debate on Sept. 25, which is a Wednesday, are taking shape, with the expectation that 50 national journalists and a large number of local members of the media will visit campus May 21 to review the facilities and arrangements for the event — for which as many as 2,000 journalists are expected, according to the Commission on Presidential Debates.

- The Commencement speaker on May 17 will be Jane Alexander, chairman of the National Endowment for the Arts. Also receiving honorary degrees will be: James E. Darnell Jr., M.D., a renowned molecular biologist and graduate of Washington University; Charles F. Knight, chairman, president and chief executive officer of Emerson Electric Co.; and Chia-Wei Woo, Ph.D., president of the Hong Kong University of Science and Technology and a University graduate.

- The School of Engineering and Applied Science will offer two new undergraduate biomedical engineering degrees in the fall — one for pre-medical students and the other for those interested in an accredited professional degree in the field.

- Updates on searches included the appointment of Owen Sexton, Ph.D., professor of biology in Arts and Sciences, as director of the Tyson Research Center. Wrighton also noted that the Advisory Committee to identify candidates for the new position of vice chancellor for research continues its work.

- The Department of Athletics completed its most successful year in NCAA postseason championship competition. The program is currently ranked No. 12 in the nation among all Division III colleges and universities in the Sears Cup Competition. If there were a ranking in the University Athletic Association, the University would be first.

- Wrighton also reported on his travel to more than a dozen alumni clubs and Eliot Society groups around the nation, on another successful year for Thurgood Carnival, and on the University's strong support of the St. Louis 2004 initiative.

In their reviews of the year, the undergraduate and graduate student representatives noted the following:

- O'Steen and Wentling reported on the initial activities of the Undergraduate Team, which is made up of 22 student leaders from the five undergraduate schools, student government, athletics, international student groups, fraternities and sororities, commuters and religious groups. Eight administrators also met with the team. This year, the team made recommendations on housing and residential life, safety and security, study abroad,

internships, student space and academic matters.

- Cranor reported on issues of concern to graduate and professional students, including orientation, student social activities, interaction with undergraduates, and health insurance. She also reviewed the work of a recently appointed committee known as the Professional and Graduate Student Coordinating Committee.

Schonfeld noted in his annual review that the Faculty Senate Council worked on developing new, updated policies on sexual harassment and on consensual relationships. These new policies will be published and distributed to faculty and staff before next fall.

The trustees also received regular reports from the Alumni Board of Governors and from the Audit; Compensation; Development; Educational Policy; Student Affairs; and Hilltop and Medical Financial committees.

Hilltop faculty member receives promotion, tenure

At the Friday, May 3, meeting of the Board of Trustees, the following faculty member was promoted with tenure on the Hilltop Campus, effective July 1.

Promotion with tenure

Carl Phillips to associate professor of English and of African and Afro-American studies in Arts and Sciences.

Opportunities & personnel news

Hilltop Campus

The following is a partial list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling (314) 935-5990.

Sales Associate 960234. *Campus Stores.* Requirements: high school graduate; good customer relations; ability to lift and display merchandise; organized; flexible; cashiering experience; ability to work evenings and weekends. Application required.

Administrative Aide 960235. *Arts and Sciences.* Requirements: familiarity with computing; detail-oriented; team player; friendly, service-oriented and patient. The administrative aide supports the work of the Office of the Executive Vice Chancellor and Dean of Arts and Sciences. The administrative aide also supports the work of other members of the office, including the associate deans, the director of business operations and the senior analyst. The office is highly team-oriented with the members working together to conduct the business of Arts and Sciences. The administrative aide will work closely with the administrative assistant II; each person is expected to fill in for the other when necessary. Application required.

Government Grants Senior Specialist 960236. *Sponsored Projects.* Requirements: high school graduate; some college preferred; ability to process a large volume of reports in a timely manner; ability to understand government guidelines and interpret proper actions; excellent oral and written communication skills; ability to work independently; accuracy; reliability; ability to interact with a large number of University personnel in administering public-health-service grants (answering questions, interpreting guidelines); ability to interact with government auditors during performance and annual A-133 (government guidelines) audits. Application required.

Alumni Relations Director 960237. *Consortium for Graduate Study in Management.* Requirements: bachelor's degree in business or related area; advanced degree is desirable; two to three years experience working with alumni at a college or university is desirable; experience working with corporate sponsors and fund-raising; ability to work effectively with administrators, staff and members of the board of directors; ability to coordinate events; ability to work with and train volunteers; superior oral and written communication skills; computer literacy with skills in database utilization, spreadsheet analysis and word processing; willingness to organize alumni volunteers; ability

to develop and implement a new interview process for potential fellowship applicants to the consortium; genuine commitment to the advancement of minorities in management; willingness to travel. Application required.

Department Secretary 960238 and 960239. *Alumni and Development Programs.* Requirements: high school graduate; strong command of the English language; ability to deal with multiple priorities with minimal supervision; ability to work over-time, including nights and weekends; good personality; good grooming. Application required.

Director of Compensation 960240. *Human Resources.* Requirements: master's degree in human resources management and/or master's degree in business administration; professional certification; 10-plus years experience in designing and communicating compensation programs; strong knowledge of incentive compensation principles and practices; ability to design, administer and communicate compensation programs for the staff and administration of the Hilltop Campus. Responsibilities include providing generalist human resources support to a designated customer base; conducting wage and salary surveys; establishing wage and salary structures; determining pay policies and guidelines; and facilitating job design and position evaluation.

Area Coordinator - Residence Halls 960244. *Office of Residential Life.* Requirements: bachelor's degree; master's degree in higher education or related field preferred; ability to communicate effectively with students, faculty, administrators and parents; ambitious; responsible; ability to work effectively both as a team member and independently; initiative; creativity; enthusiasm; commitment; excellent program-coordination skills. Special consideration given to those with residence hall and student affairs experience. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at (314) 362-7197 to request an application. External candidates may call (314) 362-7195 for information regarding application procedures or may submit a résumé to the human resources office located at 4480 Clayton Ave., Campus

Box 8002, St. Louis, MO, 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than human resources.

Medical Research Technician 960762-R. *Anesthesiology.* Requirements: bachelor's degree with laboratory course in chemistry or biology, or three years experience in a biology research lab or related field. Responsibilities include conducting experiments and performing small-animal surgery and data work-up and analysis. Schedule: part-time, 20 hours per week.

Library Assistant 960799-R. *Library.* Requirements: high school graduate or equivalent; some college preferred; supervisory experience preferred. Responsibilities include daily operation of document delivery, interlibrary loan and photocopy services and supervising and coordinating personnel and work performance in the division.

Assistant Supervisor Lead IBC 960849-R, 960850-R. *Washington University Shared Billing and Collection Services.* Requirements: two years experience with billing, insurance or collection,

preferably medical; working knowledge of IDX, BAR and PSC applications; understanding of computerized billing systems; supervisory capabilities; ability to communicate effectively; familiarity with ICD-9 and CPT-4 preferred. Responsibilities include assisting with the supervision of insurance collection staff; training staff to perform daily job functions; assisting staff with daily operational issues; and monitoring daily work flow within a designated area.

Nurse, RN Staff 960867-R. *Obstetrics and Gynecology.* Requirements: graduate of an approved school of nursing; current Missouri license; one year related experience preferred. Responsibilities include providing uro/gynecology assistance for medical practice.

Medical Assistant 960892-R. *Obstetrics and Gynecology.* Requirements: high school graduate or equivalent with medical assistant training or experience in related setting; medical assistant certification preferred. Responsibilities include assisting physicians in medical office procedures, phlebotomy, obtaining vitals, and preparing patient rooms for examinations.

New performance-evaluation program to be introduced in upcoming fiscal year

As a result of recommendations made by the University Management Team, the Office of Human Resources has designed a Hilltop Campus-focused performance-evaluation program for non-academic personnel that will be introduced for use beginning with the upcoming fiscal year.

"The University Management Team indicated that they felt the University should have one performance-evaluation program and that the program should include a goal-setting component," said Ann B. Prenatt, director of employee relations in human resources.

With guidelines from the University Management Team in hand, a committee appointed by then-Chancellor William H. Danforth took the challenge. During the course of a year, the performance and evaluation goal-setting committee investigated current internal evaluation practices, as well as solicited information from external sources.

In June 1995, the committee presented its final recommendations. These included the need to have a core annual performance-evaluation program with developmental and self-assessment components and training sessions for supervisors.

These recommendations, coupled with the University Management Team's guidelines, formed the base upon which human resources began to build an evaluation plan, said Prenatt.

A three-month test pilot program that represented a cross-section of departments and employees on the Hilltop Campus was launched in January. The School of Engineering and Applied Science, University Libraries and the Department of Facilities Planning and Management participated.

The pilot program was designed to introduce the performance-evaluation program concepts, offer manager training, simulate evaluation sessions between supervisors and their staffs, and elicit feedback necessary to refining a new program.

Training sessions for University supervisors outside of the test group now are being offered by the training and development staff of the Office of Human Resources. This training focuses upon the fundamentals of performance management and introduces the concepts of the new performance-evaluation program. Supervisors should attend.

The performance-evaluation program is designed to be a core program that encourages a collaboration between the supervisor and staff members, focuses upon not only what needs to be accomplished but how responsibilities are to be accomplished, and allows supervisors to add performance criteria where desired.

Health plan open enrollment ends May 15

Wednesday, May 15, is the deadline for the open-enrollment period during which Washington University employees may make additions, transfers or terminations to their health or dental-only insurance plans.

With the exception of family-life events — such as marriages, births, divorces or deaths — this is the only time of the year during which employees may initiate changes to the health insurance plans. Copies of the "Health Insurance Open Enrollment" brochure were mailed to eligible employees.

In addition, employees are encouraged to think about planning and saving for

their retirements. Employees eligible to participate in the University's retirement plan should consult the "Retirement Annual Enrollment" brochure that was mailed to them.

Unlike the health plan, there is no open-enrollment period or deadline for enrolling in or making changes to your retirement plan. However, an Internal Revenue Service rule limits changing your contribution percentage to one time per calendar year.

For questions, forms or to make an appointment regarding the health insurance or retirement plans, call the benefits office on your campus.

University's Faculty Senate approves policies on sexual harassment, consensual relationships

The Faculty Senate on April 22 approved a revised and expanded sexual harassment policy for Washington University and a new policy regarding consensual relationships between members of the faculty and staff and students.

The approval by the Faculty Senate means both have become official University policies. Both policies will be printed in full in the Record at the beginning of the 1996-97 academic year.

Gustav Schonfeld, M.D., chair of the Faculty Senate Council, which is the executive arm of the Faculty Senate, said the sexual harassment policy was revised and expanded to make it more of an educational tool.

"The idea is to make prevention the mode in which people learn what sexual harassment is and don't engage in it," said Schonfeld, the William B. Kountz Professor of Medicine.

Gloria W. White, vice chancellor for human resources, said the policy includes an expanded definition of what sexual harassment is. The policy also outlines the informal and formal procedures for handling sexual harassment complaints.

"The new policy is an opportunity to educate and consequently eradicate sexual harassment," White said.

Under the revised and expanded

policy, there will be two coordinators, one each on the Hilltop and Medical campuses, and six advisers, three each on both campuses. The policy documents include their names and telephone numbers. These individuals will assist the University in efforts to eliminate sexual harassment from the campuses.

In addition, various schools and Central Fiscal Unit departments on the Hilltop Campus have appointed persons who will act as resources for those with concerns and questions. The names and telephone numbers of these persons may be obtained through the Hilltop's Office of Human Resources.

The coordinators, advisers and others mentioned above will help provide services that include clarification of the sexual harassment policy, suggestions to stop unwanted behavior, interviewing of complainants and providing general support to the University community.

Schonfeld said the new consensual relationship policy governs consensual relationships between members of the faculty and staff and students.

"It strongly discourages relationships between faculty and students and between staff and students — especially when there is a power relationship present," Schonfeld said.

Q&A

Addressing employee questions concerning the Washington University community

Q: What is the University policy in filling vacant positions and in professional-development opportunities?

A: Generally, positions are announced within the department or school before being posted throughout the University. Employees from within the department or school should inform the dean, director or department head of their potential interest in a vacant position. Once the dean, director or department head evaluates the qualifications of departmental candidates, a

decision is made whether to post the position Universitywide and to advertise externally. While we strongly encourage internal promotion, to facilitate the best hiring decision, it is left to the discretion of the dean, director or department head to determine whether a wider search is necessary.

— Gloria W. White, vice chancellor for human resources

Submit questions about the University, which have broad appeal, to Q&A, c/o Michael Slatin, Campus Box 1070, or p72245ms@wuvmd.wustl.edu. Questions will be answered by the appropriate administrators. Though employee questions will appear anonymously in the Record, please submit your full name, department and phone number with your typed question. For information, call Slatin at 935-6603.