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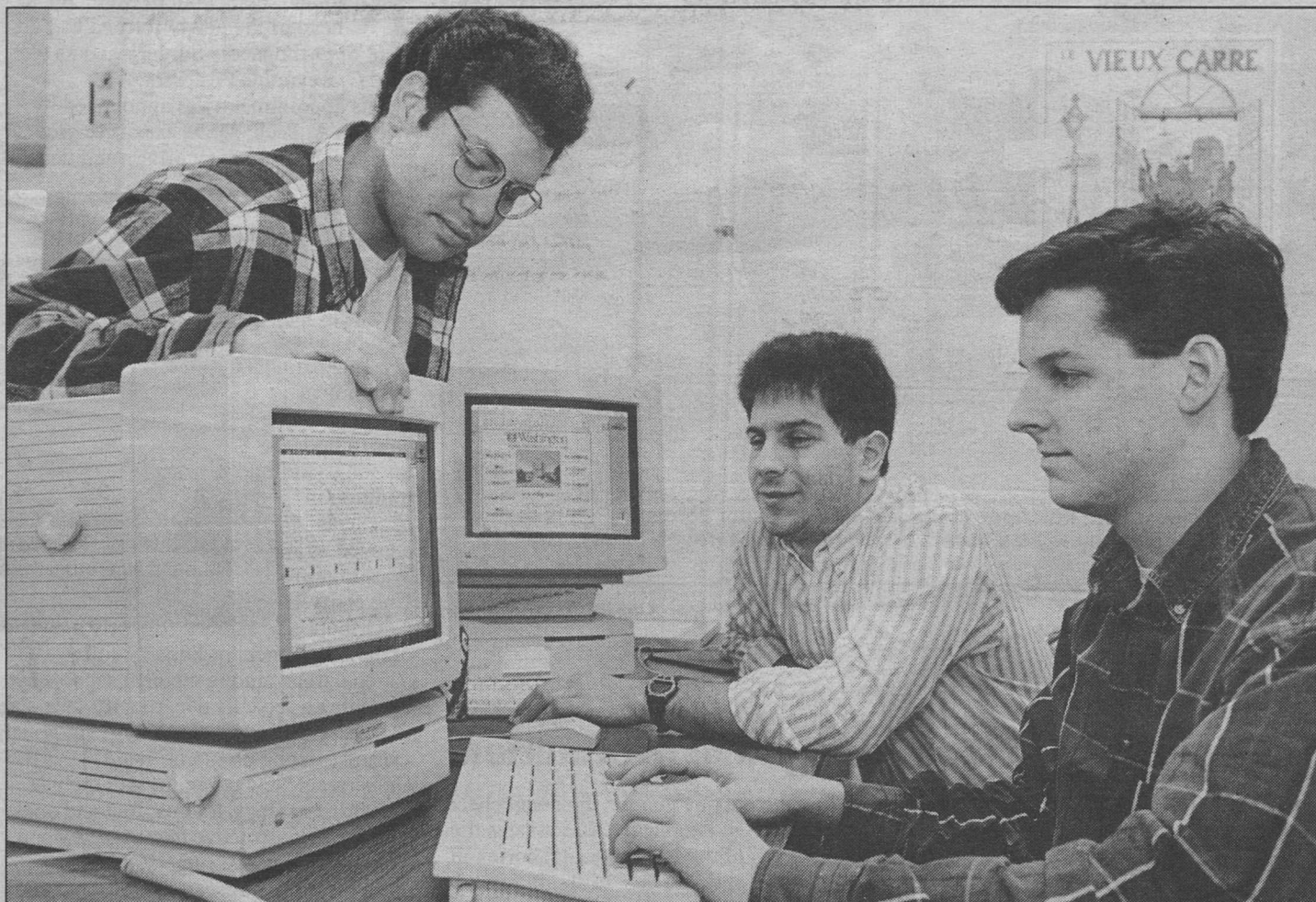
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MS SAMUELA KOYFMAN
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From left, students Jonathan Pollack, Brett Adler and Jason Kint designed a home page on the Internet that serves as a central resource for fellow students. By the end of February, all campus residence halls will be connected to the information superhighway.

Campus connection

Residence hall rooms wired, students take inaugural spin on network

The information superhighway has intersected Forsyth Boulevard and cut straight through the South 40. With a few strokes of a computer keyboard, Washington University students can read books in the Library of Congress in Washington, D.C., tour art galleries in New York, order a pizza in St. Louis and converse with a professor across campus without setting foot outside.

All of this is made possible through the Internet, a computer network that connects campus classrooms, computer labs, offices and residence halls to each other, and to the world at large. The Hilltop Campus north of Forsyth Boulevard has been "on-line" for several years. Last summer crews dug the trenches and laid the lines to connect the South 40 to the vast network.

Most residence halls were connected during the fall semester and, this spring, students are lining up to have their individual rooms wired.

"The last two residence halls are scheduled to be connected by the end of February," said Kathy Atnip, associate director, Student Computing Services. "For students without their own computers, there are 24-hour computer clusters that provide Internet access. And now any resident who owns a computer can request Internet access directly from his or her room. This pilot phase of our in-room connection project has been crazy and we've been processing in-room connection requests at breakneck speed."

The process of becoming "wired" is three-fold. First, a student must have the proper hardware. For \$25 a semester, students can rent the "Ethernet card" from the Campus Computer Store or they can purchase a card.

Second, students must fill out an application to be connected. The student's name is entered into a database and he or she is assigned a network address. Network connections are available to students

at no charge during the pilot project. Next year students will be charged a \$110 fee for a room connection.

During the final step, students test their new software, take an inaugural spin on the Internet, and refer any problems and questions to a Residential Computer Consultant (RCC), one of many students who live in the residence halls and make themselves available to rookie users.

"The RCCs teach them the basics, how to use e-mail and what the World Wide Web is all about," Atnip said. "They also teach them all the neat stuff, including how to publish their own information on the Internet in a personal page. The information flows smoothly because the RCCs

are students themselves and they know what other students are interested in." Residential Computing also hosts a series of late-night training sessions, called "Network 101," on the South 40.

Students in each school have access to e-mail accounts. Through information sessions and one-on-one training during an RCC's "office hours," students are introduced to the myriad other possibilities available through the Internet.

"Some students' first reaction is 'Gee, I'm going to have an Ethernet. What's that?'" Atnip said. "And some students are telling us about the wonderful new ways to use the network. They really keep

Continued on page 6

Students design home page on Internet

A mathematics major, a business major and a future computer science major have teamed up to design a Washington University home page on the Internet that is drawing the attention of users from as far away as France. Although it is available to anyone with access to the Internet, the page's creators say the "For Students By Students Home Page" was designed primarily as a central resource for Washington University students.

"We've received feedback from other universities, like Johns Hopkins," said Jason Kint, the junior mathematics major and computer science minor who oversaw production of the student home page. "Western Michigan wanted us to design a page for them. We declined. Students in France discovered one of our student groups, the Catholic Student Association, through the page and have communicated with them. But this was really designed for the use of our students here."

Earlier this year, the Student Union leadership asked Kint to design a program that would make information about the myriad student activities at Washington

University more accessible to the campus community. Basing his design on that of the White House's home page, Kint began the gargantuan task of collecting and programming information about each of the some 165 student organizations on campus.

At the same time, a senior business major and Interfraternity Council (IFC) vice president named Brett Adler was investigating ways to improve communication between the fraternities and the Student Union. He heard about Kint's work on the home page and offered his services.

"I don't know too much about programming, but I like looking at things and trying to figure out how to make them better," Adler said. "I think that worked to our advantage because I didn't know the restrictions. I kept saying there had to be a way and Jason usually would find a way. We got so much more done working together than either of us could have done separately."

Adler already has grandiose ideas for future programming.

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Insulin may play key role in Alzheimer's

Alzheimer's disease and diabetes may not appear to have much in common, but new research suggests that insulin may play as important a role in Alzheimer's disease as it does in diabetes.

A recent study by Suzanne Craft, Ph.D., associate professor of psychology, shows that infusing insulin in Alzheimer's patients improves their memory abilities.

Craft, who presented her findings at the International Neuropsychological Society Meeting Feb. 10, said that "insulin may be one key to improving memory function for those with Alzheimer's disease and may potentially help arrest the disease."

Former President Ronald Reagan disclosed last year that he has been diagnosed with Alzheimer's disease, a progressive degeneration of the brain for which there is no known cure. A recent New York Times Magazine story estimated that by the year 2050 as many as 14 million people will suffer from Alzheimer's, which primarily afflicts the elderly but can hit people in their 40s or 50s.

One of the first functions impaired is memory. As the brain decays, memory loss becomes more profound. "People forget not only where they left their glasses but that they ever wore glasses," The New York Times story states.

Improved memory function

In her study, Craft infused insulin in 22 patients with either very mild or more advanced Alzheimer's disease, and found that in the majority of these patients memory function improved significantly. Three quarters of these patients were better able to recall two brief narratives after receiving insulin than after receiving a placebo.

Craft said that one of the primary areas of brain degeneration among Alzheimer's patients is in the hippocampus, which plays an important role in memory function. She noted that there are dense concentrations of insulin receptors in certain regions of the hippocampus.

Insulin and glucose are closely intertwined. The body and brain need a certain amount of glucose to function well and insulin regulates the use of glucose to optimum levels. In healthy people, for example, when glucose enters the system, the pancreas produces insulin to promote the breakdown of glucose into energy by the body. But for people with insulin-dependent diabetes, the body is unable to produce enough insulin, so when glucose enters their system they cannot metabolize it. They must take insulin or modify their diets to compensate.

Although it is known that for patients with Alzheimer's, the brain's use of glucose decreases over the course of the disease, the cause of this reduction has not

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Conversation clues 2

Researchers answer debate about whether men and women's brains take the same approach to producing words

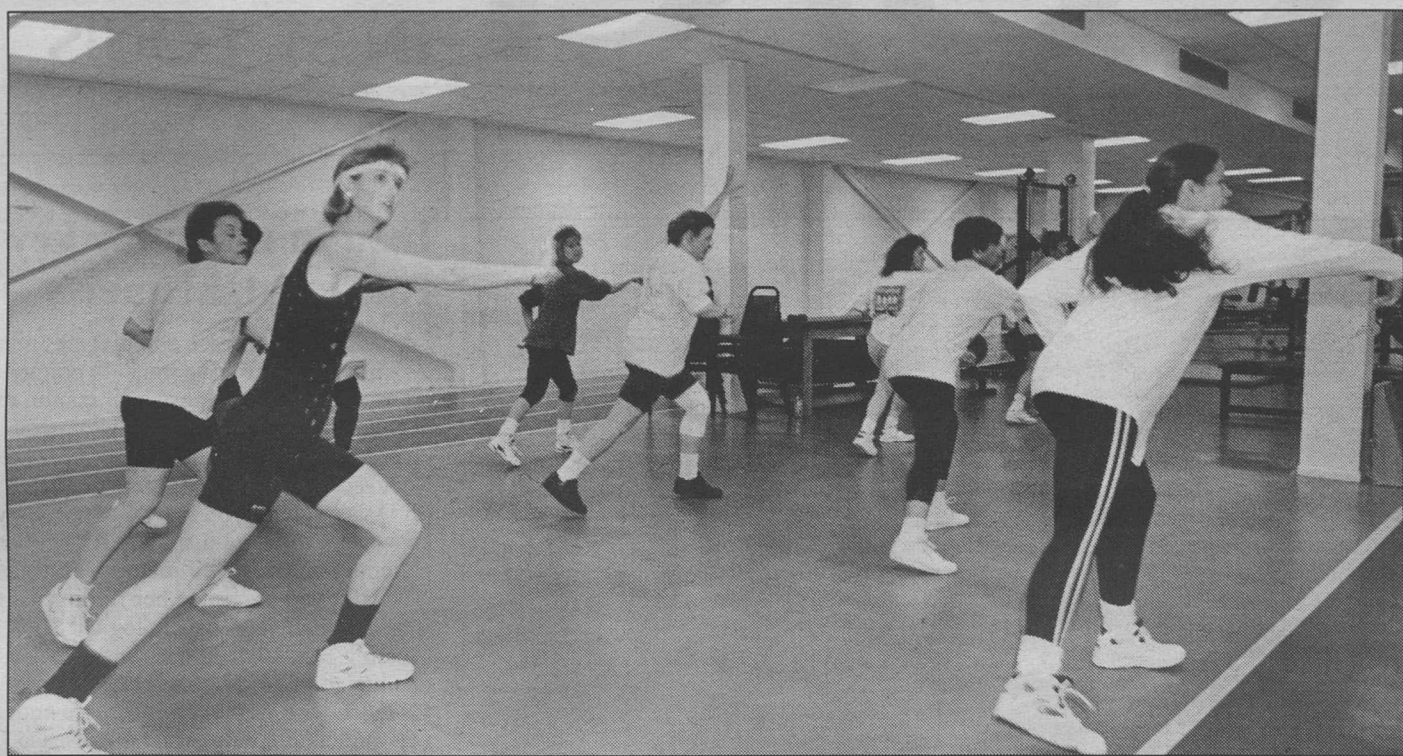
Mastering the masters 3

Pianist Seth Carlin's interests in historical performance offer the chance to rehearse familiar works in a new way

Open invitation 5

Schedule of events for upcoming symposium "Washington University: Challenges for the Future"

Medical Update



Participants in the Employee Fitness Program exercise on the fifth floor track of the Irene Walter Johnson Rehabilitation Institute. The program, which is open to all Medical Center employees, meets at noon Monday through Friday. The cost is \$90 for three months. For more information, call 362-9502.

Gender talk

Men and women use same parts of brain in language production

Men and women may have different conversational styles, but they use the same parts of the brain to produce words, a new study has shown. Women, however, may perform difficult language tasks with less effort than men, the research suggests.

The study, conducted at the School of Medicine, is the first to compare positron emission tomography (PET) scans of male and female brains during language production. PET makes images of the brain at work.

"Our results argue against the idea that men and women tend to use fundamentally different areas of the brain in speech production," said Steven E. Petersen, Ph.D., one of the study's co-authors and associate professor of neurology and of anatomy and neurobiology.

The researchers reported their findings at the recent annual meeting of the Society for Neuroscience. The work is supported by grants from the National Institutes of Health, the Charles A. Dana Foundation and the University's McDonnell Center for Higher Brain Function.

The research may help settle a long-standing debate about whether male and female brains take the same approach to language production.

In the 1970s, the notion crept into the scientific literature that women tend to use both halves of the brain to generate words while men use only the left half. At the time, scientists noted that men were more likely than women to develop

speech impairments after stroke damage to the left side of the brain.

Although researchers have disputed the theory, many textbooks still state that women's brains are organized more symmetrically than men's. So Petersen and doctoral student Randy L. Buckner decided to tackle the question by examining PET scans from an ongoing effort to map the parts of the brain that produce language.

Petersen and Buckner studied data from a brain-mapping study, headed by Marcus E. Raichle, M.D., professor of neurology, anatomy and neurobiology and radiology, that reveals language production is more complex than previously imagined. Widely separated areas of the cerebral cortex take part, and automatic language tasks, such as reading words, involve different areas than non-automatic tasks. The latter include generating a verb from a noun (saying "bark" when presented with the word "dog," for example) or completing a word when given the first three letters ("gre" becomes "green").

Raichle's group found that the noun-verb task activates several small areas in the brain's left prefrontal cortex, which lies under the left temple, while just one of these areas is involved in word completion.

Petersen and Buckner looked at data from 61 volunteers in these language experiments — a large number of scans for a PET study. The subjects ranged in age from 18 to 35 years.

Thirty-two volunteers (12 men and 20 women) tackled the noun-verb task. Ana-

lyzing the data by gender, the researchers found that the language task activates the same areas of the left prefrontal cortex in both males and females. Little, if any, activity was seen in the right prefrontal cortex in either sex.

In the 29 subjects (12 men and 17 women) who performed the word completion task, the same single area in the left prefrontal cortex became active in males and females. Again, the corresponding area on the right side of the brain failed to activate.

During the noun-verb task, some areas in the prefrontal cortex appeared to work harder in the men than in the women, though both sexes completed the task similarly. "Our method allows us to measure relative changes, so we can't quantify the difference," Petersen explained. "But you might speculate that these women found the task a bit easier and therefore did not need to expend as much energy."

Petersen and Buckner's findings apply only to language production. It is not yet known whether men and women's brains differ in the way they handle language comprehension.

PET studies typically involve only a handful of subjects because each scan, which takes up to three hours, costs more than \$1,500. "We took advantage of large sets of existing data to look at new questions," Buckner explained. "The large number of subjects in our study increases the reliability of our results."

— Linda Sage

Gelberman named head of orthopaedic surgery department

Richard H. Gelberman, M.D., has joined the School of Medicine as head of the newly formed Department of Orthopaedic Surgery and as the Fred C. Reynolds Professor.

His appointment was announced by William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine.

"We are extremely fortunate to have recruited someone of Dr. Gelberman's stature," Peck said.

"I am confident that with his scientific, educational and clinical talent, he will be able to build on the longstanding tradition of excellence enjoyed by Washington University."



Richard H. Gelberman

Orthopaedic surgery, formerly a division of the Department of Surgery, follows a national trend among medical schools by becoming a separate department. "We plan to develop new programs and to vigorously expand existing programs," said Gelberman. New programs will include pediatric oncology, trauma, foot and ankle surgery, reconstructive microsurgery and adult reconstructive surgery.

In the area of research, Gelberman said the new department will recruit molecular biology and bioengineering scientists. "We are fortunate to have the space and resources to develop a first-class laboratory facility," he said.

The appointment makes Gelberman a member of the executive faculty, the governing body of the School of Medicine.

Prior to accepting the position, Gelberman was professor of orthopaedic surgery at Harvard University Medical School and chief of the Hand Surgery Service at Massachusetts General Hospital. He had held both posts since 1987.

Gelberman received a bachelor's degree in history from the University of North Carolina at Chapel Hill in 1965 and a medical degree from the University of Tennessee in Memphis in 1969.

Researchers to study standards for delivering dialysis

School of Medicine researchers have received a \$1.4 million seven-year grant from the National Institutes of Health (NIH) to evaluate standards for delivering dialysis.

The School of Medicine is one of 15 institutions in the country chosen to participate in the study. Investigators here will evaluate 110 dialysis patients to clarify the amount and type of dialysis that is best for maintaining optimal health.

Dialysis is a treatment given to people whose kidneys can no longer adequately remove toxins from the blood. Dialysis machines remove toxins by pumping blood from the patient through a filtering device called a dialyzer and then back into the patient. Currently, about 250,000 Americans receive dialysis.

The study, led by James Delmez,

M.D., associate professor of medicine, will be conducted through the School of Medicine's Chromalloy American Kidney Center. Half of the study volunteers will receive a standard amount of dialysis, and half will receive a higher amount, Delmez said. Within each of those groups, half of the patients will be treated with conventional dialyzers and half with special dialyzers that remove additional substances from the blood.

The investigation is a follow-up to a similar NIH study conducted 20 years ago that helped to set the standards of care for dialysis patients. It is being repeated to see whether today's standards need to be revised. Because the dialysis patient population and dialysis technology have changed dramatically in recent decades, results of the initial study may not be relevant today, explained Delmez. Compared with the

dialysis population 20 years ago, dialysis patients today are sicker, older and more often are diabetic, he said.

Osteoporosis study volunteers needed

The Division of Bone and Mineral Diseases is seeking volunteers to participate in a three-year study to test the effectiveness of a new osteoporosis drug, Risedronate. Researchers are looking for women over the age of 70 who, other than having osteoporosis, generally are in good health. Women who have taken estrogen in the last year cannot qualify for the study.

Study participants will be screened for osteoporosis and receive free calcium supplements, physical exams and follow-up care. For information, call 454-7847.

Record

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Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Carlin champions period performance

For acclaimed classical pianist Seth Carlin, performing and teaching are intertwined. "I enjoy them both. They complete each other," said Carlin, professor of music in Arts and Sciences. "As a performer you have to have an aural or mental image of the way you want the music to go. You have to have an intellectual knowledge of how to get the music to go that way. That's what you translate to your students. So, it's just another form of communication."

The classical pianist has received rave reviews for his performances on both the modern piano and the fortepiano, which dates from the 18th- and early 19th-centuries. He has played in nearly every state in America and several foreign countries. In addition, he regularly performs for the St. Louis and Washington University communities, often as a member of both the Eliot and Gabrielli trios.

"As an active performer and teacher, Seth Carlin significantly enriches musical life in the University community," said Craig A. Monson, Ph.D., professor and chair of the Department of Music. "His interests in historical performance practice and the fortepiano offer us the chance to rehear familiar works in new, sometimes challenging, ways. His concerts for small chamber ensemble, such as the performance by the Gabrielli Trio last October, linger in the mind's ear long afterward as a continued source of pleasure."

A native of East Orange, N.J., Carlin inherited his love of music from his parents, who "courted" while listening to recordings of Tchaikovsky's piano concerto. Carlin grew up listening to recordings of classical, early jazz, blues, Dixieland, and Stride music, a style of solo jazz piano derived from Ragtime.

Carlin learned to play the piano when he was 6 years old. At age 9, he made his performance debut for WNYC, a public radio station in New York. The piece he played, titled "Petite Suite," was written especially for him by Gabriel Fontrier, a composer who taught at Queens College in New York. Fontrier was a friend of Morton Estrin, Carlin's piano teacher at the time. Fontrier said he believed Carlin was a promising young musician and wanted to write a piece for him.

Although Carlin continued to perform throughout his teens, he was unsure whether to pursue a career in the field, primarily for practical reasons. "I was made aware, at quite a young age, that it wasn't so easy to make a living in music." Because concerts are held sporadically, classical pianists cannot depend on concert income to support themselves or a family.

Yet, Carlin loved music. "Music contained deep emotions that really touched me in a special way. The reason I went into music was that it meant a tremendous amount to me. It gave me emotions that I wasn't getting in any other way."

Temporarily pursues science

But before embarking on a career that he loved, Carlin pursued physics at Harvard University. Although science ranked secondary in importance to music, he always had maintained a strong interest in science. His father, Herbert, is a retired electrical engineering professor at Cornell University. As an undergraduate in the early 1960s, Carlin was caught up in the excitement of the science profession. The Soviets had launched the first artificial earth satellite. Various fellowships were earmarked for satellite research.

But after a few years at Harvard, Carlin felt like he needed "to give music a chance." So he took a leave from Harvard and went to Paris. For three years, Carlin studied at the École Normale de Musique de Paris with Jules Gentil. By then Carlin had studied piano for more than a decade. Yet in Paris he began serious music studies. "I devoted myself to them in a much more concentrated way," he said.

After his first year as a music student, Carlin participated in a school audition and received the school's highest commendation. Gentil, who wanted his talented pupil to continue his studies in Paris, helped Carlin obtain a scholarship from the French government. The award covered all of Carlin's living expenses and provided him with a stipend for the remaining two years of his study.

Changes major to music

Following his stint in Paris, Carlin returned to Harvard and changed his major to music. He received a bachelor's

degree in music, cum laude, from the institution in 1969. In 1970 he received a master's degree in piano from the Juilliard School, where he studied with the world-renowned pianist Rosina Lhevinne.

Carlin's distinguished career as a performer includes being selected as a prizewinner in the Busoni International Piano Competition in Bolzano, Italy, and as a gold medalist in the Vercelli (Italy) International Piano Competition. He has performed for French, Swedish and German TV and radio stations, as well as for mainland Chinese television. In the United States, he has performed as a piano soloist with the Saint Louis Symphony

pects of performing that all students should learn, such as how to use their fingers, hands and arms; play musical scales and Czerny finger exercises; and keep the correct tempo by using a Metronome machine.

After the students have mastered the technical aspects, Carlin then teaches them how to actually play a piece as he focuses on their practicing methods and abilities to memorize and sight-read, among other skills. Sight-reading requires the students to perform music without preparation.

However, in his teaching, Carlin stresses not only the performance elements, but the analytical approaches to the music as well. "I try to challenge students with knowledge that they may not have, whether it be theoretical knowledge — analyzing the music — or historical knowledge about the composer, the composition. I think students, no matter what level, should understand what they're doing."

His students appreciate his multifaceted method of teaching. "I think that's a great way to learn," said Markward, who has played the piano for about five years. "One vision is very narrow-minded. With a pluralistic view, different parts of your mind are going to be stimulated."

Performing Schubert

Carlin's primary research interests are performance practice and composer Franz Peter Schubert. Performance practice deals with how early music was performed at the time it was written. "In other words, what did Mozart's music sound like to Mozart?" explained Carlin. "There are treatises and instruction books from Mozart's day which tell us certain things about how that music ought to go."

As a performer and teacher, he is a long-time champion of playing early music on period instruments. "I think there's a simple curiosity," said Carlin, who has an 1870 piano at his home. "What did this music sound like 200 years ago? There's just a logic to it. If you're going to play Mozart or Schubert or Beethoven or Schumann or even Brahms, none of those composers wrote for the modern piano. They wrote for ancestors of the modern piano."

Carlin's Blewett Hall studio contains two modern pianos and a replica of an 1824 fortepiano. He became intrigued with the fortepiano when he first heard the instrument during a Harvard concert. His interest was further influenced by his parents' friendship with Cornell's Malcolm Bilson, one of the world's leading fortepianists.

Carlin's talent on the fortepiano, coupled with his expertise in performance practice,

prompted graduate student Karin Di Bella of Ontario, Canada, to attend Washington University. Di Bella, who began studying with Carlin last fall, is the music department's only graduate student in piano performance. Sonja Behrens, Di Bella's teacher during her four years at the University of Western Ontario, had seen Carlin present a demonstration and performance on the fortepiano over a decade ago at a conference. Behrens was so impressed that she recommended Di Bella study with Carlin.

"He's a great teacher," said Di Bella, who plays both the modern and fortepiano. "I can see improvements in my playing. He's tough. But he does get results from his students."

In 1992 Carlin performed the entire cycle of the Schubert fortepiano sonatas in New York and at Sheldon Hall in St. Louis. He played the same replica of an 1824 fortepiano that is housed in his studio. "It was part of my lifelong love affair with Schubert," he said.

In April Carlin will present a lecture and demonstration on the fortepiano at a major symposium and festival of concerts on "Schubert's Piano Music" at the Smithsonian Institution in Washington, D.C. He will lecture on the technical aspects of playing the fortepiano as related to Schubert's music.

Carlin is not the only professional musician in his family. His wife, renowned harpsichordist Maryse Carlin, has appeared in concert throughout the United States and Europe. She frequently performs at the University with The Kingsbury Trio. The two met while both were students of Gentil at the École Normale de Musique de Paris. Maryse Carlin is a native of France.

On occasion, Seth and Maryse Carlin perform together. They also have recorded Schubert's music together for Titanic Records. Often people ask Seth Carlin what it is like performing with his wife. "Generally I tell them that when we rehearse together, as long as I do exactly what Maryse tells me to, there's absolutely no problem."

— Carolyn Sanford



Music Professor Seth Carlin works with Mary Jean Speare, graduate student in musicology.

"... playing the music of great composers means you have many friends. You live in the company of exalted lives, exalted spirits."

and Boston Pops orchestras, among numerous others.

"What I love about music is that it gives me a chance to express myself," said Carlin. "And even though I don't write my own music, playing the music of great composers means you have many friends. You live in the company of exalted lives, exalted spirits. Who could ask for anything more wonderful than that?"

Respects students' individuality

In his role as professor, Carlin primarily gives private lessons to advanced undergraduate and graduate students from a variety of disciplines. "I try to deal with every student in an individual way because I think every individual is important."

Natalie Markward, a junior painting major from North Providence, R.I., concurred. "He's interested in your own musicality," said Markward, the daughter of two classical musicians, who took lessons from Carlin for a year. "He looks at each student as an individual who has his or her own style. He's not a dictator."

Although Carlin respects each student's individuality, he said he also believes there are certain technical as-

Calendar

Feb. 16-25



Exhibitions

"Arts Connection." Features self-portraits by a dozen children from the Darst-Webbe and Peabody housing projects. Through Feb. 25. Sponsored by the School of Architecture with the Center for Contemporary Arts (COCA) and the Guardian Angels Settlement. COCA, 524 Trinity Ave., University City. Hours: noon-8 p.m. Tuesdays through Thursdays; noon-5 p.m. Fridays and Saturdays. 725-6555.

"17th Annual High School Art Competition." The 100 top entries from local high school juniors and seniors. Through Feb. 19. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. 935-6597.

"The Matter of History: Selected Works by Annette Lemieux." Addresses the Holocaust, the Third Reich and the personal ways in which war interrupts life. Through March 26. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-4523.

"William H. Gass: Worlds Within Words." Books, letters and manuscripts of William Gass, the David May Distinguished University Professor in the Humanities. Feb. 17 through March 22. Special Collections, level five, Olin Library. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5400.



Films

February is Filmboard's faculty and staff appreciation month. An employee and a guest can attend movies free of charge.

Thursday, Feb. 16

7 and 9 p.m. Filmboard Classic Series. "The Pirate" (1948). Room 100 Brown Hall. Cost: \$3. **For 24-hour Filmboard hotline, call 935-5983.**

Friday, Feb. 17

7 and 10:30 p.m. Filmboard Feature Series. "The Godfather" (1972). (Also Feb. 18, same times, and Feb. 19 at 7 p.m.) Room 100 Brown Hall. Cost: \$3.

Monday, Feb. 20

4 p.m. Russian film. "Private Life" (1982), with English subtitles. Sponsored by the Dept. of Russian. Room 219 South Ridgley Hall. 935-5177.

Tuesday, Feb. 21

7 p.m. Japanese Film Series. "Kagemusha — The Shadow Warrior" (1980), with English subtitles. Room 219 South Ridgley Hall. 935-5156.

Calendar guidelines

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

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

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

Wednesday, Feb. 22

7 and 9 p.m. Filmboard Classic Series. "The Innocents" (1961, B&W). (Also Feb. 23, same times.) Room 100 Brown Hall. Cost: \$3.

Friday, Feb. 24

4 p.m. Jazz Film Series. "Lady Sings the Blues" (1972). Sponsored by the American Culture Studies Institute. Room 149 McMillan Hall. 935-5216.

7 and 9:30 p.m. Filmboard Feature Series. "Dead Poets Society" (1989). (Also Feb. 25, same times.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series. "Tron" (1982). (Also Feb. 25, same time.) Room 100 Brown Hall. Cost: \$3.



Lectures

Thursday, Feb. 16

11:15 a.m. Social work lecture. "Enhancing the Quality of Proposals for Mental Health Services Research," Robert Felner, prof. and director, Center for Prevention Research and Development, U. of Illinois, Urbana-Champaign. Second Floor Conference Room, Administrative Bldg., 1130 S. Hampton Ave. 935-5741.

Noon. Genetics lecture. "Mechanism of mRNA Decay in Yeast," Carolyn J. Decker, research asst. prof., Dept. of Molecular and Cellular Biology, U. of Arizona, Tucson. Cori Aud., 4565 McKinley Ave. 362-6162.

1:30 p.m. Geometry seminar. "Minimal Tori in Complex Projective Spaces," Quo-Shin Chi, assoc. prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

2 p.m. Biology and biomedical sciences seminar. "Factors Mediating the Late Stages of ER to Golgi Transport in Yeast," Susan Ferro-Novick, assoc. prof., Dept. of Cell Biology, Howard Hughes Medical Institute, Yale U. School of Medicine. Cori Aud., 4565 McKinley Ave. 362-6060.

4 p.m. Biology lecture. "Phylogenies, the Comparative Method and the Evolution of Behavior," Emilia Martins, asst. prof., Dept. of Biology, U. of Oregon. Room 322 Rebstock Hall. 935-7256.

4 p.m. Earth and planetary sciences colloquium. "What Kind of Stress Cracked Ariel's Icy Crust?" Guy Consolmagno, staff astronomer, Vatican Observatory Research Group, Steward Observatory, U. of Arizona, Tempe. Room 362 McDonnell Hall.

4 p.m. East Asian studies colloquium. "Health and Healthcare in China: Privatization vs. Public Good in the '90s," Gail Henderson, prof., Dept. of Social Medicine, U. of North Carolina, Chapel Hill. Room 30 January Hall. 935-4448.

4 p.m. Molecular oncology seminar. "The 'Fos' Proto-oncogene: A Paradigm for Gene Regulation," Tom Curran, head, Dept. of Molecular Oncology and Virology, and assoc. director, Roche Institute of Molecular Biology, Nutley, N.J. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

4:30 p.m. Math colloquium. "Rigidity of Group Actions — From A to Z and Beyond," Steven Hurder, prof. of mathematics, U. of Illinois, Chicago. Room 199 Cupples I Hall.

Friday, Feb. 17

Noon. Cell biology and physiology seminar. "Morphogenetic and Proliferative Signals That Regulate Vascular Growth: Two for the Show?" Helene E. Sage, prof., Dept. of Biological Structure, U. of Washington, Seattle. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg.

Noon. Environmental engineering seminar. "Disposition of Environmentally Sensitive Property," Jeffrey Felder, director of site operations, Monsanto Co. Room 216 Urbauer Hall. 935-8590.

1:30 p.m. Geometry seminar. "Recognizing Leaves," Steve Hurder, prof. of mathematics, U. of Illinois, Chicago. Room 199 Cupples I Hall. 935-6726.

2 p.m. Molecular oncology seminar. "Starting and Stopping the Human Cell Cycle," James M. Roberts, member, Division of Basic Sciences, Fred Hutchinson Cancer Research Center, Seattle, Wash. Cori Aud., 4565 McKinley Ave. 935-9035.

4 p.m. Anatomy and neurobiology seminar. "Amplifying the Embryo: ES Cells Make Neurons in Culture," David I. Gottlieb, prof., Dept. of Anatomy and Neurobiology, and assoc. prof., Dept. of Biochemistry and Molecular Biophysics. Room 928 McDonnell Medical Sciences Bldg. 362-2758.

4 p.m. Music lecture. "Schumann and Berlioz," Hugh Macdonald, Avis Blewett Professor of Musicology. Room B-8 Blewett Hall. 935-5581.

7:30 p.m. Astronomy lecture. "Exploring the Milky Way Galaxy," Richard Schwartz, prof. of physics and astronomy, U. of Missouri-St. Louis. Co-sponsored by the Dept. of Earth and Planetary Sciences and NASA Missouri Space Grant Consortium. Room 162 McDonnell Hall. 935-4614.

Saturday, Feb. 18

11 a.m. University College Saturday seminar. "The 1948 Presidential Campaign: The Beginning of Modern Politics," former U.S. Sen. Thomas F. Eagleton, University Professor of Public Affairs. Room 362 McDonnell Hall. 935-6777.

Monday, Feb. 20

4 p.m. Cognitive psychology colloquium. "Implicit Memory and Bias in Perceptual Processing," Roger Ratcliff, prof., Dept. of Psychology, Northwestern U., Evanston, Ill. Room 162 McDonnell Hall. 935-6546.

4 p.m. Math seminar. TeX computer program. Instructed by Stanley Sawyer, prof. of mathematics. Room 203 Cupples I Hall. 935-6726.

Tuesday, Feb. 21

12:10 p.m. Physical therapy brown bag seminar. "Rubbing the Head and Patting the Tummy: Coordination and the Amazing Spinal Cord," Edelle Field, doctoral candidate in movement science. Classroom C Forest Park Bldg., 4444 Forest Park Blvd.

3 p.m. Chemistry seminar. "Mechanistic Aspects of Palladium — Catalyzed Alternating Copolymerizations of Olefins and Carbon Monoxide," Maurice S. Brookhart, prof., Dept. of Chemistry, U. of North Carolina, Chapel Hill. Room 311 McMillen Lab.

4 p.m. Computational genomics seminar. "Multiple Complete Digestion Mapping," Will Gillet, assoc. prof., Dept. of Computer Science. Room 110 Image Processing and Quantification Lab, 700 S. Euclid.

4 p.m. Diabetes research group meeting. "Structure and Processing of Glucose Transporters," Richard Hresko, research associate, Dept. of Cell Biology and Physiology. Pathology Library, Room 3723 West Bldg. 362-7440.

6 p.m. Social work lecture. "Early Childhood: Nature vs. Nurture?" Jeannie Bubb, clinical coordinator, Dept. of Clinical Social Work, St. Louis Children's Hospital; Kenneth Woods, licensed clinical social worker; Elaine Nathan, clinical social worker, St. John's Mercy Medical Center Child Development Center; Kathleen Adair, program coordinator, Division of Genetics, St. Louis Children's Hospital. Brown Hall Lounge. For credit info. and to register, call 935-6678.

Wednesday, Feb. 22

8 a.m. Obstetrics and Gynecology Grand Rounds. "Ovarian Hyperstimulation Syndrome," Edward Dourron, fellow, Division of Reproductive Endocrinology, and instructor, Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place. 362-3122.

11 a.m. Assembly Series lecture. "Art and Politics in Modern Drama," Tony Kushner, Pulitzer Prize-winning playwright. Keynote address of Sexual Awareness Week. Graham Chapel. 935-5285.

Noon. Chemistry seminar. "Metal Carbonyl Complexes With Phosphorus-bridging Carbonyl Groups: Analogues of Aldehydes and Ketones," R. Bruce King, Regent's Professor, Dept. of Chemistry, U. of Georgia, Athens. Room 311 McMillen Lab.

4 p.m. Biochemistry and molecular biophysics seminar. "Interactions of Actin and

Capping Protein *in vivo* and *in vitro*," John A. Cooper, assoc. prof., Dept. of Cell Biology and Physiology. Cori Aud., 4565 McKinley Ave. 362-0261.

8 p.m. Architecture lecture. "Recent Work of Alberto Perez Gomez." Gomez is a professor at McGill U., Montreal. Steinberg Hall Aud.

Thursday, Feb. 23

11:15 a.m. Social work lecture. "View From an IRG (Study Section): Perspectives on Grant Reviewers," William R. True, assoc. prof. of community health, St. Louis U. Second Floor Conference Room, Administrative Bldg., 1130 S. Hampton Ave.

1:10 p.m. Social work lecture. "The Common Sense Approach to Child Welfare: Adoption and Foster Care," Zena Oglesby Jr., exec. director, Institute for Black Parenting, Los Angeles. Brown Hall Lounge.

1:30 p.m. Geometry seminar. "Minimal Tori in Complex Projective Spaces (cont.)," Quo-Shin Chi, assoc. prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

2:30 p.m. Mechanical engineering seminar. "Soot Formation Mechanism and Sooting Limit in Diffusion Flames," S.H. Chung, prof., Dept. of Mechanical Engineering, Seoul National U., Seoul, Korea. Room 100 Cupples II Hall. 935-6055.

4 p.m. Molecular oncology seminar. "A Novel Mammary Specific Gene and Its Implication to Breast Cancer," Tim Fleming, asst. prof., depts. of Ophthalmology and Visual Sciences and Genetics. Third Floor Aud., St. Louis Children's Hospital.

4:15 p.m. French lecture. "Simone de Beauvoir sous l'Occupation," Ingrid Galster, prof. of French and Spanish, U. of Aachen (Aix-la-Chapelle), Germany. Hurst Lounge, Room 201 Duncker Hall.

4:30 p.m. Math colloquium. Riever colloquium. "On the Geometry of Conservation Laws," Robert Bryant, prof. of mathematics, Duke U., Durham, N.C. Room 199 Cupples I Hall.

Friday, Feb. 24

Noon. Environmental engineering seminar. "Technical and Regulatory Developments in Groundwater Remediation," Keith Piontek, environmental engineer, CH2M Hill, St. Louis. Room 216 Urbauer Hall.

4 p.m. Geometry seminar. "Classification of PDE Admitting Conservation Laws," Robert Bryant, prof. of mathematics, Duke U., Durham, N.C. Room 199 Cupples I Hall. 935-6726.

4 p.m. Molecular microbiology seminar. "Molecular Handles on Adaptive Mutation," Susan Rosenberg, asst. prof., Dept. of Molecular Genetics and Carcinogenesis, U. of Alberta, Edmonton, Canada. Room 775 McDonnell Medical Sciences Bldg.

4 p.m. Music lecture. "Music, Trance and Neurobiology," Judith Becker, prof. and chair of musicology, School of Music, U. of Michigan, Ann Arbor. Room B-8 Blewett Hall. 935-5581.

Saturday, Feb. 25

11 a.m. University College Saturday seminar. "The Energy of Freedom: The African-American's Protest Ideology and the Rise of American Nationalism, 1945-1965," Gerald L. Early, prof. of English and director, African and Afro-American Studies Program. Room 362 McDonnell Hall.



Music

Sunday, Feb. 19

2 p.m. Oboe recital. Dedra Foote, oboist, presents her senior honors recital. Program: music of George Frideric Handel, Wolfgang Amadeus Mozart, Émile Paladilhe, Arthur Foote and Camille Saint-Saëns. Graham Chapel. 935-5581.

8 p.m. New Music Circle concert. "Contemporary Vocals" with Joan LaBarbara, composer, vocalist and sound artist. Co-hosted by Gallery of Art. Steinberg Hall Aud. Cost: \$10

for the general public; and \$6 for senior citizens and students. 995-4963.

Wednesday, Feb. 22

8 p.m. Jazz band concert. Chris Becker, director. The Gargoyle. 935-5581.

Friday, Feb. 24

7:30 p.m. A capella invitational performance. "Jammin' Toast" combines the talents of the Fleet Street Singers of Stanford U., Off The Beat of the U. of Pennsylvania, along with the Pikers, WU men's singing group, the Greenleaves, WU women's singing group and Mosaic Whispers, WU co-ed singing group. (Also, Feb. 25, same time.) Friday's performance includes Mosaic Whispers; Saturday's includes the Greenleaves. Edison Theatre. Cost: \$6 for the general public; and \$4 for WU students, faculty and staff.

8 p.m. Fortepiano recital. Seth Carlin, prof., Dept. of Music. Program: Music of Franz Joseph Haydn, Muzio Clementi, Johann Hummel, Jan Dussek and Ludwig van Beethoven. Women's Bldg. Lounge. 935-5581.



Performances

Friday, Feb. 17

8 p.m. Performing Arts Dept. presents "Blood Wedding," a fiery tale of a young woman who spurs rivalry and revenge by fleeing an arranged marriage. Written by famed Spanish poet and playwright Federico Garcia Lorca and performed by students. (Also Feb. 18, 24 and 25, same time, and Feb. 19 at 7 p.m.) Drama Studio, Room 208 Mallinckrodt Center. Cost: \$8 for the general public; and \$6 for senior citizens, WU faculty, staff and students. 935-6543.

Saturday, Feb. 18

8 p.m. Edison Theatre "OVATIONS!" series presents "The Klezmer Conserva-

tory Band" combining the new-world beat of jazz and old-world music from Eastern Europe. (Also Feb. 19 at 2 p.m.) Edison Theatre. Cost: \$16 for the general public, senior citizens, WU faculty and staff; and \$12 for students and children. 935-6543.



Miscellany

Saturday, Feb. 18

9 a.m.-noon. University College skill development workshop. "Workshop II: Textbook Study and Taking Exams." Instructed by Richard Lake, prof. of reading, St. Louis Community College. Room 30 January Hall. Cost: \$20. To register, call 935-6788.

Saturday, Feb. 25

8 a.m.-12:30 p.m. Math contest. Open to St. Louis area students. Covers high school algebra, geometry, algebra trigonometry, elementary combinatorics, probability and mathematical reasoning and logic. Holmes Lounge, Ridgley Hall. To register, contact individual high school math departments or Pi Mu Epsilon at 935-6763.

Noon-4 p.m. Self-defense seminar. The seminar, sponsored by the WU TaeKwon Do Club, is instructed by John Tompkins, sixth-degree black belt in the Chang-Han style, and covers basic and women's self-defense. Women's Bldg. Dance Studio. Cost: \$20 for pre-registration; \$25 at the door. To register, call Bill Van Zante at 781-5584 or Valerie Montalvo at 935-2056.

Sunday, Feb. 26

4 p.m. Literary reading. William H. Gass, David May Distinguished University Professor in the Humanities, author and director of the International Writers Center, will read from his most recent novel "The Tunnel." Sponsored by the Assembly Series and the Bookmark Society. Edison Theatre. 935-5400.

Blackburn symposium planned

The University community is invited to attend the Robert Blackburn Symposium, titled "Washington University: Challenges for the Future." The event, featuring faculty, staff, students and external participants, will provide a forum for discussion as the University prepares for the challenges of the 21st century and a new era of leadership. The symposium will be held in May Aud., Simon Hall. The schedule follows:

Monday, Feb. 20

4:00 p.m. Welcome: William H. Danforth, chancellor; Edward S. Macias, provost, general chair

Keynote: "The Research University in the Next Decade," Robert M. Rosenzweig, former president of the Association of American Universities

4:40 p.m. Comments from two members of the President's Committee of Advisors on Science and Technology: "The Federal Government, Science and the Research University," Virginia V. Weldon, senior vice president, Public Affairs, Monsanto Co.; Peter H. Raven, Engelmann Professor of Botany and director, Missouri Botanical Garden

5:15 p.m. "Political Change and the Federal Role," Pamela S. Lokken, director of the Office of Governmental Relations

5:30 p.m. Discussion among presenters and audience

6:00 p.m. Adjourn

Tuesday, Feb. 21

8:45 a.m. "A View From the Association of American Universities," Cornelius J. Pings, president, Association of American Universities

"Washington University Today," William H. Danforth, chancellor

9:45 a.m. Graduate Education: Robert E. Thach, dean of the Graduate School of Arts and Sciences, chair

Remarks: Jules M. LaPidus, president, Council of Graduate Schools

Panel discussion: Peggy J. DesAutels, graduate student in philosophy; Roland A. Glean, Chancellor's Fellow in Political Science; Jeffrey I. Gordon, Alumni Endowed Professor of Molecular Biology and Pharmacology and executive secretary, Division of Biology and Biomedical Sciences; Edward N. Wilson, professor of mathematics

11:00 a.m. Break

11:15 a.m. Undergraduate Education: Lee J. Epstein, professor of political science; Richard J. Smith, professor of anthropology, co-chairs

Remarks: Ursula W. Goodenough, professor of biology

Panel discussion: Iain A. Fraser, associate professor of architecture; Benjamin B. Gum, undergraduate student in engineering; Marc R. Hammerman, Chromalloy Professor of Renal Diseases in Medicine (and father of a current undergraduate); E. Ananda Martin, undergraduate student in Arts and Sciences; James E. McLeod, dean, College of Arts and Sciences; Gary J. Miller, Reuben C. Taylor Jr. and Anne Carpenter Taylor Professor of Political Economy; Jeffrey C. Pike, associate professor of art; Salvatore P. Sutura, professor of mechanical engineering

12:30 p.m. Break for lunch

2:00 p.m. Research and Scholarship: Martin H. Israel, vice chancellor, chair

Remarks: Philip Needleman, senior vice president and chief scientist, Monsanto Co.; Robert H. Salisbury, Sidney W. Souers Professor of American Government

Panel discussion: Andy Clark, professor of philosophy; Lynn Lopucki, William R. Orthwein Professor of Law; Randolph D. Pope, professor of Spanish; Enola E. Proctor, professor of social work; John S. A. Taylor, associate professor of chemistry; Jonathan S. Turner, professor and chair of computer science

3:15 p.m. Break

3:30 p.m. The Academic Medical Center

Presentation: William A. Peck, executive vice chancellor for medical affairs and dean, School of Medicine

Discussion with audience

4:30 p.m. Critical summary and discussion: Danforth, Pings, Rosenzweig

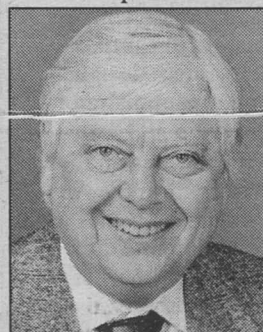
5:30 p.m. Adjourn

Twenty-six years in the making

Gass to read from new novel

To celebrate the publication of "The Tunnel," the novel on which Professor William H. Gass worked for 26 years, the University's Assembly Series and Libraries' Bookmark Society will hold a reading; an exhibit titled "William H. Gass: Worlds Within Words" in Olin Library; and the dedication of his portrait.

Gass, Ph.D., will read from his new novel at 4 p.m. Feb. 26 in Edison Theatre.



William H. Gass

The event is free and open to the public. After the reading, the public is invited to view the exhibit, which runs through March 22, during a reception in Special Collections, level five, Olin Library. The portrait dedication also will take place after the reading, between the library's second and third levels.

Gass, who joined the faculty in 1969 as professor of philosophy, was named the David May Distinguished University

Professor in the Humanities in 1979. He also directs the University's International Writers Center.

His published essay collections include: "Fiction and the Figures of Life" (1971), "On Being Blue" (1976), "The World Within the Word" (1978) and "The Habitations of the Word" (1984), for which he won the National Book Critics Circle Award in 1985. He won an American Academy and Institute of Arts and Letters Award for Fiction in 1975 and its Medal of Merit for Fiction in 1979.

Gass' other works of fiction are "Omenseiter's Luck" (1966), "In the Heart of the Heart of the Country" (1968) and "Willie Masters' Lonesome Wife" (1968). The lead character in his novel "The Tunnel" is a historian at a Midwest university who is sympathetic to the Nazi regime. Although political movements form the backdrop of the book, its focus is family politics, or what Gass describes as "the tyranny of the breakfast table." "The Tunnel," he summarizes, examines "the fascism of the heart."

For more information about the reading, call 935-5285. For information about the exhibit, call 935-5400.

Sports

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

Men claim UAA hoop title, women in first

While WU's men's basketball team wrapped up its University Athletic Association (UAA) championship, the women's team gained sole possession of first place in the UAA with three games to play.

Paced by a career-high 24 points from senior Shawn Winn, Fairway, Kan., WU defeated Emory University 81-63 for its 17th successive conference win and its 15th straight victory overall. The win also secured the outright UAA title — WU's third men's basketball crown since the league's inception in 1987-88 — and the automatic bid to the NCAA Division III tournament.

The Bears clinched a share of the UAA title on Friday with a 98-67 win over Carnegie Mellon University. Five different WU players scored in double figures, with junior center Kevin Folkl, St. Louis, pacing the attack with a game-high 19 points.

The women's team, seeking its sixth consecutive UAA title, leap-frogged Emory atop the league leaderboard with a stirring 59-55 win over the Eagles on Sunday. The Bear bench supplied 50 of the 59 points, with first-year student Amy Schweizer, St. Louis, netting a team-high 23. With three first-year students and two sophomore reserves on the floor, the Bears mounted a furious 13-0 three-minute run that turned a five-point deficit into an eight-point cushion with two minutes remaining.

On Friday, senior Jennifer Hendricks, Omaha, Neb., scored a career-high 20 points to lead the Bears past Carnegie Mellon 72-45.

This week: 6 p.m. (women) and 8 p.m. (men) Friday, Feb. 17, at Brandeis University; noon (men) and 2 p.m. (women) Sunday, Feb. 19, at New York University

Men's season record: 20-2 (11-0 in UAA)

Women's season record: 16-6 (9-2 in UAA)

Track team makes strides in Chicago

The Washington University men and women's track and field teams, gelling under the leadership of interim head coach John Pfeifferberger, posted strong showings at last weekend's University of Chicago Invitational. The men placed second in the five-team field, trailing only national power North Central College, while the women finished a close third.

Senior All-American Antone Meaux, Cincinnati, provided the weekend's biggest spark, winning two events and setting an NCAA Division III provisional qualifying mark in a third. Meaux earned his conditional ticket to indoor nationals with a :06.54 clocking in the 55-meter dash — missing WU's school record by four one-hundredths of a second.

Sophomore Jerylin Jordan, Kaneohe, Hawaii, led the women's effort, winning the 3,000-meter run (11:00.43) and placing fourth in the 1,500-meter run (5:02.44).

This week: 10 a.m. Saturday, Feb. 18, at Southern Illinois University-Carbondale Saluki-USATF Open, Carbondale, Ill.



A worker from Sachs Electric Co. hooks individual Shepley Residence Hall rooms to the main campus backbone.

Students rely on Internet for research — from page 1

us on our toes. We are working to get the word out that you can do much more than send and read e-mail."

Students in a variety of disciplines say they soon learn to rely on the Internet as a primary research tool. Washington University Libraries is on-line and its WorldWindow interface enables students to access material in libraries and other resources around the globe. Electronic communication through on-line bulletin boards, or discussion groups, keep students up-to-date on the most recent news, studies and discoveries in their field and allow them to collaborate and confer with faculty and fellow students.

Washington University is part of a nationwide trend in higher education, which Newsweek recently called the "one port per pillow" standard. Most peer institutions either already have wired individual rooms, are in the process, or have plans to do so, primarily because increasingly computer-literate students come to college expecting Internet access.

"That's why I came here," said Jonathan Pollack, a first-year computer science major who graduated from Ladue High School. "When I was in high school, I met a professor at Washington University through a summer program. He gave me an Internet account, so I've been on the Internet for two and a half years. And I knew that there was some top-notch equipment available at the School of Engineering."

Part of the appeal of the Internet is the World Wide Web, the interlinked digital space for thousands of Internet users. Most colleges and universities have marked their presence on the web with their own home page, introductory screens with photos and a list of links

describing the school. Washington University has two pages: a general home page prepared by several university groups and one that is in the process of being created by students and for students (see related story).

Many students have created personal home pages, complete with a photograph, resumé, biographical information, and a list of primary links to subjects of particular interest to the students. For example, a student majoring in Women's Studies might have a women's studies link on his or her home page, which provides quick access to timely articles on that subject. A student member of the Catholic Student Center might have that link, enabling him or her to read centuries-old Vatican documents and the Bible on-line.

Washington University is on pace with peer institutions in terms of lab support and Internet access in residence halls, Atnip said, but is jumping ahead with new fiber-optic technology and a network that is fast enough to handle whatever may be coming down the superhighway, like real-time video, audio and data transmission.

"The Applied Research Laboratory in the School of Engineering is working on such multimedia projects as remote diagnosis of a medical patient by talking with the physician, seeing the patient running on a treadmill and examining readouts from heart and other monitors," Atnip said. "This and other high-speed networking research at Washington University will allow our students to be the first to try these technologies. The network available to student residents is one of the best on campus and will grow with new advances."

— Susannah Webb

Home page gives campus information — from page 1

Then first-year student Jonathan Pollack, a future computer science major, joined the team, primarily as a script programmer.

"There were some mornings Jonathan would come to open the computer lab at 8 a.m. and find me still here from the night before," Kint said.

"This is an intrepid group," said Kathy Atnip, associate director, Student Computer Services. "I would find questions from them on my e-mail sent at two o'clock in the morning."

The end result of months of hard work is a user-friendly home page, complete with a photograph of Brookings Hall, 15 useful "links" and a connection to the World Wide Web. From the home page, users can access any of the following links: Information about Washington University, Tour of Washington University, Washington University Facts, Bearings-Student Handbook, Student Govern-

ment, Library, Washington University Schools, Student Services, Computers, Calendars, Athletics, WU Archives, Comments, Help, Phone Book or Explore.

Click on Tour of Washington University and set off on a historical campus tour by way of a clickable map designed by Miranda Flory, system administrator in the School of Engineering and Applied Science. Click on Bearings and learn about student groups from the Ad Club to the Young Democrats, as well as local eateries and entertainment. Click on Explore and embark on an Internet adventure of 24-hour news, library, even shopping links, to name a few.

"We tried to make this the jump start for all the Internet stuff, to links around the world," Kint said. "But our goal was to make something that would be useful to students at Washington University."

— Susannah Webb

Undergraduate tuition, fees set for 1995-96 academic year

Undergraduate tuition and fees at Washington University next fall will total \$19,291 for the 1995-96 academic year — a 4.1 percent increase above the current year, said Chancellor William H. Danforth. The total includes a \$191 required student activity fee.

Undergraduate tuition and fees for the current year (1994-95) were increased by 4.3 percent over 1993-94. Tuition and fees for 1994-95 are \$18,534, which includes a \$184 required student activity fee.

Typical room and board charges for 1995-96 will be \$5,961, up 3.2 percent from this year's charges of \$5,775. The total 1995-96 charge — tuition, fees, room and board — is 3.9 percent greater than the corresponding charge in 1994-95.

In a letter to parents, Danforth said the challenge facing Washington University is to continue to improve the total experience of students while at the same time holding down costs. He cited a number of efforts involving various members of the University community to meet that challenge.

The Task Force on Undergraduate Education issued its report in fall 1994. The task force made recommendations in a number of areas, including improving advising, residence hall life, campus-wide communication and student writing, giving greater weight to teaching in tenure decisions, and increasing opportunities for

undergraduates to participate in individualized educational activities, among others. A council has been appointed to oversee implementation of the task force's recommendations.

The University Management Team, consisting of deans of the schools and the directors and heads of the various Central Fiscal Unit departments, continues to meet regularly and to work across lines to promote student success, streamline operations and hold down costs.

"Everyone is working together to make the Washington University experience outstanding for all students: challenging but supportive, flexible but coherent, a place where learning flourishes and leadership skills are developed," Danforth said.

Danforth emphasized that the University remains committed to a strong financial aid program. About half of the University's undergraduates receive need-based aid from federal, state and institutional sources. The University offers two plans to help lessen families' financial burden. The Cost Stabilization Plan allows monthly installment payments over as many as 10 years at competitive fixed interest rates. The Tuition Installment Plan allows families to pre-pay University charges in an academic year in 10 monthly installments.

'Angels in America' playwright to lecture

Award-winning playwright Tony Kushner will lecture on "Art and Politics in Modern Drama" in the Assembly Series at 11 a.m. Wednesday, Feb. 22, in Graham Chapel. At 2 p.m. he also will participate in an informal discussion in Lambert Lounge, Room 303 Mallinckrodt Center. Both events are free and open to the public.

Kushner leapt into the spotlight with the 1993 opening on Broadway of his two-part epic "Angels in America." Part one, titled "Millennium Approaches," won the 1993 Pulitzer Prize and Tony Award for best play. Part two, "Perestroika,"



Tony Kushner

opened six months later and won the 1994 Tony Award for best play. "Angels in America" has been hailed as a masterpiece of modern drama that works on two levels: as a serious and moving drama about the impact of the AIDS epidemic on the gay community and as a witty and contemplative view of modern American society. The play by Kushner, a gay rights activist, has sold well on Broadway to mixed audiences composed of both heterosexuals and homosexuals.

Anna Quindlen of The New York Times described "Angels in America" as a "... brilliant, brilliant play about love and the human condition, at a time when our understanding of what it means to be human and loving has, thankfully, expanded."

Kushner graduated in 1978 with a bachelor's degree in medieval studies from Columbia University and went on to study theater at New York University (NYU) where he was awarded his master's degree in 1984. At NYU he discovered German playwright Bertold Brecht, whose theater of political engagement impressed him with its marriage of art and politics. Kushner has said that, in his belief, "all theatre is political." In addition to several ongoing theater projects, Kushner is working with film director Robert Altman on the screenplay for a film version of "Angels in America," to be released in two parts later this year.

Kushner's play "The Illusion" will be performed in Edison Theatre March 31-April 9. Performances are at 8 p.m. on March 31, April 1, 7 and 8 and at 2 p.m. on April 2 and 9. For tickets, call the Edison box office at 935-6543.

Kushner's lecture is the keynote address of Sexual Awareness Week and is co-sponsored by Student Union, Student Union Campus Services Committee and GLBA (Gay, Lesbian and Bisexual Alliance). For more information, call 935-5297.

Campus Watch

The following criminal incidents were reported to the Hilltop Campus Police Department Feb. 6-12. 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.

Feb. 7

1:53 a.m. — Campus police responded to a peace disturbance at the Helen Ette Park House when a student reported that her former boyfriend, a non-student, would not leave the residence hall at her request.

Feb. 8

4:02 p.m. — A student was arrested for reportedly stealing a clipboard and folders from the Campus Bookstore at Mallinckrodt Center. The incident was referred to the Board of Judicial Administrators.

Feb. 9

11:21 a.m. — A Nintendo game cartridge was reported stolen from Millbrook Apartments No. 3 sometime between 8 and 11 a.m. Feb. 8.

2:49 p.m. — An overhead projector belonging to University College was reported stolen from Eliot Hall sometime between 8:35 and 9 p.m. Feb. 8.

Feb. 10

9:04 a.m. — Two hubcaps were reported stolen from a staff member's vehicle parked in the lot adjacent to Brookings Hall and Skinker Boulevard sometime between 9:50 a.m. and 6 p.m. Feb. 9.

7:40 p.m. — A female student reported an incident of indecent exposure at 2:30 p.m. outside Olin Library.

Feb. 11

2:48 p.m. — A telephone and bag belonging to a faculty member was reported stolen from Eliot Hall sometime between 9 a.m. Feb. 1 and noon Feb. 11.

Feb. 12

3:46 p.m. — Two gallon bottles of fruit juice were reported stolen from the Brown Hall Lounge kitchen sometime between 1:15 and 3:30 p.m.

For The Record

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

Of note

An exhibit by **Stephen P. Leet**, visiting assistant professor of architecture, was shown at the Documentation and Conservation of the Modern Movement conference in Barcelona, Spain. His exhibit was titled "Instruments of Modernity." The work was displayed in a room decorated with original murals by Pablo Picasso. ...

David M. Ornitz, M.D., Ph.D., assistant professor of molecular biology and pharmacology, received an \$811,141 four-year grant from the National Institute on Deafness and Other Communication Disorders for a project on "Genes Involved in the Development of Vestibular Otoconia." ...

George I. Zahalak, Eng. Sc.D., professor of mechanical engineering, was selected as a 1995 fellow by the American Institute for Medical and Biological Engineering. Formed with support from the National Science Foundation, the institute advances engineering in biology and medicine.

Speaking of

At the Federation of Analytical Chemistry and Spectroscopy Societies' 21st annual conference in St. Louis, **Joseph J. H. Ackerman**, Ph.D., professor and chair of the Department of Chemistry, presented a lecture titled "Noninvasive Bioanalysis: Bayesian Probability Theory (Applied to Metabolite Quantification) and Pseudodiffusion (Is it Real?)" ...

During the winter meeting of the American Society of Engineering Education in Houston, **Jerry Craig**, affiliate professor of civil engineering, conducted a workshop on teaching 3-D perception to engineering students. As part of the workshop, he presented a talk based on research detailed in his new textbook titled "Engineering Graphics Workbook." ...

Kristin E. S. Zapalac, Ph.D., assistant professor of history, delivered a paper titled "In the Shadow of thy Wings: The Altered Perspective of the Lutheran Retable" during the College Art Association's 83rd annual convention in San Antonio.

On assignment

Shirley K. Baker, dean of University Libraries, serves as an outside expert on the University of Missouri-Kansas City Libraries' Strategic Planning Team. Baker also was named chair of the Association of Research Libraries' Committee on Access to Information Resources and will continue to chair its subcommittee on interlibrary loan and document delivery.

To press

Gerald Early, Ph.D., professor of English and director of the African and Afro-American Studies Program, edited and wrote an afterword for a new edition of "Savage Holiday" by Richard Wright. The edition is published by University Press of Mississippi. Early also is a new four-year member of the Massachusetts Institute of Technology's Corporation Visiting Committee for the Department of Humanities. ...

Steven G. Krantz, Ph.D., and **Stanley A. Sawyer**, Ph.D., both professors of mathematics, have written a book titled

"A T_EX Primer for Scientists." The book, which includes a computer disk, is published by CRC Press of Boca Raton, Fla., Ann Arbor, Mich., London and Tokyo. ...

The Japanese and Spanish translations of a book written by **Udo Kultermann**, Ph.D., Ruth and Norman Moore Professor Emeritus of Architecture, are expected to be published this spring by Chuo Koron Bijutsu Shuppan of Tokyo, and Akal of Madrid, Spain, respectively. The book is titled "The History of Art History." ...

An article written by **Richard Lazarus**, J.D., professor of law, titled "Pursuing 'Environmental Justice': The Distributional Effects of Environmental Protection," was selected as one of the best articles on environmental law in

1994. The article will be published in the annual Land Use and Environmental Law Review. The same article was cited in a treatise on environmental justice as one of the top environmental articles and books written. ...

Douglass C. North, Ph.D., Henry R. Luce Professor of Law and Liberty and director of the Center in Political Economy, wrote an article on "The Evolution of Efficient Markets in History" in a book titled "Capitalism in Context: Essays on Economic Development and Cultural Change in Honor of R. M. Hartwell." The book is published by The University of Chicago Press. ...

Prentice Hall of Englewood Cliffs, N.J., has published the fifth edition of a book

written by **Murray L. Weidenbaum**, Ph.D., Edward Mallinckrodt Distinguished University Professor and director of the Center for the Study of American Business. The book is titled "Business and Government in the Global Marketplace." Weidenbaum is on sabbatical this semester.

Guidelines for submitting copy:

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



Anthropology graduate student Josephine Andrews (far right, back row) stands with local villagers in Madagascar, where she is conducting ecological research. Her husband and co-researcher, Mohamed Jules, is wearing the beret.

Anthropology student receives international award

Josephine Andrews, a graduate student in the Department of Anthropology in Arts and Sciences, has received the Whitley Conservation Award for her Black Lemur Forest Project. The major international prize is funded by the Whitley Animal Protection Trust and the Royal Geographical Society.

"This is a major award and one that will bring Josephine's research interests to the attention of everyone in the conservation community," said Robert W. Sussman, Ph.D., professor of anthropology and Andrews' dissertation adviser.

The 2-year-old award provides an annual prize of 15,000 British pounds (approximately \$26,000 in American dollars) for the best project that makes a practical, lasting and substantial contribution to the conservation of animals and their habitats. The project can be multidisciplinary and at least one of the applicants must be British. Andrews is British.

Andrews studies black lemurs on an island off of Madagascar called Nosy Be, or "Big Island" in Malagasy. Her Black Lemur Forest Project involves long-term ecological research on black lemurs and their forest habitats; a Malagasy student-training program; educating island school-children about their environment; and developing ways for local villagers to generate income from the tourists who visit the expensive hotels on the other side of Nosy Be. Andrews hopes that the lemurs will attract tourists, who in turn will provide income for the villagers as well as preserve the lemurs and the forest.

"I think one reason I won the prize is because I put a very strong emphasis on working with Malagasy people," said Andrews. "My background is in conservation and I felt very strongly that I didn't

want to just go to Madagascar, get the information I needed and write my dissertation, so I put a lot of effort into raising money for a more integrated project. If my project succeeds, it could be used elsewhere on Madagascar, because the government is very keen on attracting tourists."

Andrews works with a team of Malagasy students, schoolteachers and researchers, including her husband, Mohamed Jules, whom she met in 1991 during her research.

Part of the award will go toward printing a map of the area created by the children. The map will include drawings of places sacred to the villagers, who will sell the maps to tourists. The money will go into a central fund to benefit the entire village. In addition, some village residents are learning French and English in order to give visitors guided tours. Andrews also plans to use some of the award money to build a traditional village hut for use as a tourist information office.

Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call 935-5500 (Hilltop Campus) or 362-3240 (School of Medicine).

"An Illustrated Dictionary of Dermatologic Syndromes" is the title of a new book by **Susan Bayliss Mallory**, M.D., associate professor of medicine (dermatology). She wrote the book with **Susana Leal-Khoury**, M.D., clinical fellow and instructor in medicine (dermatology). The book contains pertinent points about dermatologic syndromes and their associations. It is designed for use by dermatology and pediatric residents, medical students, dermatologists, pediatricians and primary care practitioners. In the dictionary, the authors have compiled a list of some of the most familiar (and some not so familiar) syndromes that have mainly cutaneous and/or physical findings. The purpose of the book is to help physicians become familiar with a wide variety of syndromes and to serve as a reference for identification when an individual case arises. Recent key references are included so that physicians can investigate specific syndromes in greater detail. (The Parthenon Publishing Group, Lancashire, United Kingdom; Pearl River, N.Y.)



Susan Bayliss Mallory



Susana Leal-Khoury

Introducing new faculty members

Hilltop Campus:

Christine A. Botosan, assistant professor of accounting, researches the empirical study of corporate reporting strategy, its determinants as well as its implications. She received a bachelor's degree in business administration from Wilfrid Laurier University in Waterloo, Ontario, Canada, in 1984. She expects to receive a doctorate in accounting from the University of Michigan in Ann Arbor this year.

Opportunities & personnel news

Hilltop Campus

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

Receptionist 950167. Medical Public Affairs. Requirements: High school graduate; one or two years secretarial/receptionist experience or training; typing 40 wpm with accuracy; general knowledge of executive office procedures; knowledge of computerized word processing and data systems, especially Microsoft Word; excellent organizational skills. Clerical tests required.

Support Center Specialist 950169. Accounting Services. Requirements: One year of basic scientific and manual skills education as is offered in technical institutes or junior colleges or an equivalent amount of on-the-job training; working knowledge of personal computers and ability to perform set up, maintenance and support; excellent work attendance record; capacity for light lifting and other manual work; experience operating and maintaining office equipment, including microfilm cameras, processing and mailing machines; ability to work independently with a high degree of self-motivation; strong service orientation; willingness to participate as a team member. Clerical tests required.

Deputized Police Officer 950186. University Police. Requirements: Completion of 640 hours of approved academy training for certification; ability to meet current police

officer standards and training commission standards for certification as a peace officer in a first class county in Missouri; ability to qualify for deputization as a police officer by the St. Louis County Police Department; Missouri driver's license. Application required.

Administrative Secretary 950187. University College. Requirements: Typing 50 wpm with accuracy; ability to handle multiple tasks and establish priorities under pressure; ability to meet public in a pleasant and professional manner; stamina for some hand deliveries of correspondence and packages across campus; excellent verbal and mathematical skills. Clerical tests required.

Administrative Assistant 950189. George Warren Brown School of Social Work. Requirements: Typing 45 wpm with accuracy; some college; personal computer proficiency, including word processing and spreadsheets; understanding of funding guidelines that apply to proposal preparation; ability to coordinate, write and proofread; above average knowledge of English grammar and spelling; self-study reaccreditation work. Clerical tests required.

Engineering Technician 950192. Facilities Planning and Management. Requirements: Associate's degree; three years experience with controls in the heating, air conditioning and ventilating field, specifically with troubleshooting and calibrating electric and pneumatic control devices; working knowledge of microprocessors, mini-computers or programmable timers. Resumé required.

Systems Programmer I 950193. Computing and Communications. Requirements: Undergraduate degree, master's degree preferred; two years experience in the data

processing field; knowledge of C language, OS JCL, and UNIX. Resumé required.

Electrician Mechanic 950194. Facilities Planning and Management. Requirements: Associate's degree; broad training in electrical/electronic work, plus experience as an electrician; ability to work from blueprints, drawings and sketches; ability to perform all phases of electrical maintenance; ability to interpret electric symbols; ability to interpret national electric code and perform work in accordance with code; working knowledge of primary voltages and potential hazards of same, all types of secondary voltage distribution systems, single phase and three phase four wire; ability to use all tools, mechanical and electrical; must furnish all tools pertaining to trade; familiarity and observance of all Occupational Safety and Health Administration requirements. Application required.

Senior Manager 950195. Accounting Services. Requirements: Undergraduate degree, graduate degree preferred; Certified Public Accountant; several years of public accounting experience; excellent accounting skills; working knowledge of GAAP; experience as a financial manager with responsibility for budgeting and reporting; three to five years of fund accounting and budgeting experience in a complex university environment; experience working with local area networks and personal computers; proficiency in word processing, spreadsheet, and database management software applications; ability to extract data and write reports using FOCUS; excellent interpersonal skills; a service-oriented communicator who is accessible and a team player. Resumé required.

Senior Proposal/Profile Specialist 950197. Accounting Services. Re-

quirements: Associate's degree; five years fund accounting experience; ability to process a large number of proposal budgets in a timely manner with a high level of quality; ability to read and understand agency proposal guidelines and identify and resolve potential problem areas; excellent interpersonal and communication skills; detailed knowledge of two sophisticated computer systems, grants budgeting and profile. Resumé required.

Government Grants Specialist II 950198. Accounting Services. Requirements: Associate's degree; four years fund accounting experience, including computer systems, preferably in a university environment; ability to read and understand guidelines for government grants; in-depth knowledge of the Public Health Service system for the electronic transmission of final reports; ability to process and prepare government grants final reports in a timely manner; excellent interpersonal and communication skills. Resumé required.

Mail Services Technician 950199. John M. Olin School of Business. Requirements: High school graduate or equivalent; typing 25 wpm with accuracy; Missouri driver's license with excellent driving record; ability to routinely lift 50-plus pounds; excellent manual dexterity; excellent organizational and communication skills; attention to detail; team player; ability to complete pickups and deliveries in a reliable and timely manner; ability to stand most of the day and carry items upstairs; capacity to learn and retain customer names and locations; knowledge of U.S. mail process, two years of postal or mail service experience preferred, specifically metering mail; familiarity with mail meters and equipment. Clerical tests required.

Director of Computer Support 950200. School of Law. Requirements: Bachelor's degree; three to five years experience in a managerial or technical supervisory role in a computer support department; extensive experience in the operation, maintenance and repair of a wide range of personal computer equipment; experience with NOVELL network administration; training experience strongly preferred; strong managerial, organizational and planning skills; demonstrated verbal and written communication skills; demonstrated ability to problem-solve and analyze computer support needs. Resumé required.

Executive Secretary 950202. Office of the General Counsel. Requirements: Some college; proficiency in WordPerfect 5.1; typing 60 wpm with accuracy; one year experience in a law firm preferred; self-motivation; ability to perform duties with minimal supervision. This is a floating position between the general counsel's office on Hilltop and Medical campuses. Clerical tests required.

Programmer Analyst III 950203. Computing and Communications. Requirements: Bachelor's degree; good language and people skills; ability to work with minimal supervision; ability to learn quickly and adapt to new circumstances; experience with use and management of desktop computers; knowledge of desktop database technology in a client/server environment highly desired; familiarity with DOS, Macintosh systems; knowledge of NOVELL, Appletalk, Windows and TCP/IP networking highly preferred. Resumé required.

Medical Campus

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

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

Secretary II 950538-R. Ophthalmology. Requirements: High school graduate or equivalent; three years secretarial experience, preferably in an academic setting; supervisory experience helpful; experience with word processing, Macintosh and Microsoft Word; typing 55 wpm.

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

Senior Editorial Assistant 950607-R. Neurology. Requirements: Bachelor's degree; experience with library searches using the computer; ability to learn several word processing packages and the on-line Euclid and Access systems; typing 45 wpm.

Library Assistant II 950613-R. Library. Schedule: 4 p.m.-midnight Mondays-Wednesdays, 4-10 p.m. Fridays, 8:30 a.m.-6 p.m. Satur-

days. Requirements: High school graduate or equivalent, some college; library experience and WordPerfect experience or training preferred; typing 50 wpm.

Payroll Clerk 950617-R. General Administration. Requirements: High school graduate or equivalent; one year related clerical experience; accounting and data entry experience; typing 35 wpm.

Payroll/Personnel Systems Assistant 950618-R. Microbiology. Requirements: High school graduate or equivalent, some college preferred; experience in bookkeeping, accounting or related field; experienced with FIS preferred; typing 50 wpm.

Secretary II 950625-R. Ophthalmology. Requirements: High school graduate or equivalent, some college preferred; knowledge of medical terminology preferred; experience with Microsoft Word/Macintosh; typing 50 wpm.

Coordinator II 950627-R. Gastroenterology. Schedule: Part time, 20 hours per week. Hours: 4-9 p.m. Mondays and Tuesdays, 9 a.m.-2 p.m. Thursdays, and 8 a.m.-1 p.m. Saturdays. Requirements: High school graduate or equivalent; some office-related experience; experience with medical insurance claims/records; IBM computer experience; typing 30 wpm.

Secretary I 950633-R. Neurology. Schedule: Part time, 20 hours per week, flexible. Requirements: High school graduate or equivalent, some college preferred; experience with library research using computers preferred; typing 50 wpm.

IBC Assistant II/Floater II 950638-R. Washington University Shared Billing Collection Service. Requirements: High school graduate or equivalent; two years related work experience; knowledge of IDX scheduling, BAR and CERNER application systems, third-party reimbursement, including HMO and PPO; knowledge of medical terminology. Position located at West Campus.

Facilities Maintenance and Service Coordinator 950657-R. Olin Residence Hall. Requirements: High school graduate or equivalent; a combination of seven years experience and education, including supervisory experience; hands-on experience as well as theoretical knowledge; ability to organize all housekeeping functions; experience in purchasing.

Manager, Programming and Development 950658-R. Finance Office. Requirements: Bachelor's degree in management information systems, business, management or related field; three years IS project management and supervisory experience; five additional years of system analysis and design.

Finding may slow disease progression — from page 1

been identified. Craft's findings suggest a link between the brain's ability to use insulin to regulate glucose and the progression of Alzheimer's disease.

Craft, who has studied memory function for 10 years, discovered insulin's role in memory by first looking at glucose.

"There had been growing evidence that a disruption in glucose accompanies Alzheimer's disease and contributes to the severe memory impairment so characteristic of the disease, so we set out to see how and if glucose regulation and memory function were linked," said Craft.

In an earlier study, published in the journal Behavioral Neuroscience in December 1993, Craft found that among elderly subjects with mild Alzheimer's disease, glucose elevation facilitated short-term memory. Glucose elevation did not improve the performance of patients with more advanced disease.

Craft observed that those subjects showing greatest memory improvement also showed abnormally dramatic increases in insulin response to the glucose infusion. Their bodies overreacted to the presence of glucose. Yet, among the subjects with more advanced Alzheimer's, there was a lower than normal level of insulin in their system responding to the glucose infusion.

"This type of bi-modal pattern is similar to what you see in several other disorders of glucose regulation," said Craft. "It's believed that the system is producing a lot of insulin to compensate for some imbalance and in doing so it actually overwhelms or burns out the insulin-producing cells in the pancreas. So you get an increase in insulin up to a threshold and then a subsequent decline as the insulin-producing beta cells are burnt out."

"This pattern of high insulin and memory facilitation in the early stages of the disease and low insulin and failure to

facilitate memory in the later stages made us suspect that insulin had something to do with the progression of the disorder."

'A way of getting at the disease'

It was this observation that led Craft to her current study, in which she demonstrated that glucose levels are only part of the problem and that cognitive function is even more directly affected by insulin levels.

After finding that insulin levels strongly influenced memory function, Craft returned to the data of her earlier study that had tested the effect of glucose on memory. She looked to see if changes in insulin correlated with changes in memory performance, which they did.

"We found that among those whose disease remained stable at the mild phase, memory was again significantly improved with an infusion of glucose. However, patients whose dementia had progressed to a more severe form no longer could improve their memory by taking glucose."

In reviewing the data, Craft found that the subjects whose initial evaluation was mild dementia, but whose dementia had progressed by a second evaluation, had the highest insulin levels of all at the first testing and showed the biggest decrease in insulin from the first testing to the second.

"We found significant and high correlations between patients whose insulin levels had dropped the most and also showed the greatest decline in memory ability. That suggested insulin plays some part in determining the rate of cognitive decline."

"This link between insulin levels and progression of dementia suggests a way of getting at the disease," said Craft. "If we were able to improve subjects' glucose regulation, perhaps we could slow down the progression of the disease."

— Debby Aronson

Q&A

Addressing employee questions concerning the Washington University community

Q: What are the parking fees used for?

A: Parking fees are used to operate and maintain the parking and shuttle operations of the University. The costs of these operations include personnel, operations, debt service on the

parking garages, as well as a maintenance fund for major repairs.

— Richard A. Roloff, executive vice chancellor

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