In-placement becomes campuswide effort

St. Louis carjackings urge police warning

Carjacking is becoming the "growth crime of the 1990s," according to The National Crime Prevention Council. In response to two recent incidents in St. Louis, the Washington University Police Department has released tips to make people less vulnerable to this new kind of car theft.

On April 14, a Washington University student suffered a minor concussion when she was hit over the head with a rock and her friend's vehicle was stolen as she left an internship assignment at 23rd and Pine streets in St. Louis. The day before, a Clayton man was killed when he resisted an armed carjacker in the parking lot of the Mid-County YMCA in Brentwood. Washington University Police Chief William Taylor said no one should assume that he or she is immune to this new type of crime.

"Just because you drive an older or less attractive vehicle, don't be lulled into a false sense of security," Taylor said, explaining that some criminals carjack just to joyride and, according to recent law enforcement research, some gangs have adopted carjacking as an initiation rite.

Law enforcement officials attribute the nationwide increase in carjacking to the fact that criminals find it easier to take a vehicle directly from a person using the keys than to break into a vehicle, especially with today's elaborate alarm systems.

The University Police Department in conjunction with The National Crime Prevention Council offers the following tips to avoid carjacking:

• Be alert to any activity near your car.
• Have your key in your hand when approaching your car and check the handles, locks and backseat before entering.
• Once you're in your car, keep your doors and windows locked.
• Stay out of high crime areas, especially after dark.
• Be suspicious of people approaching your car asking for directions or change or giving out flyers.
• When stopping in traffic, leave enough distance between your car and the one in front of you so you can pull away quickly.
• If a suspicious-looking person approaches your car, drive away carefully, even if you must go through a traffic light.
• If you're driving home and there's somebody walking down the street that you don't recognize, drive around the block and come back after that person has left.
• If another driver bumps your car or your tires go flat, keep your doors and windows closed and wait for the police to arrive or drive slowly and safely to the nearest police station.
• Be alert when using drive-up automated teller machines.
• If you have a cellular phone, call for help.
• If you are confronted, don't resist.

"Rather than lay people off, we are developing a structure to maximize the chance of finding other suitable employment here at the University," — Sara Johnson

Employees train fellow employees to be more effective at their jobs

About 20 employees from several University departments spent much of last week learning how to be more efficient and effective at their jobs. These employees will teach other employees what they've learned and eventually every employee at Washington University will have had the opportunity to be trained in the principles of "Service for Success."

The training program began at Washington University earlier this year when about 50 employees were nominated from across campus to participate in two pilot groups. During the pilot sessions, Mary Ammerman, a service training consultant with Ammerman Associates Inc., focused on four areas: service, communication, managing communication and handling difficult situations. From the original 50 participants, 20 individuals were selected to continue in the program and attend the first session of "Train the Trainer" this month.

Employees who attended the initial sessions in February say they already are applying the skills they learned. In the service context, for example, employees learned to evaluate how they are perceived by others. During the communication lessons, they learned the difference between assertive and aggressive behavior, the importance of non-verbal communication and how to listen and question effectively. In the final lesson, employees learned specific techniques to handle difficult situations.

"These are skills that everyone can take back to the office and use on a daily basis," said Lari Strimkovsky, business manager for the School of Law. "What we learned are not esoteric theories, but real communication skills, goal-setting techniques that we can really use. I have been to many professional development workshops, but I found this to be right on target."

The mission of the "Service for Success" program is "to provide an ongoing service training program for the benefit of those whom we serve (students, parents, alumni, faculty, colleagues and others) and to help us all be more effective in what we do in support of the mission of Washington University."

"Train the Trainer" sessions emphasize experiential techniques, including real-life

'Service for Success'

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Scientists find clues to the forces that permanently shape the developing nervous system.

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Engineer John Kardos, Ph.D., brings composite materials, once defense industry staples, into medical arena

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Relief workers are concerned about low volunteer turnout in recent flooding
New clues that reveal how the nervous system establishes and maintains stable synaptic connections for a lifetime may help scientists understand how experience permanently alters circuits in the brain, according to School of Medicine researchers.

Jeff Lichtman, M.D., Ph.D., has devised a method for selecting, staining and viewing the same neuromuscular junction of newborn mice over a period of months. This technique, magnified in this microscopic image, provides an unique window on the developing nervous system.

The forces that permanently shape the developing nervous system have long been inscrutable to scientists. Lichtman's group asked whether the nerve or its muscle determines the regions to have a high density of receptors underneath. The next question Lichtman's group asked was whether the nerve or its receptors disappeared first. They found that

the muscle fiber withdrew receptor sites before the nerve withdrew. These events left Lichtman with plenty of questions to consider. How can the muscle differentiate two sets of contacts, both from native fibers coming from the right part of the spinal cord, both from neurons releasing the same neurotransmitter? The answer, he believes, is to be found in the discourse between nerves and receptors, a language created by electrical activity from nerve to muscle fiber. No two inputs talk at the same time — they fire asynchronously.

Lichtman and postdoctoral associate Rita Balice-Gordon, Ph.D., designed an experiment to see if experimentally induced changes in neural activity could give rise to changes in connections in a muscle that are exactly the same as those that occur during development. In a living mouse, they studied a neuromuscular junction in which they locally blocked the ability of acetylcholine to bind to the neuromuscular junction as being part of the brain, it is a synapse that is showing the sort of activity-mediated change that is probably going to inform us about long-term changes that take place in learning and memory.

— Jim Keesey

Nobel Prize winner Edwin Krebs to deliver Erlanger-Gasser Lecture April 29, at the School of Medicine. Krebs, a 1943 graduate of the School of Medicine, is a professor emeritus of cell biology and endocrinology at the University of Washington in Seattle and a member of the University's Eliot Plantation.

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Edwin G. Krebs

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Krebs has maintained his relationship with Washington University over the years. He is a member of the University's Eliot Society and received the University's Distinguished Alumni Award in 1972 and the school's medical alumni Achievement Award in 1988.

He joined the University of Washington faculty in 1944 and has conducted much of his research there with colleague Edward H. Fischer, M.D. The two shared the Nobel Prize in 1962. As a leading educator, Krebs helped form the University of Washington's medical school and has had a distinguished career there. Krebs also served for 11 years as professor and chair of the Department of Biological Chemistry at the University of California at Davis.

The Department of Cell Biology and Physiology sponsors the Erlanger-Gasser Lecture to honor Joseph Erlanger, M.D., and Carl Gasser, M.D., who received the Nobel Prize in 1947. They held a postdoc- toral fellowship in the Cori lab, which now has over 500 scientists. Krebs is a member of the University's Eliot Society and received the University's Distinguished Alumni Award in 1972 and the school's medical alumni Achievement Award in 1988.

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Kardos' career reflects changing times

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Washington People

Kardos' career reflects changing times

In 1965, John L. Kardos, Ph.D., assistant professor of chemical engineering, began his Washington University career teaching undergraduate chemical engineering and researching composite materials. Kardos is the recipient of the ARPA grant for 20 years. The nation's first gathering of academics to study composites, the laboratory is a sort of long-playing Woodstock for materials scientists. In the early years, Kardos and team members concentrated on solving the ways the composites would react with each other and the chemistry and physics of the interface—the boundary that a polymer or plastic shares with carbon or glass. In the late '60s, the critical problem with composite materials was predicting what the mechanical properties would be. Therefore, one had to know what sort of equations to use to predict the properties of materials, and there were problems with the interface, too. To advanced composites, and the automobile and railroad industries looked to advanced composite technology for a future. By 1980, the average new American automobile off the assembly line was made with carbon and glass-reinforced plastics—composites. While one war ended, the Cold War still simmered, so there was a steady demand for defense applications. In the '80s, the aerospace industry shifted emphasis from small parts to larger composite parts. The problems of making composite parts less expensively still is being addressed in 1994.

In the '70s, Kardos became interested in biomaterials. With funding from the National Institutes of Health, he and former Washington University mechanical engineering professor Bill Swanson, Ph.D., developed several research projects to test heart valves and other cardiovascular materials; they worked protocols for biomaterials testing now used in the hospital. Collaborating with Washington University scientists in civil engineering, mechanical engineering and the School of Medicine, Kardos and colleagues made an artificial heart valve out of unrefined plastics (as opposed to composites, which are reinforced). The artificial heart valve has been licensed for commercial development.

"I always thought it a good idea to move advanced composites into the biomedical area," said Kardos.

In fact, I have a proposal now that I would like to fund. It involves taking carbon-carbon materials used, for instance, for warhead re-entry cones, and applying them to the construction of artificial hip joints and other biomaterials."

Kardos said his early involvement with ARPA programs influenced his research outlook.

"We were always told to have a practical application for our research," he said. "The Navy in particular would ask, 'What will this be used for? What can you do with this down the line?' I've always tried to avoid these-type questions. Doing research just for the sake of doing it is not efficient. By 1980, the average new American automobile off the assembly line was made with carbon and glass-reinforced plastics—composites. When I think of how much money is spent on research, I can see the major impact on current technological problems." The current ARPA grant involves Kardos, a variety of Washington University researchers and a host of regional and national collaborators using advanced composites, once staples of the defense industry, and applying them toward improving the nation's crumbling infrastructure, especially bridges. The grant, awarded in August 1983, is a multimillion dollar project, drawing together many research partners, including McDonnell Douglas Corp., a "swords-to-plowshares" transformation, with advanced composites at the core. Missouri is second only to Texas in deficient bridges. With problems such as those in southeastern Missouri, stronger, lighter and more durable bridges make imminent sense. Kardos and his collaborators are working to have bridges built in Missouri with composite materials as a practical demonstration of which—traditional construction materials or composites—is the more durable construction system.

"John is an ideal collaborator, easy to communicate and share ideas with, and he has a tremendous perspective on engineering problems," said Thomas G. Harmon, Ph.D., Chief Marine Programs Office. "Many of the ideas that a number of us are working on started in conversations with John. The natural habitat of his contributions to engineering and science is clearly forward-looking and is to society." Kardos often muses over the changes of the past 30 years. "Just look at the cyclical nature of advanced composites," he said. "The changing times reflect changing ARPA. In 1965, they were ARPA; a few years later, they changed their name to DARPA, reflecting increasing military interest. In the past couple of years, they're ARPA again, symbolic of a broader involvement in advanced composites research. So, we've come full circle in that respect."
Exhibitions
"Master of Fine Arts II" Feature creations by master of fine arts students. (Opening: 5-7 p.m. April 29.) Through May 6. Gallery of Art, upper floor. Lehman Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.
"Parteeus, Five Hundred Years" Through July 15. Gasser Gallery, School of Medicine Library. Heap. 9 a.m.-9 p.m. weekdays; 1-5 p.m. weekends. 362-3980.
"Core Show." Features works of first-year and sophomore art students. Sponsored by the School of Fine Arts. April 29 through May 23. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. 935-6597.
These works are part of the "Core Show," which features art by first-year and sophomore art students. The annual Washington University School of Fine Arts exhibit will be held at various locations and dates in April and May. Student works can be purchased. "We would like to remind people that this is an affordable way to acquire unusual and unique art works at affordable prices," said Libby Reuter, assistant dean of the School of Fine Arts. For more information, call 935-6597. All of the student exhibits will be listed in the Record calendar.

Films
Thursday, April 28
7 and 9 p.m. Filmboard Foreign Series. "Pippe Mole" (1937, B&W), in French with English subtitles. Room 100 Brown Hall. Cont. $3. For 24-hour Filmboard hotline, call 935-5983.

Friday, April 29
6, 8 and 10 p.m. Filmboard Feature Series. "Rules of the Game" (1939). (Also April 27, same times, and May 1 at 6 and 8 p.m.) Room 100 Brown Hall. Cont. $3.

Lectures
Thursday, April 28


1 p.m. Neurosciences Program thesis defense. "Interactions of Cerebral Neurons With the Brain Laminin Protein S-Laminin," Brenda Porter, graduate student, Division of Biology and Biomedical Sciences. Room 928 McDonnell Medical Sciences Bldg. 4 p.m. Biology and biomedical sciences student-organized seminar. "Excitatory Synaptic Transmission Between Hippocampal Neurons," Craig E. Craig, John Institute, Oregon Health Sciences U., Portland. Erlanger Aud., McDonnell Medical Sciences Bldg.


4:30 p.m. Program in Physical Therapy Fifth Annual Steven J. Rose Lecture. "Re-examining the Marvelity of Spinal Stretch Reflexes: Implications for Rehabilitation..." Steven L. Wolf, prof., Dept. of Anatomy and Cell Biology, Emory U., Atlanta. Moore Aud. 935 McKinley Hall.


Monday, May 2
4 p.m. Immunology seminar. "The Theme of Shared Cytokine Receptor Subunits: Implica- tions for X-linked Severe Combined Immunode- ficiencies," Warren J. Leonard, chief, Section of Pulmonary and Molecular Immunology, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, Md. Third Floor Aud., St. Louis Children's Hospital.

7 p.m. Molecular biology seminar. "Protein- catalyzed DNA Unwinding," Timothy G. Brodie, prof., Dept. of Biochemistry and Molecular Biophysics. Room 423 McDonnell Medical Sciences Bldg. (Diner: 6:30 p.m.)

Wednesday, May 4

4 p.m. Biochemistry and molecular biophys- ics seminar. "Helix Interactions in Membrane Protein Folding and Oligomerization," Donald Engelkamp, prof., Dept. of Molecular Biology and Immunology, U. of Michigan, Ann Arbor. Room 775 McDonnell Medical Sciences Bldg. (Refreshments: 3:45 p.m.)

Saturday, April 30

4 p.m. Immunology seminar. "The Theme of Shared Cytokine Receptor Subunits: Implica- tions for X-linked Severe Combined Immunode- ficiencies," Warren J. Leonard, chief, Section of Pulmonary and Molecular Immunology, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, Md. Third Floor Aud., St. Louis Children's Hospital.

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Thursday, May 5
11:15 a.m. Social work seminar. "Mental Health Service Delivery: The Managed Care Perspective." Peter A. Ambrose, director, Managed Mental Health Services, Blue Cross/ Blue Shield of Missouri, Administrative Cen- ter, 1315 S. Hampton. 935-5687.

Area flood victims still need help

Harry E. Kisker, vice provost and head of the University's African and Afro-American Studies Program panel discussion. He is only the fourth player in a career. He is only the fourth player in a career. He is only the fourth player in a career.
University participation sought in arts fund drive

Members of the University community still give to the Arts and Education Council (A&E) of St. Louis fund drive. The annual A&E drive, which began last month, raises funds for the more than 150 arts, cultural and arts education organizations in the bi-state area.

So far this year contributions from Washington University and the St. Louis campus staff have totaled almost $20,000. The University's goal is $30,000.

To make a contribution, you can purchase a new pledge card, call Sue Mack at 905-6578, or write to the A&E office.

Donors of $25 or more will receive the A&E quarterly newsletter. This newsletter is on up-to-date listing of special events and information for members only. Donors of $40 or more will receive the Library Card, which entitles them to half-price and two-for-one discounts for many cultural activities listed in the newsletter.

Employees Marcia Hayes Harris, William Witbrodt and Larry Snyder, left to right, participate in last week's "Train the Trainer" program. This summer these and 17 other trainers will begin teaching fellow employees the principles of "Service for Success."
Many honored at first Greek awards reception

Notorious students, faculty and staff members were honored recently during the 1994 Maurice Chambers/Adelphi Greek Awards Reception held in Holmes Lounge. The first annual Greek awards reception was held to honor those who have excelled in academics and campus, community and Greek activities.

The Interfraternity Council presented the following honors: Teaching Excellence Award to Wayne Fields, Ph.D., professor of English and dean of University College; Order of Omega Scholarship Award Highest Grade Point Average (GPA) New Members to Tau Kappa. Many honored at first Greek awards reception

Introducing new faculty members

The Record is running a series profiling new faculty on the Hilltop and medical campus.

Talat Chahal, M.D., associate professor of pediatrics, comes from Harvard Medical School in Cambridge, Mass., where he was an assistant professor of pediatrics. He has beenappointed with tenure to the faculty of pediatrics. He will study immune deficiency and lymphocyte activation. He received a bachelor's degree in science in 1979, a master's degree in science in 1981, and a medical degree from the American University of Beirut in Lebanon.

Epsilon (3.34, fall 1993), fall 1993);Order of Omega Scholarship Award Highest GPA;New Mexico State University;Alpha Theta (2.9, fall 1993);Order of Omega Scholarship Award Highest GPA;Alpha Epsilon Phi (3.3, fall 1993);Outstanding Panhellenic Delegate to Sigma (fall 1993);Alpha Epsilon Phi;Xi reads Pennsylvania Foundation of Princeton, N.J. As one of seven students, he received a $12,750 stipend for the 1994-95 academic year. The program also covers tuition and fees. Moyn will study modern history in a graduate program at the University of California, Berkeley, this fall.

Liu-Chen Cheng, a doctoral student at the George Warren Brown School of Social Work, was elected vice-president of the program as a student. He has been the first annual Greek awards reception at Cornell University in Ithaca, N.Y. At the American Society for Aesthetic Plastic Surgery's 14th annual convention held in Madison, Wis., Anita M. Olan, a graduate student in comparative literature at Brown University, presented a paper on "Re-conceiving Eve: Woman as Captive in Pre-Islamic Iran." Robert D. Tucker, Ph.D., assistant professor of earth and planetary sciences, delivered a lecture on "Resolving the Fourth Dimension: High-precision Dating of Tiny Bits of Time" as part of a colloquium series held at Harvard University in Cambridge, Mass. The series was sponsored by the university's Department of Earth and Planetary Sciences.

On assignment

Ronald G. Evans, M.D., director of the Science Center at the University of Utah's Institute of Radiology, was elected vice-president of the Radiological Society of North America's Board of Directors. Evans, a fellow of the college, will assume his duties as vice-chair in September.

Students endure five-hour battle at international computer contest

A student team recently placed fourth in a unique computing contest hosted by the American College of Radiology's Board of Directors. The student team recently placed fourth in a unique computing contest hosted by the American College of Radiology's Board of Directors.

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Epsilon (3.34, fall 1993);Order of Omega Scholarship Award Highest GPA;New Mexico State University;Alpha Theta (2.9, fall 1993);Order of Omega Scholarship Award Highest GPA;Alpha Epsilon Phi (3.3, fall 1993);Outstanding Panhellenic Delegate to Sigma (fall 1993);Alpha Epsilon Phi;Xi reads Pennsylvania Foundation of Princeton, N.J. As one of seven students, he received a $12,750 stipend for the 1994-95 academic year. The program also covers tuition and fees. Moyn will study modern history in a graduate program at the University of California, Berkeley, this fall.

Liu-Chen Cheng, a doctoral student at the George Warren Brown School of Social Work, was elected vice-president of the program as a student. He has been the first annual Greek awards reception at Cornell University in Ithaca, N.Y. At the American Society for Aesthetic Plastic Surgery's 14th annual convention held in Madison, Wis., Anita M. Olan, a graduate student in comparative literature at Brown University, presented a paper on "Re-conceiving Eve: Woman as Captive in Pre-Islamic Iran." Robert D. Tucker, Ph.D., assistant professor of earth and planetary sciences, delivered a lecture on "Resolving the Fourth Dimension: High-precision Dating of Tiny Bits of Time" as part of a colloquium series held at Harvard University in Cambridge, Mass. The series was sponsored by the university's Department of Earth and Planetary Sciences.
Hilltop Campus

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

Research Technician

 require at least an Undergraduate degree in biological sciences; conscientious, meticulous and careful. Responsibilities: Conducting experiments, keeping and maintaining of lab records and strain collections. Resume required.

System Administrator


Stock Clerk

490238. Campus Store. Requirements: High school graduate; good physical condition for recurring lift of moderately heavy items; typing; excellent attendance record, outstanding customer-service attitude; to work evenings and Saturdays (10:30 a.m. to 7 a.m. Thursdays and 10 a.m. to 4 p.m. Saturdays); retail experience desirable. Clerical tests required.

Assistant Law Librarian-Cataloging and Serials

Freelaw Library. Requirements: Bachelor's degree in law science from an accredited institution, five years professional experience in technical services in a law library; management and supervisory experience with automated cataloging systems, INNOPAC Experience preferred; flexibility. Duties: Manage all aspects of technical services, including cataloging, serials, and the mail. Salary is competitive; some commutation allowances and qualifications and experience. Position is available in June 1994. Inquiries and resumes should be sent to: J. Cas, Librarian, Freelaw Library, Campus Box 1171, Washington University School of Law, One Brookings Drive, St. Louis, Mo., 63130-4899.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Em- ployees who are former Washington University students with third-party reimbursement; good human relations; ability to deal with multiple priorities; proficiency in trouble-shooting and systems analysis. Resume required.

PC Systems Manager

490228. Engineering Accounting. Requirements: Bachelor's degree; should demonstrate a high level of skill in debugging and troubleshooting system setup and software installation problems; experience with Macintosh, DOS, Windows and UNIX; familiar with large data sets; ability to work in a pleasant businesslike manner; ability to work under pressure; physical stamina; interest in other languages; excellent communication skills. Resume required.

Interlibrary Loan Borrowing Assistant

490229. Oblin Library. Requirements: Four years experience in library experience; knowledge of library systems; proficiency in logical problem solving; ability to communicate orally and in writing; ability to work in a pleasant businesslike manner; ability to perform clerical tasks; ability to concentrate; bilingual skills and familiarity with foreign languages desirable; experience with the OCLC terminal helpful; ability to work under pressure; physical stamina; typing 35 wpm with accuracy. Clerical tests required.

Director of Engineering Accounting

490228. Engineering Accounting. Requirements: Bachelor's degree; should demonstrate a high level of skill in debugging and troubleshooting system setup and software installation problems; experience with Macintosh, DOS, Windows and UNIX; familiarity with large data sets; ability to work in a pleasant businesslike manner; ability to work under pressure; physical stamina; interest in other languages; excellent communication skills. Resume required.

Biochemistry

Research Technician

490230. Biochemistry. Requirements: Bachelor's degree in biological sciences; conscientious, meticulous and careful. Responsibilities: Conducting experiments, keeping and maintaining of lab records and strain collections. Resume required.

System Administrator


Stock Clerk

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