In-plant becomes campuswide effort

Taylor said no one should assume that he or she is immune 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 elimination assignment at 23rd and Pine streets in St. Louis. The day before, a Clayton man was killed when he resisted an armed carjackers 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 fooled 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 for 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 bursts your car or your tires go flat, keep your doors and windows closed and wait for the police to arrive or drive slowly 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

Sophomore Brett Levin sports a red nose after making a donation supporting Sudden Infant Death Syndrome (SIDS) awareness. Red Nose Day USA is a public awareness and fund-raising campaign for SIDS. Organizers say "when you wear a red nose on April 15, you make your concern for saving babies' lives as plain as the nose on your face." Pan-Hellenic President Jamie Gray (left), a junior, and sophomore Elizabeth Ryan volunteered in Mallinckrodt Center, distributing red noses for a donation. A drive also was held in the sorority suites.

'Service for Success'

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 the Hilltop 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 excellent performers displaced," said Sara Johnson, special assistant to the chancellor and chair of the In-plant Committee. It is the concept of "in-plant" workable at Washington University? So far, the answer appears to be yes. When Washington University modernized its power plant operation last summer, four workers' jobs were eliminated. Today, the four employees are working as maintenance crew members for the University's Department of Facilities and Management's Technical and Maintenance Operations.

At the University sold some of its off-campus real estate, two employees of the property management division found that their duties, which included taking care of off-campus buildings, were becoming unnecessary. Today, the employees get full time for the Department of Facilities and Management, one is managing the West Campus, the other is managing the Hilltop Campus' green zone.

An employee who worked in the payroll division of Accounting Services indicated that she would rather work on the Hilltop Campus, in a more academic environment. She now is doing accounting for the Department of Biology.

"She is a terrific employee and we hated to see her go, but she's still at the University."

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WASHINGTON UNIVERSITY IN ST. LOUIS
Vol. 18 No. 29 April 28, 1994
Medical Update

Findings give insight on developing nervous system

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 a 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 hypothesized that, after a synapse forms over a period of months, the forces that shape the synapse are the same as those that occur during development.

The answer, he believes, is to be found in the discourse between nerves and receptors, a language created by electrical activity from nerve impulses. 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 receptor site at the neuromuscular junction. Ordinarily all receptors in this region receive input (acetylcholine) at the same time, or synchronously. This specially modified muscle fiber was normal except for the small blocked region. Lichtman and Balice-Gordon found that the muscle noticed the difference almost immediately. "Within days, all the receptors in that region disappear, and shortly the nerve terminal sitting over them falls off," he noted. "The change is permanent." If, however, all receptors at the neuromuscular junction are blocked, nothing happens at all. The connection remains, meaning that only in the presence of activity are inactive regions eliminated. "By changing the experience at a neuromuscular junction, you can cause a permanent change in the connections there," Lichtman said. "Although you don’t think of 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 on those long-term changes that take place in learning and memory."

-Jim Keeley

Nobel Prize winner Edwin Krebs to deliver Erlanger-Gasser Lecture

Nobel Prize winner Edwin G. Krebs, M.D., will deliver the annual Carl V. Moore Research Lecture Friday, April 28, at the School of Medicine.

Krebs, a 1943 graduate of the School of Medicine, is a professor emeritus of biochemistry and molecular biology and a senior investigator at the Howard Hughes Medical Institute. He received the 1992 Nobel Prize in physiology or medicine for his work explaining how enzymes are activated and deactivated. He is credited with providing a nearly cellular foundation.

Edwin G. Krebs

search by others based on his work — have had an impact on areas as diverse as transplantation, endocrinology, growth and development, immunology and cancer. Krebs will discuss his work in a lecture titled "Protein Phosphorylation Cascades and Growth Factor Signaling" at 4 p.m. in the Carl V. Moore Auditorium of the North Building, 4580 Scott Ave.

In addition to being a graduate of the medical school, Krebs also completed a research fellowship in the University’s biological chemistry department and served his residency in internal medicine at Barnes Hospital. While a student, resident and research fellow in St. Louis, Krebs worked under and was greatly influenced by Carl and Gertrude Cori, who won the Nobel Prize in 1947. He held a postdoctoral fellowship in the Cori lab, which now has spawned eight Nobelists, from 1946-48.

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 alumni Achievement Award in 1988.

He joined the University of Washington faculty in 1948 and has conducted much of his research there with colleague Edward H. Fischer, M.D. The two shared the Nobel Prize in 1996, 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 Herbert Gasser, M.D. The Erlanger-Gasser Lectures were inaugurated in 1910 and were named in honor of the two scientists who received the Nobel Prize in 1903. They marked the beginning of the Department of Physiology to 1936. Gasser joined the department in 1916. Krebs then served as head of the Department of Pharmacology from 1921 to 1932. Erlanger and Gasser shared the Nobel Prize in physiology or medicine in 1944 for their studies of fundamental properties of nerve cells.
I n 1965, John L. Kardos, Ph.D., assistant professor of chemical engineering at Washington University, was named the first endowed professor in the newly created position of the John L. McKelvey Chair in Chemical Engineering. Kardos was fresh from the Case Institute of Technology in Cleveland, Ohio. The two engineers literally taught one another about composite materials. "Ed knew the mechanics of the problem, and I knew the chemistry and physics of the interface — the boundary that a polymer or plastic shares with carbon or glass," Kardos recalled in his second annual report.

In those early years, the University was a bastion of the defense department by some," Kardos said. "There were occasions when the school was literally attacked by students and provocateurs from outside the core. Missouri is second only to Texas in deficient construction materials or composites — is the more durable way to ploughshares' transformation, with advanced composites in the core. Missouri, stronger, lighter and more durable bridges make a big grant from the Advanced Research Project Agency (ARPA) for work on composite materials in Kardos' Urbauer Hall office. Kardos holds a golf club handle also made of composites. "In the late '60s, the critical problem with composite materials was predicting what the mechanical properties were going to be. We had to know how to 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 composites for more efficient design. By 1980, the average new American automobile off the assembly line was made with expensive composites and reinforced plastics — composites. While one war ended, the other researchers believed in the many potential applications of composites, which are reinforced. The artificial heart valve that has been licensed for commercial development.

"I always thought it a good idea to move advanced composites into the biomedical arena," said Kardos. "It is a matter of improving the nation's crumbling infrastructure, especially bridges. The grant, awarded in August 1993, is a multimillion dollar project, drawing together many research partners, including McDonnell Douglas Corp. in a 'swords to ploughshares' transformation, with advanced composites.

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"In 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., Dean of Marl-Marphy College of Engineering. "He has many of the ideas that a number of us are working on started in conversations with John. The practical nature of his contributions to civil engineering and the national and regional communities he has engaged has been a tremendous benefit to the University of Missouri.

"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 can be reflected in changing times. What happened to the nation, the world, and Wash-
**Exhibitions**

Center of Contemporary Arts Annual carded Exhibition, "Cape America's Cultural Diversity," a print exhibit by Jeffrey Miller. Through April 30. Sipple is an artist and director of education at Tamart Institute, Galveston, TX. "Filmstrip" exhibition is held in collaboration with the School of Fine Arts. Center of Contemporary Arts, 524 Truesd Ave. 935-6571 or 725-6555.

"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, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5600.

"Paracelsus, Five Hundred Years." Through July 1. Olin Library, Special Collections, level five. Hours: 9 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5700.

"The Authentically Worded: Victorian Illustrated Books, 1828-1900." Through April 3. Olin Library, Special Collections, level five. Hours: 9 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5600.

**Films**

**Thursday, April 28**


**Friday, April 29**

6, 8 and 10 p.m. Filmboard Feature Series. "Brazil's Last River" (1992). Times: 6, 8 and 10 p.m. noon 1 a.m. and 6 a.m. 9 p.m. Room 100 Brown Hall. Cost: $3.

**Lectures**

**Thursday, April 28**


3 p.m. Molecular biology seminar. "Protein-catalyzed DNA Unwinding," Timothy Lehman, prof. of Biochemistry and Molecular Biology. Room 423 McDonnell Medical Sciences Bldg. (Dineer. 6:30 p.m.)

**Wednesday, May 4**


4 p.m. Molecular biology and molecular biophysic seminar. "Helix Interactions in Membrane and Expression of Related Phenotypes." Michael Kofsky, assist. prof. of Biochemistry and Molecular Biology, U. of Michigan, Ann Arbor. Room 775 McDonnell Medical Sciences Bldg. (Refreshments, 3:45 p.m.)

**Saturday, April 30**

9 a.m. Saturday Morning Neonatal Neurology Seminar Series: "What's Behind Images in the Mind?" Marcus Raichle, prof. of Neurology and Neurological Surgery, Erlanger Aud., McDonnell Medical Sciences Bldg. (Refreshments, 3:45 p.m.)

**Monday, May 2**

4 p.m. Immunology seminar. "The Theme of Shared Cytokine Receptor Subunits: Implications for X-linked Severe Combined Immunodeficiencies." 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 Lehman, prof. of Biochemistry and Molecular Biology. Room 423 McDonnell Medical Sciences Bldg. (Dineer. 6:30 p.m.)

**Thursday, May 5**

11:15 a.m. Social work seminar. "Mental Health Service Delivery: The Managed Care Perspective." Peter A. Ambrose, prof., Div. of Obstetrics and Gynecology, Northwestern U. Medical School, Evanston, Ill. Clinton Aud., 4950 Children's Place.

4 p.m. Biochemistry and molecular biophysic seminar. "Helix Interactions in Membrane and Expression of Related Phenotypes." Michael Kofsky, assist. prof. of Biochemistry and Molecular Biology, U. of Michigan, Ann Arbor. Room 775 McDonnell Medical Sciences Bldg. (Refreshments, 3:45 p.m.)
Area flood victims still need help

Harry E. Kisker, vice provost and head of the Department of Music, asked committee, volunteers are needed to help with recent flooding. More than 20 members from various University areas met regularly last summer to mobilize the university community for flood relief. Kisker called a meeting last week when heavy rains again threatened surrounding areas. Flood waters rose so quickly many residents didn’t have time to evacuate or to sandbag. In the Valley Park and Cedar Hill areas alone, 400 homes were damaged or lost.

The recent floodwaters on the Meramec River were only two feet below 1982’s record crest.

Unfortunately, Salvation Army workers re-gathering the troops has been difficult, and the lack of response has been demoralizing for flood victims.

Kisker said Salvation Army volunteers cite a number of reasons for low turnout:

- "Many people are just burnt out on floods," Kisker said. "There is also some resentment for the flood victims who are still living there. People think, 'Why didn't they get out sooner.'"

The university community has additional time pressures as finals draw near herself, she desperately wishes to receive news of her children from whom she has not heard in some time. When she finally is reunited with her daughter, Paulna, she tells her she has not forgotten the child she bore out of wedlock and begs for news of him. Three years later, Paulna, for two years, and Angelica, familiar with various gestures, perceived in order to join her son in heaven.

In addition to "Suor Angelica," the Washington University Opera and teacher of Music, Victor T. Le Vine, Ph.D., professor of music, will perform the opening scene of the fourth act from "La Bohème" and "Turandot" at 8 p.m. Thursday, May 5, in Graham Chapel. "Suor Angelica" is a one-act opera from Puccini’s trio of operas titled "Il Tritico". "Graham Chapel is the ideal setting for a recital," said a UAA-record time of: 15.01. Hudnall, the performance, the University announces, is a winning combination. Foster earned her The performance, which is free and open to the public, will be presented in a 17th-century setting.

The opera focuses on Sister Angelica, a young woman of noble birth, who becomes pregnant by a soldier during the summer. If you are uncertain about a deadline, call Kisker at 935-4809.

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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

Numerous faculty, staff and students were honored recently during the 1994 Maurice Chambers/Adams Greek Awards Reception held in Holmes Lounge. The purpose of this awards reception was 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 to Sigma Alpha Epsilon; and the Campus Authors Award to New York, N.Y.)

For more information, call 935-5329.

Guidelines for submitting copy:

Send your full name, complete title, department, affiliation and highest earned degree, along with a typed description of your noteworthy activity for To the Record, c/o Carolyn Sanford, Campus Box 1070, or to the Record, 527245@wouwan1.wustl.edu. Items must be received five days in advance. For information, call Sanford at 935-5329.

Introducing new faculty members

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

Talal Chatla, M.D., associate professor of pediatrics, is from Harvard Medical School in Cambridge, Mass., where he completed his residency training in pediatrics. He has been appointed with tenure and has joined the faculty at UWO in order to enhance the role of pediatric training and to maintain the institute's mission.

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Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these positions and others 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.

RN/LPN 940160. Health Services. Requirements: Registered nurse or licensed practical nurse for weekend inpatient duties. Schedule: (32) 6:30 a.m. to 7:30 p.m. M-F; (32) 7:30 a.m. to 8:00 p.m. F-S-S. Contact: Faye L. Couture, associate director, human resources office located at 1171 Washington University School of Law, One Brookings Drive, St. Louis, Mo., 63130, 4899.

Secretary 940176. University College. Requirements: Some college; typing 45 wpm with accuracy; personal computer proficiency, including word processing and spreadsheets; understanding of financing guidelines that apply to the preparation of proposals; ability to coordinate, write and proofread; above average knowledge of computer software; self-study reaccreditation work. Clerical tests required.

Clerical Test 940178. Financial Manager. Requirements: Bachelor's degree, preferably in business or finance-related field, advanced degree desirable. Experience in supervisory experience; supervisory experience preferred, account, experience required; strong computer skills, ability to work independently under guidelines from supervisor; knowledge of tissue culture, protein purification and DNA analysis. Responsibilities: Assist in day-to-day operations of billing and accounts receivable. Experience in coordinating a variety of administrative functions including funding, grant writing, and program planning activities.

Secretary Receptionist 940762-R. Biotechnology Center. Schedule: Part-time (20 hours per week), 10 a.m.-2 p.m., Monday through Friday. Requirements: High school graduate or equivalent, typing 50 wpm; word processing experience preferred; experience working with FIS systems.

Social Worker MSW 940777-R. Allergy and Immunology. Requirements: Master's degree in social work; two years experience working with inner-city children and their families; experience working with low-income patients, preferably children, desired.

Associate Director of Internal Operations (Pharmacy) 940873-R. Biotechnology Center. Requirements: Bachelor's degree, preferably in business or finance-related field, advanced degree desirable. Experience in supervisory experience; supervisory experience preferred, account, experience required; strong computer skills, ability to work independently under guidelines from supervisor; knowledge of tissue culture, protein purification and DNA analysis. Responsibilities: Assist in day-to-day operations of billing and accounts receivable. Experience in coordinating a variety of administrative functions including funding, grant writing, and program planning activities.

Associate Director of Departmental Support Service 940789-R. Administration. Requirements: Bachelor's degree, preferably in business or finance-related field, advanced degree desirable. Experience in supervisory experience; supervisory experience preferred, account, experience required; strong computer skills, ability to work independently under guidelines from supervisor; knowledge of tissue culture, protein purification and DNA analysis. Responsibilities: Assist in day-to-day operations of billing and accounts receivable. Experience in coordinating a variety of administrative functions including funding, grant writing, and program planning activities.