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Education partnership involves high school science teachers in university research

For students of a bygone era, one of the classic ‘show-and-tell’ science lessons was the presentation of Mexican jumping beans and the discussion of what makes the beans jump. But this is the sophisticated ’90s. Gone are jumping beans; in their place are jumping genes — genetic material that moves from one chromosome to another. Thanks to a special summer research program conducted at Washington University, two area science teachers will be able to show this amazing phenomenon and actually let their students jump genes on their own.

Kathy Moreno, a Wentzville High School teacher, and Loretta M. Former, a 19-year veteran science teacher at Hazelwood Junior High School in Florissant, took an intensive two-week program in developmental genetics at Washington University's biology lab. Moreno has helped the Elgin Laboratory of the Summer Teacher Research Fellowship Program, sponsored by the American Society for Cell Biology, the National Science Foundation, the Society for Developmental Biology and the RGK Foundation of Austin, Texas.

This science education partnership provides authentic science research experiences for pre-college science teachers with follow-up support later in the school year. A key impetus of the program is to involve university science teachers in the education of pre-college science students.

Moreno and Former each studied the gene-jumping phenomena, but worked on two different organisms, Drosophila, a fruit fly, and Volvox, a common alga. Former worked with Elgin and research associate Lori Wallrath, Ph.D., in Drosophila research. Former worked with Kirk and his associates in Volvox studies.

In Elgin's laboratory, Moreno has learned how to mobilize a marked transposable gene found in euchromatin, the active portion of the genome, and to find cases where the gene has "jumped" into heterochromatin, a usually inactive region of the genome. The genome is the entire collection of genes in an organism. Studying the response of that gene to its new environment will allow the researchers to understand better the function of heterochromatin. Moreno has helped the Elgin laboratory in preparing thousands of flies for analysis.

"I have never been convinced that business ethics are different from general ethics," said Hochberg, who has a doctoral degree in philosophy and has taught philosophy, economics, and in an elective course that focuses entirely on ethical decision-making. "But I think it is important to get students to think critically about ethics and ethical decision-making." At Olin, students have exposure to ethical issues in required business classes, in distribution requirements offered by the College of Arts and Sciences, and in an elective course that focuses entirely on ethical decision-making, the Olin Business Ethics Program.

"I think this business ethics course is especially strong because it brings in so many professionals from inside and outside business," said Raymond L. Hilgert, D.B.A., a professor of management and international relations who teaches an elective course in business ethics.

"I have never been convinced that business ethics are different from general ethics," said Hochberg, who has a doctoral degree in philosophy and has taught philosophy, economics, and in an elective course that focuses entirely on ethical decision-making. "But I think it is important to get students to think critically about ethics and ethical decision-making. At Olin, students have exposure to ethical issues in required business classes, in distribution requirements offered by the College of Arts and Sciences, and in an elective course that focuses entirely on ethical decision-making, the Olin Business Ethics Program.

For more information, call 935-5297.
School of Medicine researchers have found that a single, large dose of alcohol taken by a father may have a negative impact on fetal development. The researchers discovered that when male rats were given a large dose of alcohol, up to 21 days before conception, the number of successful matings was cut in half. The exposure to alcohol also resulted in litters with fewer and smaller pups, and the mortality rate of the pups more than doubled.

Although the study was conducted with rats, researchers believe it may have immediate implications for humans. Reporting recently in the journal, Life Sciences, Theodore J. Cicero, Ph.D., professor of neuropharmacology in psychiatry, said the male rats were treated with a 5g/kg dose of alcohol, which is equivalent to approximately 0.2 percent blood alcohol content in humans. This level is twice the legal limit of intoxication in most states. The males then were mated with females who never had been exposed to alcohol or drugs.

This was a very intoxicating dose of alcohol, but we wanted to give only one dose," Cicero explained. The single dose was important, he said, because it allowed researchers to clarify that resulting abnormalities were caused by alcohol and not other problems associated with chronic abuse of the drug.

Male rats in this study were females 24 hours after they were exposed to alcohol. Mating behavior did not change, but fertility was affected. The greater the time between exposure to alcohol and mating, the better the chances pregnancy would occur. If mating took place within six to eight days of alcohol exposure, the birth rate was cut by more than 75 percent. Twenty-one days after treatment with alcohol, birth rates were still lower than in control rats.

"Up to 21 days out, we're seeing less than 50 percent of the alcohol-treated animals that are able to mate successfully. In the normal rat, mating almost always results in a pregnancy, so this is a very significant effect," he said.

Cicero also said the effect appears to be specific to alcohol. He compared alcohol to other drugs such as cocaine and morphine and found that these drugs, in similar large doses, had no measurable effect on birth rate or fetal development.

Because males in the experiment were not exposed to alcohol, fetal development should have been normal, Cicero said, unless the alcohol was causing problems at conception.

Unlike Fetal Alcohol Syndrome, where the mother ingests alcohol and the offspring are bathed in the drug during development, these experiments suggest that if the dose is large enough, alcohol ingested by the father can cause changes in sperm and either inhibit conception or complicate development.

Cicero said he believes several mechanisms could cause these results. Either, he said, the alcohol directly reduces the sperm count, or perhaps it produces mutations in the chromosomal or biochemical makeup of the sperm. It also is possible that alcohol accumulates in semen and is transported by the egg where it could affect fertilization and the developing fetus. It also is possible that alcohol reduces the mobility of sperm, or its capacity to fertilize eggs, by altering biochemical properties of the semen.

Regardless of the exact mechanism, however, he said it is clear that alcohol is having a dramatic effect. Cicero, who also is associate vice chancellor for animal affairs and associate dean at the medical school, said he hopes this research will prompt clinicians to look more closely at the role of paternal alcohol use in fetal developmental problems in humans.

"This is, of course, differences between work in rats and work in humans, but these findings are so dramatic that we may want to start asking some questions in clinical settings. If you think about Fetal Alcohol Syndrome, we know that it makes sense to ask whether a mother ingested drugs or alcohol during pregnancy. However, no one, to my knowledge, would think to ask whether the father had," he said.

Cicero is not sure why this striking results would have gone unnoticed until now but he compares these findings to the original work with Fetal Alcohol Syndrome 20 years ago. At that time, he said, no one considered how the problem could have gone unnoticed for thousands of years.

"I think this situation is similar. It is very possible that there is a paternal contribution to miscarriages and birth defects, and our hope is that our studies in the rat model will convince clinicians and others to begin to ask questions," he said. — John Dryden

Medical Center Block Party will be held Sept. 8

The fifth annual Washington University Medical Center Block Party will be held Thursday, Sept. 8, from 11 a.m. to 2 p.m. on Children's Place, near St. Louis Children's Hospital and the Clinical Sciences Research Building. Food, games and entertainment will be provided for the staff of Children's Hospital, Barnes Hospital, Jewish Hospital, Center for Special Care for the Deaf and the School of Medicine.

For more information, call 454-2945.

The Food and Drug Administration (FDA) recently approved the prostate-specific antigen (PSA) blood test for detecting prostate cancer in men. To make its decision the FDA used data from PSA screening studies conducted by William J. Catalona, M.D., chief of urologic surgery. Arthur DeReusse, pictured above with Catalona, has been enrolled in one of the screening studies for six years.
A big, slightly worn floral couch, squeezed back cushions is propped up against an arm of the couch as if someone nervous might have been relaxing with a book.

Miller, Ph.D., the Reuben C. Taylor Jr. and Anne Carpenter Taylor Professor of Political Economy at the John M. Olin School of Business, sees one visitor out as he welcomes another in the typical of a professor's life.

"He welcomes students to come during office hours to discuss what's on their minds," said Trupa Williams, a 1984 graduate of the business school. "I got the feeling that when a student went in, he was interested in the student's problems and questions. It's like, 'I'm busy,' and pushing people out the door. If I needed to continue, he would sometimes take an hour or two to get to the heart of it."

Williams is studying public policy at Oxford University, courtesy of a Rhodes Scholarship. Miller wrote a recommendation for her, but the faculty refused to make the Rhodes nomination.

"His interest in politics and public policy started, in part," said Miller, "because 'this was the '60s,' he said. But while he had similar interests to the social scientists, he wanted to look at •

Miller enjoys working on research that has practical applications for business and politics, and he also believes that research models that show the "best" way to structure an organization often don't address how difficult implementing those models can be.

"Many managers still think employees need to be coerced into performing with some system of carrots and sticks, just like North said, makes you want to cry for humanity," said Miller. "Managers who effectively use incentives with concern for employees — that are oriented to welfare of employees."

Miller's other research interests include legislative decision-making, the formation of institutions, hierarchies and decision-making, the political economy of businesses, corporate governance, leadership and, in public policy, food and nutrition (his wife is a nutritionist) and environmental policy.

Miller doesn't see a dichotomy in linking business and politics. To Miller, business is a political organization.

"Managers that try to make it clear that the theoretical problems treated in the literature on political economy are divorced from reality, are just the stuff of everyday management, the people who practice them are really hierarchy.

Miller is working with anthropologist Kathleen Cook, researcher associate in anthropology and adjunct instructor at Washington University, on studying how hierarchies develop in other species and how that relates to how they work — and how they can work well.

"For them (social scientists), the policy is practically everything," Miller said. "What I'm really interested in are the kind of core questions, such as how does hierarchy work?"

"Social science focused on trying to answer questions such as "this welfare plan will work better than that one," Miller said. But that was a bit too theoretical and nebulous for Miller. He turned to economics, but economics models, based on the idea that people act rationally, didn't offer better answers. "What's interesting to a social scientist is not the work the economics can explain. When we take sociology into effect, these models — as elegant as they are — don't work at all."

He turned his interests in politics, policy and social issues with his interest in the methods of economics. The result: political economics.

"Building bridges between people as well as disciplines — keeps Miller interested in his work. Colleagues like North admire the creativity that allows Miller to keep his work that economics can explain. When we take sociology into effect, these models — as elegant as they are — don't work at all."

"Gary's got an imaginative mind, well trained, disciplined and creative. I think he's one of the real gems of the University."

— Douglass C. North

"It's very rare to see people concerned about the broad range of things it takes to make a country work well," said Douglas C. North, Ph.D., North, the Henry R. Luce Professor of Law and Liberty, was a co-winner of the 1997 Nobel Prize in economic sciences. "There are not that many heads screwed on right; not that many people who are good teachers, good researchers and just nice guys," North said.

Miller shares research interests with North, and North has been an editor and contributor to Miller's work, including his most recent book Managerial Dilemma: The Political Economy of Hierarchy.

"It's original research that brings together general economic and political theory," North said. "He's telling a much more complicated story about how firms and political organizations should structure themselves. Successful firms are those that don't have mechanisms that do the wrong thing, but combine incentives with concern for employees — that are oriented to welfare of employees."

Miller's book documents what motivates some people to work hard while others work for personal gain at the expense of the company or co-workers, according to North.

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Films

Thursday, Sept. 8
7 and 9 p.m. Filmboard Free Series. "Nosferatu" (1922, B&W, silent). This is the association. He has been described as the

Friday, Sept. 9

Monday, Sept. 12

Tuesday, Sept. 13
4 p.m. Neuroscience seminar. "Perinatal Survival in Two- and Three-component Systems," Arieel Ben-Nun, prof., Dept. of Physiology and Biophysics; and "Hypothalamic Systems of Jerusalem." Room 311 McMillen Lab. (Colloquium) (9:30 a.m. outside Room 311, 362-8530)

Wednesday, Sept. 14

Lectures

Thursday, Sept. 8
8 p.m. Weekly Ensemble concert. "Pop Concert at Howitz Plaza," directed by Dan Prange, instrumental music instructor and producer in music industry. Room 455 McKinley Ave. 362-4284.

Friday, Sept. 9

Exhibitions

A "Gallery of Modern Art." Features 85 19th- and 20th-century masterpieces from the University's collection, considered one of the finest university collections in the country. Through Oct. 16. Opening reception: 7 p.m. Sept. 9. Gallery of Art, upper gallery, St. Louis University. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Cost: $5.

Performance

Friday, Sept. 16
8 p.m. Edition Theatre "OVAATIONS!" Series presents the Kronos Quartet, chamber music and Parkinson's Disease: A Neurological and Behavioral Disease. (Also Sept. 17, same time.) Edition Theatre. Cost: Free. Also includes public talk. For registration info., call 935-6878.

Music

Thursday, Sept. 8

Friday, Sept. 9

Saturday, Sept. 17
8 a.m.-12:30 p.m. Office of Continuing Education (OCE) presents "New Drug-induced Movement Disorders." U. of Medicine workshop will include instruction on drug-induced movement disorders. For more info., call 935-6878.

Miscellany

Saturday, Sept. 10
The stars of the "Pickle Family Circus," Diane Wasnak and Jeff Razz, aka Pino & Razz, will perform "Eyes Wide Open" at 2 p.m. Sept. 25 in Edison Theatre. The show is a surrealistic world of the brink of slumberland. According to Wasnak, the show is usually a sellout. Razz says the kids contain enough intellectual stuff for the adults. "It's a show for people of all ages," she said.

"Eyes Wide Open" is directed by internacional performance anthropologist/ dancer Tandy Beal and China’s acrobatic master trainer Lu Yi.

Tickets to "Eyes Wide Open" for young people" events are $10 and are available at the Edison Theatre box office or through Metrotix at 354-1111.

For more information, call 935-6453.

Clown teeters on brink of slumberland

Students find ethics lesson worthwhile—from page 1

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Dozens of employees who retired from the University this year were recognized during an Aug. 29 luncheon at the Whittemore House. Chancellor William H. Danforth thanked the retirees for their years of service to the University. They were recognized and presented with flower baskets. Chancellor William H. Danforth and Gloria W. White, vice chancellor for human resources, recognized the Hillcampus retirees and presented each with a personal commemorative walnut plaque.

The Hillcampus retirees and their years of service are: Susanne Bell, 25 years; Rosemary Frainito, 17 years; Frances Hanlder, 27 years; Aaron Hinton, 15 years; Frances Mack, 27 years; Ann Magness, 26 years; Ruth Moore, 23 years; Betty Mueller, 20 years; Lorraine Palmer, 18 years; Katherine Pierce, 10 years; Jan Salg, 38 years; Trudi Spigel, 26 years; Soren Torsan, 16 years; and Harriett Williams, 31 years.

Danforth and William Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, recognized and presented plaques to those retiring from the School of Medicine.

"I consider commencement a time when new lives commence and I know you are looking forward to rich and fulfilling experiences," Peck said. "One of the reasons we have such a great medical school is you and, despite the Draconian predictions you hear about healthcare reform, I want to assure you that you are not desiring a sinking ship."

The medical school retirees and their years of service are: Doris Alberts, 16 years; Shirley Axelson, 14 years; Theressa Baldwin, 13 years; Archie Barbour, 28 years; Marguerite Bay, 23 years; Mary Caradine, 13 years; Lois Clarke, 10 years; Jewel Edwards, 17 years; Lois England, 11 years; Rosemary Ford, 11 years; Jesse Goree, 16 years; Eleanor Gross, 29 years; Bonnie Heibel, 14 years; Charlotte Hopp, 20 years; Leonard King, 27 years; Helen Klaus, 17 years; Mary Long, 22 years; Joe Moody, 19 years; Sylvia Rink, 10 years; Rosalyn Stein (deceased), 25 years; Mildred Williams, 36 years; Jane Woods, 24 years; and Margaret Young, 20 years.

University, secondary school teachers conduct high-tech research in high school classrooms — from page 1

Elgin, who has been the driving force in the Washington University/University City Science Education Partnership program and the Undergraduate Biological Sciences Education Program at the Howard Hughes Medical Institute (HHMI). Both are outreach programs involving many Washington University students.

"She can use classical genetic approaches to analyze dominant and recessive traits, and, in fact, can use that thinking into how genetics is being applied to research. Our small thing is that she can take the concept of our work back to her classroom and she doesn't require much fancy equipment. The students should be able to see that not all research involves complicated equipment, and that doing this is not out of their grasp."

Moreno has the techniques of operating a carbon dioxide disinfector, which anaesthetizes the fruit flies for analysis, and will be able to reproduce the systems in her Wentzville high school, thanks in part to a $750 equipment stipend that is part of the program.

"I'm learning how to maintain the fly stocks, how to prepare their food, which is cornmeal, grape sugar and sucrose, and how to cross the flies and look at their progeny," Moreno said.

"I think that some of the students will have their own stocks of flies that they can cross and they will have to know what phenotype they're looking for. If students can buy into projects like this, they can possess part of it, have an investment in it. Hopefully, some may find that they want a career in science."

Moreno comes to science teaching in mid-life; she earned a bachelor's degree in biology and education in 1993 from the University of Missouri, St. Louis, after a career in education. Of all these genes, Kirk uses known benefit to its host, but Kirk is trying to use the gene's physical prowess to get it to jump into the middle of a known gene and inactivate that gene. When that happens, it will act as a "tag" that will permit isolation of the DNA on either side, which represents the 50 to 60 percent of the genome that may be as many as 10,000 genes on 14 chromosomes in flies (compared to an estimated 100,000 genes and 46 chromosomes in humans). Of all these flies genes, Kirk specifically is searching for those that are key to the development of germ cells in flies.

"Loretta has been a big part of our research this summer," Kirk said. "She has been able to make the transposon jump 30 times in a single generation, which in effect is what we should cut our search time down by 30-fold."

Kirk further accomplished this by using different levels of ultraviolet light, giving flies hot and cold treatments and nitrogen starvation treatments. Since she has her own school laboratory she will be able to duplicate, on a smaller scale, the algal growth condition she's used in the experiments with Kirk by using two fluorescent lights, a cardboard box and an aquarium air pump. For her purposes, she will get a similar effect from this equipment that Kirk gets with a culture facility costing $30,000.

"I'm learning that 'less is more' in science curriculum," said Fortner. "We need to teach fewer concepts and go into more depth with each one. I'll be able to use the essence of Dave's work in a very basic way to teach students things about genetics.

"Working in a program like this is a change of pace. While I didn't have a lot of free time this summer, I find this refreshing and different. You hear so much about teacher burnout; I think teachers need to do more things like this to prevent that syndrome."
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 935-6603. Applications should include three letters of recommendation.

Project Coordinator
950023. George Warren Brown School of Social Work. Requirements: Bachelor's degree in communication and interpersonal skills; ability to organize and work under pressure; ability to type 50 wpm with accuracy; knowledge of American Indian culture preferred. Clerical tests required.

Research Assistant
950025. Department of Biology. Requirements: Bachelor's degree, skill equivalent to Lab Tech IV; that, is a working knowledge of all techniques and instruments in the lab, plus ability to work without supervision; some particular training and experience in the area of the research project, or a good deal of experience in related areas. The person filling this new position will assist in studies by performing duties beyond those required. Resume required.

Administrative Assistant for Financing Programs
950026. Student Financial Services. Required: Bachelor's degree, college; economist and bookkeeping experience preferred; experience with FDS and SIS systems. Duties: Assist in administering CSP and TIP functions; some experience in using a variety of microcomputer peripheral devices, such as modems and printers; physical ability to lift system components; must be able to work evenings and Saturdays. Resume required.

School Accountant
950049. Accounting Services. Requirements: Bachelor's degree in accounting or finance and/or a Certified Public Accountant (CPA) license; a master's degree in business administration is a plus; several years of public accounting experience, excellent accounting skills and a working knowledge of GAAP; three to five years of fund accounting experience, preferably in a complex university environment; an analytical mind with a high degree of intelligence and the ability to take the short cut; ability to work fast feet; experience working with local area networks and personal computers; proficiency in word processing, spreadsheet and data base management software; excellent interpersonal skills; ability to work independently, with the user who is accessible and a team player; self-motivation and the ability to work on the job. Resume required.

SIS Systems Assistant
95050. University Registrar. Requirements: Four years of college, bachelor's degree preferred. Duties: Understand and maintain systems files within the Student Information data base pertaining to classes, titles, registration and grade processing operations; serve a "Help Desk" function university wide to deans and departmental offices; coordinate operations between the schools and the Registrar's Office specifically related to improving and maintaining course directories. Clerical test required.

Scheduling Department Coordinator, Part Time
950542. Earth and Planetary Science. Requirements: Bachelor's degree; knowledge of SUN and Macintosh computer systems; an understanding of basic principles of geology. Resume required.

Secretary/Receptionist
950555. Student Affairs. Requirements: Some college; typing 50 wpm with accuracy; ability to interact and maintain positive relationships and pleasant disposition in dealing with students, staff and general public; flexibility; attention to detail; team player; ability to set priorities and work on numerous tasks with constant interruption; willingness to work flexible hours; use of word processing and related office services; sense of humor. Clerical test required.

Administrative Assistant
950559. School of Law. Requirements: Some college; experience with DMS-based computer systems; knowledge of computer software preferred; experience with Windows and Aldus applications software, excellent grammar, spelling and punctuation skills; good filing, organizational and coordination skills; strong computer skills, ability to work independently; some experience planning and coordinating events and meetings preferred; typing 50 wpm with accuracy. Clerical test required.

Associate Engineer
950509. Academic Computing Network. Requirements: Bachelor's degree in computer science, electrical engineering or comparable experience; working knowledge of TCP/IP networks, LANS, WINS, Novell and AppleTalk; familiarity with a variety of computing environments, including Macintosh, DOS and Windows, OS/2 and UNIX; strong problem-solving skills; good verbal and written communication skills; system administration and experience desirable. Resume required.

Senior Project Leader
950506. Computing and Communications. Requirements: Five years data processing experience; possess ability to design, program and install major data processing systems, proven ability to lead others in data processing project development; proven ability to design, write and install MANTS and COBOL, IBM mainframe and personal computer experience desirable. Resume required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Physicians who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4930 to request an application. External candidates must call 769-3755 for information regarding how to submit a transfer request or may submit a resume to the Human Resources office located in the Great Apeen, Campus Box 802, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Medical Transcriptionist
950075-R. Internal Medicine. Schedule: Part time, 9-hour shifts. Requirements: Bachelor's degree; knowledge of typewriting and dictaphone skills; typing 60 wpm.

Technical Writer/Editor
950099-R. Surgery. Requirements: Bachelor's degree, master's degree or Ph.D. preferred; experience in National Institutes of Health grant writing in biomedical sciences. Project will last from September 1994 to January 1995.

Medical Secretary
950110-R. Pediatrics. Schedule: Part time, 20 hours per week, Tuesdays, Wednesdays and Thursdays. Requirements: Bachelor's degree; graduate or equivalent; some knowledge of medical terminology; experience as a medical transcriptionist; knowledge of Office of Medical Technology and dictaphone skills; typing 60 wpm.

Phlebotomist
950120-R. Pediatrics. Schedule: Part time, 0-based hours. Requirements: Bachelor's degree or equivalent; secretarial experience or college-level training in medical terminology; experience with Macintosh and Microsoft Word; typing 60 wpm.

Medical Secretary
950131-R. Psychiatry. Schedule: Part time, 20 hours per week, flexible hours. Requirements: High school graduate or equivalent; secretarial experience or college-level training in medical terminology; experience with Macintosh and Microsoft Word; typing 60 wpm.

Q&A provides an opportunity for faculty and staff to pose their questions about the University answered by the appropriate department. Employees are encouraged to submit questions of broad interest. M.A. to Susan Webb, Campus Box 1070, or p23245uw-q@wumail.wustl.edu. 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.

Q: Can staff and faculty use the student services, or is it just for students?
A: A variety of service projects are available for faculty and staff members of the University community while on the Hilltop Campus. The concept of access that is available is only for students. In fact, any employee, faculty member, student or visitor may request an escort to move safely from one place to another on campus, including the South Forty residence hall area. Beginning in mid-September, the Transportation and Demonstration Department will operate an escort shuttle service from 6 p.m. to 1 a.m., every day that will transport individuals to and from any campus location that is accessible by vehicle. To request shuttle service, call 935-7777.

The Hilltop Campus Police Department will arrange escort services upon request at any time by calling 935-5555. During evening hours, police service aides will provide walking escorts to and from any campus location. If the escort shuttle and police service aides are not available, University police officers will provide escorts to and from any location upon request. To request an escort, call 935-7777.

All of these services are available to any member of the Washington University community or any campus visitor.

William Taylor, chief, Hilltop Campus Police Department