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productivity is bad news for the extension of construction efficiency and plenty of support. In a recent report, Management in the construction industry is concentrating on providing colloquia, roundtable discussions and seminars for construction-related management staff. Topics will include everything from labor negotiations to computer-aided design and estimation.

Members of the center also will receive a newsletter full of useful information about construction activities, book reviews and news about world construction. Later, says Monsey, the CMC will begin to build a library devoted to construction-related topics and a computer facility with

Continued on p. 7

Young talent: An untitled pencil drawing by Brad Sullivan, a junior in the St. Louis Public Schools' Honors Art Program, was included in the WU High School Art Competition exhibit on display through Feb. 10 in Bushy Gallery. The 190 pieces in the show represent 40 high schools within a 100-mile radius of St. Louis. For more information, see story on p. 7.

Constructive advice
Center provides management skills for construction industry

Management in the construction industry could use some improvement, says Arthur Monsey, affiliate professor of civil engineering and director of WU's new Construction Management Center (CMC). Inefficiency, declining productivity, and utilization of foreign companies threaten the security of construction companies in America.

Monsey's warning comes with plenty of support. In a recent report, the highly respected Business Roundtable concluded: "The creeping erosion of construction efficiency and productivity is bad news for the entire U.S. economy." Indeed, throughout the business community, the alarm is being sounded. Construction, the largest industry in the country, is in desperate need of guidance, planning and education in the area of management.

In response to that call, the WU Construction Management Center officially opens its doors this month. Located in WU's Urbauer Hall, the CMC is designed as a resource center for continuing education, training and research for the construction industry. Initially, the CMC is concentrating on providing colloquia, roundtable discussions and seminars for construction-related management staff. Topics will include everything from labor negotiations to computer-aided design and estimation.

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Blue Highways author recounts 14,000-mile American journey

William Least Heat Moon, author of Blue Highways: A Journey Into America, will read and comment on his work at 11 a.m. Wednesday, Feb. 13, in Graham Chapel.

His talk, which is free and open to the public, is part of WU's Cultural Celebration Week. It is sponsored by the University's Assembly Series, Cultural Celebration Committee and Student Union.

Moon also will address the WU Bookmark Society at 7:30 p.m. Wednesday in Graham Chapel. Admission is $5 for nonmembers and free to Bookmark Society members.

Moon, who is part Osage Indian, took to the road in 1975 after he lost his job as an English instructor in Columbia, Mo. Blue Highways: A Journey Into America, is the author's account of his travels.

The book, a bestseller, was named for the blue lines representing secondary roads on old road maps. Moon traveled 14,000 miles, mostly over back roads, on his journey through the United States. During his travels, he met and recorded his dealings with everyone from Hopi Indians in New Mexico to commercial

Continued on p. 2

Union Pacific Foundation awards WU $250,000 grant for Alliance campaign

The Union Pacific Foundation has awarded a grant of $250,000, payable in five equal annual installments, to the ALLIANCE FOR WASHINGTON UNIVERSITY, a $300 million fund-raising campaign, Chancellor William H. Danforth has announced.

The grant is being awarded on behalf of the Union Pacific Corporation and its operating companies: Union Pacific and Missouri Pacific Railroad companies, Champlin Petroleum Company, Rocky Mountain Energy Company and Upland Industries Corporation.

Danforth said that WU is extremely grateful for the foundation's "marvelous expression of interest and confidence; we will do all we can to be worthy of it. The collective involvement of local and national leaders within the corporate community is especially valuable."

Charles N. Olsen, president, Union Pacific Foundation, New York, said the foundation is pleased to recognize WU's pursuit of academic excellence: "We want to support such worthwhile programs in the communities we serve."

The funds sought through the ALLIANCE include $200 million for endowment and facilities and $100 million for annual operations and special program support.
Legally-blind student meets life's challenges

This article is part of a continuing monthly series profiling WU students.

David Hertweck was on the wrestling team during his freshman and sophomore years at Kirkwood High School. He wasn't great, but "I did all right," he says. During his last two years there, he took multimedia production classes and videotaped football, basketball and volleyball games for the coaches. All the while, he maintained a B+ average. He credits his spunk to his parents. "I was shocked and go back into your shell," he says. He had to give up wrestling because the sport was causing too much internal pressure on his eyes. He had had several earlier eye operations. Because of his vision, he and a school friend had to do some fast talking to get Hertweck into the multimedia production classes at the high school.

At WU, money from the state Department of Social Services' Bureau for the Blind pays readers for classroom accessibility, transportation and tutoring. The service was instrumental in the installation of the Kurzweli reading machine, a talking computer which "reads" by scanning and converting to synthetic speech virtually any material printed in English. It is available in the main library for public use.

Hertweck says he usually can get his textbooks in Braille or on tape, but needs readers for classroom handouts, tests and figuring math problems. He has lessened his transportation limitations by living on campus. "Transportation can be a real bummer sometimes," he says. "I walk a lot.'

After graduation, Hertweck wants to work first as a statistician, then return to school to work on systems analysis and physics. His ultimate dream is to work for NASA. That makes sense. He always has reached for the stars and the moon.

Preparation for Retirement series starts

The Preparation for Retirement series again will be offered to WU faculty, administrators and staff personnel who are within 10 years of retirement. Spouses also are welcome to attend. The sessions will be held at 7:30 p.m. on six consecutive Tuesdays, beginning Feb. 26 at the Brentwood Community Center, 2505 S. Brentwood Blvd.

Conducted by Family and Children's Services of Greater St. Louis, the program helps pre-retirees plan for the drastic lifestyle changes which occur at retirement. Sessions will cover such topics as social security income and benefits, legal aspects, financial planning, and health care.

Participants are limited, so early registration is encouraged. For a registration form, call Sharon George in the Personnel Office, 889-5949, or Betty Mackey at Family and Children's Services, 371-6500.

Highways

Continued from p. 1

Soprano Armistead presents concert featuring works by Handel and Ravel

Soprano Christine Armistead, instructor in voice, will present a concert at 8 p.m. Friday, Feb. 8, in Steinberg Auditorium. The concert, which is sponsored by the Department of Music, is free and open to the public. Armistead will perform with Carl Smith, harpsichord; Mary Ellen Patnaude, flute and piano; and Lauri Orsak, cello. The program features works by Scarlatti, Monteverdi, Handel, Ravel and Schubert.

A series of new compositions by Smith, WU applied music instructor, also will be performed. Smith is director of music at the Ethical Society and recently was named organist/choir director at Trinity Presbyterian Church.

A graduate of WU, Armistead was a founding member of the St. Louis Early Music Ensemble. She has performed in recital, oratorio and opera in the United States, Canada and Austria. Baroque operas in which she has played leading roles include Monteverdi's "Il ballo dell' ingrate" and Purcell's "Dido and Aeneas."

She sang the role of Angelica in Handel's "Orlando," staged at WU in spring 1985. The production, which received international acclaim, led to her role of Clizia in Handel's "Teseo," a North American premiere to be performed this summer at the Boston Early Music Festival.

Orsak teaches Suzuki cello at Southern Illinois University at Edwardsville. Patnaude is a doctoral candidate in piano performance at WU.

For more information, call the Department of Music at 889-5581.
Batiza offers theory explaining undersea volcano formation

**Mysterious seamounts**

**Batiza offers theory explaining undersea volcano formation**

**A new theory explaining the formation of mysterious undersea volcanoes.**

Tiny volcanoes, or seamounts, occur throughout the world and do not seem to fit into either of the two prevailing theories of undersea volcanism. Rodey Batiza, associate professor of earth and planetary sciences in WU’s McDonnell Center for the Space Sciences, is the first to propose a viable theory explaining this common, though largely ignored, type of undersea volcanism.

Batiza’s theory builds on the current understanding of planetary geology. Scientists now know that the surface of the earth is made up of 10 to 12 massive plates, called the lithosphere, which slide around at the breakneck speed of about three inches per year. Beneath these plates is a plastic-like region called the asthenosphere. Magma, the melted rock which creates volcanoes, originates in the asthenosphere.

New ocean crust is formed by magma that works its way up to the surface, cools and solidifies. Geologists tell us this happens either at “ridge crests” or “hotspots.”

Ridge crests are a type of plate boundary where new material is needed to fill the gap formed when plates drift apart. This is how new lithosphere forms. At other places, the lithosphere is forced back down into the hot asthenosphere so the size of the planet remains constant. Ridge crests form volcanic mountain ranges that stretch for thousands of miles like jagged scars on the sea floor. Active ridge crests are being fed constantly by hot magma rushing up through a sea floor, forming the plates.

But magma can also shoot through the lithosphere far from the ridge crests in mid-plate hotspots. Superheated rock from deep in the asthenosphere eats through the ocean floor with enough sustainable force to form great islands like Hawaii and Tahiti. Like a stationary blowtorch moving through a quilt of planet’s plates.

But couldn’t these seamounts be formed by the same forces responsible for hotspot volcanoes? It’s possible,” admits Batiza, “but unlikely.

First, seamounts don’t form island chains like hotspots do. Second, they’re small, only a few kilometers tall. Compared to most seamounts, a hot spot island like Hawaii is a monster. Batiza now thinks there are different mechanisms at work. And third, indications are that they form the fracture zones. That would tie them much more closely to ridge crest activity than hotspot activity.

By providing this link between the mechanisms forming ridge crests and those hotspots, Batiza has brought a new understanding to the structure, history and inner workings of planet earth. But in addition to the scientific benefits, Batiza sees some very practical applications for his research.

All this spewing magma carries more than boring gray rock. It also contains valuable minerals like cobalt, zinc and copper. It could even contain precious metals like gold and silver. If these deposits are substantial, then the world’s mining companies may suddenly develop a great interest in Batiza’s oft-neglected seamounts.

Compared to ridge crests, seamounts occur in relatively shallow water and are therefore more accessible to the people and machines which would extract the mineral goodies. Knowing how seamounts are formed would make finding such deposits faster and less expensive for the mining companies.

For example,” says Batiza, “if they were going after these deposits today, they would probably concentrate their search along the fracture zones based on this research. There’s still a lot of work to do before this new theory is generally accepted, but the more data we collect and analyze, the more clues we can provide about how the earth functions for both science and industry.”
Dream babies

In Vitro Program at Jewish Hospital fulfills hopes of infertile couples

Babies are born everyday in the WU Medical Center, but the recent births of David Adam Klarfeld and Michelle Rachel Librach were a little more spectacular than usual.

These two bundles of joy are the first babies conceived through the In Vitro Fertilization Program at Jewish Hospital — and the first to be born as the result of a Missouri-based in vitro fertilization (IVF) program.

David, son of Sandy and Kerry Klarfeld of Chesterfield, was born at 10:44 P.M. on Jan. 24, weighing in at 8 pounds, 13 ounces. Michelle Librach was a little more healthy babies where there could be none before, and in the personal joy of fulfilling these first two families' dreams.

The Klarfelds, married for almost eight years, decided to enter the IVF program after other medical examinations produced no reason for their infertility and no other solution to their problem. The Klarfelds, married 1½ years, entered the program soon after their marriage because of an infertility problem discovered during her previous marriage.

Ms. Librach has a son, 8-year-old David, who she adopted as an infant from Bogota, Colombia, South America.

The IVF Program at Jewish Hospital accepts only married couples and combines biological materials from the spouses only. Other programs may accept patients regardless of marital status and may allow the use of eggs and sperm from other donors, implantation in surrogate mothers, or other combinations.

Additionally, all viable fertilized eggs produced by the program are reimplanted in the donor female and are not used for any other purpose.

Strickler advises that couples who have tried unsuccessfully to get pregnant for one year, should seek help. "Unfortunately, many couples want instant solutions," he said. "In vitro fertilization is just one step infertile couples can take and it's not the perfect solution for every couple."

Cat Christianson, RN, nurse coordinator of the in vitro program, points out that several factors can be responsible for infertility. "In the man, the most common causes are varicocele (dilation of veins in the scrotum) and a low sperm count; in the female, lack of ovulation, certain medical disorders and endometriosis contribute to infertility. "Couples experience a lot of frustration when they cannot conceive a child," said Christianson.

"Not only do they have to accept it progressively, but they have to explain it to their families. The in vitro program gives hope to these couples who thought once it was doomed."

Further information is available by writing to the IVF Program, Department of OB/GYN, The Jewish Hospital of St. Louis, 216 S. Kingshighway, St. Louis, MO 63110.

Storz Instruments donate supplies to medical departments

Storz Instrument Co. has donated medical equipment and supplies valued at $55,000 to the Departments of Ophthalmology and Otolaryngology at WU School of Medicine.

The ophthalmology department will use the supplies and equipment in its training and research programs, while the otolaryngology department plans to use its gift in patient care areas and in research laboratories.

The relationship between Storz Instrument Co. and the School of Medicine began when the company was located on Audubon Ave., across from the WU Medical Center. At that time Bernard Becker, M.D., chairman of the Department of Ophthalmology, worked with the late Charles R. Storz Sr., then head of Storz Instrument Co., to redesign medical instruments needed for Becker's research projects.

Last year, Storz Fellowships in Ophthalmology were established through an $880,000 endowment to the School of Medicine and Barnes Hospital, a sponsoring institution of the WU Medical Center. The fellowships, created by the late Charles R. Storz Jr., provide funding for students who seek advanced training in ophthalmology.

Occupational therapy sponsors merit fellowship

The Program in Occupational Therapy at WU School of Medicine has established a new fellowship program, and is seeking candidates for the first award.

The Occupational Therapy Merit Fellowship includes full tuition remission for two years of study in the baccalaureate program. Selection will be based on scholastic achievement and interest in an occupational therapy career. Financial need will not be considered.

Candidates for the fellowship must be applicants for admission to the Program in Occupational Therapy at the School of Medicine. The deadline for application is March 1.

For additional information write the Program in Occupational Therapy, WU School of Medicine, Box 8066, 660 S. Euclid Ave., St Louis MO 63110.

Physical therapy names first scholarship winners

A scholarship program in physical therapy has been created at the School of Medicine by Electro-Med Health Industries of Kenosha, Wis. The annual awards are based on scholastic achievement and interest in an occupational therapy career.

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Listening to loud rock music, working in a noisy factory, or operating certain household machinery, can be hazardous to one's hearing. WU hearing researchers suggest reducing exposure to noise by substituting quiet recreational activities or by wearing foam earplugs during high-level exposures.

Over-exposure to loud noise can lead to hearing loss

When Bruce Springsteen came to town a few months ago, two WU medical school faculty members turned his rock concert into a research project.

For William Clark, Ph.D., and Barbara Bohne, Ph.D., the Springsteen concert was an opportunity to test their theories on hearing damage caused by high noise levels.

Clark, associate professor of speech and hearing and associate research scientist at Central Institute for the Deaf (CID), and Bohne, associate professor of otolaryngology and research associate at CID, have been studying the effects of noise on chinchillas for several years. Their findings indicate that seemingly innocuous noise exposures are a greater risk than formerly expected, and can cause sensory cell damage to the inner ear and eventually permanent hearing loss.

The Springsteen concert allowed them to prove informally, in humans, their findings from laboratory research.

"We were contacted by a mother who was concerned about her teenager going to the Springsteen concert," said Clark. "We talked to the high school student and three of her friends, plus two adults, and they all agreed to let us test their hearing before and after the concert."

As expected, five of the six concert goers experienced significant but mild hearing loss. All reported that there was ringing or buzzing in their ears, and that speech sounded muffled or distorted. When they were tested the following day, hearing had returned to normal in five of the six Springsteen fans. The sixth participant's hearing did not return to normal until several days after the concert.

Several of the participants wore noise dosimeters — small computers that measured noise level — at the Springsteen concert. A computer printout revealed the sound was dangerously loud at over 100 decibels, but only half as loud as some other rock concerts such as a Van Halen performance.

The Occupational Safety and Health Administration (OSHA) requires hearing protection for workers exposed to noise levels in excess of 90 decibels for an eight-hour workday. The OSHA standards take into account only those exposures that occur at the workplace, Clark pointed out, but people should also be aware that recreational noise exposures can be dangerous.

"Repeated long exposure to music and other loud noises over 90 decibels can permanently damage the tiny nerve cells inside the inner ear," Clark said. He noted that cell damage to the inner ear was found to be cumulative and to eventually produce permanent hearing loss in animal research.

People need to be aware of these hazards and take the necessary precautions," warned Clark. "Rock concerts are not our only concern. Recreational activities such as shooting, piloting and motorcycling can contribute to hearing loss. Running chains or power saws are also high risk factors. Household activities such as vacuuming and operating garbage disposals for long time periods can eventually lead to hearing loss."

Clark recommends reducing overall lifetime exposure to noise by substituting quiet recreational activities for noisy ones, or by wearing foam earplugs for protection during high-level exposures. Instead of frequently noisy bars or discos, he suggests finding a quiet cocktail lounge for socializing. People who choose noisy leisure-time activities should try not to pursue them immediately after exposure to workplace noise. Recreational noise should be limited to a minimum on workdays, but can be increased during non-workdays, holidays and vacations.

Scheduling exposures can also make a difference, as Clark points out. "A person who uses a chain saw to cut wood on a weekend can minimize ear damage by breaking an eight-hour job into two four-hour jobs on separate days," he explained.

Whether they're concert fans or factory workers, people concerned about suffering a hearing loss can receive hearing tests at the WU Medical Center.

Central Institute for the Deaf offers Hearing Central, a free-30-minute hearing check-up for all adults in the St. Louis area. Appointments can be made by calling 652-5200. The School of Medicine's Department of Otalaryngology conducts longer, in-depth tests for a fee. Further information is available by calling 362-7489.

Lichtman, Willard receive $100,000 McKnight Foundation science awards

Two scientists at WU School of Medicine are among 1985 recipients of $100,000 neuroscience development awards from the McKnight Foundation.

Jeff Lichtman, M.D., Ph.D., associate professor of physiology and biophysics, and William Willard, Ph.D., associate professor of anatomy and neurobiology, were among 14 scientists selected for the awards. The awards provide research funding for three years.

The McKnight Foundation presents the awards to advance neuroscience research and to encourage experienced investigators to study the basic mechanisms of memory and of diseases that affect memory.

Lichtman's research allows him to visualize nerve terminals in living animals by using fluorescent labels that are internalized by stimulated axons. With this technique, he can see living synapses.

Willard is interested in how a nerve cell has to change the expression of its genes in order to grow an axon. His research has shown that injured cells produce growth-associated proteins — growth associated proteins — and could reveal how nerve cells repair and regenerate themselves, particularly in spinal cord injuries.

TV health series continues in February

The WU Medical Center is featured in "Health Matters," a television series that explores advances in health and medicine, on KETC, Channel 9.

Half-hour episodes of "Health Matters" air at 7:30 p.m. each Sunday, with repeat broadcasts on Saturday at 11:30 a.m.

Below is a schedule of episodes to air in February. Further scheduling will be announced by KETC Channel 9 and published in the Medical Record.

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<td>Feb. 17, 1985</td>
<td>FOR MEN ONLY, William Catalona, M.D., Bruce Waltz, M.D.</td>
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When a parent dies

Children adapt better to death if surviving parent gets counseling

If you have recently been widowed and have young children, expect them to recover more quickly than you will. You’re more likely to need professional counseling, and as the sole parent, you’ll support your surviving family best by getting that help quickly.

That’s the prescription from a psychiatrist at the WU School of Medicine. "Although they are saddened by the parent’s death, children suffer less than the widow or widower," says Michele M. Van Eerdewegh, M.D. The assistant professor of psychiatry recently completed two studies on the short-term effects of parental death on young to adolescent children.

"The child generally adapts better to the death, and the intensity of the reaction is a lot less than the surviving parent’s," says Van Eerdewegh. Difficulties for the child occur when the surviving parent makes extraordinary demands or is seriously depressed.

Children cope better with the loss because they’re not having to shoulder the responsibility of both parents, Van Eerdewegh says. The surviving parent — the women, nine times out of ten — must bear the responsibility of raising and nurturing children.

The greatest stress, says Van Eerdewegh, is rooted in finance: a family used to living on two incomes now has only one; a widow with little or no work experience must become the sole breadwinner.

"(According to Parents Without Partners, a national support organization for single parents, the median income for single-families headed by women is less than $9,000 per year; nearly half of all female single parents or families (comprises below the poverty level.)"

Van Eerdewegh and her associate at WU have found that the immediate reaction of a child to the death of a parent is usually mild and short-lived. (This concurs with findings of earlier studies.) The children might suffer from a mild sadness (dysphoria) lasting a month or two, with some lingering symptoms for up to one year. There will be some grief and guilt — very young children may fear that their behavior was the reason for the death. An older child may feel guilt about not having been a better son or daughter.

Other responses might include increased anger, irritability, difficulty in sleeping or a change in appetite. Many children could become withdrawn.

Van Eerdewegh’s study showed a problem with bedwetting by girls — in all cases, a mother suffered from the same illness. It was not just a simple grief reaction. That led Van Eerdewegh to think that even if the death triggered onset of depression in some children, there were other intervening factors — some probably biological or genetic, and others of a more reactive nature in response to the mother’s own mental state.

"Children probably have differential responses according to their developmental age," says Van Eerdewegh. "The older the child is, the more likely he or she is to show a reaction similar to an adult reaction."

Van Eerdewegh cautions the surviving parent against requiring too much from the bereaved child. "An overly demanding parent could cause the child to become overly responsible or, to the other extreme, totally irresponsible in life,” she says. The child could also rebel or just give up trying to accomplish anything.

A surviving father is more likely to demand too much from his daughter than he would his son, Van Eerdewegh observes, citing housework and child care as examples. The same holds true for surviving mothers and some children. "If a family have a boy has lost his father, or a girl, her mother, Van Eerdewegh warns. These children have a high risk factor for the development of mental disorders later in life. "You need a parent of your own sex to tell you the normal roles expected of your sex,” she says.

Van Eerdewegh suggests that the surviving parent try to find a substitute for the child, such as a member of the child’s extended family — an uncle, perhaps, if the bereaved child is a boy. If the child needs professional counseling, find a therapist who is the same sex as the child, she recommends.

Too often, Van Eerdewegh says, grieving parents don’t seek help from psychiatrists, therapists and support groups. "Death is considered a normal thing, and most adults think they should know how to cope," she says, especially after the children are grown up and on their own.

"When the death is unexpected and untimely, Van Eerdewegh recommends that the surviving parent speak to a counselor. They should also try to get closer to their children. "Very often the parents are grieving so much that they might not be aware that the children experience grief too, even though it doesn’t show itself as dramatically as it does in adults," she says.

Several organizations provide support for recently widowed men and women; they can be found in the white pages of telephone directories in most medium to large cities.

For young to adolescent children who have lost their same-sex parent, Big Brother/Big Sister of America (national headquarters, 117 E. 17th Suite 1200, Philadelphia, Pennsylvania 19103, phone 215-567-2748) can often offer a substitute after a careful matching procedure.

Parents Without Partners (970 Woodmont Avenue, Washington, D.C. 20014, phone 301-654-8850) is perhaps the best-known support group for parents left single by divorce or death. Some chapters also have special groups for children of single parents.

Theros (Suite 410, Office Building, Penn Hills Mall, Pittsburgh, Pennsylvania 15235, phone 412-343-4290) is for young to middle-aged widowers. Its chapters meet in churches although they are not formally associated with any denomination.

Joseph Schuster

Resource materials available in Barnard Cancer Information Center

Cancer patients, their families and health care professionals can receive the latest information on the disease at the Cancer Information Center (CIC).

The center, located on the first floor of Barnard Hospital, was renovated in 1984, expanding its quarters and increasing its holdings. The CIC is staffed with 13 Barnes Hospital volunteers, some of whom have had cancer themselves, or have known someone with the disease. Lois J. Howland, RN, is manager and Sally Hermann is volunteer director.

Sponsored by the Division of Radiation Oncology at Mallinckrodt Institute of Radiology, the center first opened in 1977. For patients and their families, the center offers brochures and medical information about various types of cancer. Health care professionals have access to a library of medical and nursing journals and books related to cancer. Current holdings include the popular book, "Principles and Practice of Oncology," by DeVita, as well as such resource books as the "Clinical Oncology Book for Medical Students," "Cancer Manual" and "Cancer Source Book for Nurses."

Videotapes on cancer diagnosis, treatment options, nutrition, and coping with cancer are available for viewing in the CIC or in a patient’s room. Also, medical center employees and students can view videotapes of cancer workshops in the center.

Since cancer treatments often cause hair loss, the CIC provides wigs for those who cannot afford to buy them. Breast prostheses are also available to those in need.

Howland, along with Barnes oncology social workers Karen Greening and Susan Zimmerman, have formed a support group that meets in the center at 2 p.m. every Wednesday. Family members of inpatients and outpatients attend the meetings, which are designed to allow participants to ask questions and share personal experiences. The Cancer Information Center is open from 9 a.m. — 4 p.m. Monday through Friday. Further information is available by calling 362-7844.
Jan. 24 at Tulane University in New Orleans. At the Tulane School of Public Health and Tropical Medicine, will fill that roster.

"Economic Growth, Inequality, and the Study of Less-Developed Countries"; at the Tulane Medical Center. 

there is obviously a great need," says Monsey. "And there's nothing like the Construction Management Center to fill that need." The CMC is a logical outgrowth of WU's long-standing commitment to enhancing construction management in the area. Construction engineering and management has been a popular career path for many of the University's students, and with the advent of the Construction Management Center, this need for a comprehensive, interdisciplinary program in construction management has been met.

The CMC is not the nation's first construction management program. It is, however, the first to be located on a university campus in the United States. The CMC's purpose is to provide students with the knowledge and skills necessary to succeed in the construction industry. The CMC offers both undergraduate and graduate programs in construction management. The undergraduate program is designed to prepare students for careers in construction management, while the graduate program is designed to provide advanced training for those already working in the industry.

The CMC is housed in the School of Arts and Sciences, which is located on the university's campus. The CMC is also affiliated with the School of Business, which offers a graduate program in construction management. The CMC is governed by a board of directors, which includes representatives from the construction industry. The board of directors is responsible for setting the direction of the CMC and for ensuring that the CMC's programs are relevant to the needs of the construction industry.

The CMC is committed to providing students with a high-quality education, and it is dedicated to preparing its students for success in the construction industry. The CMC's faculty members are well-versed in the latest trends and technologies in construction management, and they are dedicated to providing students with the knowledge and skills necessary to succeed in the construction industry.

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Charles D. Fuszner, clinical assistant professor of otolaryngology at the University of Pennsylvania School of Medicine, has received an Indepen- dent Research Grant from the Na-

dentistry at the School of Dental Medicine, recently was elected director of the Kirkwood Commercial Bank of Commerce. He has been appointed chairman of the den-

tral Delta Sigma Delta's new chapter committee.

Saulo Klahr, director of the renal division at the School of Medicine, has been named president-elect of the American Society of Nephrology. Klahr is professor of medicine at St. Louis University, and he is a nephrologist at Barnes and Jewish hospitals, sponsoring institutions of the WU Medical Center. He was also president of the American Society of Nephrology in 1986. The 4,000-member organization was formed in 1967 for physicians and basic scientists who conduct kidney-related research.

Gerston Spector, professor of otolaryngology, has been named editor of the Laryngoscope by the American Laryngological, Rhinologi-

cal and Otological Society (The Triological Society). The Laryngoscope is the major medical journal published by the society. Spector is a professor of otolaryngology — head and neck sur-

gery.

The exhibit was commissioned and tissue density information provided by computed tomography (CT) evaluation, the delivery of radiation treatment from every possible orientation.

"Three Viennese Architects." an exhibit of recent works by Wilhelm Holzbauer, Gustav Peichl and Roland Rainier, currently is on display in the first floor corridor of Givens Hall, home of the School of Architecture. The show will hang through Feb. 10. All three architects pursue the tradition of building "Baukunst" (translated "the art of building"). Their body of work states that their methodology can devise for treating 75 individual cases drawn from Mallinkrodt's patient population.

Construction

The CMC is a logical outgrowth of WU's long-standing commitment to enhancing construction management in the area. Construction engineering and management has been a popular career path for many of the University's students, and with the advent of the Construction Management Center, this need for a comprehensive, interdisciplinary program in construction management has been met. The CMC is housed in the School of Arts and Sciences, which is located on the university's campus. The CMC is also affiliated with the School of Business, which offers a graduate program in construction management. The CMC is governed by a board of directors, which includes representatives from the construction industry. The board of directors is responsible for setting the direction of the CMC and for ensuring that the CMC's programs are relevant to the needs of the construction industry.

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CALENDAR

Thursday, Feb. 7


4 p.m. Dept. of Chemistry Seminar, "Synthesis and Reaction Chemistry of Pentadentate-Methine Phosphine Complexes," WU ass't prof. of chemistry. 311 McMillen.

Friday, Feb. 8
8:15 p.m. Hillet Lecture, "Judain in Mod- ern Times," Kahlil Michael Nехorra; prof. of philosophy, Bar Ilan U., Israel. Hillel House, 3rd fl. corridor. 9 a.m.-6 p.m. weekdays. For more info., call 889-6200.

Monday, Feb. 11


4 p.m. Dept. of Physics Colloquium, "Nuclear Spin Relaxation in an Incommen- surable Solid, Bifid," Mark S. Conrad, ass't. prof. of physics, College of William and Mary. 204 Crow.

8 p.m. School of Architecture Lecture, "American Canyons," Raimond Abraham, prof. of architecture, Cooper Union in New York City. Steinberg Aud.

Tuesday, Feb. 12
2 p.m. Center for the Study of Data Pro- cessing Symposium, "Information Technology in the Late 90's," A. Crawford, American Express Company. 101 Lopata.


Wednesday, Feb. 13


4 p.m. Dept. of Physics Colloquium, "Lattice Defects in Metals Studied by Hyperfine Inter- actions," Gary S. Collins, dep't. of physics, Clark U. 204 Crow.

4 p.m. Public Affairs Thursday Series, "Another Year in the Middle East: Shaving Toward Armageddon?" Victor L. Te Iane, WU prof. of political science. Sponsored by the Center for the Study of Public Affairs, Elie Eliyahu.

8 p.m. Writers' Colloquium, "Fiction Reading," Phillip Graham, visiting writer at SLU. Hunt Lounge, Dundercoker Hall.

Thursday, Feb. 14


4 p.m. Dept. of Chemistry Seminar, "Re- cent Advances in Heavy-Ion Induced Fusion," Frank Prot, group leader, Heavy ion Physics, Oak Ridge National Lab. 311 McMillen.


4 p.m. School of Architecture Lecture, "The Enchanted Mountain and the Sacred Gargoyle and Gallery, Mallinckrodt Center. 10 a.m.-5 p.m. weekdays. For more info., call 725-4055.

Saturday, Feb. 16
9 a.m.-noon. Workshop for junior and senior high school students with Stanley Tasker, WU prof. of art. (Program runs for 10 weeks on Saturdays.) Cost is $65. For more info., call 725-4055.

Monday, Feb. 11
10 a.m.-noon. Personal Computing Educa- tion Center Short Course 100, "Doing In- teractive Computing with MUSIC," Karen Sanders, WU computer specialist. (Also Feb. 12-15, same time.) Free to WU community. To register, call 889-5813.

4 p.m. Personal Computing Education Center Short Course 206, "Doing Statistics with SAS," A. Ben Abdallah, consultant. (Also Feb. 12-15, same time.) Free to WU community. To register, call 889-5813.

Wednesday, Feb. 13
8 p.m. WU Cultural Celebration Week with Jean House, folk/Creole performer, Gargoyle. Coffee House, Mallinckrodt.

Thursday, Feb. 14
9 p.m. WU Cultural Celebration Week, "Changing Jobs — Changing Ca- rriors," WU prof, of art. (Program runs for 10 weeks on Saturdays.) Cost is $65. For more info., call 725-4055.

Friday, Feb. 15
11 a.m.-2 p.m. WU Cultural Celebration Week, "Three Viennese Architects," the current series to share information, music, refresh- ments and audio visual presentations. Gallery, Mallinckrodt.

5-7:30 p.m. Cultural Celebration Week, "International Dinner and Dances," La Cuisine. Wohl Center.

Saturday, Feb. 16

9 p.m.-1 a.m. Cultural Celebration Week, "Round the World in 24 Hours," Sponsored by Cognizers. Gargoyle and Gallery, Mallinckrodt Center.

MUSIC

Thursday, Feb. 7
9 and 10 p.m. WU Filmboard Series, "A Free Woman," 22 Brown Hall.

Friday, Feb. 8
8 and 10 p.m. WU Filmboard Series, "Bootleg Feb." 22 Brown Hall. (Also Sat., Feb. 9, same times, and Sun., Feb. 10, 2 p.m., Brown.)

Midnight. WU Filmboard Series, "The Gauntlet." 815 Brown Hall. (Also Sat., Feb. 9, same time, and Sun., Feb. 17, 2 p.m., Brown.)

SPORTS

Friday, Feb. 8
5:30 p.m. Men's Basketball, WU vs. Illinois College. Field House.

Tuesday, Feb. 12
5:30 p.m. Women's Basketball, WU vs. Fontbonne College. Field House.

7:30 p.m. Men's Basketball, WU vs. West- minister College. Field House.

Thursday, Feb. 14
10:30 p.m. Hockey, WU vs. St. Louis Com- munity College at Meatzens. Alfon ORem.

OTHER ENGAGEMENTS


"Cries and New Beginnings: The Book in the Renaissance," Through Feb. 28. Special Collections, level 5. Olin Lib. 8:30 a.m.-5 p.m. weekdays.

"Jean Dubuffet: Forty Years of His Art," Through March 5. Gallery of Art, upper and principal levels. 10 a.m.-5 p.m. weekdays. For evening hours, call 889-5813.

"High School Art Competition," Through Feb. 10. Busby Gallery, Busby Hall. 10 a.m.-m. weekdays. 1-5 p.m. weekends.

EXHIBITIONS

Thursday, Feb. 7
"Three Viennese Architects," the current series to share information, music, refreshments and audio visual presentations. Gallery, Mallinckrodt.

Friday, Feb. 8
8 p.m. Dept. of Music Faculty Recital with Christine Arnweit, soprano, Carl Smith, harpsichord; Mary Ellen Patnaude, flute and piano; and Laurie Orsak, cello. Steinberg Aud.

Sunday, Feb. 10

Monday, Feb. 11
7 and 9:15 p.m. WU Filmboard Series, "Cyrano de Bergerac." 22 Brown Hall. (Also Tue., Feb. 12, same times, Brown.)

Wednesday, Feb. 13
7 and 9:15 p.m. WU Filmboard Series, "Award-winning Short Subjects, by Truffaut, Hitchcock and Scoundrels," George M. Pepe, WU prof. of classics. (Also Feb. 14, 21 and 28, same time.) Cost is $5 a person. For registration, call 889-6735.

Thursday, Feb. 14
7:30 p.m. WU Cultural Board Series, "The Gauntlet." 815 Brown Hall. (Also Sat., Feb. 9, same time, and Sun., Feb. 17, 2 p.m., Brown.)

Calendar Deadline

The deadline to submit items for the Feb. 14-Mar. 16 calendar of the Washington University Record is Feb. 11. Items must be typed and stated in full. nature of event, sponsor and admission cost. Incomplete information will be printed if available. include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McIlroy, calendar editor. Box 1142.