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Record

April 6, 2000

Volume 24 No. 26



Washington University in St. Louis



Mammoth undertaking

Researcher inventories thousands of cave artifacts

By DEB ARONSON

Conducting an archaeological project in a cave has its pros and cons. On the one hand, artifacts are right out in the open, so no back-breaking digging is required. In addition, the constant humidity and temperature (about 54° F) and protection from the elements mean that archaeological remains in caves are exceptionally

well preserved. On the down side, archaeologists have to work in almost complete darkness and in tight quarters. This activity is not recommended for the claustrophobic.

Washington University anthropology research associate George Crothers, Ph.D., must not be claustrophobic: He has spent the last seven years in Kentucky's dark, chilly Mammoth Cave,

inventorying the contents of a three-mile portion of the cavern's 350-mile reach. The project has yielded a treasure trove of native American artifacts, from tools to textiles to pictographs and more.

Mammoth Cave, located in the south-central part of the state, is the longest cave system in the world. Native Americans explored and used the cave as early as 4,800 years ago. During the Early

Woodland period — 3,000 to 2,200 years ago — they mined the cave for gypsum (perhaps to use as plaster or white paint) and mirabilite (known for its laxative effect).

"Many other caves were also entered and explored prehistorically — hundreds by a conservative estimate," said Patty Jo Watson, Ph.D., the Edward Mallinckrodt Distinguished

University Professor in Arts & Sciences and consultant on the project. "But the fairly intensive mineral mining in Mammoth and Salts Cave [also in Kentucky] is unusual. Most caves were probably used as mortuary places, or places to contact the supernatural world below the Earth's surface. Caves were special places for the prehistoric people who went into

See Mammoth, Page 6



AIDS quilts Junior Jared Leavitt (left) and senior Luke McIntosh view one of the two Washington University Greek community's AIDS quilts, which consist of patches designed by each University fraternity and sorority chapter, as well as a patch fashioned by the Interfraternity and Panhellenic councils. The two 12-by-12 quilts will be submitted to the Saint Louis Effort for AIDS and then added to the national AIDS quilt. A \$2,500 check, the proceeds of last fall's Greek Week, also went to the Effort for AIDS.

Levin named first Hitchcock professor

By ANN NICHOLSON

Ronald M. Levin, J.D., a member of the School of Law faculty since 1979, was installed as the inaugural Henry Hitchcock Professor of Law March 29 in a ceremony in Anheuser-Busch Hall's Bryan Cave Moot Courtroom.

"This new chair provides a wonderful opportunity to recognize not only the outstanding contributions of a member of the law school faculty, Ron Levin, but also to pay tribute to such an important person in the history of the law school, Henry

Hitchcock," Chancellor Mark S. Wrighton said.

"It was in large part due to Hitchcock's efforts that the law school was founded, allowing us to celebrate 133 years later the tremendous strength of the school and honor one of its most distinguished faculty members," he added.

Joel Seligman, J.D., law school dean and the Ethan A.H. Shepley University Professor, also had high praise for Levin. "Ron Levin is a nationally recognized scholar in administrative law and an outstanding teacher and member of our School of Law community,"

Seligman said. "I can think of no one more deserving of the new chair in honor of Dean Hitchcock, upon whose legacy we continue to build as we strive toward new levels of excellence."

A nationally known authority on administrative law and the law of legislation, Levin's interests range from rulemaking and judicial review issues to regulatory reform to legislative ethics. He is the current chair-elect of the American Bar Association's Section of Administrative Law and Regulatory Practice; when he assumes the chair in July, he will

See Levin, Page 6

'Amazing progress'

Another milestone is reached in race to map human genome

An international consortium that includes Washington University School of Medicine as a major partner announced March 29 that 2 billion of the 3 billion chemical letters making up the human genetic instruction book have been deciphered. The medical school contributed about one-fourth of this DNA sequence and is generating more.

"The progress the consortium has made in the last year is amazing," said Robert H. Waterston, M.D., Ph.D., the James S. McDonnell Professor and head of genetics and director of the school's Genome Sequencing Center. "Having all these data in GenBank for everyone to use is revolutionizing the way science is done."

GenBank is the public database of DNA sequence from all organisms. Operated by the National Institutes of Health (NIH), it is accessible freely and without restrictions to all scientists in industry and academia. The international consortium — the Human Genome Project — deposits all of its data into GenBank as they are obtained.

The 2 billionth letter, or DNA base pair, was deposited by the Wellcome Trust's Sanger Centre in Great Britain. The letter was a T, the abbreviation for thymine, one of the four chemicals or bases that make up DNA. The base pairs now in GenBank have been mapped to their locations on the 24 human chromosomes.

Currently, bases are sequenced by the Human Genome Project at a rate of 12,000 every minute and deposited daily in the data bank.

The Human Genome Project is on track to complete a working draft of the genome in June. This draft will include 90 percent of the human DNA sequence, and it will have an accuracy of at least 99.9 percent. The Human Genome Project worldwide will invest an estimated \$250 million to produce the working draft.

The finished, stand-the-test-of-time version of the human DNA sequence will be ready on or before 2003. Just four months ago, the Human Genome Project reached the 1 billionth base-pair milestone.

"It's good news that we're moving so fast, but it's even better news that researchers throughout the world are using these data now to investigate the genetic underpinnings of health and diseases ranging from Alzheimer's to diabetes," said Francis Collins, M.D., Ph.D., director of the NIH's National Human Genome Research Institute, in a speech March 29 at the BIO 2000 annual international biotechnology conference in Boston.

Reaching the 2 billion base-pair milestone is a "splendid achievement that will help doctors around the world in their quest to cure disease and advance knowledge," said Michael Morgan, Ph.D., chief executive of the Wellcome Trust Genome Campus

See Genome, Page 2



Getting their marching orders More than 250 participants prepare to pick up their heels March 29 for the kickoff of WU Walks, the University's new walking club for students, staff and faculty. With Chancellor Mark S. Wrighton leading the pack, the group traversed a 1.2-mile route on and around campus. To enroll in the club, which meets at noon every Wednesday in front of Graham Chapel, call 935-7386 or send your name, phone, campus box and e-mail address to WU Walks (walking@rescomp.wustl.edu).



Sharing research Monica L. Wright, a Ph.D. candidate in Romance languages and literatures in Arts & Sciences, discusses her investigations of "The Narrative Function of Clothing in Medieval French Literature" with Gavin Chan, a Ph.D. student in earth and planetary sciences in Arts & Sciences. The two were among 30 who made poster presentations at the fifth annual Graduate Senate Research Symposium Saturday, April 1, in Holmes Lounge.

15 WU programs ranked in top 10

Washington University School of Medicine ranks first in student selectivity, fourth overall, and it has the nation's leading physical therapy program and a top occupational therapy program, according to this year's U.S. News & World Report rankings of graduate and professional programs.

The School of Law's Clinical Training Program ranks sixth, along with audiology in Arts & Sciences. The John M. Olin School of Business Executive Master of Business Administration (EMBA) program jumped up five places to eighth in the nation. Geochemistry in Arts & Sciences ranks 10th, and the George Warren Brown School of Social Work changed from a tie for first place to second. All told, the University placed in the top 10 in 15 ranking categories.

This is the third consecutive year the medical school has been rated number one in student selectivity. "We are especially proud to be attracting the best students in the nation on such a consistent basis," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the medical school.

The school ranked fourth overall after Harvard, Johns Hopkins and the University of Pennsylvania and has been placed in the top 10 ever since U.S. News began ranking medical schools in 1987.

"We are proud to have been ranked fourth overall for two consecutive years," Peck said. "To be among those top-ranked institutions and to have such highly regarded physical and occupational therapy programs is a well-deserved tribute to our fine faculty."

Specialty areas listed among the nation's best include: physical therapy, No. 1; occupational therapy, No. 3; microbiology, No. 4; internal medicine, No. 5; neurosciences, tied for No. 5; pediatrics, tied for No. 6; pharmacology/toxicology, No. 8; drug/alcohol abuse, tied for No. 10; and health services administration, tied for No. 12.

Joel Seligman, J.D., dean of the law school and the Ethan A.H. Shepley University Professor, said of the rankings: "I am delighted that our wonderful clinical programs have been recognized as among the top six in the country. This is the first time a Washington University School of Law program has placed on a Top 10 list, and it's consistent with the great progress we are making. We are pleased that the School of Law is now ranked 29th overall for academic reputation in the country. This continues the sustained and substantial progress the School of Law has made over the past five years."

The business school's EMBA program is its first program to reach Top 10 status. It was ranked based on reputational surveys of

deans and MBA program heads. The school's full-time MBA program also moved up five places, from No. 30 to No. 25, putting it in the top tier of the nation's 325 accredited MBA programs.

"Third-party validation is always gratifying," said Stuart I. Greenbaum, dean of the business school, "and we are especially pleased to have our executive programs recognized as Top 10."

Arts & Sciences area rankings include: audiology, in cooperation with the Central Institute for the Deaf, tied at No. 6; creative writing, No. 10; biological sciences, tied at No. 12; political science, No. 20; and geology, No. 23.

Also in the rankings, the School of Engineering and Applied Science retained its position, tied at No. 40. The School of Architecture and the master of fine arts program, unranked this year, previously were ranked at No. 19 and No. 26, respectively.

The WU rankings can be viewed online (<http://news-info.wustl.edu/rankings/rankings.html>) or at the U.S. News Web site (www.usnews.com). The rankings are based on varying criteria that include reputation, research activity, student selectivity, faculty resources and surveys of deans, faculty and administrators.

Daughters to visit campus for annual event April 27

On April 27, millions of girls between the ages of 9 and 15 from Maine to California will be going to work. At Washington University, at least 100 girls are expected to show up in offices, studios, dorms and labs for the annual "Take Our Daughters to Work Day."

Since 1994, Washington University has participated in this national public education initiative, sponsored by the Ms. Foundation for Women. The event's purpose is to focus attention on the needs and concerns of our nation's girls.

Daughters can shadow their parents during their work day, or take part in activities planned throughout the Hilltop Campus. A group of women from the Panhellenic Council, led by Karin Horstman, coordinator of Greek life, are planning and implementing the event this year.

"This is a wonderful way for our female students to be involved in a mentoring capacity," Horstman said. "The younger girls will have the opportunity to experience a wide variety of activities, while the older ones can have the satisfaction of knowing that they can make an important impression."

While many of the activities are designed for learning about a subject or a potential career interest, they are planned also with fun in mind. One of the time-honored events of the day,

for example, is a meeting with basketball Coach Nancy Fahey and some of the members of the championship women's team.

Devoting a day such as this to girls is generally recognized as positive, but there has been a groundswell in recent years for including boys. While boys' experience with adolescence is not without difficulties, the Ms. Foundation cites research showing that, as a group, boys do not experience the same psychological and emotional shift that marks girls' entrance into adulthood.

The foundation points out that "Take Our Daughters to Work Day" was established in 1993 as a response to research showing that the strong sense of self-confidence found in pre-adolescent girls begins to erode around the ages of 10, 11 and 12.

Hilltop and West Campus employees are encouraged to bring their daughters to work on April 27, but must consult with their supervisors before making arrangements. Those interested in participating should look for announcements that will be distributed to all deans, directors and department heads in the next week. Visiting girls must register to receive a list of scheduled activities. Most activities will have limited attendance and will be filled on a first-come, first-served basis. For more information or to register, call 935-5994.

Genome

Project reaches major sequencing milestone
— from page 1

in Cambridgeshire, United Kingdom, which hosts the U.K. contribution to the Human Genome Project.

Sequencing, which is determining the exact order of DNA's four chemical bases — commonly abbreviated A, T, C and G — has been expedited in the Human Genome Project by technological advances in deciphering DNA and the coalition's collaborative nature, which has brought together about 1,000 scientists worldwide.

In sharp contrast to today's 12,000-per-minute pace, sequencing 12,000 bases 20 years ago would have required a year or more. Three years ago, when pilot projects to evaluate the feasibility of large-scale sequencing were initiated by the Human Genome Project, deciphering 12,000 bases required 20 minutes.

Scientists throughout the world already are using the human sequence data in GenBank for basic research and disease-related studies. Recently, the genes responsible for hereditary deafness and cerebral cavernous malformations, an often-fatal vascular disease causing seizures and brain hemorrhages, were detected with data from GenBank.

Scientists are rapidly annotating the human DNA sequence in GenBank with information about the location of specific genes and the genetic variations (called single nucleotide polymorphisms or SNPs) that can provide clues to various health disorders.

Almost 15 billion base pairs were sequenced to reach the 2 billion milestone. Human Genome Project scientists decipher each area of a chromosome at least four to five times to ensure that the data deposited into GenBank are accurate. This depth of coverage also helps the scientists assemble the long stretches of the A, T, C and G bases. The finished version of the human DNA sequence that the Human Genome Project will complete by 2003 will have a greater depth of coverage, with at least eight- to nine-fold coverage for each chromosome region.

The international Human Genome Project consortium includes scientists at 16 institutions in France, Germany, Japan, China, Great Britain and the United States. The institutions that generate the most sequence are, in addition to Washington University, Baylor College of Medicine, Houston; Whitehead Institute, Cambridge, Mass.; Joint Genome Institute, Walnut Creek, Calif.; and the Sanger Centre in Great Britain. The National Human Genome Research Institute funds the sequencing centers at Baylor, Washington University and Whitehead.

News Briefs

Pep rally

The third time certainly was a charm for the WU women's basketball team, as the Bears recently earned their third straight national title.

Show your good cheer — and wear your Red and Green — in celebration of that event at noon Friday, April 7, during a pep rally in Bowles Plaza. On hand will be head coach Nancy Fahey, the entire Bears roster and the NCAA championship trophy!

Stay well

Whether you just want to have your blood pressure and cholesterol levels screened, or if you'd rather take it to the next level and get your diet or

posture analyzed, Wellness Fest 2000 can help.

The interactive event will be held 10 a.m. to 3 p.m. Monday, April 10, at the Gargoyle. Organized by the Emergency Support Team, the fair also is tying into National Humor Month by featuring a universal stress reliever — finger painting.

Helping hand

Students who traveled to Latin America for the Campus Y's Alternative Spring Break service projects (see photo, page 5) are inviting donations for the poor with whom they worked. Clothing and sports equipment in good condition may be dropped in a box at the Campus Y, located in the basement at the east end of Umrath Hall. Cash contributions



Campus quiz: This unhappy fellow greets passersby at what point on the Hilltop Campus? Answer below.

are welcome as well and will be distributed through the YMCA. For more information, call Justine Elliot, 935-1227.

Answer: Our howling friend adorns the archway between Duncker and Cupples I halls.

Record

Washington University community news

News & Comments

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Medical School Update

Leptin-signaling failure could cause obesity in white men

By BARBRA RODRIGUEZ

Leptin keeps rats and mice slim. But to the chagrin of drug companies, many humans don't respond to extra doses of the hormone, which influences fat metabolism and serves as a natural appetite suppressant.

Now a team of researchers including members from Washington University School of Medicine has evidence that drug developers might have better luck focusing their leptin-related efforts on white men. In a statistical study of 115 black and 99 white families, the researchers determined that middle-aged white men who share a particular version of the molecule that receives the leptin signal were fatter than other volunteers.

Fat cells produce leptin to tell the body it has enough energy in reserve and can stop storing fat and decrease appetite. Leptin does this by traveling in the bloodstream to the brain, where it interacts with the leptin receptor molecule in the hypothalamus. This part of the brain then sends out a message to the body to alter how fat is metabolized.

A modified version of the receptor that appears in some white men might not respond well to leptin so that these men might begin to accumulate excess fat.

"There appears to be a good association in these men between a modification of the leptin receptor and fatness based on various measures," said Ingrid B. Borecki, Ph.D.

The article was published in the January 2000 issue of *Journal of Clinical Endocrinology & Metabolism*. Borecki, an associate professor of biostatistics, and Dabeeru C. Rao, Ph.D., director of the Division of Biostatistics, both at Washington University, were co-authors. The study was led by Yvon C. Chagnon, Ph.D., at Laval University in Quebec, and Claude Bouchard, Ph.D., who recently left Laval to direct the Pennington Biomedical Research Center at Louisiana State University in Baton Rouge, La.

Previous studies involving people with differing lifestyles and genetic backgrounds had come up with mixed conclusions about the importance of leptin signaling in weight gain and obesity.

In the current study, volunteers shared a similar sedentary lifestyle and were about to begin a 20-week exercise training program as part of the HERITAGE Family Study. The 214 families included

88 black parents and 231 of their adult children and 192 white parents and 330 of their adult children. Neither group differed significantly in the proportion of participants who were skinny, of normal weight or obese.

The researchers measured leptin levels in sedentary volunteers' blood. Fat levels also were assessed in six ways, including weighing volunteers under water

they had the seemingly unlucky version of the leptin receptor. This finding held true for five of the six measures of fatness.

Getting a grip

The Q223R receptor and the other versions studied interact with leptin the way a pair of tongs latches onto an ice cube. Because Q223R differs in a region equivalent to the end of one tong,

Borecki suspects that this receptor doesn't grab leptin as well. "If the receptor were the right shape, it should have no difficulty attaching to leptin and allowing its

biological actions to occur," Borecki said.

Women have a different hormonal environment than men, or there may be other genetically based differences that help protect them from weight gain if they have Q223R, Borecki noted. Black men who have Q223R also may overcome this drawback because of genetic differences that give them an advantage over their

white counterparts. "This really goes to show you that the systems that govern obesity in humans are fairly complicated," Borecki said.

Why are white male children spared, though? Borecki suspects they aren't. They might overcome their genetic drawback because they are more active than their fathers. Some of the younger children participating also might have been undergoing growth spurts and hormonal changes that could obscure the pattern of results found in the adults.

Future studies that involve white men ages 25 and older should help clarify whether they share their fathers' propensity to put on the pounds. Because leptin also helps control how the body uses energy, the hormone's ability to influence metabolism in general also is under intense investigation. Borecki noted that the current study already has helped clarify the leptin story, though. She added, "Once we get a grip on a handful of factors that affect weight gain and study all of them in a collection of families, I think a fascinating picture is going to emerge."

"There appears to be a good association in these men between a modification of the leptin receptor and fatness based on various measures."

INGRID B. BORECKI, PH.D.

to determine the proportion of body weight that was fat and measuring skin-fold thicknesses. Volunteers' DNA also was purified from blood samples for further analysis, using three different markers within the leptin receptor.

All the receptor versions were present in blacks and whites. However, only white volunteers who inherited one particular version, Q223R, tended to carry extra weight for their height, a measure of fatness called the body-mass index. A closer look revealed that white fathers were most likely to carry extra fat when

Prensky receives award from neurology society

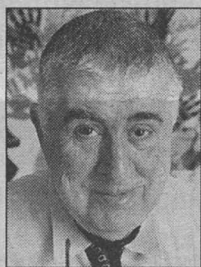
Arthur L. Prensky, M.D., the Allen P. and Josephine B. Green Professor of Pediatric Neurology, has received the Homer Award from the Child Neurology Society. Prensky also is a pediatric neurologist at St. Louis Children's Hospital.

The Child Neurology Society consists of 1,300 academic and practicing neurologists. It confers the award annually on a pediatric neurologist who has made substantial contributions to clinical care, training and/or research relating to nervous system disorders that affect children. The society will honor Prensky in October at its annual meeting in St. Louis.

In 1975, Prensky became the first person in the United States to receive an endowed professorship donated for child neurology. His

research interests include the chemistry of myelin — the fatty sheath that surrounds nerve processes — and pediatric headache. He devised a widely used set of criteria for diagnosing migraine in children.

He was president of the Child Neurology Society in 1979 and 1980 and president of Professors of Child Neurology for two years in the mid-1980s. He also has served on the editorial boards of *Neurology*, *Neurology and Neurosurgery Update Series*, *Pediatric Neurology* and *Journal of Child Neurology*. He currently



Prensky: Studies chemistry of myelin

is on the grant review committee of the March of Dimes and the pharmacy committee of the Missouri Department of Social Services.

Prensky obtained a bachelor's degree in history from Cornell University in 1951 and a medical degree from New York University College of Medicine in 1955. After an internship at Barnes Hospital and a fellowship at Washington University School of Medicine, he moved to Boston for residencies and fellowships at the Lemuel Shattuck Hospital and Massachusetts General Hospital. He became an instructor at Harvard Medical School in 1966 and joined the Washington University faculty as an assistant professor of pediatrics and neurology in 1967.

Dennis Choi to chair National Institutes of Health panel

Dennis W. Choi, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor and head of the Department of Neurology, has been selected as chair of a blue-ribbon panel that will review the intramural research program at the National Institute of Neurological Disorders and Stroke (NINDS). Choi is an internationally known neuroscientist and president of the Society for Neuroscience.

As well as supporting research at other institutions, the NINDS conducts intramural and collabo-

orative research on neurological disorders in its own laboratories, branches and clinics. The panel will review the basic organization of this program, the effectiveness of the board that evaluates its scientists, the balance between clinical and laboratory-based research, the



Choi: Neurology department head

balance between intramural and extramural funding and the quality of postdoctoral training and career-development opportunities at NINDS. It also will address space and recruitment issues.

Choi was appointed by Ruth L. Kirschstein, M.D., acting director of the National Institutes of Health. The panel will deliver its findings to Kirschstein, Michael M. Gottesman, M.D., deputy director for intramural research, and Gerald D. Fischbach, M.D., director of NINDS.

Col. Daniel Theberge to deliver fifth Shepard lecture

Col. Daniel M. Theberge, D.D.S., chief of the Oral and Maxillofacial Surgery Service at Walter Reed Army Medical Center in Washington, D.C., will deliver the fifth annual Shepard Memorial Dental/Otolaryngology Lecture. It will be held at 9 a.m. Wednesday, April 12, in the Eric P. Newman Education Center, 320 S. Euclid Ave. A free continental breakfast

will be served beginning at 8:30 a.m.

Theberge is a noted teacher, lecturer and author. He has served with distinction in the U.S. Army Dental Corps and is involved in numerous professional organizations. The title of his lecture is "Distraction Osteogenesis 1 in Oral and Maxillofacial Surgery."

The Shepard Lecture Series was

named in honor of the late Wilma Shepard and Earl Shepard, D.D.S. Earl Shepard was professor and chair of the Department of Orthodontics at Washington University School of Dental Medicine from 1953 to 1975 and was a nationally recognized leader in the field of orthodontics.

For more information or to make reservations, call 935-5419.



New perspective From a park at the corner of Clayton and Euclid avenues, Central Institute for the Deaf (CID) students Sonya Smith, 11, left, and Chelsie Norman, 11, get a different view of the new oral school on the CID campus at Washington University Medical Center. The \$8 million facility has specially designed acoustics that allow students to learn in an environment free of "extra" noise, which can interfere when children are learning to speak and to listen.

Health symposium for mature women April 15

A symposium to help older women stay healthy and manage medical problems will be held April 15 in Anheuser-Busch Hall on the Hilltop Campus. Anne Deaton, Ed.D., deputy director of the Missouri Division of Aging, will be the keynote speaker. Washington University physicians and researchers also will make presentations. Topics will include arthritis, falls and fractures, memory, mood disorders and osteoporosis.

"Enhancing the Health of Mature Women: Advances in Treatment and Care," is being presented by the Washington University Center for Aging. The University-wide center, directed by

John C. Morris, M.D., the Harvey A. and Dorismae Hacker Friedman Professor of Neurology, fosters multidisciplinary research, education, service and community development to help older adults remain healthy, empowered, active and independent for as long as possible.

The symposium, which is geared to mature women and their families, will begin at 8:15 a.m. and end at 3:45 p.m. The \$10 registration fee includes a continental breakfast and gourmet lunch, and scholarships are available. Because space is limited, please call 286-2881 for information and to receive a registration form.

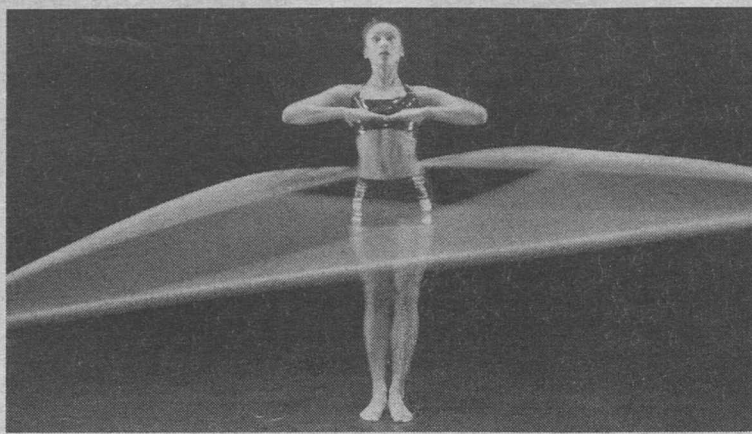
University Events

'MOMIX in Orbit' spins at Edison Theatre April 14-16

Moses Pendleton, founder and choreographer of the dance troupe MOMIX, has finally defeated gravity. "MOMIX in Orbit," his latest dance concert, uses the group's trademark combination of outrageous athleticism and prop-assisted theatrics to create a modern dance high wire act that would leave Einstein scratching his head.

The performance, a special family event, is coming to Edison Theatre this month, with show times at 8 p.m. April 14 and 15 and at 2 p.m. April 16. The program is co-sponsored by Dance St. Louis and Edison Theater's OVATIONS! Series.

"MOMIX in Orbit" was created in collaboration with Michael Curry, developer and co-designer of masks and puppets for the Walt Disney Broadway production of "The Lion King." The show includes both new and classic works by the company and features the St. Louis premieres of "Sputnik," "Orbit" and "Millen-



The renowned dance troupe MOMIX presents its combination of athleticism and theatrics in three performances on the Edison stage.

nium Skiva."

Founded by Pendleton in 1984, MOMIX's streamlined aesthetics and exuberant gymnast/dancers — who've been known to employ the occasional Hula-Hoop or trampoline — have brought the company international attention. Hailed by the Washington Post as "a grown-up fantasy world of the

best bodies, the neatest toys and a magician's sleight of hand," their work has appeared in five Italian television features and several performances on Antenne II in France. In the United States, MOMIX was featured in the PBS "Dance in America" series and in "Imagine," one of the first IMAX films.

Pendleton's career has spanned the international dance world for more than 30 years. In 1971, as a fresh-faced Dartmouth graduate, he co-founded the Pilobolus Dance Theater, which would go on to win international acclaim for its innovative blend of acrobatics and modern dance. In 1979 he choreographed and performed in the Paris Opera's "Integrale Eric Satie"; other performances include the Joffrey Ballet's 1980 revival of Picabia's Dadaist ballet "Relache" and the Deutsche Opera's 1982 production of "Tutuguri."

In addition to his work with MOMIX and Pilobolus, Pendleton choreographed the closing ceremonies for the 1980 Winter Olympics at Lake Placid and Rameau's "Platee" for the U.S. Spoleto Festival in 1987, among others. His work is featured in film projects ranging from the Emmy Award-winning film version of Mussorgsky's "Pictures at an Exhibition" with the Montreal Symphony Orchestra to

OVATIONS! Series

Who MOMIX dance troupe

Where Edison Theatre

When 8 p.m. April 14 and 15; 2 p.m. April 16

Tickets \$25

the music video of Prince's "Batdance" from the movie "Batman." His many awards include a Guggenheim Fellowship and a Berlin Critics Prize.

Tickets are \$25 and are available at the Edison Theatre Box Office, 935-6543, the Dance St. Louis Box Office, 534-6622, and through all MetroTix outlets, 534-1111. For more information, call 935-6543.

MOMIX is based in Washington, Conn. Their performance is made possible with support from the Heartland Arts Fund, a joint venture of Arts Midwest and Mid-America Arts Alliance.

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"University Events" lists a portion of the activities taking place at Washington University April 6-April 15. Visit the Web for expanded calendars for the School of Medicine (medschool.wustl.edu/events/) and the Hilltop Campus (www.wustl.edu/thisweek/thisweek.html).

Exhibitions

"Juhani Pallasmaa: Works on Paper." Through April 7. Givens Hall. 935-6200.

"School of Art Graduate Thesis Show." April 14 through May 3. Gallery of Art. 935-7282.

"Super Imposed." April 7 through April 15 (reception 6 to 9 p.m., April 7). Sponsored by WU School of Art's graduate program. Des Lee Gallery, University Lofts Bldg., 1627 Washington Ave., St. Louis. 935-6500.

Film

Friday, April 7

7 and 9:30 p.m. Filmboard Feature Series. "American Beauty." (Also April 8, same times, and April 9, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100

Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Reservoir Dogs." (Also April 8, same time, and April 9, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Wednesday, April 12

6 p.m. Chinese Film Series. "Old Well." Sponsored by Asian and Near Eastern languages and literatures. Room 219 Ridgley Hall. 935-5156.

Thursday, April 13

7 p.m. Filmboard Free Diversity Series. "Joy Luck Club." Room 100 Brown Hall. 935-5983.

Friday, April 14

7 p.m. Filmboard Feature Series. "Joy Luck Club." (Also April 15 and 16, same time.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Lectures

Thursday, April 6

8 a.m. I. Jerome Flance Visiting Professor

of Medicine lecture. "Spot-welding in the Lung: Integrin-mediated Activation of Transforming Growth Factor Beta." Dean Sheppard, prof. of medicine, dir. Lung Biology Center, and assoc. chair of biomedical research, U. of Calif., San Francisco. Clopton Aud., 4950 Children's Place. 362-8983.

Noon-1 p.m. Genetics lecture. Michael Nonet, asst. prof. of anatomy and neurobiology. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

2 p.m. Thesis defense. "Dendrite and Spine Dynamics After Glutamate Receptor Activation." Mayer Josh Hasbani, neuroscience dept. Room 928 McDonnell Medical Sciences Bldg. 362-7190.

4 p.m. Earth and planetary sciences colloquium. "Timescale of Planetsimal Differentiation in the Early Solar System." Meenakshi Wadhwa, assoc. curator of meteorites, geology dept., The Field Museum, Chicago. Room 361 McDonnell Hall. 935-5610.

4:15 p.m. Philosophy colloquium. "Emotion and Moral Judgment." Gopal Sreenivasan, asst. prof. of philosophy, Princeton U. Room 216 Psychology Bldg. 935-6670.

4:30 p.m. Mathematics colloquium. "Special Lagrangian Submanifolds: Something Old and Something New." Robert McLean, U. of Mo., Columbia. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series. "On the Crossroad of Two Avenues: Cytoskeleton and Synucleins." Andrei P. Surguchov, research assoc. prof. of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

7 p.m. Architecture's Monday Night Lecture Series. "The Abstraction of Landscape." William Curtis, architectural historian and the Ruth and Norman Moore Visiting Prof. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6200.

Friday, April 7

Noon. American Indian Awareness Week lecture. Levi Esquerra, business developer for Ariz. Commission on Indian Affairs. Brown Hall Lounge. 935-6288.

Noon. Cell biology and physiology seminar. "The Role of Cholesterol and Cholesterol-enriched Membrane Domains in the Regulation of EGF Receptor-mediated Signaling." Linda J. Pike, assoc. prof. of biochemistry and molecular biophysics. Room 426 McDonnell Medical Sciences Bldg. 362-2725.

Noon-1 p.m. Gastroenterology research conference. "Adapting to Life in a Microbial World: Listening to Conversations Between a Member of the Gut Microflora and Its Host." Jeffrey I. Gordon, prof. of medicine and Alumni Prof. and head of molecular biology and pharmacology dept. Room 901 Clinical Sciences Research Bldg. 362-8951.

1:30 p.m. Thesis defense. "A Role for Interleukin-1b in the Contact Hypersensitivity Response." Laurie P. Shornick, molecular cell biology program. Room 10064 Clinical Sciences Research Bldg. 362-2725.

4 p.m. Neuroscience seminar. "Activity-dependent Mechanisms Controlling the

Development of Visual System Connections." Hollis Cline, Cold Spring Harbor Lab., N.Y. Cori Aud., 4565 McKinley Ave. 362-7190.

6 and 8:30 p.m. Travel Lecture Series. "Adventures Along the U.S. - Canada Border." John Holod. Sponsored by WU Assoc. Cost: \$4.50. Graham Chapel. 935-5212.

Saturday, April 8

4 p.m. Performing Arts Dept.'s Helen Clanton Morrin lecture. "The Performing Arts at Washington University - Then and Now." Sid Friedman, prof. of theatre arts, Boston U. School for the Arts. Room 100 Brown Hall. 935-5858.

Monday, April 10

10 a.m. Center for Mental Health Services Research Seminar Series. "Future Directions in Child and Adolescent Mental Health Research." Kimberly Hoagwood, assoc. dir. for Children and Adolescents, National Institute of Mental Health, Md. Room 38 Goldfarb Hall. 935-5687.

Noon. Lung biology conference. Adrian O'Hagan, fellow in pediatric allergy/pulmonary medicine. Room 801 Clinical Sciences Research Bldg. 362-8983.

Noon-1 p.m. Molecular biology and pharmacology seminar. "The p53 Tumor Suppressor Pathway." Scott Lowe, assoc. prof., Watson School of Biological Sciences, Cold Spring Harbor Lab., N.Y. Room 3907 South Bldg. 362-2725.

Noon-1 p.m. Work, Families and Public Policy Seminar Series.

"Family Resource Allocation During an Economic Crisis." Duncan Thomas, prof. of economics, U. of Calif., Los Angeles. Room 300 Eliot Hall. 935-4918.

4 p.m. Immunology Research Seminar Series. "The Hematopoietic System: How Is It Established in the Developing Mouse Embryo?" Kyunghee Choi, asst. prof. of pathology, Eric P. Newman Education Center. 362-2763.

4 p.m. Mathematics analysis seminar. Richard Rochberg, prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

4:30 p.m. Russian dept. lecture. "What Might Have Been: Counterfactual History and Fiction." Lubomir Dolezel, prof. emeritus of Slavic and comparative literature, U. of Toronto. Co-sponsored by the Committee on Comparative Literature. Room 101 Dunker Hall. 935-5170.

7 p.m. Architecture's Monday Night Lecture Series. "Architectural Drawing, Narrative Presentation and Environmental Color." Tom Porter, lecturer in design, Oxford U. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6200.

7 p.m. International Leadership Program Speakers' Series. "Cuba 2000: An Informal Discussion of the Late Castro Era." John Carey, asst. prof. of political science. Kate M. Gregg House Classroom. 935-5073.

Tuesday, April 11

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Protein Folding: Chaperones and

Catalysts." James Bardwell, asst. prof. of biology, U. of Mich. Cori Aud., 4565 McKinley Ave. 362-7059.

1:30 p.m. Women in Neuroscience panel discussion. "Finding the Right Faculty Option - A Panel Discussion With Faculty From Different Types of Educational Institutions." Cori Aud., 4565 McKinley Ave. 362-3542.

4 p.m. Anesthesiology research seminar. "Local Anesthetic Molecular Mechanisms and Inherited Cardiac Arrhythmias." Jeff Balser, assoc. dean for clinician scientist development and assoc. prof. of anesthesiology and pharmacology, Vanderbilt U. School of Medicine, Tenn. Room 5538 Clinical Sciences Research Bldg. 362-8560.

Wednesday, April 12

11 a.m. Assembly Series. "Biodiversity: Its Meaning for a Sustainable Environment." Peter Raven, dir., Missouri Botanical Garden, and the Engelmann Prof. of Botany, Graham Chapel. 935-5285. See story on page 5.

4 p.m. Biochemistry and molecular biophysics seminar. "Detection and Characterization of Enzyme Intermediates in PEP-utilizing Enzymes." Karen S. Anderson, assoc. prof. of pharmacology, Yale U. School of Medicine. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Mathematics undergraduate talk. "The Galileo Mission." Jerry Cline, former head of operations research, McDonnell Douglas Corp. Room 199 Cupples I Hall. 935-6726.

5:15 p.m. Mothers and Babies Research Center conference. "First Trimester Screening for Down Syndrome: Development of Tools to Assess Patient Understanding and Satisfaction." Kimberly A. Martin, asst. prof. of obstetrics and gynecology. Room 36, third floor south, St. Louis Children's Hospital. 747-0739.

7 p.m. Architecture's Monday Night Lecture Series. "In Dialogue." William Curtis, architectural historian, France, and Juhani Pallasmaa, architect, Finland. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6200.

Thursday, April 13

4 p.m. Cardiovascular research seminar. "Matrix Metalloproteinases in Vascular Diseases: Lessons From Gene Targeting." Steven Shapiro, assoc. prof. of pediatrics, of medicine and of cell biology and physiology; dir. of pediatric allergy and pulmonary div. and of lung development program. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. Earth and planetary sciences colloquium. "The Pegmatite Story." David London, prof. and interim dir., school of geology and geophysics, U. of Okla. Room 316, McDonnell Hall. 935-5610.

4:30 p.m. Mathematics colloquium. "Waves on Complex Hyperbolic." Gabor Franciscs, prof. of mathematics, Columbia U. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series.

Former PAD chair Sid Friedman returns to deliver Morrin lecture

Sid Friedman, Ph.D., professor in the Theatre Arts Division at Boston University's School for the Arts and former chair of Washington University's Performing Arts Department (PAD) in Arts & Sciences, will present the PAD's third annual Helen Clanton Morrin Lecture at 4 p.m. April 8. The talk, titled "The Performing Arts at Washington University — Then and Now," is free and open to the public and takes place in Room 100 Brown Hall.

Friedman taught acting, directing and theater literature here from 1966 to 1981. During that time, he directed 17 main-stage productions, including "Death of a Salesman," "Measure for Measure," "The Threepenny Opera," "The Cherry Orchard" and "The Imaginary Invalid." In addition, he directed several professional companies for the Edison Theatre OVATIONS! Series, including productions of "Tartuffe," "Our Town," "The Fantasticks" and "Blithe Spirit."

Friedman's visit coincides with a new production of "The Imaginary Invalid," directed by

Morrin Lecture

Who Sid Friedman

Where Room 100 Brown Hall

When 4 p.m. April 8

Admission Free and open to the public

William Whitaker, artist in residence in the PAD. The visit also coincides with a reunion of PAD alumni, including cast members from Friedman's 1970 production of the same play.

The Morrin Lecture was established in 1998 in memory of 1994 alumna Helen Clanton Morrin by her children, Peter and Kevin Morrin and Sheila Humphreys, as well as by friends and colleagues. Previous speakers were the renowned Shakespearean actress Jane Lapotaire and two-time Tony Award-winner Zoe Caldwell.

For more information, call 935-5858.

Peter Raven, famed botanist, discussing biodiversity issues

Peter Raven, world-renowned botanist and environmentalist, will deliver the Phi Beta Kappa/Sigma Xi Lecture on "Biodiversity: Its Meaning for a Sustainable Environment," at 11 a.m. Wednesday, April 12, in Graham Chapel. The lecture, part of the Assembly Series, is free and open to the public.

After nine years as a member of the Department of Biological Sciences at Stanford University, Raven came to St. Louis in 1971 as director of the Missouri Botanical Garden and the Engelmann Professor of Botany at



Raven: Spearheaded garden's revitalization

Washington University. Raven has spearheaded revitalization of the research, educational and display programs at the garden, whose researchers now work around the world, with particular concentration on Latin America and Africa.

Raven is a member of President Clinton's Committee of Advisors on Science and Technology and chairs the National Geographic Society's Committee for Research and Exploration. He served as president of the 16th

International Botanical Congress, held in St. Louis in August 1999, where he received the Engler Medal for distinguished lifetime service to plant taxonomy. Raven was home secretary of the National Academy of Sciences, the most distinguished body of scientists in the United States, for 12 years and was the first chair of the U.S. Civilian Research and Development Foundation, a government-established organization funding joint research with independent countries of the former Soviet Union.

Raven is the recipient of numerous prizes and awards, including the International Prize for Biology from the government of Japan, the Environment Prize of the Institut de la Vie, the Volvo Prize, the Tyler Prize and the Sasakawa Environment Prize. He has received Guggenheim and MacArthur Foundation Fellowships.

Raven is the co-author of numerous books and publications, including two textbooks, "The Biology of Plants" and "Environment." He earned a bachelor's degree from the University of California, Berkeley in 1957 and a Ph.D. in 1960 from the University of California, Los Angeles.

For more information, visit the Assembly Series web page (<http://wupa.wustl.edu/assembly>) or call 935-5285.

"CMV Retinitis in the Age of HAART." Daniel F. Martin, assoc. prof., Emory Eye Center, Emory U. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

Friday, April 14

Noon. Cell biology and physiology seminar. "Nuclear Migration and Its Implications for Brain Development and Cancer." N. Ronald Morris, U. of Medicine and Dentistry of N.J., Robert Wood Johnson Medical School. Room 426 McDonnell Medical Sciences Bldg. 362-2725.

Noon-1 p.m. Gastroenterology research conference. "Regulation of Intestinal Epithelial Cell Proliferation." Vincent Yang, assoc. prof. of medicine, Johns Hopkins U. Room 901 Clinical Sciences Research Bldg. 362-8951.

5 p.m. Stanley Spector Memorial Lecture on East Asian History and Civilization. "The Problem of 'Women' in 20th-century Chinese Thought." Tani Barlow, assoc. prof. of history, Jackson School of International Studies, U. of Washington. Room 100 January Hall (reception following, Room 30). 935-4448.

Music

Thursday, April 6

8:30 p.m. **Holmes Jazz Series.** InsideOUT,

jazz combo. Holmes Lounge, Ridgley Hall. 935-4841.

Saturday, April 8

8 p.m. **Piano recital.** Rita Ho, piano. Graham Chapel. 935-4841.

Sunday, April 9

3 p.m. **Wind Ensemble concert.** Dan Presgrave, dir. Graham Chapel. 935-5581.



On stage

Friday, April 7

8 p.m. **Performing Arts Dept. play.** "The Imaginary Invalid." William Whitaker, dir. (Also April 8, same time, and April 9, 3 p.m.) Cost: \$10; \$8, senior citizens and WU faculty, staff and students. Edison Theatre. 935-6543.

Friday, April 14

8 p.m. **OVATIONS! Series.** "MOMIX in Orbit." (Also April 15, same time, and April 16, 2 p.m.) Cost: \$25. Edison Theatre. 935-6543. See story on page 4.

Alternative Spring Break takes students far afield



Building many bridges In experiences variously described as "amazing," "life-changing" and "heart-wrenching," 57 University students passed up surfing and skiing to spend spring break helping others. The Campus Y's Alternative Spring Break took groups to Alaska, Florida, Oklahoma, El Salvador, Belize and the Dominican Republic to build everything from bridges to houses to chicken coops and, most importantly, new friendships in new places. WU students taught at a YMCA school operated in Belize; they helped Dominicans build a new Y and, because El Salvador is too dry to cultivate crops in the summer, they built chicken coops (above) to help provide Salvadorans another livelihood. The coop crew included (back row, from the left) David Pinzur, Stephanie Baker and Daniel Oliphant, and (front row) Jasmine Wong, Erin Cubbisson, group leader Justine Elliot, Stephanie Peters, Mark Gomez and Elizabeth Brewster.

Sports

Friday, April 7

3:30 p.m. **Women's tennis** vs. U. of Ill., Springfield. Tao Tennis Center. 935-5220.

Saturday, April 8

9 a.m. **Men's tennis** vs. U. of Wis., Oshkosh. Tao Tennis Center. 935-5220.

10 a.m. **Men's and women's track and field.** WU Invitational. Bushyhead Track and Francis Field. 935-5220.

Monday, April 10

4 p.m. **Men's tennis** at Saint Louis U. 935-5220.

Tuesday, April 11

2 p.m. **Men's baseball** vs. Maryville U. Kelly Field. 935-5220.

Wednesday, April 12

1:30 p.m. **Men's baseball** vs. William Woods U. Kelly Field. 935-5220.

Saturday, April 15

2 p.m. **Women's softball** vs. Fontbonne College. Tao Tennis Center. 935-5220.

And more...

Thursday, April 6

7:30 p.m. **Feminist reading group meeting.** Rachel Roth, author and asst. prof. of political science and women's studies, will discuss her book, "Making Women Pay: The Hidden Costs of Fetal Rights." Hurst Lounge, Room 201 Duncker Hall. 935-5102.

Friday, April 7

6 p.m. **PRINTMARKET preview party.** Cost: \$50, \$35 for those under age 35. Steinberg Hall. 361-3737.

7 p.m. **Catholic Student Center twilight retreat.** "No One Cries the Wrong Way: On the Goodness of God and the Mystery of Human Suffering." The Rev. Joe Kempf. Co-sponsored by WU Student Union.

Catholic Student Center (dinner 6:30 p.m.). For reservations, call 935-9191, ext. 250.

Saturday, April 8

9 a.m. **Continuing Medical Education program.** "Myasthenia Gravis: Clinical and Basic Concepts." Cost: \$125, physicians; \$95, allied health professionals. Eric P. Newman Education Center (registration and breakfast 8:30 a.m., dinner 6 p.m., Holiday Inn, Westport Plaza). For reservations, call 362-6891.

10 a.m. **PRINTMARKET.** Sale of fine prints and other works on paper. (Also April 9, same time.) Cost: \$5, \$2 for students. Sponsored by WU Gallery of Art. Steinberg Hall. 361-3737.

Noon. American Indian Awareness Week Pow Wow. American Indian dancers, trading booths, arts, crafts, music and food. Sponsored by the Kathryn M. Buder Center for American Indian Studies. Field House. 935-4510.

Sunday, April 9

3 p.m. **Physical therapy graduate program's 5K race/one mile walk.** "Run for Your Life." Cost: \$12. Proceeds benefit the Foundation for Physical Therapy. Upper Muny parking lot, Forest Park. 367-6853.



Tuesday, April 11

8 p.m. **International Writers Center Reading Series.** Nuala Ni Dhomhnaill, Irish poet, will read from her work. Cost: \$5, free for students and senior citizens. West Campus Conference Center, 7425 Forsyth Blvd. 935-5576.



Wednesday, April 12

11:30 a.m.-12:30 p.m. **Russian dept. open house.** Room 216 Ridgley Hall. 935-5177.

Thursday, April 13

4 p.m. **Digital Cultural Resources Group panel discussion.** "Delivering Streaming Media on the WU Campus." Representatives of the music dept., libraries and general counsel's office. Room 216 Eads Hall. 935-5466.

Saturday, April 15

Noon. Medical school retirees annual luncheon. Cost: \$13. Bevo Mill Restaurant, 4745 Gravois Ave., St. Louis. 867-2320.

Sports Section

Softball team wins three of four games

Washington University's softball team continued its hot streak with three wins in four games last weekend. The Bears stretched their winning streak to eight games with a doubleheader sweep of Concordia University (Ill.), 8-1 and 16-3, Friday, March 31, before splitting with Elmhurst College on Saturday. Elmhurst won game one, 3-1, but WU won its ninth game in its last 10 tries with a 2-0 shutout in game two. Against Concordia, the Bears jumped out to a 5-0 lead with five runs in the top of the second. WU added three runs in the top of the sixth to post the 8-1 win. The Bears trailed in game two, 3-2, though Anne Gregory hit the first home run in the program's brief history in the top of the first inning. WU scored

11 runs in the top of the fifth, however, to put the game away. Freshman Kate Gase highlighted the inning by hitting a solo home run in her first at-bat of the inning and a grand slam later in the same inning. Freshman pitcher Liz Smith got the win in both games with a pair of complete games. Against Elmhurst, WU took a 1-0 lead in game one, but Elmhurst scored three runs in the bottom of the fourth to take the win. In game two, Smith tossed a four-hitter, and Gregory added her second home run in as many days as WU posted the 2-0 win.

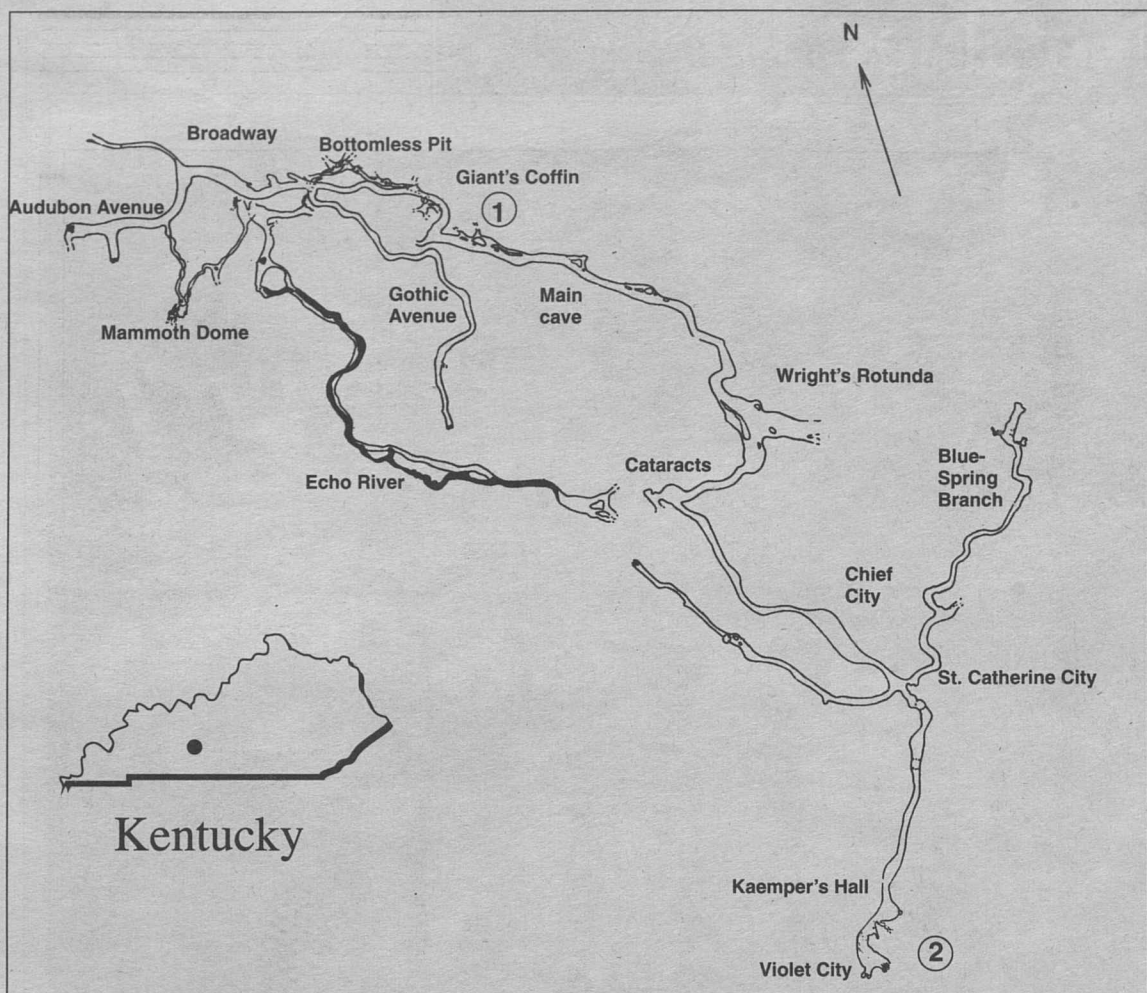
Baseball snaps five-game skid

The baseball team saw its losing streak hit five games with a 7-4 loss at MacMurray College March 30, but WU rebounded

with a doubleheader sweep of Eureka College Sunday, 6-1 and 7-4. MacMurray opened a 7-1 lead before the Bears added three late runs. Greg Davis and Graham McBride each had two hits, and Jon Curd tossed four innings of one-run relief. Junior pitcher Kurt O'Neal got WU back on track by tossing a complete-game gem in a 6-1 win over Eureka. He allowed just four hits and one walk while recording four strikeouts and 15 groundball outs. Six different players recorded RBIs, and six scored runs. Freshman pitcher Damien Janet kept the beat going with a complete-game win in game two for his first collegiate win. McBride was three-for-four with a pair of runs scored, and Kevin Lux hit a towering grand slam in the bottom of the second to earn four of his five RBI as WU rolled to the 7-4 win.

Women's netters extend streak

The women's tennis team continued its rebound from a 3-5 start as it won its sixth and seventh straight matches, 9-0 over Augustana College and 8-1 over the University of Chicago, this weekend at the Tao Tennis Center. The win over Chicago was the 35th in the 25-year history of the Washington University women's tennis program. Steph Cook, Nandini Chaturvedula, Kat Copiozo, Shilpa Reddy and Jen Kivitz each posted two singles wins, while Katie Abrams had one. Chaturvedula and Cook were 2-0 at No. 1 doubles, Abbie Lockwood and Robin Behrstock were 2-0 at No. 2 doubles, and Reddy and Kivitz were 2-0 at No. 3 doubles.



This map of the historic section of Mammoth Cave, located in south central Kentucky, was surveyed and drawn in 1908 by German Max Kaemper. Anthropology researcher George Crothers and a team of volunteers has inventoried American Indian artifacts along a three-mile length of the cave from just below the Giant's Coffin (1) to the Violet City entrance (2). The entire cave is some 350 miles long.

Mammoth

Researcher inventories thousands of artifacts

— from page 1

them. They did not enter the dark zone casually or in a workaday mode."

Mammoth Cave has been a national park since 1941, and the project has been conducted under the auspices of the National Park Service. Park managers had wanted to inventory the cave for some time. Robert Ward, park historian and co-principal investigator on the project, explained that by knowing what and where everything in the cave is, the park service is better able to preserve the cave's cultural and natural heritage.

Volunteers from Earthwatch, a nonprofit organization that connects amateur volunteers with scientific researchers all around the world, have provided key help.

"The stars really lined up for this project," Ward said. "We needed help, but we realized it would be very labor intensive and expensive. Hooking up with Earthwatch gave us a predictable way to do this project and provides us with a unique source of helpers."

Ward said working with Crothers is "one of the things that has made this project such a

pleasure. He has a very dry, wry sense of humor, and yet he is very nurturing, supportive and collegial."

Crothers, also a co-principal investigator, has led the project for all but the first year. (Mary Kennedy, then a graduate student in anthropology here, first established it.) Charles Swedlund, of Southern Illinois University-Carbondale, is the third co-principal investigator.

The project's three-mile stretch, known as the Upper Trunk, is one of the largest and widest passageways and includes the only natural entrance used on cave tours. It is heavily traveled — about 150,000 people visit annually.

Throughout the project, two crews of 10 Earthwatch volunteers work each summer and two more each fall for 10 days each. Each crew is divided into three groups. The first searches for artifacts, marking them with flags; the second group photographs, sketches and describes the items and their locations; and the last group uses a digital theodolite with infrared light to record the exact location of each artifact.

To date more than 8,000 artifacts have been documented. These include digging sticks, mussel shell scrapers, gourd containers, remnants from torches, cordage, twined slippers and fragments of other twined textiles which may have been pouches or bags.

Several pictographs also have been found. Most are simple geometric designs — spirals, cross hatching and wavy lines. By far the largest artifact category is paleofeces, which have provided detailed information on ancient diet, including evidence that Native Americans were eating such domesticated plants as sunflower, sumpweed, goosefoot and maygrass. Hormonal analyses have been conducted on 12 paleofecal samples to determine the gender of the cave users — all male so far. Efforts to recover DNA information are being undertaken now.

Work in the Upper Trunk will be finished this year or next. Then the systematic analysis starts. "All this data has been collected and compiled, but not edited yet," Crothers said.

The next stage will be time consuming. Ward said with only slight exaggeration that the team could be "crunching data now till the end of our lives."

Said Watson: "The quantity and quality of both historic and especially prehistoric material in the main tourist areas of the cave definitely surprised us. Because of the fine scale of the documentation and the long-term nature of the project, George is able to produce quite detailed maps of hundreds of items revealing distributional patterns that cannot be detected without just this kind of painstaking, methodical recording."

Levin

Professorship honors law school founder

— from page 1

become the first faculty member in the law school's history to chair a section of the ABA.

Additionally, Levin has served as a consultant to the Administrative Conference of the United States and chaired the sections on administrative law and legislation of the Association of American Law Schools.

He is the co-author with Michael Asimow and Arthur Earl Bonfield of "State and Federal Administrative Law" (second edition, 1998), a casebook published by West Group. Another book, "Administrative Law and Process in a Nutshell" (fourth edition, 1997), which he co-authored with Ernest Gellhorn, is widely used by law students across the country, and the third edition also has been published in Japanese and Chinese translations.

Levin's other recent writings include "The Anatomy of Chevron: Step Two Reconsidered" in the Chicago-Kent Law Review; "Congressional Ethics and Constituent Advocacy in an Age of Mistrust," Michigan Law Review; and "Judicial Review

and the Uncertain Appeal of Certainty on Appeal," Duke Law Journal.

Levin earned a bachelor's degree in political science from Yale University in 1972 and a law degree from the University of Chicago in 1975. He joined the law school faculty in 1979. Levin served as associate dean from 1990 to 1993 and is a former chair of the University Senate Council and the University Judicial Board.

Hitchcock, for whom the new law school chair is named, played a prominent role in the 1867 founding of the University's Law Department, commonly called the St. Louis Law School. A University trustee from 1859 until his death in 1902, Hitchcock served as the school's first dean from 1867 to 1870 and its third dean from 1878 to 1881, as well as a provost and a member of the faculty.

During his tenure, in 1869, the school became the first chartered law school in the United States to admit women students. Hitchcock also was a founder of the American Bar Association and active in state and local bar associations. He was the great-grandson of Revolutionary War hero Ethan Allen and son of a chief justice of the Alabama Supreme Court.



Ronald M. Levin, J.D., installed March 29 as the inaugural Henry Hitchcock Professor of Law, receives a medallion marking the new professorship from Chancellor Mark S. Wrighton.

'To Boldly Go' — Career expert Peter Fiske in graduate workshop

Planetary physicist and author Peter Fiske, Ph.D., whose writings have helped many scientists shape satisfying careers, will present a workshop titled "To Boldly Go: Practical Career Planning for Scientists" at 2 p.m. April 14 in Moore Auditorium on the Medical Campus.

The workshop, sponsored by the Career Resources Program in the Division of Biology and Biomedical Sciences and the Graduate School of Arts &

Sciences, is open to graduate students and postdoctoral fellows in the biological, physical and natural sciences.

Fiske, who has appeared on National Public Radio's "Science Friday," works at the Lawrence Livermore National Laboratory in California.

The workshop is free. For more information, call 935-7339 or visit the Web (www.scripps.edu/resources/sof/html/fiskewkshp_99.htm).

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Administrative Secretary 000065
LAN Engineer 000094
Library Assistant 000099
Secretary/Technical Typist 000102
Head of Access 000116
Assistant University Webmaster 000118

Supervisor, Help Desk and E-mail Administration 000144
Assistant Director, Management Systems 000149
Administrative Coordinator 000160
University Web Editor 000164
Lab Technician III 000168
Communications Technician I 000188
Researcher 000190
Research Assistant 000191
Data Entry Operator 000199
Department Secretary 000209
Researcher 000212

Accountant 000220
Department Secretary 000222
Assistant Director of Admissions 000224
Sales Associate (part time) 000229
Manuscripts Cataloger (temporary) 000230
Assistant Director of Development 000232
Coordinator, Multicultural Student Groups 000237
Insurance Analyst 000238
Systems Manager 000239
Manager of Employer Relations 000240
Lab Technician III 000241
Administrative Aide 000244

Residential College Director 000248
Department Secretary 000251
Research Technician 000256
Contract Management Liaison 000258
Administrative Coordinator, External Relations 000259
Administrative Secretary 000261
Watchman (licensed) 000262
Admissions Assistant 000266
Customer Assistance Clerk 000267
Administrative Assistant 000268
Deputized Police Officer 000272

Medical Campus

This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of

Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.
Professional Rater (part time) 000299
Research Technician 001003
Insurance Billing and Collections Assistant II 001056
Medical Secretary I (part time) 001272
Staff Scientist 001358
Research Technician I 001384
Research Technician II 001385
Secretary III 001542

Campus Watch

The following incidents were reported to University Police from March 27–April 2. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

March 27

5:01 p.m. — A student reported the theft of his mountain bike, valued at \$300, from a rack on the north side of Eliot Hall. The bicycle was improperly secured with a lock.

March 30

2:57 p.m. — A student reported the theft of her jeans and wallet, containing \$76, credit cards and identification, from Francis Gymnasium.

March 31

1:06 a.m. — Someone damaged a police vehicle by placing a sewer hole cover on the hood. An unknown liquid also was thrown on the driver's side of the vehicle while it was parked on the west side of Umrath Hall.

University Police also responded to four additional reports of theft, one additional vandalism report, one peace disturbance report, one fire alarm, one auto accident and one report of property damage.

Notables

Of note

Lynn Stockman Imergoot, assistant athletic director and women's tennis coach, and **Martha Tillman**, head men's and women's swimming coach, recently were recognized by the St. Louis Association for Girls and Women in Sports at its Spirit of American Women in Sports Leadership Awards dinner. Imergoot was honored as St. Louis Sports Advocate of the Year, and Tillman was named College Coach of the Year. ...

Jonathan W. Mink, M.D., Ph.D., assistant professor of neurology, of pediatrics and of anatomy and neurobiology, recently was named the recipient of a research award from the national Tourette Syndrome Association. One of 15 distinguished awardees, Mink will try to develop an animal model for tics. These stereotyped, repetitive, involuntary movements or vocalizations are the hallmark of Tourette's syndrome, the most common movement disorder in childhood. Each year, the association's scientific advisory board selects applicant projects that offer the most promise for a better understanding of and improved treatments for this neurological movement disorder. ...

Jean E. Schaffer, M.D., assistant professor of medicine and of molecular biology and pharmacology, recently received a four-year \$300,000 grant from the American Heart Association for a project titled "Fatty Acid-induced Apoptosis: A Potential Mechanism of Myocyte Loss in Heart Failure." Schaffer also received a one-year grant from the Rockefeller Brothers Fund for the project. ...

Edward L. Spitznagel Jr., Ph.D., professor of mathematics in Arts & Sciences, recently received the 2000 Missouri Section Award for Distinguished College or University Teaching of Mathematics. The award is given by the Mathematical Association of America (MAA). In winning the Missouri Section Award, Spitznagel, a member of the University's mathematics department since 1969, now is an official candidate for a national MAA award — the MAA Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics. The winner of that award will be determined later in the year.

On assignment

William H. Danforth, M.D., chancellor emeritus and vice chair of the Board of Trustees, will serve as chair of an independent review panel that will conduct a comprehensive review of oversight and monitoring of clinical trials at the Institute for Human Gene Therapy at the University of Pennsylvania.

Speaking of

School of Architecture Dean **Cynthia Weese**, FAIA, **Bill Wischmeyer**, affiliate associate professor of architecture, and several alumni recently spearheaded a day-long discussion bringing together faculty and local practitioners. "Building Partnerships: A Dialogue With



Jammin' Sophomore Jaipal Singh Chauhan (center) provides the beat for his band, Mental Midgets, at Sounds From the Swamp on Saturday, April 1. Chauhan's bandmates, hometown buddies from the Cincinnati area, are bassist Tim Wilken (left) and lead guitarist Chris Sarvak. The free outdoor concert was sponsored by the Congress of the South Forty.

Practitioners, Faculty and Students," allowed these groups to brainstorm on opportunities to share resources, enhance community outreach, expand internship and educational programs and increase collaboration between the school and practitioners. The forum was modeled after a national

American Institute of Architects round table attended by Weese, deans of other major architectural schools and partners in prominent architectural firms, including University Trustee Jerome J. Sincoff, chief executive officer of Hellmuth Obata & Kassabaum and a School of Architecture alumnus.

Alia Fischer nets Jostens Trophy

Senior Alia Fischer, who recently led the Washington University women's basketball team to its third straight national title, has been selected as the recipient of the Jostens Trophy, which recognizes the premier student-athlete in Division III basketball.

The award honors the "true Division III athlete," one that shows excellence in the classroom, on the playing floor and in the community. In addition to a trophy, a \$1,000 scholarship will be presented to the University in Fischer's name. The men's winner was Korey Coon, a senior guard at Illinois Wesleyan University.

For her prowess on the court, Fischer recently earned an unprecedented third consecutive Player of the Year Award from the Women's Basketball Coaches Association (WBCA) after helping the Bears to a second straight 30-0 campaign. Previously, no other player had won the WBCA award twice. The 6-foot-3-inch center graduates as the Bears' all-time leader in scoring, rebounding and blocked shots.

A French and business major, the native of Rochester, Minn., has earned a 3.84 grade point average. She twice has been named to the GTE Academic All-America squad and is currently a candidate for repeat honors.

A member of Thurtene, the University's junior leadership honorary, Fischer also volunteers her time in various community service projects in the St. Louis area. In particular, she has participated in Mentor St. Louis, a one-on-one mentoring program in the city elementary school system, and Into the Streets, a campuswide community service project.

The Jostens Trophy winners are chosen by a national selection committee consisting of college coaches, former athletes, college administrators and selected members of the media.



Fischer: Elite both on court, in class

Engineering school honors seven distinguished alumni

The School of Engineering and Applied Science honors seven alumni at its 26th annual Alumni Achievement Awards Dinner, Wednesday, April 5, at the Fox Theatre in St. Louis.

The event features cocktails and backstage tours of the theatre at 6 p.m., followed by dinner at 7 p.m. and the awards program at 8 p.m.

Co-recipients of this year's Dean's Award are Judith H. McKelvey, M.D., and James M. McKelvey, Ph.D. Christopher Chivetta is the Young Alumni Award honoree. The recipients of alumni achievement awards are Santanu Das, Ph.D.; George M. Johnson; Laurel Kaleda; and James M. Mozley Jr., Ph.D.

The McKelveys are honored for their dedication to the engineering school. Jointly and individually, the couple have spent countless hours providing guidance and support to the school's students, faculty members and friends. They have inspired the enthusiastic support of others, which has enhanced the school's progress and reputation.

Although officially retired since 1996 after 39 years of service, former dean **James McKelvey** still spends many hours each week as part of the chemical engineering department. During his 27-year tenure as dean, he led the school to a position of national prominence in engineering education. He was responsible for many innovations, including the Engineers' Scholarship Program, the Dual Degree Program and the Cooperative Education Program. The recipient of a master's degree in chemical engineering in 1947 and a doctorate in 1950, he is recognized as one of the early leaders in the field of polymer processing.

Judy McKelvey, who received

a bachelor's degree in 1958 from the University and a medical degree from the University of Rochester, N.Y., is a psychiatrist with the U.S. government. She manages an interdisciplinary team of medical and administrative officers in the selection and processing of applicants for government positions. McKelvey has directed a study on career progression for professional women employees and established a screening program for spouses and dependents assigned to overseas locations.

Chivetta, who received a bachelor's degree in mechanical engineering in 1984 and a master's of business administration in 1986, receives the Young Alumni Award in recognition of his excellent reputation in the design of educational facilities and for his commitment to the St. Louis community.

Chivetta joined Hastings & Chivetta Architects Inc. in 1990. The firm, co-founded by his father, Anthony, had built a reputation for designing educational, commercial, institutional and municipal projects. Christopher Chivetta's experience with building system design and analysis gave the firm the expertise to begin designing post-secondary educational facilities for laboratory, science and engineering programs. The St. Louis Business Journal recognized him in 1998 as one of their "40 Under 40" business leaders in St. Louis. He currently serves as a member of the Alumni Advisory Council for the engineering school.

Das, who received a doctorate in electrical engineering in 1973, is being honored for his contributions to the advancement of the telecommunications and data communications industry, his entrepreneurial spirit and his

commitment to helping others.

In 1988, Das, along with three other founders, started TranSwitch Corp., which is headquartered in Shelton, Conn. TranSwitch designs, develops and markets highly integrated digital and mixed-signal semiconductor solutions for the telecommunications and data communications equipment markets. Das has held the position of president and chief executive officer of TranSwitch since its inception and has been chairman of the board of directors since 1997.

Johnson, who earned a bachelor's degree in civil engineering in 1952, is recognized for his career achievements in the bridge construction and transportation engineering industries.

For 20 years, Johnson held several different engineering jobs and became distinguished in bridge construction and transportation. In 1972, Johnson founded St. Louis Bridge Company and in 1984 Osage Constructors, which together have grown to an annual volume of \$30 to \$40 million. Projects of note include the 12th and 14th Street viaducts, the recent reconstruction of the Cole Street overpass, the current Eads Bridge deck replacement, the deck on the Daniel Boone Bridge across the Missouri River at Chesterfield, the Illinois approach to the Clark Bridge in Alton and saving the Highway 240 Bridge over the Missouri River during the 1993 floods.

Kaleda, who received a bachelor's degree in applied math and computer science in 1966, is recognized for her achievements in the development and management of innovative technologies in the computer industry and for her contributions to the professional community.

In a career at IBM which spans 30 years, Kaleda currently is a

senior marketing manager in the Storage System Division. She is responsible for the development and coordination of strategies for disk storage systems including integration of strategic product planning and portfolio management into corporate and division product development. She has responsibilities for implementing new processes to fully integrate market management knowledge and strategies into product development.

Mozley, who earned a bachelor's degree in chemical engineering in 1943, a master's degree in 1947 and a doctorate in 1950, is honored for contributions to the fields of radiology, biomedical engineering and chemical engineering, as well as his commitment to engineering education.

Mozley retired in 1985 after 20 years of research, administration and teaching at Syracuse University and the Upstate Medical Center, where he served as professor of radiology and director of the Division of Bioengineering. Previously, he had served as head of the Division of Radiochemistry at Johns Hopkins University. He also did major research in measuring the radiation dose to humans undergoing diagnostic X-ray radiographic and fluoroscopic examinations and pioneered in developing low-light-level fluoroscopic imaging systems. Mozley was also a major designer and developer of instrumentation and imaging systems for the then-newly forming specialty of nuclear medicine.

Christopher I. Byrnes, Ph.D., dean of the engineering school, is presenting the awards along with Dan Logan, president of the school's Alumni Advisory Council.

Washington People

Despite effective new prescription treatments for asthma and greater understanding of the disease, asthma-related deaths among children 5 through 14 more than doubled between 1979 and 1995. Why this seemingly treatable disease now takes the lives of more than 100 American children every year is one of the questions that absorbs Robert C. Strunk, M.D., professor of pediatrics in the Division of Allergy and Pulmonary Medicine, an international expert on asthma deaths who has worked to discover which children are more prone to die.

"Most of the people who do well in research have a passion for it," said S. Allan Bock, M.D., a physician in private practice in Boulder, Colo., and a clinical



Robert C. Strunk, M.D., professor of pediatrics and an internationally known expert on asthma deaths, examines a young patient, Brittney Ross, during a routine checkup.

Passionate in pursuit of asthma's answers

Robert C. Strunk, M.D., finds contributing factors in family life

BY DIANE DUKE WILLIAMS

researcher at National Jewish Medical and Research Center, who has known Strunk for 22 years. "Bob has a passion for how families work together, especially ones affected by this chronic disease."

Likely victims

Children from families that don't function or communicate well are more likely to die from asthma. But appropriate care and planning could prevent most asthma deaths. "When a death occurs, it's usually clear that the parents hadn't paid attention as their child's asthma was getting worse," said Strunk, who has asthma himself. "Conflict or disorder in the family prevents good care or enhances the possibility of recognizing things late. Children just get trapped."

Those at highest risk for asthma include children living in poverty or in the inner city, African-Americans and Hispanics. The disease affects almost 5 million children in the United States,

making it the most common chronic childhood illness.

Over the years, Strunk has learned that children who seek asthma care in emergency departments are more likely to die from asthma than those who see primary-care doctors for regular care of the disease. Children in low-income urban neighborhoods are more apt to seek care in emergency departments.

Since 1994, he has been involved on numerous levels in the national Childhood Asthma Management Program, the largest and most comprehensive look at whether aggressive treatment of asthma during childhood can prevent a decline in lung function as children reach adulthood.

Growing up outside Chicago in Park Ridge, Ill., Strunk was a smart, quiet child always interested in bird watching, science and human nature. His father, who had an exciting job as a trade association lobbyist, always wanted Strunk to study business.

Strunk tried to keep an open mind about his major when he started studies toward a bachelor's degree at Northwestern University in 1960. But he excelled in science, especially organic chemistry, and knew science was where he belonged.

He didn't feel as strongly about becoming a doctor. "I considered getting a Ph.D. in basic science,

but going to medical school seemed like a reasonable thing to do because some of my friends in college were going in that direction," Strunk said.

In his last semester of college, a job in the laboratory of a biochemist at Northwestern University's Medical School confirmed how much he liked research. "This experience made it clear that I was interested in academics," he said.

"Bob has a passion for how families work together, especially ones affected by this chronic disease."

S. ALLAN BOCK

He decided to pursue a master's degree in biochemistry and a medical degree at Northwestern. But the physician in charge of the third-year pediatrics rotation made such an impression that Strunk chose to specialize in pediatrics. "He was very dynamic and a great, great teacher," he said. "It was fun seeing the patients and seeing how he interacted with kids of different ages. He made me sure that's what I wanted to do."

After completing an internship in pediatrics at Cincinnati Children's Hospital, he was drafted into the military and served at a naval hospital in Newport, R.I., during the Vietnam War. He learned a great deal at the hospital about common pediatric illnesses, families and psychological problems. "I've always been interested in what happens psychologically to children with chronic illnesses," he said.

Strunk then completed a fellowship in allergy and immunology at Boston Children's Hospital. There he worked in the laboratory of Harvey Colten, M.D., who would go on to head the Department of Pediatrics at the Washington University School of Medicine from 1986 to 1995. Although Strunk was interested in both allergy and immunology, he decided to specialize in allergy because there were more job opportunities.

After treating asthma patients at the University of Arizona for four years, Strunk joined the University of Colorado and National Jewish Medical and Research Center, where he had many pediatric and adolescent patients with severe asthma and numerous psychological problems. "Our job was to sort out the problems and help them adapt better," he said. "I got to know the disease well and how the children adapted to it."

During his nine years at National Jewish, he learned that pediatric asthma patients face unique social issues. Because children with asthma look normal and society expects them to act normally, these children don't think of themselves as ill and don't want to take their medications. He also discovered that asthma often interferes with children's ability to develop socially. These youngsters frequently have to stop playing and become ostracized from groups.

In addition, Strunk became familiar with the fear of patients and parents that accompanies serious attacks when children can't breathe. "I began to understand the overprotectiveness and enmeshment that develop in many of these families," he said.

Even though Strunk's son, Chris, and daughter, Alix, developed asthma, Strunk wanted them to be able to pursue any interest. Chris has become a great soccer player. Alix is accomplished in tennis and in soccer.

In addition to research and patient care, Strunk, who came to Washington University in 1987, enjoys teaching and mentoring other researchers. "I really like helping other investigators come up with ideas and work through the research process," he said.

Wonderful mentor

Medical student Archana Goel, who is working with Strunk on a research project, called him a wonderful mentor. "He takes great interest in teaching and in his patients," she said.

Steven D. Shapiro, M.D., professor of pediatrics, of medicine and of cell biology and director of the Division of Allergy and Pulmonary Medicine, said Strunk excels in all areas of academic medicine. "Bob Strunk masterfully combines outstanding patient care, state-of-the-art research in asthma, excellent teaching and total collegiality," he said. "I don't know where he gets the energy for such a busy practice and active research, but he pursues all aspects of his career with passion and enthusiasm. He truly is a role model for us all."

Strunk said one of his goals is to figure out how to get doctors to provide regular care for asthma and to get parents and patients to comply. "If we could just accomplish this," he said, "we could make such a difference in the lives of children."



Strunk with his family —(back row) son, Chris (left); stepson, Rick; (middle row) Rick's wife, Jennifer, and Strunk; (front row) daughter, Alix; stepdaughter, Ellen; and wife, Juanita.

Robert C. Strunk, M.D.

Raised in Park Ridge, Ill.

Education Northwestern University, B.A., 1964; Northwestern University Medical School, M.D., 1968; Northwestern University, M.S., 1968.

University position Professor of pediatrics

Family Wife, Juanita; son, Chris; daughter, Alix; stepson, Rick; stepdaughter, Ellen.

Hobbies Running, bird watching, attending WU women's basketball games, traveling.