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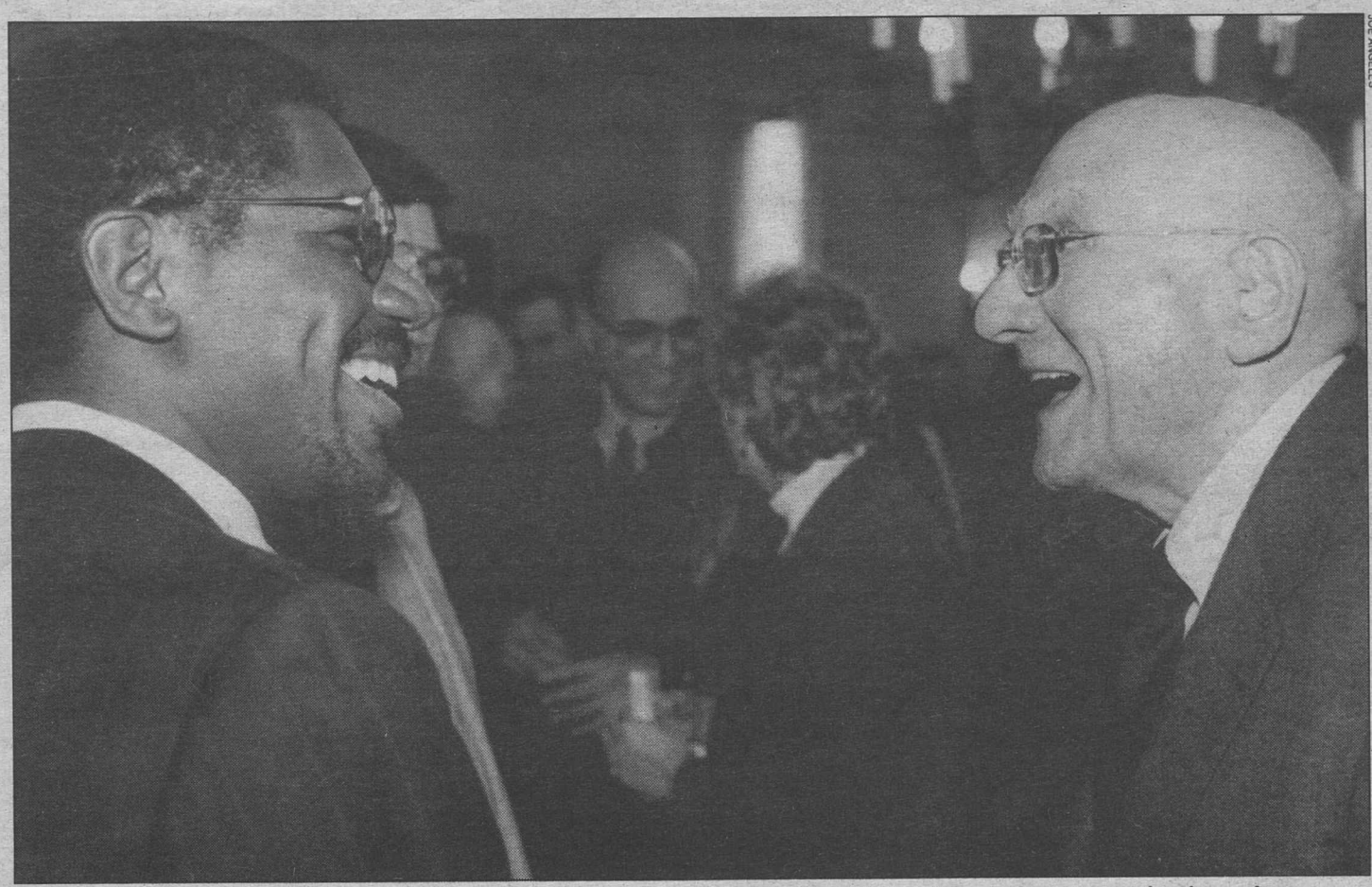


JOE ANGELES

Gerald Early, Ph.D., left, speaks with former Washington University Provost Merle Kling during a reception honoring Early's appointment as the Merle Kling Professor of Modern Letters in the Department of English in Arts and Sciences.

'You remembered me'

In speech, Gerald Early gives a tribute to a former teacher

During a Feb. 6 reception honoring his appointment as the Merle Kling Professor of Modern Letters in the Department of English in Arts and Sciences, Gerald Early, Ph.D., delivered a heartfelt speech. Early, who also is professor and director of the African and Afro-American Studies Program in Arts and Sciences, succeeds the late Stanley Elkin as the Kling professor, a chair that was created to honor Kling on his retirement in 1983 as provost. The following are excerpts from the speech Early gave in the packed Women's Building Formal Lounge:

I have been asked to make a brief address to you in which I should discuss my work and its meaning or, perhaps put another way, that should discuss how I came to this position today of receiving this chair. ...

Of course, a writer needs a creed, and I got one, luckily enough, at an early age and realized instantly that it was the creed for me. I slipped a copy of a book my sister was reading called "Notes Of a Native Son," written by a very earnest-looking black man named James Baldwin. ... I read this book with great relish, little understanding, and not a great deal of profit except in two particulars: namely, the getting of a creed and the getting of a source of inspiration, or a model, as it were. ...

I spoke of a creed, and Baldwin supplied one for me. It was this, the last line of his "Autobiographical Notes," the essay that begins the volume: "I want to be an honest man and a good writer." There it was, and it seemed easy enough to do. Scrawled on a sheet, it was hammered upon my doorjamb, as much to me a law as Emerson's whim. But not so easy, I discovered, to be a good writer. What work and work! What toil and labor! What endless series of embarrassments and botches! Even harder still was trying to be an honest man. ...

My teacher in the fifth and sixth grades was Mr. Lloyd Richard King, a big, light-skinned black man with a loud voice and a dedication to his profession that was something to behold. I am sure he wanted to be something other than a schoolteacher, but, having wound up in that line of work, he gave it everything he had. He was the only schoolteacher I got to know well. For years after leaving elementary school, I would go see him, talk with him, get advice, tell him my ambition. He thought, poor man, that I would do great things. Not because I was the brightest boy he ever had as a student, although I was surely bright enough for notice. But because I knew what greatness was, in some vague way, and wanted it as if it were bread. I told him with an innocence that rescued this from sheer arrogant idiocy: "When I walk down the street, I want people to say: 'There goes

Continued on page 7

Archaeologist helps unroot hominid prints

Archaeologist Fiona Marshall, Ph.D., has excavated many different materials — bones, stone tools, fire pits, pottery, post holes, even ancient hut floors — but last summer, she excavated tree roots that were threatening the oldest hominid footprints ever found, the Laetoli footprints in Tanzania, Africa.

Marshall, associate professor of anthropology in Arts and Sciences, was part of an international team commissioned to preserve the only known early hominid footprint trail dated at 3.5 million years old. The hominids *(Australopithecus afarensis)* who made these prints were ancestors of modern humans.

The footprints, which first were discovered in 1978 by famed paleontologist Mary Leakey, show three hominids walking north across an open plain and are among the most remarkable remains of early hominids — easily the most dramatic evidence of early bi-pedalism.

Fiona Marshall

The international team, a collaboration between the Getty Conservation Institute (GCI) in California and the Tanzanian government, is re-excavating, documenting and conserving the footprints and developing a plan for protecting them for posterity. The whole project is scheduled to take one or two more years.

In 1979, after Leakey and her team excavated and studied the footprints, they carefully reburied them under about two feet of soil — a common way to preserve remains left in the ground. In recent years, scientists had become concerned as more and more trees and shrubs grew in the trackway.

"It was a bit like turning the soil in a garden," Marshall said. "The Leakey team created a microhabitat that was very good for acacia tree growth by putting 30 to 70 centimeters of sand on the footprints. Then they armored the top of the mound with big lava boulders to stop elephants from churning it up in the wet season. They hoped it would be less conducive to vegetation growth than it has been."

Marshall led the team that re-excavated the footprints. Other experts included conservators, geologists, botanists, photographers and scientists that study locomotion. One of the big unanswered questions is whether *Australopithecus afarensis* was better at swinging through trees or walking across the plains.

Last summer's excavation focused on about 10 meters of the southern portion of the hominid trackway, which is known as

Continued on page 8

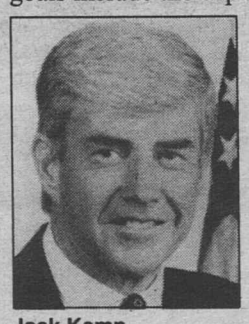
Former HUD Secretary Jack Kemp to lecture in Assembly Series

Jack Kemp, former secretary of the U.S. Department of Housing and Urban Development (HUD), will speak at 11 a.m. Wednesday, Feb. 21, in Graham Chapel. His lecture, "America on the Eve of the 21st Century," is part of the Assembly Series.

Seating will be limited initially to those with Washington University identifications. However, public seating will be available if seats remain at 11 a.m. A live telecast of Kemp's lecture will be broadcast in Room 215 Rebstock Hall for those unable to gain admittance to Graham Chapel.

In March 1995, Kemp was appointed head of the National Commission on Economic Growth and Tax Reform to study how tax reform might benefit the economy. The commission's findings, which were reported last month, recommended a flat tax, among other changes.

Kemp is on the board of directors of Empower America, a public policy advocacy organization he founded in 1993 with William Bennett, Vin Weber and Jeane Kirkpatrick. Empower America's goals include the expansion of freedom and democratic capitalism and advancing policies to encourage economic growth and entrepreneurship. Kemp is a Distinguished Fellow at the Heritage Foundation and a Visiting Fellow at the Hoover Institution. He is also on the board of directors of Habitat for Humanity and on the board of Howard University in Washington, D.C.



Jack Kemp

Kemp, who served as HUD secretary from 1989 to 1992 under President George Bush, is credited with the establishment of Enterprise Zones and an effort to expand home ownership among the poor during his tenure. Prior to his cabinet appointment, he represented Buffalo, N.Y., in the U.S. House of Representatives from 1971 to 1989.

Before serving in Congress, Kemp was a professional football quarterback for 13 years, playing for the Buffalo Bills in the team's successful 1964 and 1965 seasons, during which he was named the league's most valuable player.

Kemp did not seek the Republican presidential nomination this year because, he said, his passion for ideas is not matched by a passion for fund raising.

Kemp's lecture is co-sponsored by the Assembly Series, the Campus Jewish Relations Council, the College Republicans, the Council of Students of Arts and Sciences, the Department of Political Science in Arts and Sciences, the Jewish Student Council, the Political Science Undergraduate Association, Student Union, the Washington University College Democrats, and the Washington University/Israel Public Affairs Committee.

For more information, call 935-5297.

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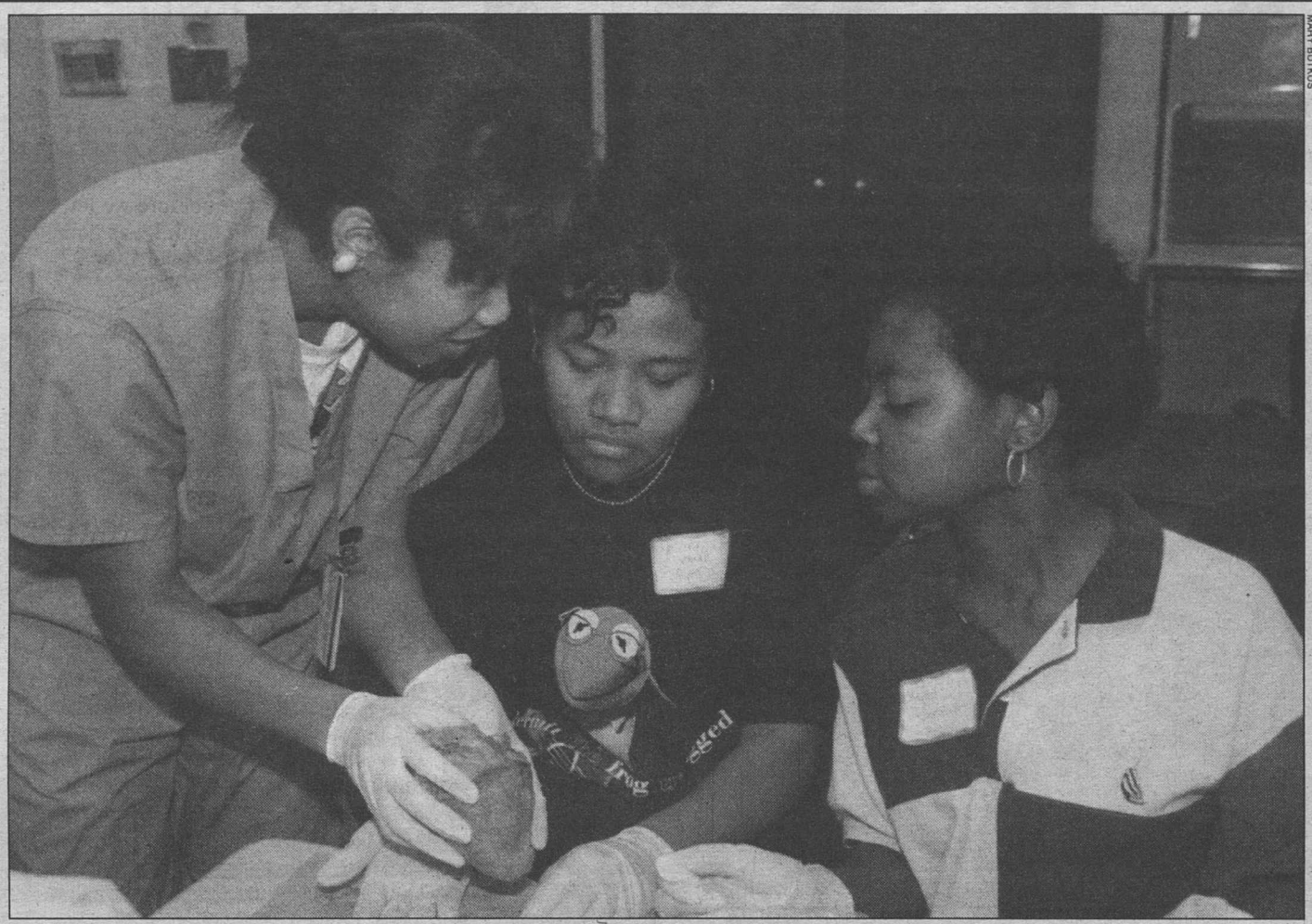
Medical Update



MARY BUTKUS

Second-year medical student Letitia Bridges, left, explains the human heart's anatomy to McCluer High School students Renada O'Neal, center, and Krystal Scarbrough. O'Neal and Scarbrough are participating in the Health Professions Recruitment Exposure Program, which is sponsored by the Student National Medical Association. In the program, Bridges and other School of Medicine students are teaching 55 juniors and sophomores from area public and private high schools about medicine and other health-related fields.

Varmus emphasizes community advocacy for biomedical research

In an era of fiscal conservatism, Harold Varmus, M.D., director of the National Institutes of Health (NIH), told Washington University students and faculty that being an advocate for biomedical research within their communities is one way to help ensure the continuing federal support for university research.

Varmus spoke Feb. 3 at the Eric P. Newman Education Center to students and faculty in the Division of Biology and Biomedical Sciences' cell and molecular biology graduate program. He addressed the group during a retreat organized by the students to discuss research and career prospects.

The likelihood of receiving NIH funding for research "goes well beyond the ability to write a good grant application or the ability of your peers to review it adequately," Varmus said, adding that it's essential to let people know that many of the important research findings at universities are funded by the NIH.

Public recognition of the NIH's crucial role in funding biomedical research is important, he said, when the White House and Congress set their budget priorities. The more money appropriated to the NIH, the more available for funding research.

Despite a bleak budget forecast, the NIH has secured a 5.7 percent increase for fiscal 1996, which raises its budget to $11.9 billion.

However, at a time when scientists are making key discoveries at a faster pace, the agency is turning down an increasing number of grant applications. One reason for that, Varmus explained, is the dramatic rise in the number of workers in biomedical science. Between 1987 and 1992, the number of workers in biomedical science increased 47 percent to 53,000, pushing the demand for research funding even higher.

He cautioned that universities must give prospective graduate students a realistic assessment of career opportunities in science. And while not all graduate students can expect to become NIH-supported scientists, there are many career paths, in addition to bench research, available to graduate students in science. Some of those, he said, include science journalism and science policy.

— Caroline Decker

Infertility treatments

Future drugs may alleviate frequent injections, risk of multiple births

Irving Boime, Ph.D., professor of molecular biology and pharmacology, has gone back to the drawing board to make infertility treatments easier on women. By tinkering with reproductive hormones, he is creating forms that may stimulate ovulation without the discomfort of frequent injections or the risk of multiple births.

"Women who take hormones prior to in vitro fertilization or for other infertility problems receive several injections daily," said Boime, also a professor of obstetrics and gynecology. "But we have designed longer-acting versions that might be effective with fewer injections."

Studies with cultured cells and animals are paving the way for human trials. Boime discussed the advent of designer hormones Sunday, Feb. 11, at the annual meeting of the American Association for the Advancement of Science in Baltimore.

Fifteen percent of American couples are infertile. Many of the women who seek treatment receive a pituitary hormone called follicle-stimulating hormone (FSH). Circulating in the bloodstream, FSH binds to cells in the ovary, stimulating egg production. But it can only be given by injections, which must be repeated because the hormone is broken down after it has circulated for a while.

FSH belongs to a family of hormones called gonadotropins. Each member is made of two related proteins that snap together like Lego blocks. One protein, the alpha sub-unit, is the same in all gonadotropins. The beta sub-unit differs.

Boime took advantage of this difference to "improve" the FSH molecule. Through genetic manipulation, he created cell lines that secrete a hybrid FSH. The beta sub-unit of the altered hormone carries a piece of the beta sub-unit from a related placental hormone. Human chorionic gonadotropin (hCG) maintains pregnancy, and its beta sub-unit allows it to stay in the bloodstream longer than FSH.

A colleague at Stanford University, Aaron J. W. Hsueh, Ph.D., found that the new version of FSH survived in animals three times longer than natural FSH. "These results establish a rationale for making such hybrid molecules for clinical use," said Boime. "Moreover, treatments with natural FSH have the potential to overstimulate the ovary, which can result in multiple births. So by controlling the dose, it should be possible to give women one injection of the long-lasting FSH without causing overstimulation."

The modified FSH has been patented, and Organon, a pharmaceutical company in the Netherlands, has licensed the technology for commercial development.

Boime also has modified human chorionic gonadotropin, which is used in lieu of another natural hormone to stimulate sperm production in infertile men. Because the hormone's two sub-units are unsnapped before it is broken down, Boime thought it might last longer if the sub-units were welded to each other in tandem. So he joined the genes, making sure the relevant parts of both units still could fit together to make the active part of the molecule. "This single chain works both in cultured cells and animals," he says. "And it is active for longer than natural hCG."

Boime said he believes these recombinant techniques could be applied to other two-part hormones and growth factors. "Our approach could produce a variety of clinically important molecules that would be more potent, safer and easier to use," he predicted.

— Linda Sage

Wayne Barnes named 1996 Missouri Inventor of the Year

Wayne M. Barnes, Ph.D., has been named the 1996 Missouri Inventor of the Year. He received the award, given by the Patent, Trademark and Copyright Section of the Bar Association of Metropolitan St. Louis, on Monday, Feb. 12, at the Junior League in Clayton.

Barnes, an associate professor of biochemistry and molecular biophysics, improved a method for repeatedly copying small amounts of DNA to obtain sufficient quantities for analysis. Forensic scientists now use this method to prepare evidence from crime scenes for DNA fingerprinting. It also is used widely by virologists, molecular biologists and gene mappers.

"The invention is such a significant advance in the art that Dr. Barnes stood out from the other candidates," said G. Harley Blosser, a patent attorney with Senninger, Powers, Leavitt & Roedel and chairman of the Patent, Trademark and Copyright Section.

The method, called polymerase chain reaction, or PCR, employs a robust enzyme called Taq from a bacterium that lives in hot water. The enzyme strings nucleotide bases together, using the original DNA as a template. But Taq can handle only very short pieces of DNA, and it copies rather carelessly because it has no "proofreading" ability. "I discovered that Taq puts in the wrong nucleotide base once in every few thousand additions," Barnes said. "That wrong base tends to prevent the enzyme from adding more bases or becomes a mutation in the DNA product."

Another DNA-copying enzyme, Deep Vent, comes from a bacterium that lives in volcanic vents in the ocean floor. Deep Vent is an excellent proofreader, but it performs poorly in PCR because it chews up the primer DNA that keeps the reaction going.

Many scientists have tried to make a hybrid molecule that would perform PCR as well as Taq and proofread as well as Deep Vent. But such hybrids always have performed poorly in PCR.

Barnes came up with a simpler solution. To a normal amount of Taq, he added a dash of Deep Vent. The mixture copies DNA 10 to 20 times more accurately than Taq alone and copes with 10-fold larger pieces — up to 35,000 base pairs. Barnes calls the method LA (long and accurate) PCR.

Six companies have used Barnes' method to improve their PCR kits. In February 1994, the pharmaceutical giant Hoffmann-LaRoche Inc. became the first licensee.

Record

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Washington People

After paying dues, Fahey reaps dividends

To watch Nancy Fahey coach on the basketball sidelines is to be transfixed by the conductor instead of the orchestra. To be visually captured by the firefighter instead of the blaze.

It can be a compelling — and telling — way to watch a game. Yes, if you enter the gym midway through the contest, it still will be necessary to peek at the scoreboard to see what's already occurred. But if you want to know what's transpiring at that *exact* instant, you need only study Fahey's face.

No one can look pained like Fahey. No one can transmit utter disgust with such an efficient squint. Granted, displays ranging from satisfaction to approval to jubilation tend to blur into the same tight-lipped semi-smile — but in those instances, the corresponding number of rapid-fire handclaps help complete the equation.

Tightrope-walking the sideline, Fahey quibbles, then coddles. She preaches, then teaches — all the while keeping a pace that would exhaust an aerobics instructor. Standing stoically in a "thinker" pose with one hand cradling her chin and the other arm folded in front, Fahey suddenly bursts into motion with her trademark triple-stomp of the heel, following an official down the legal length of the sideline and then spinning back toward her usually vacant chair. In mid-stride, though, she pivots toward the players on the bench and kneels down to calmly conduct a quick clinic. Then it's back up with a whirl to continue her running monologue: "Pressure, pressure, pressure! Up, up, up! Settle, settle, settle!"

And finally — in at least 80 percent of the instances — the scenario concludes with Fahey graciously accepting congratulations from the opposing coach for yet another victory.

Now in her 10th season as head coach of the Washington University women's basketball team, the Nancy Fahey who sits in her memento-lined office is a startling contrast to the one who patrols the court. Looking collegiate herself with wire-rimmed glasses framing her youngish face, Fahey (pronounced "Fay") is soft-spoken and self-effacive as she admits to a split personality.

"When I'm on the court and when I'm coaching," she said, "I'm comfortable. I feel like I'm safe. I don't necessarily feel that way off the court. People see me at games, and I'm intense, I'm stern, I stomp my foot. You would think there'd be a carry-over, but when the game is done, I'm back to that quieter person.

"When I hang around other coaches, I think many of them are still 'leading.' I'm very content not to."

Fahey has piloted Washington University to unprecedented heights. Entering this season's homestretch, the Bears have posted a 17-5 record. Overall, Fahey has steered the Bears to 212 wins and just 51 losses in her WU career. Her .806 winning percentage ranks fifth-best among 300-plus NCAA Division III coaches. The Bears have made six consecutive trips to the NCAA tournament — and seven total — including two pilgrimages to the hoop Holy Grail: the Final Four.

And, with all the future Hall of Famers roaming the halls of the Athletic Complex, she remains the only coach in school history to both guide a team to the Final Four and never experience a losing season.

Falling in love with the game

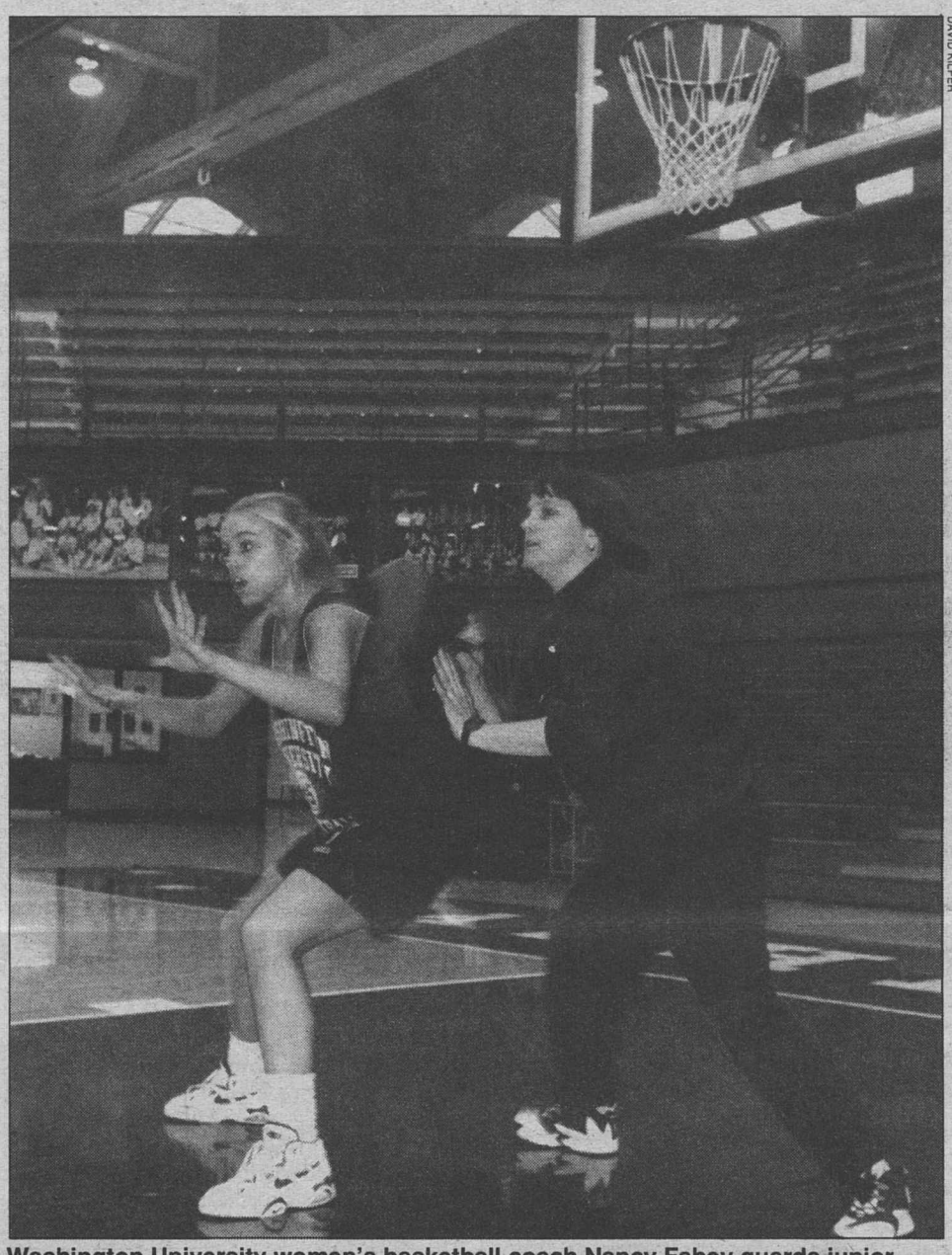
Fahey's own seasons in the sun began in her hometown of Belleville, Wis. — population 1,000. Raised on a small dairy farm, she and her two older brothers relied on an old hoop hanging on the barn for entertainment and escape. She began playing basketball because, well, there was a basketball with which to play. "Years later, a friend who grew up in the city was talking about kick-the-can," she recalled. "I didn't know what that was. That was not the upbringing you have on the farm."

In a scene that has Norman Rockwell written all over it, Fahey vividly recalls being a determined and defiant little sister trying to guard her older brothers on the makeshift basketball court. "In the summers, they'd be all sweaty, and their backs were all gross. They had their shirts off, and they would just keep backing in toward the basket — and I'd just keep sliding off their sweat trying to stop them," she said.

Her resolve continued into the winter months: "I'd play by myself while the milking was going on. You don't know how many games I won by myself — you know what I mean? Two seconds left. I'm on the line. Swish."

While most of the imaginary games climaxed with the same winning scenario, the actual endings tended to have a customary conclusion. "Eventually, the ball would land in something. Game over," she said.

The breakthrough opportunity to attend a summer basketball camp — "an $86 debt I can never fully repay my parents" — and the fortune of having her high school initiate a girls' hoop program just before her freshman year helped pave her path.



DAVID KILPER

Washington University women's basketball coach Nancy Fahey guards junior Sara Scheffler during a recent practice.

> "You don't motivate a team — you motivate individuals."

Life on the bench

That road led to the University of Wisconsin in Madison, where Fahey joined the Badgers as a walk-on (non-scholarship) player. For two full seasons, she sat. Way, way, way at the end of the bench. "There were three of us down there, and we called ourselves 'The Nonexistants,'" Fahey said. "I mean, we used to lay our empty uniforms on a bed and take pictures of them. My coach pronounced my name wrong for the first two years.

"As a player, it probably was difficult at the time. As a coach, it was probably the best experience for me. Even though my players may not think I've been there, believe me, I have.

"A big part of our philosophy here is opportunity. I realize that with a roster of 20 or 25, not everybody is necessarily going to be a varsity player. But they get the opportunity. And, just as important, I certainly hope, whether they play a lot or a little, that they are treated equally as people. If someone comes out of the program and doesn't feel an important part of it, then I've done them an injustice."

That message is being received loud and clear, said Jennifer Kennish, one of the Bears' senior tri-captains. "Coach Fahey doesn't go into a game thinking, 'This kid isn't going to play,'" said Kennish, a role player herself throughout her WU career. "It's something you learn pretty fast as a freshman.

"Earlier this season, we had a shoot-around before leaving for a game," continued Kennish. "It wasn't mandatory, but it's a good idea to be there. One of the freshmen didn't come in until right before we left for the game and said, 'Well, I didn't think I was going to play in the game, so I didn't think I should come.' Wrong answer. And, yes, she did play."

Fahey, too, played. She earned a starting role as a junior at Wisconsin and also netted a late-in-coming scholarship as a senior captain. The recipient of Wisconsin's physical education academic award, Fahey graduated with honors and moved toward a teaching and coaching career that she had once resisted as "too pigeonholed."

Wholly awful is how Fahey might describe her first year at Johnsburg High School in McHenry, Ill. "I came this close to quitting coaching," she said, letting the light barely shine through her thumb and index finger. "We were 5-17, and the losses were by an average of 27 points. We weren't even close. I remember the first game. My parents came down, sat right behind the bench, and we got beat by 58 points."

Developing her own style

Instead of packing it in, Fahey began developing a trio of trademark traits: an unquenchable quest for new knowledge, an uplifting motivational technique, and a devotion to defense.

"My first year, I was just 'the enemy.' I barked at them. I wasn't myself as a coach; I was just coaching what I had seen," Fahey said. "So you start educating yourself as much as possible. When I relaxed a little, I began to develop an ability to read people, to read emotions and to take the time to get to know people so that I could motivate them as individuals. You don't motivate a team — you motivate individuals."

After four years at Johnsburg, Fahey had four graduating seniors, two regional championships, a pair of 20-win seasons — and one rat inhabiting her basement. "You don't understand what a pit this house was. I used to throw a shoe down the stairs, hoping I'd scare that rat a little more than he scared me," she said.

Keenly aware of the concept of timing, Fahey got a map, drew a six-hour radius around McHenry and borrowed a copy of NCAA News. A handful of job opportunities appeared: Xavier University, a couple of assistant jobs (including Wisconsin) and the head post at Washington University.

"Our program was good at that time," said John Schael, director of athletics, "but, at the same time, it was stagnant. We were as good as we were ever going to be. But Nancy's leadership has elevated the program to where it receives national recognition.

"She, too, has grown with it. She's a student of the game, so she never stops learning. And she applies that knowledge very well. Nancy's always had enthusiasm, and now she's very polished. She has the ability to interact with everyone within this community — from the small camper to the distinguished faculty member. That leaves a lasting impression on everybody."

Fahey also is making an imprint on the game she fell in love with as a girl on a dairy farm. Selected as the NCAA Division III representative to the Women's Basketball Coaches Association (WBCA) board of directors, Fahey is active in shaping the promotion and grass-roots development of the game. Her coaching prowess was further endorsed last summer with a nod to serve as an assistant at the 1995 U.S. Olympic Festival. Her enthusiasm has helped inspire superb young coaches like Karen Hermann, a former athletic and academic All-American as a player here. Hermann, now a math teacher at Webster Groves High School and the coach of one of the area's top teams, unabashedly calls Fahey "a mentor."

Modestly describing herself as "a small part of a big thing," Fahey said her zeal for the game remains the same after 25 years for one reason: It's fun. "The van rides, the stories, the interaction. I hate July because, at 5 o'clock, there are no kids here. When they're gone, this is a desk job," Fahey said.

"The success we've had, I hope we do it in a way that — when you get there — people are happy for us," she added. "There are two ways to the top, and you can get there both ways. That's why the process is more important to me than the result."

— David Moessner

Calendar

Feb. 15–24

Exhibitions

"Versions of the Self: The Poetry of John N. Morris." Books and manuscripts tracing the career of Morris, a retired English professor. Through March 1. Special Collections, Olin Library, Level Five. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5495.

"MetroLines: Transit Poetry From Around the World." Through February. International Writers Center, West Campus Conference Center. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5576.

"Lifting the Veil: Robert S. Duncanson and the Emergence of the African-American Artist." Through March. Gallery of Art, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

"High School Art Competition." Through Feb. 25. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. *(See story, page 6.)* 935-6597.

Films

All Filmboard movies cost $3 and are shown in Room 100 Brown Hall. For 24-hour hotline, call 935-5983.

Thursday, Feb. 15

7:30 p.m. French Film Series. "Delicatessen" (1991), with English subtitles. Room 162 McDonnell Hall. 726-1565.

Friday, Feb. 16

7 and 9:30 p.m. and midnight. Filmboard. "Monty Python & The Holy Grail" (1975), starring Terry Gilliam and Terry Jones. (Also Feb. 17, same times, and Feb. 18 at 7 and 9 p.m.)

Monday, Feb. 19

3 p.m. Russian film. "Lonely Woman Seeks Lifetime Companion," with English subtitles. Room 219 South Ridgley Hall. 935-5177.

8 p.m. Filmboard. "Anchors Aweigh" (1945), starring Frank Sinatra and Gene Kelly. (Also Feb. 20, same time.)

Tuesday, Feb. 20

7 p.m. Japanese Film Series. "Black Rain," with English subtitles. Room 219 South Ridgley Hall. 935-5110.

Thursday, Feb. 22

7:30 p.m. French Film Series. "Le Jour Se Leve" (1939), with English subtitles. Room 162 McDonnell Hall. 726-1565.

Friday, Feb. 23

7 and 9:30 p.m. Filmboard. "Goodfellas" (1990), directed by Martin Scorsese. (Also Feb. 24, same times.)

Midnight. Filmboard. "Goldfinger" (1964), directed by Guy Hamilton. (Also Feb. 24, same time.)

Lectures

Thursday, Feb. 15

Noon. Genetics seminar. "Studying Early Hematopoietic and Vascular Development Using the Zebrafish," Brant M. Weinstein, Cardiovascular Research Center, Harvard U. Eric P. Newman Education Center Aud.

1 p.m. Vision science seminar. "The Role of the Lens in Organizing the Anterior Segment During Ocular Development," David C. Beebe, Jules and Doris Stein Research to Prevent Blindness Professor of Ophthalmology and Visual Sciences. East Pavilion Aud., Barnes Hospital. 362-3726.

1:10 p.m. Social work lecture. "Black Wealth/White Wealth: Assets and Race in America," sociology alumni Thomas Shapiro and Melvin Oliver. Brown Hall Lounge. 935-7433.

3 p.m. East Asian studies lecture. "Current Social and Political Issues in South Korea," Kyung Dong Kim, prof. of sociology, Seoul U., Korea. Room 30 January Hall. 935-4448.

4 p.m. Biology and biomedical sciences seminar. "Regulation of Mitosis and Meiosis in Germ Cells," Peter J. Donovan, head, Dept. of Cell Biology, National Cancer Institute, National Institutes of Health, Bethesda, Md. Cori Aud., 4565 McKinley Ave. 362-3364.

4 p.m. Chemistry seminar. "De Novo Protein Design: A New Approach to Materials Chemistry," David A. Tirrell, prof. of chemistry, U. of Massachusetts, Amherst. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Carbon Isotopic Evidence for the Evolution of Earth's Early Biosphere," David J. Des Marais, research scientist, Ames Research Center, Moffett Field, Calif. Room 362 McDonnell Hall. 935-5610.

4 p.m. Molecular oncology seminar. "Involvement of a Nucleoporin in Myeloid Leukemia With + (6;9)," Gerard Grosveld, chair, Dept. of Genetics, St. Jude's Children's Research Hospital, Memphis, Tenn. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

Friday, Feb. 16

9:15 a.m. Pediatric Grand Rounds. "Clinical and Molecular Investigations of a Pancreatic Cancer-prone Family," Paul J. Goodfellow, assoc. prof. of surgery, and Alison Whelan, asst. prof. of pediatrics. Clopton Aud., 4950 Children's Place.

11 a.m. Neuroscience seminar. "Is the Primary Motor Cortex Really Primary?" Peter Strick, prof., depts. of Neurosurgery and of Physiology, VA Medical Center, Syracuse, N.Y. Room 928 McDonnell Medical Sciences Bldg. 362-3365.

Noon. Cell biology and physiology seminar. "The Retinoblastoma Protein and G1 Phase Cell Cycle Control," Steven F. Dowdy, asst. prof. of pathology. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Environmental engineering seminar. "Motor Vehicle Emissions and Potential Revisions to the Particulate Matter National Ambient Air Quality Standards," Jay R. Turner, asst. prof. of engineering and policy. Room 216 Urbauer Hall. 935-8590.

2 p.m. Neuroscience thesis defense. "Molecules That Influence Neuromuscular Interactions In Vitro: Molecular Studies of Their Regulation and Roles In Vivo," Lisa Moscoso, graduate student, Medical Scientist Training Program. Room 928 McDonnell Medical Sciences Bldg. 362-2513.

4 p.m. Anatomy and neurobiology seminar. "Quantitative Trait Loci for Murine Growth and Morphology," Jim Cheverud, prof. of anatomy and neurobiology and of genetics. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. Hematology lecture. "Mechanism of Action of the Retinoblastoma Tumor Suppressor," Douglas Dean, assoc. prof. of cell biology and physiology and of medicine. Room 8841 Clinical Sciences Research Bldg. 362-8989.

4 p.m. Music lecture. "No Pagodas in Our Temples: The French Operatic Canon circa 1764," Antonia Banducci, WU alumna and asst. prof. of music history, U. of Denver. Room B-8 Blewett Hall. 935-5581.

Saturday, Feb. 17

9 a.m. Neuroscience seminar. "Disorders of Basal Ganglia and Their Treatment; Frontal Lobe Targets of Basal Ganglia Output and Its Targets," Peter Strick, prof., depts. of Neurosurgery and of Physiology, VA Medical Center, Syracuse, N.Y. Cori Aud., 4565 McKinley Ave. 362-3365.

11 a.m. University College Saturday Seminar. "Public/Private Spaces in American Law," Stuart Banner, assoc. prof. of law. Room 362 McDonnell Hall. 935-6788.

Monday, Feb. 19

3:45 p.m. Physics lecture. "Exchange Coupling in Magnetic Oxide Heterostructures," Yuri Suzuki, postdoctoral member of the technical staff, AT&T Bell Laboratories, Murray Hill, N.J. Room 241 Compton Hall. 935-6276.

4 p.m. Biology seminar. "Phenotypic Design, Plasticity and Ecological Performance in Tadpoles," Josh van Buskirk, research associate in ecology and search candidate in biology, and asst. prof., Dept. of Biological Sciences, Texas Tech U., Lubbock. Room 322 Rebstock Hall. 935-6850.

4 p.m. Immunology seminar. "The Erythropoietin Receptor: Structure and Function," Greg Longmore, asst. prof. of cell biology and physiology. Third Floor Aud., St. Louis Children's Hospital. 362-8748.

8 p.m. Architecture lecture. "Back Stage as Front Stage: Workplace as Showplace," Franklin Becker, prof., N.Y. State College of Human Ecology at Cornell U., and director, International Workplace Studies Program. Steinberg Hall Aud. 935-4636.

Tuesday, Feb. 20

9 a.m. Psychiatry seminar. Frank Shobe Lecture. "Physicians' Conflicts of Interest: Past and Future," Marc A. Rodwin, assoc. prof. of law and public policy, Indiana U. School of Public and Environmental Affairs. Clopton Aud., 4950 Children's Place. 362-7772.

10 a.m. Biology seminar. "Designing a Research Program in Evolutionary Ecology," Josh van Buskirk, research associate in ecology and search candidate in biology, and asst. prof., Dept. of Biological Sciences, Texas Tech U., Lubbock. Room 202 Life Sciences Bldg. 935-6850.

Noon. Molecular microbiology/microbial pathogenesis seminar. "Facing the Challenge of Antibiotic Resistance: Finding New Drugs for Vancomycin-resistant *Enterococci,*" Thalia Nicas, senior research scientist, Eli Lilly Co. Cori Aud., 4565 McKinley Ave. 362-7059.

12:10 p.m. Physical Therapy Brown Bag Research Seminar. "Obesity and Lifetime Physical Exertion Are Risk Factors for Hip Osteoarthritis," Bradley Evanoff, asst. prof. of medicine and section director, Occupational and Environmental Medicine. Classroom C Forest Park Bldg., 4444 Forest Park Blvd. 286-1400.

1:45 p.m. Physics colloquium. "PrBa2Cu307 — The Exception to the Rule," Yuri Suzuki, postdoctoral member of the technical staff, AT&T Bell Laboratories, Murray Hill, N.J. Room 204 Crow Hall. 935-6276.

4 p.m. Anthropology colloquium. "Medical Anthropologist as Behavioral Scientist — Constraints of the Biomedical Paradigm," Bradley Stoner, asst. prof., depts. of Anthropology and of Medicine. Room 149 McMillan Hall. 935-5252.

4 p.m. Chemistry seminar. "Fourier Transform Ion Cyclotron Resonance: Mass Spectrometry From Attomoles to Megadaltons," Alan Marshall, prof. of chemistry, Florida State U., Tallahassee. Room 311 McMillen Lab. 935-6530.

4 p.m. Diabetes research seminar. "Neuronal Apoptosis and the BCL-2 Gene Family," Kevin Roth, assoc. prof. of molecular biology and pharmacology and of pathology. Pathology Library, Room 3723 West Bldg.

Wednesday, Feb. 21

6:30 a.m. Anesthesiology Grand Rounds. "How Do You Make an Operating Room Run Better?" William J. Mazzei, vice chair, Dept. of Clinical Affairs, and medical director, Perioperative Services, U. of California, San Diego. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

8 a.m. Obstetrics and Gynecology Grand Rounds. "Vitamin A and Folic Acid: What Every Ob/Gyn Must Know," Michael Nelson, prof. and director, Maternal Fetal Medicine. Clopton Aud., 4950 Children's Place. 454-7886.

11 a.m. Assembly Series lecture. "America on the Eve of the 21st Century," Jack Kemp, former secretary of the U.S. Dept. of Housing and Urban Development. A live telecast will take place in Room 215 Rebstock Hall to accommodate seating limitations. Graham Chapel. *(See story, page 1.)* 935-5285.

Noon. Earth and planetary sciences brown bag luncheon. "Subducting Slab Boundary in Japan," Dapeng Zhao, senior research scientist in earth and planetary sciences. Room 102 Wilson Hall. 935-5958.

Thursday, Feb. 22

1 p.m. Vision science seminar. "The Modulation of Excitatory Synaptic Inputs to Retinal Ganglion Cells," Peter Lukasiewicz, asst. prof. of ophthalmology and visual sciences and of anatomy and neurobiology. East Pavilion Aud., Barnes Hospital. 362-3726.

4 p.m. Biology and biomedical sciences seminar. "How Cells Leave Mitosis," Andrew Murray, assoc. prof. of physiology, U. of California, San Francisco. Cori Aud., 4565 McKinley Ave. 362-3364.

4 p.m. Chemistry seminar. "Fundamental Aspects of Bulk Magnetic Susceptibility in NMR: From Spectroscopic Nuisance to Brain Function," Charles Springer, prof. of chemistry, Brookhaven National Laboratory and State U. of New York, Stony Brook. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Volatile Evolution in Mid-ocean Ridge Hydrothermal Systems," Deborah S. Kelley, asst. prof., School of Oceanography, U. of Washington, Seattle. Room 362 McDonnell Hall. 935-5610.

4:15 p.m. Philosophy colloquium. "Hume and Naturalized Epistemology," Ted Morris, prof. of philosophy, U. of Cincinnati. Hurst Lounge, Room 201 Duncker Hall. 935-5119.

4:30 p.m. Math colloquium. "On Leibniz Homology," Gerald Lodder, prof. of mathematics, New Mexico State U., Las Cruces. Room 199 Cupples I Hall. 935-6726.

Friday, Feb. 23

9:15 a.m. Pediatric Grand Rounds. "The Athletic Triad: Eating Disorders, Osteoporosis and Amenorrhea," Jean Emans, Ray Kroc Visiting Professor of Pediatrics, assoc. prof. of pediatrics at Harvard Medical School, and co-chief, Division of Adolescent Medicine, Boston Children's Hospital. Eric P. Newman Education Center Aud. 454-6006.

Noon. Cell biology and physiology seminar. "Heat Shock Proteins and Prions: New Twists on Old Problems," Susan Lindquist, assoc. prof., Dept. of Molecular Genetics and Cell Biology, Howard Hughes Medical Institute, U. of Chicago. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

1 p.m. German lecture and brown bag luncheon. "Post-unification German Literature," Brigitte Rossbacher, asst. prof. of Germanic languages and literatures. Stix International House Dining Room. 935-5106.

Saturday, Feb. 24

11 a.m. University College Saturday Seminar. "Great Public Spaces, Past and Present," Cynthia Weese, prof. and dean, School of Architecture. Room 362 McDonnell Hall. 935-6788.

Music

Saturday, Feb. 17

8 p.m. Voice recital. Featuring soprano Melinda Block, a senior art major. Block also will present a display of her artwork. Program: "Five Short Songs on Women's Names" by Arthur Honegger, "The Cloisters" by John Corigliano, "Méamorphoses" by Francis Poulenc, and "Despite and Still" cycle by Samuel Barber. Steinberg Hall Aud. 935-5574.

Sunday, Feb. 18

2:30 p.m. Wind ensemble concert. Program: "Music Inspired by Dance," directed by Dan Presgrave, lecturer in music, includes "Suite of Old American Dances" by Robert Russell Bennett; "Dance Rhythms" by Wallingford Riegger; "Ragtimes and Habañeras" by Hans Werner Henze; "Symphonic Dances From 'West Side Story'" by Leonard Bernstein; and "Ellington — A Tribute to the Duke" arranged by Larry Kirchner. Saint Louis Art Museum Aud. 935-5581.

Performances

Friday, Feb. 16

8 p.m. Edison Theatre's "OVATIONS!" series presents the Black Light Theatre of Prague's version of "Peter Pan." (Also Feb. 17, same time.) Cost: $20 for the general public; $16 for senior citizens and WU faculty and staff; and $11 for WU students. Edison Theatre. 935-6543.

8 p.m. Performing Arts Dept. presents "The Double Inconstancy," a Pierre Carlet de Marivaux romantic comedy. (Also Feb. 17, 23 and 24, same time and Feb. 18 at 7 p.m.) Cost: $8 for the general public and $6 for senior citizens, all students and WU faculty and staff. Drama Studio, Room 208 Mallinckrodt Center. 935-6543.

Friday, Feb. 23

7:30 p.m. Jammin' Toast. An a capella concert featuring the WU Pikers with WU groups the Greenleafs and the Mosaic Whispers. (Also Feb. 24, same time.) The Greenleafs will be featured Feb. 23 and Mosaic Whispers Feb. 24. Cost: $6 for the general public and $4 for WU students, faculty and staff. Edison Theatre. 935-1414.

8 p.m. Performing Arts Dept. presents "An Evening of Extraordinary Yet Extremely Tangible Dance (and Some Darn Good Music)," featuring performing arts undergraduate students. (Also Feb. 24, same time.) Olin I Dance Studio, Women's Bldg. 725-9156.

Miscellany

Thursday, Feb. 15

Deadline for abstracts for graduate student research symposium. Poster presentations will be displayed in McDonnell Hall on March 23. To participate, submit a brief abstract to the Graduate Student Senate, Campus Box 1187, or contact your Graduate Student Senate representative. 725-1273.

4 p.m. Jewish Awareness Month event. A Jewish meditation mini-course with Rabbi James Stone Goodman of Neve Shalom Congregation. Cost: $5. Women's Bldg. Lounge. 726-6177.

Friday, Feb. 16

5:45 p.m. Hillel Center partnership dinner. Featured guests are Hillel's directors and their families who wish to meet with and hear from members and prospective members to help Hillel grow and improve. Cost: $7 for members and $8.50 for non-members. Hillel Center, 6300 Forsyth Blvd. To make reservations by Feb. 15, call 726-6177.

Saturday, Feb. 17

8:30 a.m.-3 p.m. German symposium. Potluck lunch provided by graduate students in the Dept. of Germanic Languages and Literatures. First floor, Stix International House. 935-5958.

10-11:30 a.m. Art workshop. "Unusual Children's Books," Charlotte Johnson, book artist and librarian at Southern Illinois U.-Edwardsville. Cost: $15. Room 104 Bixby Hall. To register, call 935-4643.

6 p.m. Black Alumni Council scholarship celebration. "Excellence: The Key to Success." Dinner and program begin at 7 p.m. Joyce A. Ladner, WU alumna and prof. of social work at Howard U., Washington, D.C., is the guest speaker. Proceeds benefit the Washington-Du Bois Scholarship for African-American Students at WU. St. Louis Marriott Hotel, I-70 at Lambert International Airport. Cost: $40. 935-5645.

6 p.m. Woman's Club event. "University Night Dinner Dance," featuring folk dancing and masquerading with the International Folk Dance Association of University City. Guests are encouraged to wear costumes and/or masks. Open to WU community only. Cost: $17.50. Holmes Lounge, Ridgley Hall. To make reservations, call 725-0372 or 862-4569.

8 p.m. Hillel Center party. "February Fiesta," a party for Jewish graduate students and young professionals in their 20s. Hillel Center, 6300 Forsyth Blvd. 726-6177.

Tuesday, Feb. 20

9 p.m. Jewish Awareness Month event. Join together to sing Hebrew songs. If you have a guitar, bring it along. Friedman Lounge, Wohl Student Center. 726-6177.

Saturday, Feb. 24

10-11:30 a.m. Published authors panel discussion. Featured authors include David Carkeet, Donald Finkel and Ellen Dolan. Bixby Gallery, Bixby Hall. Cost: $20 for the general public; free for WU faculty, staff and students. To register, call 935-4643.

2 p.m. Storytelling performance. Children's storyteller Robert Tabscott will present tales of African-American life in St. Louis. Held in conjunction with the Gallery of Art's Robert S. Duncanson exhibit. *(See Exhibitions, page 4.)* Gallery of Art, upper gallery, Steinberg Hall. 935-5490.

Continuing Medical Education conference reservation deadline. "Internal Medicine Review," to be held Mondays March 4 through May 22 at The Jewish Hospital of St. Louis' Steinberg Amphitheater. 362-6891.

Renowned Shakespearean actress Jane Lapotaire makes a point to a student during a special drama course she taught in the Performing Arts Department in Arts and Sciences. The course, which started at the beginning of this spring semester and ran through Tuesday, Feb. 13, was designed in part to help Washington University students prepare for their production of "Romeo and Juliet," scheduled for April 12-14 and 19-21 in Edison Theatre. An accomplished actress of the stage, screen and television, the Tony Award-winning Lapotaire will appear in the film "Surviving Picasso," which is due out next fall. She plays the first wife of Picasso, who is played by Anthony Hopkins.

Rinde Eckert brings 'Idiot Variations' to Edison

Performance artist extraordinaire Rinde Eckert will explore the blurry line between what distinguishes idiocy from genius when he brings "The Idiot Variations" to Edison Theatre's "Stage Left" series at 8 p.m. March 1 and 2 and at 7 p.m. March 3.

All of Eckert's unique and prodigious talents are on display in this one-man show that makes its St. Louis premiere at Washington University. Performing without amplification and with only the most rudimentary props, Eckert sings, dances, gives narratives and plays various instruments in the show.

Moving deftly between an array of characters who live their lives on the edge — whether through genius or lunacy — Eckert explores the qualities unique to them all, including feelings of isolation, preoccupation, intensity and loneliness.

One moment, he is a madman pounding furiously on a drum; the next, a sad clown gently blowing a sweet tune into his tuba; the next, a paranoid loner cowering by a wall and wailing through a Japanese flute. Deeply moving and surprisingly funny, Eckert offers a thought-provoking evening of music and drama.

A classically trained singer, Eckert is known for his technical brilliance and innovative and flexible singing voice. He applies his remarkable creative talents equally to his pursuits as a dancer, actor, writer and director. Dividing his time between New York and San Francisco, Eckert rose to international acclaim for his work in multimedia theater, particularly with the Paul Dresher Ensemble and the Margaret Jenkins Dance Company. He has toured extensively throughout the world.

Edison Theatre's "Stage Left" series presents works aimed at the more adventurous culture-seeker. "The Idiot Variations" will be held on the Edison Theatre stage.

Tickets are $12 for the general public and $10 for senior citizens and University faculty, staff and students. Tickets are available at the Edison Theatre box office (935-6543) or through Metrotix (534-1111).

Volunteers needed to go 'Into the Streets'

Faculty, staff and students are invited to participate in the "Into the Streets" program Feb. 24 in which volunteers perform community service for a day. This year, for the first time, faculty and staff are encouraged to take part in the program — in addition to students.

Sign-up tables will be open from 11 a.m. to 1 p.m. in Mallinckrodt Center and from 5 to 7 p.m. in Wohl Student Center through Friday, Feb. 16.

The Feb. 24 volunteering day begins between 8 and 10 a.m. Individuals will return to campus between 2 and 4 p.m. Between 120 and 140 volunteers are needed to work at such sites as a shelter for battered women and their children; an animal protective agency; and a low-income housing project.

For more information, call 935-5994.

Sports

Compiled by Mike Wolf, director, and David Moessner, assoc. director, sports information.

Bears gun for second UAA crown in a row

Finishing its grueling road schedule (15 away games) with a pair of University Athletic Association (UAA) victories, the Washington University men's basketball team is poised to repeat as conference champion. The equation is simple for the 24th-ranked Bears — win their final three games at home, and they will capture their fourth UAA title and make their sixth NCAA postseason tournament appearance since 1987. The Bears stayed a full game in front of second-place teams New York University and the University of Chicago with road wins at Emory University (Atlanta) and Carnegie Mellon University (Pittsburgh). Senior Brent Dalrymple had 29 points, eight rebounds and four steals in the Bears' 74-67 win at Emory. The Bears concluded their road season with a 78-67 victory over Carnegie Mellon as senior Kevin Folkl scored a season-high 25 points.

Current record: 17-5 (10-1 UAA)

This week: 6 p.m. Friday, Feb. 16, vs. New York University, Field House; 3 p.m. Sunday, Feb. 18, vs. Brandeis University (Waltham, Mass.), Field House

Women cagers win two but suffer costly loss

While the WU women's basketball team won two of three contests last week, the one loss dealt a strong blow to the Bears' UAA title aspirations. The Bears dropped a 67-47 decision at Emory University, giving the Bears their second league loss. New York University, which comes into town this weekend, remains unbeaten in UAA play with just three games remaining. The Bears did advance their NCAA tournament prospects, though, with a 76-49 win over MacMurray College (Jacksonville, Ill.) and a 59-50 victory at Carnegie Mellon. WU entered the week with a season-high No. 4 perch in the NCAA Central Region rankings. Senior forward Dana Bryant highlighted the Bears' effort last week, netting a season-best 22 points on 10-of-13 shooting at Carnegie Mellon. Bryant also reached double-digits with 10 points against MacMurray.

Current record: 17-5 (9-2 UAA)

This week: 8 p.m. Friday, Feb. 16, vs. New York University, Field House; 1 p.m. Sunday, Feb. 18, vs. Brandeis University, Field House

Swim teams gear up for UAA Championships

In their final tune-up before hosting the UAA Championships on Feb. 21-24, the men and women's swimming and diving teams sunk Principia College (Elsah, Ill.). The women, led by two wins each from sophomore Liz Burow and senior Christine O'Brien, posted a 133-104 win. The men, paced by double-win outings from senior Rob Powers and junior Mike Donnerstein, emerged with a 116-57 victory. Together, the two WU teams won 18 of the 26 events. The Bears will be idle this week as they continue tapering for the nine-team UAA Championships — the season's centerpiece event.

Current record: men 8-2, women 4-3

This week: Idle

Indoor track squads produce solid effort

The Bears produced a trio of individual first-place showings, one school-record outing and one NCAA-qualifying performance at the Illinois Wesleyan University Indoor Track Invitational in Bloomington, Ill. Freshman Monica Lewis provided the day's highlight by winning the 400-meter dash in a 59.59-second clocking. That time bettered her own WU record of 1:00.61 and dipped below the provisional standard of 1:00.24 deemed necessary to qualify for the NCAA Division III championships. Lewis was joined on the victory stand by junior Jerylin Jordan, who won the 1,500 meters in 4:57.1, and freshman Claudine Rigaud, who took the 55-meter dash in 7.51 seconds. The men were led by sophomore Jeremy Dubow, who set personal-bests while placing second in the 1,500 (4:03.54) and third in the 3,000 (8:49.7).

This week: 11 a.m. Saturday, Feb. 17, at University of Chicago Invitational

JOE ANGELES

Louis G. Hutt Jr., left, a Maryland resident and a Washington University trustee, and Chancellor Mark S. Wrighton, Ph.D., center, talk with high school student William Rice during a reception Feb. 4 in Howard County, Md., which is in the Baltimore-Washington, D.C., area. The reception was hosted by Hutt and his wife, Nellie, both alumni of the University, and the University's Black Alumni Council as a way to introduce Wrighton and the University to African-American high school students, teachers, counselors, community leaders and alumni. Although about 120 people initially were expected to attend the reception, the actual turnout was more than 450. Other University representatives attending the reception included James E. McLeod, vice chancellor for students and dean of the College of Arts and Sciences; junior Jarvis DeBerry, president of the University's Association of Black Students; and Alex Carroll, national president of the Black Alumni Council.

Xerox brings service, machine upgrades to copy centers

To better serve the Washington University community, the three Hilltop Campus copy centers, previously operated by the University, now are under the management of Xerox Business Services.

In the past, the University purchased and maintained its own copiers in the copy centers located in South Brookings and Simon halls and in Mallinckrodt Center. In addition, those three centers were staffed by five University employees.

That is no longer the case under the new agreement with Xerox. Instead, Xerox owns and maintains all the equipment in the copy centers, and the copy center staff members are employed by Xerox.

Glen F. Horton, assistant director of general services at the University, said he believes the conversion will better serve the campus community. He cites the installation of new, state-of-the-art Xerox machines as one area of improvement. Some of the copiers owned by the University dated to the mid-1980s. Xerox has replaced those machines with up-to-date models.

In addition, the South Brookings Hall copy center has been equipped with a Xerox DocuTech publishing system. The DocuTech system takes the image to be copied and scans it into its computer memory. The image — whether text or photos — then can be manipulated to produce the cleanest, most desirable copy. For example, when a page out of a book is copied on a traditional copier, the copy usually shows the text surrounded by black ink at the edges of the page. With the DocuTech system, the black areas can be eliminated, leaving a clean text block positioned in the center of a page.

Storing the text and images in memory will make it easier to reproduce jobs in the future. For example, suppose a professor places an order to have chapters 3, 5 and 12 of a textbook copied and bound for students. Then, two semesters later, the professor needs the same three chapters copied for a new set of students. Because those chapters already are in the DocuTech's memory, the original job can be reprocessed, eliminating the need for the professor to recopy the chapters.

Eventually, by installing Xerox software on personal computers with access to the network, customers will be able to send electronic documents from their offices to the DocuTech system for copying.

In addition to the DocuTech system, Xerox will install a color copier in the South Brookings copy center this month.

Xerox also is providing delivery service for the Hilltop, West and Medical campuses. A Xerox representative will pick up orders from campus offices, take them to the copy centers, and then return the completed jobs to the customers.

Xerox also will provide electronic billing and invoicing for jobs requested by University departments. This will help streamline the billing process and eliminate the paper trail that goes along with the traditional billing system.

Although Xerox now operates the copy centers, the University's policy on copyright protection will be posted at the three centers and will be followed by the copy center employees.

The three copy centers are open from 8 a.m. to 5 p.m. weekdays. Xerox is exploring the possibility of extending the hours at either the South Brookings or Mallinckrodt copy centers. In addition, Xerox and the University are exploring the possibility of opening a center in the South 40 to better serve students.

For more information, call the South Brookings copy center at 935-5790; the Simon Hall copy center at 935-5776; or the Mallinckrodt copy center at 935-4509.

— Michael Slatin

Campus Watch

The following incidents were reported to the University Police Department Feb. 5-11. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

Feb. 5

12:54 p.m. — A student reported that a jacket, valued at $350, was stolen from Olin Library.

4:23 p.m. — A staff member reported that an electronic card reader at Millbrook Square apartments was stolen.

Feb. 6

11:24 a.m. — An employee reported that three paychecks were stolen from a desk in Blewett Hall.

12:47 p.m. — A staff member reported that someone threw about five dozen eggs against Wydown Residence Hall on Feb. 1. The eggs subsequently froze, resulting in $980 in removal costs.

Feb. 7

12:32 p.m. — A staff member reported that a videocassette recorder, valued at $190, was stolen from the Life Sciences Building.

Feb. 8

12:02 p.m. — University Police escorted two individuals from the Athletic Complex after it was determined they were using someone else's identification.

Feb. 9

10:01 a.m. — A staff member reported that computer equipment, valued at $2,500, was stolen from Lopata Hall.

Feb. 10

2:50 a.m. — University Police recovered two Prince Hall signs and a fire extinguisher near the Millbrook Boulevard pedestrian overpass.

5:01 p.m. — University Police responded to a minor non-injury traffic accident in a parking lot near the fraternity houses.

Feb. 11

2:56 a.m. — The owner of a vehicle reported that the rear window was broken and 10 cassette tapes, valued at $100, were stolen from the vehicle while it was parked near the fraternity houses.

3:52 a.m. — A student reported that someone broke the rear window of a vehicle and placed a couch on top of the vehicle while it was parked near the fraternity houses.

12:14 p.m. — A student reported that the passenger-side mirror of a vehicle was broken off the vehicle while it was parked near the fraternity houses.

University Police also responded to two reports of vandalism and theft at the new School of Law building construction site; one report of a recovered bicycle that was reported stolen; and two reports of vandalism at Millbrook Square apartments.

Bear's Den fire puts planned renovations ahead of schedule

The Bear's Den eatery in Wohl Student Center will be closed for eight to 12 weeks so damage from a recent fire may be repaired. In an effort to adjust to the closing, food service in the Bear Mart and second-floor Center Court cafeteria has been expanded.

The Feb. 4 fire in the Bear's Den damaged a hood and vent system that was scheduled to be replaced this summer. A new broiler was to be installed this summer — necessitating the new hood and vent system. Consequently, the renovations scheduled for this summer will be done now.

"It's not a complicated renovation, but all the equipment has to be custom-made to our specifications," said George Burris, director of Housing and Food Service Operations. "The ordering and making of the parts takes a long time."

Burris met with students on the joint Student Union/Congress of the South Forty food committee to develop alternative food options. The Center Court cafeteria has extended its hours and is open until 1 a.m. or midnight, depending on the night of the week. This schedule is the same as that of the Bear's Den. In addition, the Bear Mart opens at 9 a.m. instead of 10 and is stocked with "grab-and-go" food items such as muffins and bagels, said Burris. The Bear Mart also will stock pre-made sandwiches and salads for a quick lunch option.

"We made these changes based on student requests and suggestions about what would suit their needs," said Burris. "There will be constant feedback and adjustments, but we are trying to offer as close to as many options as students had before the fire."

The fire, which began in a deep-fryer that had a faulty thermostat, was extinguished by the Clayton Fire Department. According to Student Life, a student pulled an alarm when he saw that Marriott Management Service employees were having trouble putting out the fire. There were no injuries.

Exhibit showcases works of high school students

The public is invited to view works created by some of the area's most talented young artists in a special exhibition that runs through Feb. 25 in Bixby Gallery in Bixby Hall.

The exhibit features the works of high school students selected in the 18th annual High School Art Competition, which is sponsored by the School of Art. Students from more than 40 area high schools entered this year's competition, which is open to all high school juniors and seniors within a 100-mile radius of the University. The entries represent original works in all media.

Students submitted slides of their works in either the individual or the portfolio categories. Jurors selected about 250 pieces from about 3,000 entries in the individual category and 13 winners from 100 entries in the portfolio category. The students could submit as many as 12 slides in the portfolio category.

"The High School Art Competition is one of the most important events of the year for these young artists," said Libby Reuter, assistant dean of the art school and director of the Bixby Gallery. "At a time when so many negative things are said about young people, it's important to recognize their positive, creative energy."

The Bixby Gallery hours are 10 a.m. to 4 p.m. weekdays and 1 to 5 p.m. weekends.

For more information, call 935-6597.

Prosecutors seek death penalty in carjacking

U.S. Attorney General Janet Reno gave federal prosecutors in St. Louis the authority to seek the death penalty against Andre Bonds, 20, of Richmond Heights, who is accused of carjacking and kidnapping in the abduction last spring of two Washington University students, Melissa Gail Aptman, 22, of Miami, and a 20-year-old friend.

The 1994 crime bill allows federal prosecutors to ask the Justice Department for approval to seek the death penalty in carjackings in which a victim is killed. Bonds is scheduled to go on trial May 6 in U.S. District Court. Bonds also has been charged in state court with murder and rape.

Drama students progress to semifinals

During the prestigious Irene Ryan Scholarship Competition, five performing arts students in Arts and Sciences placed in the semifinals for the Midwest region. One of the students advanced to the finals. Nine Washington University students took part in the regional acting competition, which was held Jan. 24-28 at the Hyatt Regency St. Louis in Union Station.

More than 200 college students from eight states participated in the event. The competition was part of the Kennedy Center American College Theater Festival, which is held in eight regions across the country.

This was Washington University's best showing yet, said Melanie Dreyer, an artist-in-residence in performing arts who helped prepare the students. Prior to the January competition, only two Washington University students had reached the semifinals in the Midwest region, she said.

"There were a lot of talented students this year," Dreyer noted. "They were very particular about the material they chose. We worked hard on preparing for this competition ... mastering what it takes to compete."

The five University students who made it to the semifinals were seniors Holly M. Amatangelo, Alexis S. Chamow, Jeff Pagliano and Ryan Patterson, along with junior John R. Kastl. Chamow later advanced to the regional's final round of 16 contestants.

The students advanced through a series of rounds by presenting monologues during set five-minute periods. They presented two different characters — humorous and serious. "In five minutes, the students need to demonstrate their best acting skills," Dreyer said.

Two students from each region are invited to compete in the nationals on April 21 at the Kennedy Center in Washington, D.C. Now in its 28th year, the festival is a forum for student actors, designers, playwrights and directors to meet and compete with their talented peers.

While Washington University will not be represented at the national level this year, Dreyer praised the students for their level of success, noting that the regional competition attracts some of the best student talent in the country. "It's a real compliment to the students and their professionalism," said Dreyer. She also noted the competition's other benefits. It offers the would-be actors a preview of what life may be like in the competitive world of acting after graduation. *— Neal Learner*

Obituaries

Franklin B. Shull, professor emeritus of physics

Franklin B. Shull, Ph.D., professor emeritus of physics in Arts and Sciences, died at his Ladue home on Saturday, Feb. 3, 1996. Shull, 77, died after a six-month battle against amyotrophic lateral sclerosis, also known as Lou Gehrig's disease.

A native of Ann Arbor, Mich., Shull received bachelor's (1939), master's (1940) and doctoral (1948) degrees from the University of Michigan. During World War II, he served as an associate physicist at the U.S. Naval Ordnance Laboratory in Washington, D.C., from 1941-46.

He joined Washington University's Department of Physics in 1948 as an assistant professor and was promoted to associate professor in 1953 and to full professor in 1963. His area of research was low-energy nuclear physics, with an emphasis on nuclear reaction studies using the University's Cyclotron. A fellow of the American Physical Society, Shull was director of the Cyclotron Laboratory for many years during the 1960s.

He also was chair of the University's Premedical Advisory Committee and served for a term as acting chair of the physics department. In addition to his many administrative positions within the department, he also coordinated and ran the introductory physics lectures and laboratories and handled graduate admission and advising.

"Scores of undergraduates have fond memories of him as a lecturer, and generations of graduate teaching assistants remember him as a gentle but firm mentor," said Clifford Will, Ph.D., professor and chair of the physics department. "When he retired in 1988, the duties he performed had to be distributed among some five faculty members."

At the University's Founders Day banquet in 1973, Shull received a Faculty Award from the University's Alumni Board of Governors in recognition of his outstanding teaching and scholarship. In 1989, the physics department established a fund for a Franklin B. Shull Prize to be awarded annually to the top teacher's assistant in the department.

Among the survivors are his wife, Barbara Shull of Ladue; four daughters, Margaret Shull of Ladue, Catherine Huston of Bowdoinham, Maine, Sarah Petersen of Kourou, French Guiana, and Dorothy Shull of Davis, Calif.; a sister, Elizabeth Russell of Mount Desert, Maine; and five grandchildren.

Memorial contributions may be made to the Franklin B. Shull Physics Department Prize Fund, Campus Box 1082, 1 Brookings Drive, St. Louis, MO, 63130.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Of note

Seth Carlin, professor of music and director of performance studies in Arts and Sciences, is the featured guest soloist with the San Francisco Philharmonia Baroque. He is conducting a total of six concerts in San Francisco, the Bay area, and Berkeley, Calif. He is performing Mozart's Concerto No. 9 in E flat (the "Jeunehomme"). A special feature of the performances is Carlin's use of his own original cadenzas interspersed with those by Mozart. …

Robin S. Wellford, J.D., director of legal writing at the School of Law, received an award from the Lexis Electronic Authors Press (LEAP) in Dayton, Ohio, which sponsored a competition for legal research and writing faculty. Wellford submitted a component of her legal writing course materials that she has produced in an electronic database. LEAP's advisory board announced her award at the American Association of Law Schools' convention in San Antonio. …

Mike Wolf, director of sports information in the Office of Public Affairs, will serve as a press officer on the 35-person U.S. Olympic Committee's media relations staff for the 1996 Olympic Games in Atlanta. He will serve as the press officer for men and women's tennis.

Speaking of

During the Acoustical Society of America's meeting at the Adam's Mark Hotel in St. Louis, several members of the Central Institute for the Deaf (CID) community delivered presentations. The presenters were **Julius L. Goldstein**, Ph.D., research professor of electrical engineering in the Department of Speech and Hearing and a senior research scientist; **Arnold Heidbreder**, senior design engineer; **Sungbok Lee**, Ph.D., postdoctoral research scientist; **James D. Miller**, Ph.D., professor of psychology in the department and a senior research scientist; **Donald W. Nielsen**, Ph.D., director of CID and professor and chairman of psychology in the department; **Barbara Richman**, research assistant; and **Rosalie M. Uchanski**, Ph.D., assistant professor of electrical engineering in the department and an assistant research scientist. CID hosted the meeting.

To press

The second edition of a textbook written by **Andrew D. Dimarogonas**, Ph.D., William Palm Professor of Mechanical Design, has been published by Prentice Hall of Englewood Cliffs, N.J. The book is titled "Vibration for Engineers." …

Jay S. Pepose, M.D., Ph.D., Bernard Becker Professor of Ophthalmology and Visual Sciences and associate professor of pathology, edited a book titled "Ocular Infection and Immunity" published by Mosby-Year Book Inc. of St. Louis. The 1,500-page textbook features 960 illustrations on infectious and immunological diseases of the eye.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity, to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For more information, call Sanford at 935-5293.

University's cultural offerings earn praise

In a year-end review published in The Riverfront Times (RFT), drama critic Harry Weber cited performances co-presented by Dance St. Louis and Edison Theatre's "OVATIONS!" series as being "exceptional," particularly the New York City Ballet Theater's performance of "Romeo and Juliet." Weber also called the Performing Arts Department in Arts and Sciences' student production of "The Illusion" the best play he saw in 1995. Jeffery Matthews, artist-in-residence in performing arts, was the director, and Bruce A. Bergner, artist-in-residence in performing arts, made the set.

In addition, the Gallery of Art's exhibition titled "Motherwell in St. Louis: A Selection From Local Collections" was named by art critic Alexandra Bellos as one of the best exhibitions of 1995. Bellos also cited the School of Art's faculty show "Transitions." Book critic Eddie Silva praised Carl Phillips for his collection of poems titled "Cortège."

Phillips is an assistant professor and writer-in-residence in English and in African and Afro-American studies in Arts and Sciences. "Cortège" has been nominated for the 1995 National Book Critics Circle Award in the poetry category. Winners will be announced March 21.

Early's creed: 'To be an honest man and a good writer' *— from page 1*

Gerald Early, the greatest writer America ever produced.'" He knew, if nothing else from this statement, that I loved baseball and thought highly of Ted Williams, although I had never seen him hit. But I did not want this merely for myself. I wanted it for him, for others, who believed so strongly in me.

My first undergraduate college experience was Antioch College, which lasted about three weeks. I ran away one early morning, went to San Francisco to live with my sister for a year. I was ashamed to have failed. The teachers at Antioch told me I couldn't write at all, that I needed remedial help. I cried. I was homesick and very afraid. I practiced writing for a year in San Francisco. I worked at the Presidio in the day and wrote all night, and hung around some guys from the Nation of Islam on the weekends because they had the best jazz records of anyone I knew out there. When I took my freshman composition class at the University of Pennsylvania, my teacher told me I was the best writer he ever had. "I'll be a lot better than this," I told him.

I had been seeing Mr. King nearly every week or two since the year I left his class. I did not see him, after my Antioch debacle, for nearly two-and-one-half years, not until I was a sophomore at the University of Pennsylvania and knew that I would make it through. "Why haven't you come to see me?" he asked when I finally appeared. I held my head down. "I never want you to see me fail," I said, with an earnestness that, I think, moved him deeply.

I dedicated my last book to him — "One Nation Under a Groove: Motown and American Culture." It was, for me, a small gesture. It did not mean much. He was old. He had been sick in recent years. He was having problems with his family, a wayward son, daughters whose marriages had not turned out well. He was a sick, retired teacher living on a paltry pension. I thought the dedication might cheer him up, amuse him. We had not seen each other in years. His son was involved in a drug deal gone bad, and Mr. King's house was firebombed in retaliation. My mother told me about it. I sent him some money. It was the least I could do.

My mother kept insisting that I talk to him. He wanted to talk to me about the book I had dedicated to him, and I held off calling him for a very long time. It seemed so long ago that he was the teacher and I was the pupil. I was now at least as old as he was when he taught me. But one morning, I did finally call him, to get my mother off my back. The conversation was not very long. He was very surprised to hear from me. Then he began to talk about the book I sent him, the book that I dedicated to him. It was a strange and trying moment, for he began to cry as he spoke. He cried and cried, like a child, very much the way I did when I was in his class and I was overwhelmed or wounded or disappointed. He couldn't speak. He was happy and sad all at once. It was something awful, and I wanted to hang up the phone. What could I say? The dedication was a nice tribute to a good teacher. "You remembered me," he kept saying, "you remembered me." Then, he said, "A book dedicated to me from one of my students? I didn't think it was possible. But I knew you could do it, Gerald. I always knew you would do it. I always knew you would be a great man." I hardly felt like a good man, talking to him on the phone, let alone a great man. Good Lord, that people should believe in each other, that we should cast our hopes on such puny, disappointing, wayward, disobedient, treacherous vessels as ourselves. I wouldn't have expected a kid like me to do anything much in life if I had been him.

Suddenly, it occurred to me that Mr. King was crying, not because he was surprised, but because his great hope and dream had been fulfilled. He trusted me that I would deliver this before he died. You shouldn't expect people to do anything but disappoint you in the end. It was terrible for me to know that he believed without ceasing that a tribute was coming to make all his anonymous years worth the agony and frustration. We talked a little while longer, awkwardly. I hadn't spoken to him in eight years. I told him I had to go, but before I hung up the phone, he said that my education at my poor, all-black elementary school must not have been so bad after all. After all, I did go to some fancy dan schools, and I work at a pretty highfalutin place, so my days at my poor old grade school must have put me in good stead. I told him it was the best education I ever had and that he had been the best teacher.

"You taught me," I said with an earnestness that echoed some other earnestness of an earlier time, "even before I found the words; even though I have not always lived up to it, you taught me how to be an honest man and a good writer. I hope I have tried to live up to it because, you know, I never want you to see me fail."

I said and I meant it. I hope he was pleased.

Opportunities & personnel news

Hilltop Campus

The following is a partial list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Administrative Assistant 960150. *Department of Education.* Temporary (one-year) assignment. Requirement: certificate or associate's degree. Application required.

Senior Project Engineer 960154. *Electric Power Research Institute Accounting.* Requirements: bachelor's degree; five years in management of water/wastewater treatment; experience in research. Application required.

Assistant Director, John M. Olin School of Business 960158. *Alumni and Development Programs.* Requirements: bachelor's degree; three years development or related experience; familiarity with the general corporate community; excellent verbal and written communication skills; excellent program and event-management skills; ability to effectively use computer technology; ability to work effectively with diverse constituents; interest in meeting new people; ability to think strategically; ability to plan and implement effective development programs. This is a part-time position. Application required.

Software Specialist 960159. *The Software Library.* Requirements: bachelor's degree; business background preferred; experience in customer relations and/or in service organizations; ability to use office-automation and Internet tools; ability to manage technical information and provide services in a multiplatform and multivendor computing environment; excellent interpersonal, communication and organizational skills; detail-oriented. Application required.

Department Secretary 960162. *Alumni and Development Programs.* Requirements: high school graduate, some college; specialized secretarial and business training; three years general office experience, including word processing; strong verbal and written skills; pleasant, professional manner with co-workers, volunteers and outside vendors; strong organizational skills; ability to apply these skills toward accomplishing multiple priorities with minimal supervision; willingness to work overtime, as necessary. Application required.

Research Technician 960163. *Department of Biology.* Requirements: bachelor's degree; use of calculators; safe handling of biohazardous materials. Application required.

Assistant to the Vice Chancellor for Financial Operations 960167. *Financial Operations.* Requirements: undergraduate degree in accounting; certified public accountant; master's degree in business administration is a plus; 10 years accounting experience, including five years in financial analysis or special projects; strong analytical skills; problem-solver and decision-maker; ability to properly assess pertinent data and develop a framework for effective practical solutions to complex issues; experience working with LANs and PCs; ability to extract data and write reports using Focus or its equivalent and spreadsheet and database-management software applications, etc.; excellent interpersonal skills; service-oriented communicator who is accessible and a team player; initiative; actively attempts to influence events and others rather than passively accepting them. Application required.

Technical Sales Specialist 960174. *Campus Stores.* Requirements: high school graduate, some college preferred; knowledge of PCs and popular software; experience using a variety of microcomputer peripherals, such as modems and printers; physically able to lift system components; able to work evenings and Saturdays. Résumé required.

Guest Relations Assistant 960175. *Undergraduate Admission.* Requirements: high school graduate, some college; outgoing personality and pleasant demeanor; professional appearance and ability to work well under pressure; excellent customer-service skills and the ability to greet the public; ability to perform as a member of a team of 40-plus professionals in a busy office environment; flexibility; sense of humor. Application required.

Operations Manager 960176. *Edison Theatre.* Requirements: bachelor's degree; strong business background and computer skills preferred; arts presenting and/or nonprofit management experience; highly energetic; enjoys working with the public; experienced in managing a staff and able to juggle many different projects with a sense of calm and humor; enjoys a university environment. Application required.

Mail Carrier 960177. *Campus Post Office.* Requirements: high school graduate; physically capable of lifting heavy packages; willingness to work outside in all kinds of weather; ability to go up and down stairs during mail delivery; driver's license with safe driving record; successful completion of University Health Service physical exam. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-7197 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a résumé to the human resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, MO, 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than human resources.

Clerk II (scheduling, reception) 960594-R. *Obstetrics and Gynecology.* Requirements: high school graduate; one year secretarial experience preferred; working knowledge of computers, telephones and general office equipment; effective communication and interpersonal skills needed for clinical office setting. Position located at Missouri Baptist Hospital.

Sonographer 960595-R. *Internal Medicine, Cardiology.* Requirements: significant training in cardiac ultrasound, cardiac anatomy and echocardiographic methods and techniques; three years continuous experience performing ultrasound procedures.

Library Assistant 960606-R. *Library.* Requirements: high school graduate or equivalent; ability to work with deadlines and deal with public-service encounters; customer service-oriented.

Medical Transcriptionist 960617-R. *Neurology.* Requirements: excellent spelling, grammatical and organizational skills; ability to handle multiple tasks simultaneously; detail-oriented; typing 70 wpm with accuracy.

Clerk I 960623-R. *Internal Medicine, Dermatology Outpatient.* Requirements: high school graduate or equivalent; proficiency in alphabetical filing procedures; ability to work with limited supervision; detail-oriented. Schedule: as-needed basis between 8 a.m.-5 p.m. Mondays-Fridays.

Clerk II 960624-R, 960625-R. *Internal Medicine, Dermatology Outpatient.* Requirements: high school graduate or equivalent; demonstrated clerical, organizational and communication skills; ability to handle multiple tasks. Schedule: as-needed basis between 8 a.m.-5 p.m. Mondays-Fridays.

Nurse Specialist (Dialysis) 960638-R, 960657-R. *Kidney Center.* Requirements: graduate of an accredited school of nursing; current Missouri nursing license; dialysis orientation training; motor coordination and manual dexterity; ability to adapt and work intimately with patients. Schedule: full time, 12.5 hours per day, three days per week, with rotating Saturdays.

Nurse: RN Staff 960652-R. *Barnard Cancer Center.* Requirements: graduate of an accredited school of nursing; current Missouri nursing license; chemotherapy experience; skills in starting IVs and accessing implanted infusion ports. Schedule: part time, eight hours per week.

User Support Analyst II 960655-R. *Computer Networking.* Requirements: bachelor's degree; technical expertise with Windows operating systems and Macintosh operating systems and software; familiarity with networks (Netware, TCP/IP and Novell Groupwise).

Dialysis Technician I 960658-R, 960659-R. *Kidney Center.* Requirements: high school graduate or equivalent; medical training or experience; ability to communicate with patients and staff; clerical skills; near visual acuity. Schedule will include rotating Saturdays.

Mail Clerk I 960669-R. *Washington University Shared Billing and Collection Services.* Requirements: high school graduate or equivalent; ability to handle 35-50 lbs.; organizational skills and attention to detail; ability to work in a flexible and courteous manner with a variety of people; ability to work unsupervised.

Q&A

Addressing employee questions concerning the Washington University community

Q: Why can't employees on the biweekly payroll participate in the direct-deposit program?

A: We plan to make it possible for employees who are paid on the biweekly payroll to participate in the direct-deposit program. This has been one of the goals of a group that has been meeting regularly to streamline the University's payroll process.

To make this happen, the funds to be deposited in the employees' accounts first must be deposited into the University's bank by at least two banking days before payday. Because employees on the biweekly payroll are paid on the Friday after the Saturday ending a biweekly period, funds headed for the employees' accounts would have to be deposited at the University's bank by 4 p.m. on Wednesday. This means that our window of opportunity for time sheet processing, payroll approving, system processing, et cetera, is about two-and-a-half business days.

We're pretty confident we can make this happen, but it will take the teamwork of everyone involved to meet the tight deadlines. Already, steps have been taken to shorten this window of opportunity by employing new technology to transmit funds to our bank. The Computing and Communications Department is reviewing system processing to see if more time can be saved. In addition, effective Feb. 1, the Payroll Department has been reorganized as a shared service of the Hilltop and Medical campuses, allowing many duplicate tasks to be eliminated. We hope we are heading down the homestretch toward implementation of direct deposit for our biweekly employees, and we look forward to announcing the details soon.

— ***William H. Witbrodt, assistant controller***

Submit questions about the University, which have broad appeal, to Q&A, c/o Michael Slatin, Campus Box 1070, or p72245ms@wuvmd.wustl.edu. Questions will be answered by the appropriate administrators. Though employee questions will appear anonymously in the Record, please submit your full name, department and phone number with your typed question. For information, call Slatin at 935-6603.

Footprints to be buried again, then re-excavated 100 years from now — *from page 1*

Laetoli Site G. Scientifically, the southern section of the trackway is by far the most important portion; it includes about 6.8 meters of the clearest and best preserved hominid prints.

The trees were a major concern for Marshall's crew, which included two of her graduate students, Chester Cain and Francesca Alhaique. Thirty-five trees had grown in a 10-by-4.5-meter area, not including four trees that had been there since Leakey's excavation. Marshall, who will return to the site this summer, and her team excavated around the roots to determine where the trees had grown through the trackway and to re-expose the footprints so conservators could save what remained and scientists could study the footprints again.

"We had to excavate the roots as if they were archaeological features," said Marshall. "We did not know where they would end."

Roots narrowly miss footprints

Miraculously, of the thousands of roots coming from the trees, only about a hundred penetrated to the surface level of the footprints. And not a single one penetrated an actual footprint, hitting the surface between footprints instead.

"It was truly amazing, a miracle and an enormous relief," said Marshall.

When Marshall's team discovered that the footprints were intact, they called Leakey, who still lives in Kenya in the house she and her late husband, Louis Leakey, built. (The team had a satellite phone for emergencies, and team members were allowed two-minute phone calls to their families every two weeks.) Leakey, who is in her 80s, sounded quite relieved, and arrangements were made immediately for her to visit the site.

Even more exciting than the hominid footprints alone was their relationship to the footprints of other animals, said Marshall. A three-toed horse and its foal appear to have galloped to the south. Other prints included those of hares and a small, jackal-sized carnivore. In addition, at a nearby site known as Site A, many other types of animal tracks were found by Leakey, including birds such as guinea fowl. Even raindrops were preserved in the volcanic ash.

"I knew the footprints would be exciting because they give you a sense of individuals walking around more than 3 million years ago, but I had not expected to be as excited by the sense of early humans in their environment moving around at almost the same time as all these other animals," said Marshall.

Scientists say the footprints were made when a volcano erupted during a rainstorm and the wet ash covered the trackway. Animal passersby — including hominids — left their prints in the resulting mud for posterity.

Volcanic ash saves prints

This was an amazing confluence of events because not only was it raining during the eruption, but the volcano spewed out a rare carbonatite ash, which has some unusual chemical properties similar to cement. When it falls and mixes with water, it sets hard, though not as hard as cement, said Marshall. Geologists have identified the volcano, which is called Sadiman and is just north of the site, almost within view.

When archaeologists first asked Marshall to lead the excavation, her reaction was, "Not on your life." She was well aware of the difficulties involved in excavating such a delicate and complex site. But as she talked to her colleagues about whether someone else might be better suited for the project and whether she ought to accept the invitation, one colleague said, "You'd be crazy to do that project. It has such a high risk of failure, you'd be risking your reputation." That comment pushed Marshall to accept the challenge, she said.

"I felt that that isn't the way to approach life. I love these sites and value them and am committed to doing what I can to save them. You have to at least try," she said.

There have been numerous proposals about how best to preserve and present the footprints. Mary Leakey had envisioned a museum at the site with the prints on display, and Tim White, a physical anthropologist working with Leakey, had proposed lifting the prints and displaying them in a museum elsewhere. After exploratory work in 1993, the GCI team determined that the best way to completely preserve the footprints for posterity was to again carefully rebury them. The GCI team particularly was concerned about the vulnerability of the volcanic sediment, known as tuff, to any changes in temperature or moisture and the possible effect also of abrasion through brushing and cleaning.

In order to preserve the footprints for a museum, the GCI team would have to consolidate the prints with plastics, and no one is certain what the long-term stability is of these conservation materials. The footprints will be re-excavated in 100 years so conservators again can assess the condition of the prints and whether there is any new technology that would safely preserve the footprints in a museum setting.

"It was very interesting to me, as an archaeologist, to work with conservators," said Marshall. "I'm always looking back in time, but the GCI conservators who are dedicated to conservation are always thinking as far forward as they can."

— *Debby Aronson*