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Record

Nov. 1, 2007

record.wustl.edu

 Washington University in St. Louis

Research institute supported by \$30 million BJC gift



BY GWEN ERICSON

A \$30 million gift from BJC HealthCare will help construct a new 11-story research building on the School of Medicine campus. This is the largest donation ever received for construction of a building at the School of Medicine. To be named the BJC Institute of Health at Washington University, the building will house the laboratories and support facilities for BioMed 21, the University's research initiative to rapidly translate basic research findings into advances in medical treatment. (See related stories on Page 3.)

"The BJC Institute of Health at Washington University will be home to research that brings together gifted physicians, scientists and researchers with a common goal — to find new and better ways to improve human health, including new treatments and potential cures for the diseases most prevalent in our society," said Steven H. Lipstein, BJC president and chief executive officer. "This Institute will provide the oppor-

tunity to translate medical discoveries into everyday patient care for the benefit of our entire community."

BJC HealthCare, a Missouri nonprofit corporation and one of the largest nonprofit health-care provider organizations in the United States, supports interdisciplinary, collaborative research that tackles major health problems. BioMed 21 exemplifies this type of research and brings together researchers and physician-scientists from specialties that span the breadth of medical and basic science disciplines.

"BJC HealthCare's gift to the University for this building is an investment in the talent and dedication of the researchers who will occupy it and those who collaborate with them," said Chancellor Mark S. Wrighton. "The facility will foster new ideas and creative solutions that will dramatically change medical care in the future. We are truly appreciative of BJC HealthCare's forward-looking commitment."

The BioMed 21 initiative was See Gift, Page 7

(From left) Steven H. Lipstein, BJC HealthCare president and CEO; Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; Chancellor Mark S. Wrighton; and Paul J. McKee Jr., board chair, BJC HealthCare, and chairman, McEagle Properties LLC, officially break ground at an Oct. 30 ceremony for the BJC Institute of Health at Washington University at the intersection of Euclid Avenue and Children's Place.

Financial Times ranks WUSTL-Fudan University executive MBA seventh in the world

Shanghai joint venture named best EMBA in mainland China for second straight year

BY GERRY EVERDING

The Washington University-Fudan University EMBA Program is ranked the seventh-best international executive MBA program in the world and, for the second consecutive year, as the best program in mainland China, according to 2007 rankings

released last week by The Financial Times, one of the world's leading business newspapers.

A joint educational venture between the Olin Business School and the School of Management at Fudan University in Shanghai, the program was among the first U.S.-Sino joint MBA programs in China when it was founded in 2002.

Designed to prepare Chinese managers for global executive positions, the program attracts about 75 percent of its students from the People's Republic of China. The joint venture also provides valuable experience for students in Olin's St. Louis-based EMBA program, many of whom were in Shanghai last week for 10

days of joint course work. Students from Shanghai will travel to St. Louis in December.

"Our mission worldwide is to create knowledge, inspire individuals and transform business," said Mahendra Gupta, Ph.D., dean and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management at Olin Business School. "To achieve our mission, we need to be consistently excel-

lent so that we attract the best faculty and students and provide the best learning experience."

Gupta and Lu Xiongwen, Ph.D., professor and dean of the School of Management at Fudan University, attribute the program's continued success to both partners' commitment to excellence.

"We have consistently striven See EMBA, Page 6

Traveling Sept. 11 memorial on campus this weekend

The National September 11 Memorial & Museum Tribute Exhibition will be on the Danforth Campus this weekend, Saturday, Nov. 3, and Sunday, Nov. 4, on the parking lot in front of Brookings Hall at Skinker Boulevard and Forest Park Parkway.

Opening ceremonies, including remarks by Chancellor Mark S. Wrighton and police and fire representatives, will take place at 10 a.m. Saturday on the northeast corner of the lot.

The traveling exhibit pays tribute to the victims and heroes of Sept. 11, 2001.

It began crossing the nation this Sept. 11 to build support for the creation of the National September 11 Memorial & Museum. Joe Daniels, the president and CEO of the National September 11 Memorial & Museum at the World Trade Center, is a 1994 Arts & Sciences alumnus of Washington University.

The exhibition tells the story of Sept. 11 from the perspective of families, responders, survivors, volunteers and everyday people who came together that day and in the weeks that followed. It in-

cludes photographs, artifacts, a short film and a detailed timeline of the events of Sept. 11.

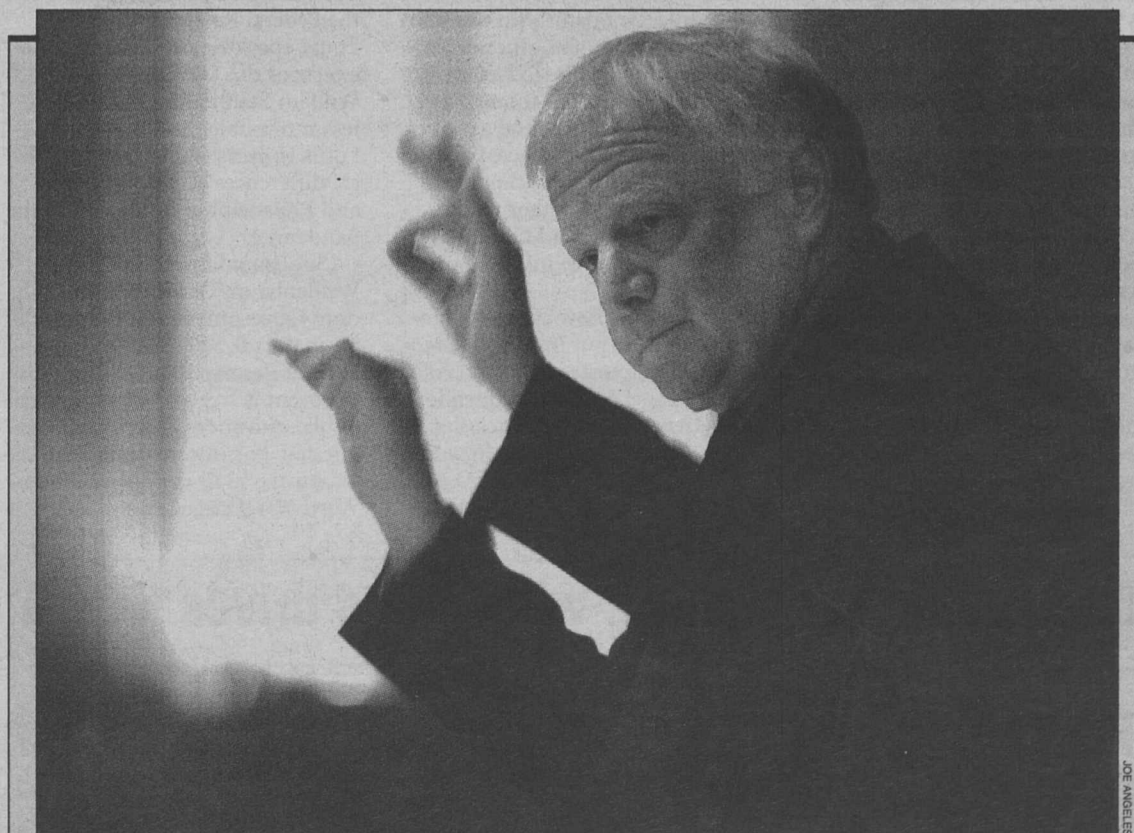
The national tour is part of a grassroots awareness and fundraising effort to involve as many Americans as possible in contributing to the memorial and museum that will honor the innocent lives lost in the World Trade Center Sept. 11 and in the World Trade Center bombing of Feb. 26, 1993.

It hopes to preserve the memory of the events for future generations, reflecting not only on the two tragedies but also in the tremendous resilience and courage Americans found in the aftermath.

In addition, visitors will be able to sign a steel beam that will be used in the construction of the National September 11 Memorial & Museum, which the organizers hope will be finished by 2009.

The exhibit will be on display each day from 10 a.m.-6 p.m. and is open to the public.

For more information on the National September 11 Memorial & Museum and details of the national tour, visit national911memorial.org.



A grand opening Acclaimed conductor Leonard Slatkin — music director of the National Symphony Orchestra in Washington, D.C., and conductor laureate of the Saint Louis Symphony Orchestra — led more than a dozen student, faculty and alumni pianists last Sunday as part of "Piano Extravaganza." The concert, organized by the Department of Music in Arts & Sciences, marked the formal opening of the newly renovated 560 Music Center in University City. The event, which was held in the 1,115-seat E. Desmond Lee Concert Hall, featured the premiere of "All Hands on Dec," an original composition for 10 pianists by Martin Kennedy, assistant professor of music, as well as works by Richard Wagner, Johann Sebastian Bach, Franz von Suppé, Edvard Grieg, Sergei Rachmaninoff, Francis Poulenc and John Philip Sousa.

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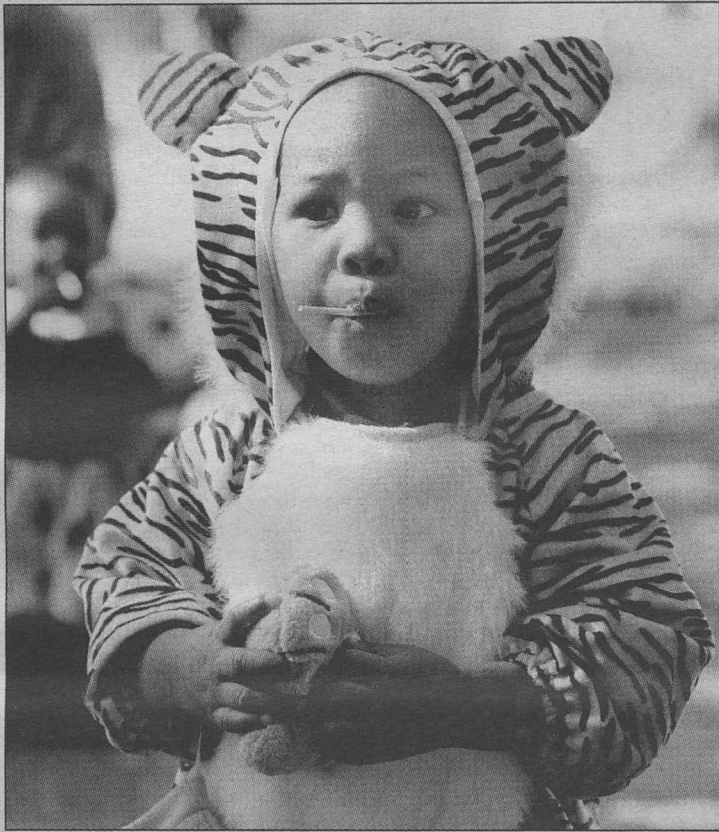
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A safe place to play

Freshman Alex Brainard (above) hands out candy in Park/Mudd Residential College during the Campus YMCA's Safe Trick or Treat event Oct. 27 in the South 40.

Meanwhile, Antonio Jackson (right), 2, finds plenty to enjoy at the annual event. Jackson was among the more than 300 area children who attended Safe Trick or Treat, which provides an opportunity for St. Louis-area children to have Halloween fun in a safe environment.



Lessons from 1918

Response to flu pandemic focus of public forum

BY GERRY EVERDING

"An Impending Influenza Pandemic? What Has Been Learned From 1918" is the focus of a St. Louis community forum beginning at 7:45 a.m. Nov. 9 in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

The program, which features discussions by city, county and national health directors, explores how St. Louis can use lessons from past flu outbreaks to prepare for a global bird flu pandemic that some experts see lurking on the horizon.

Like many cities around the globe, St. Louis is bracing for a flu season with potential to spark a worldwide outbreak of bird flu that could be similar to a Spanish

flu pandemic that killed some 20 million to 40 million people in 1918.

While the Spanish flu decimated Philadelphia and other American cities, St. Louis leaders are credited with saving thousands of lives by taking quick and assertive steps to limit the spread of the disease, including the closure of bars, markets and other public gathering spaces and the use of military to enforce in-home quarantines.

Discussing how similar protocols might be put in place to stem future pandemics is the focus of a forum panel on public education and preparedness that includes presentations by public officials and Francisco Averhoff, M.D., of the Centers for Disease Control

and Prevention.

Providing historical perspective will be Thomas A. Garrett of the Federal Reserve Bank of St. Louis, speaking on the economic effects of the 1918 pandemic; and William Stanhope, associate professor of public health at Saint Louis University, discussing critical differences in how St. Louis and Philadelphia responded to the pandemic.

Sponsored by the WUSTL's Weidenbaum Center on the Economy, Government and Public Policy in Arts & Sciences and the Federal Reserve Bank of St. Louis, the event is free and open to the public. Advance registration is requested. For information, visit wc.wustl.edu or contact Melinda Warren at 935-5652.

Second of four campus-wide blood drives Nov. 6

BY NEIL SCHOENHERR

Though the first University-wide blood drive in September was a huge success, more blood is needed. The second of four University-wide blood drives this year will be held Tuesday, Nov. 6.

"The Sept. 11 drive was the best drive we've ever had," said Stephanie Kurtzman, director of the Community Service Office and associate director of the Richard A. Gephardt Institute for Public Service. "We were able to collect 690 units of blood compared with 609 units all of last academic year. But there are still people in the St. Louis area who are in need. We are encouraging everyone to get involved."

Kurtzman stressed that Nov. 6 is more than the 56 days required between donations, so those who donated during the Sept. 11 drive can donate again.

In the past, student-run blood drives, supported by the Community Service Office, were held six times a year. In an effort to more easily publicize the drive and make it more of a campus-wide event, the idea of a large-scale drive was born. The remaining University-wide drives will be held Jan. 29 and April 1, 2008.

There will be 12 blood donation sites for the November drive, with at least one at each of the Danforth, Medical, North and West campuses. A variety of times will be offered as well.

The drive is sponsored by the Community Service Office in collaboration with the American Red Cross and Mississippi Valley Regional Blood Center.

Online signup will again be available. For blood drive locations or to register as a donor or volunteer, visit communityservice.wustl.edu/donateblood.

Peters named executive director of compliance and audit

BY JESSICA DAUES

Gail A. Peters has been appointed executive director of compliance and audit, announced Chancellor Mark S. Wrighton.

Peters, formerly the director of internal audit and University compliance officer, will report to the chancellor and will oversee the Internal Audit Department and University Compliance Office.

"Gail has been an excellent contributor to the University in these areas already,"

Wrighton said. "My expectation is that these changes will permit Gail to assume a more direct and substantial role in assuring the effectiveness of regulatory compliance activities within the University community."

These compliance activities include those by area-specific compliance offices — such as environmental health and safety, research and physician billing compliance — that perform ongoing monitoring to determine whether effective compliance is occurring in all activities governed by federal laws and regulations and by University policy in the areas they cover. They also develop policies and provide training and education to help ensure the University follows applicable laws and regulations.

"My job is to review the activities of the area-specific compliance offices to ensure they are sufficient," Peters said, "plus to find out on a regular and frequent basis what compliance risks, problems, external audit scrutiny and other issues they are facing and help

them address these concerns so the offices can be even more effective in serving the University."

In addition to Peters' position, which was newly created, the University will hire a new director of internal audit, who will report to Peters, and add two positions to the internal audit/compliance staff.

"These changes and Gail's promotion will greatly enhance the University's ability to identify and respond to emerging areas of compliance or internal controls concerns," said Michael R. Cannon, J.D., executive vice chancellor and general counsel. "Our ability to respond to external inquiries and audits in a professional, thorough and consistent manner is crucial in these days of increased oversight of higher education. Washington University will be well served by these changes."

Peters joined the University in 1990 as director of internal audit and added the title of University compliance coordinator in 2000 — the same year WUSTL started its compliance program and became one of the first universities in the United States to do so. In 2005, she was promoted to director of internal audit and University compliance officer.

Before coming to the University, Peters worked as director of internal audit at Barnes-Jewish Hospital from 1985-1990 after serving as senior internal auditor at Barnes-Jewish from 1981-85. From 1978-1981, Peters worked as an accountant and then as an internal auditor at ITT Corp. in St. Louis.

Peters earned a bachelor of science degree in business in 1978 from Eastern Illinois University, where she majored in accounting and minored in management. She became a certified public accountant in 1983 and a certified internal auditor in 2000.



Peters

Actor Sarsgaard to speak on campus

Actor Peter Sarsgaard, a 1991 WUSTL alumnus and one of the stars of the current film "Rendition," will speak at 7 p.m. Nov. 8 at Graham Chapel.

The event is sponsored by Congress of the South 40. Sarsgaard, an accomplished actor, is known for portraying disturbing and hard-edged characters.

While at the University, Sarsgaard majored in history in Arts & Sciences and founded the im-

prov comedy troupe Mama's Pot Roast.

Sarsgaard made his big-screen debut in Tim Robbins' "Dead Man Walking" (1995). He went on to act in such films as "Boys Don't Cry," "Garden State," "Jarhead," "Kinsey" and "Flight Plan." He was nominated for a 2003 Golden Globe Award for his portrayal of Charles "Chuck" Lane in "Shattered Glass." Sarsgaard is engaged to actress Maggie Gyllenhaal.

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Washington University in St. Louis

School of Medicine Update

Immense new facility to house BioMed 21 research

Through \$30 million gift, building is named BJC Institute of Health at Washington University

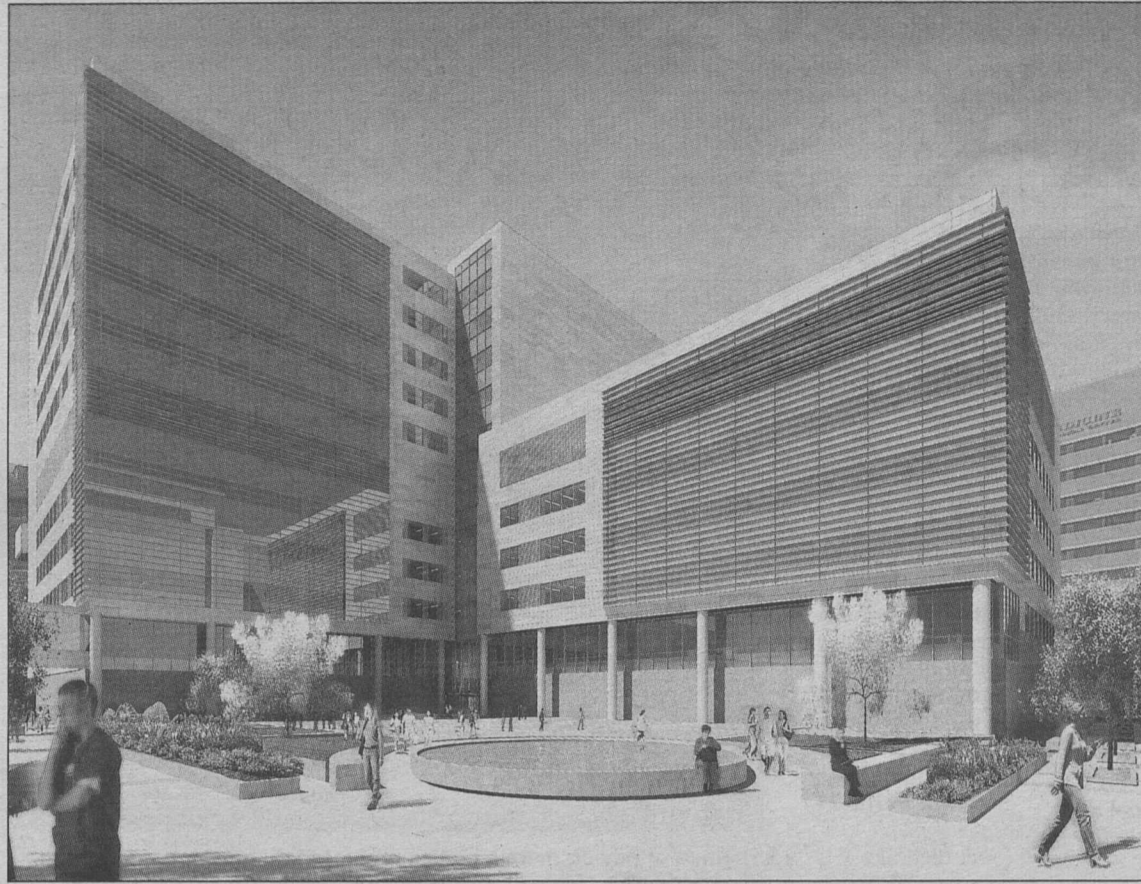
BY GWEN ERICSON

The largest building ever constructed on the School of Medicine campus will be the home base for BioMed 21 — the University's innovative research initiative designed to speed scientific discovery and to rapidly apply breakthroughs to patient care. The building is supported by a \$30 million gift to the School of Medicine from BJC HealthCare and will be named the BJC Institute of Health at Washington University.

Construction began in the summer on the new building, which will house not only BioMed 21 laboratories and support facilities but also two academic departments of the School of Medicine as well as some support operations of Barnes-Jewish Hospital. The University will be adding 240,000 square feet of research space, and the estimated total cost of the building will be \$235 million. As a hub for BioMed 21, the building will provide space for five newly created Interdisciplinary Research Centers (IRCs).

In other major developments exemplifying the progress of the BioMed 21 program, an \$11 million, 16,000-square-foot, free-standing computing facility is being constructed to house the computing equipment needed to support the rapidly expanding research of the world-leading Genome Sequencing Center. In addition, 15,000 square feet of space are being added to the previously established Center for Genome Sciences to support 11 new investigators who will design and interpret genome-anchored clinical studies linking disease traits to human genetic makeup.

Launched in 2003, BioMed 21 creates a multidisciplinary- and translational-research imperative for basic scientists and clinician-researchers from many different



The BJC Institute of Health at Washington University under construction at the corner of Euclid Avenue and Children's Place on the Washington University Medical Center campus will house laboratories and support facilities as part of the University's BioMed 21 research initiative. It also will be home to two School of Medicine academic departments and some support operations of Barnes-Jewish Hospital.

medical disciplines.

"We launched BioMed 21 because we recognized that effective collaboration among researchers in different fields is essential to the future of medicine," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "The initiative creates mechanisms to more quickly bring basic scientific knowledge to application for medical treatments. These expansions are monumental and demonstrate the strength of our commitment to research that will revolutionize medical care."

The BioMed 21 IRCs will occupy two floors, and other School of Medicine facilities will occupy another three floors of the planned 11 floors in the nearly 700,000-square-foot BJC Institute of Health at Washington University.

The new Institute is at the southwest corner of Euclid Avenue and Children's Place, directly across the street from the McDonnell Pediatric Research Building, a joint project of the School of Medicine and St. Louis Children's Hospital.

Located in the heart of the Medical Center campus, the building will be in immediate proximity to the facilities in which Washington University physicians provide patient care: Barnes-Jewish Hospital, St. Louis Children's Hospital, the Center for Advanced Medicine and the Siteman Cancer Center.

The academic departments of the School of Medicine that will have laboratory space in the building are the Department of Pathology and Immunology, headed by Herbert W. "Skip" Virgin, M.D., Ph.D., the Edward

Mallinckrodt Professor of Pathology, and the Department of Obstetrics and Gynecology, headed by George A. Macones, M.D., the Mitchell and Elaine Yanow Professor of Obstetrics and Gynecology.

The five IRCs selected to occupy the new building were chosen through a novel competitive application process that assessed the proposals' scientific merit and alignment with the core principles of the BioMed 21 initiative.

Each addresses a disease-specific area — cancer, cardiovascular disease, neurodegenerative diseases, infectious diseases or membrane excitability diseases — and each includes researchers from several scientific disciplines and academic departments who proposed to work together in designated laboratory space within the new building. The IRCs will include established faculty members and will recruit additional new faculty members who possess specific expertise needed to fulfill their missions.

"It's a tremendous opportunity — new ideas and inspiration can arise when researchers with different training and experience are able to interact closely on a daily basis," Shapiro said. "The centers will allow them to better share information, resources and skills to achieve an advanced level of discovery pertinent to human disease."

The IRCs are:

- the **Center for Cancer Genomics**, led by Simon Powell, M.D., Ph.D., professor and head of radiation oncology;
- the **Center for the Investigation of Membrane Excitability Disorders (CIMED)**, led by Jeanne Nerbonne, Ph.D., the Alumni Endowed Professor of Molecular Biology and Pharmacology, and Colin Nichols, Ph.D., the Carl F. Cori Professor;
- the **center for Women's In-**

fectious Disease Research

(cWIDR), led by Scott Hultgren, Ph.D., the Helen Lehbrink Stoeber Professor of Molecular Microbiology and Michael Caparon Jr., Ph.D., professor of molecular microbiology;

- the **Hope Center Program on Protein Folding and Neurodegeneration**, led by Alison M. Goate, D. Phil., the Samuel and Mae S. Ludwig Chair in Psychiatry at Barnes-Jewish Hospital, and David Holtzman, M.D., the Andrew B. and Gretchen P. Jones Professor and head of Neurology; and

- the **Center for Interdisciplinary Studies of Diabetic Cardiovascular Disease**, led by Jean E. Schaffer, M.D., professor of medicine and of molecular biology and pharmacology, and Daniel S. Ory, M.D., associate professor of medicine and of cell biology and physiology.

The Center for Cancer Genomics will capitalize on the strength of genome sequencing at the School of Medicine and the research orientation of the Siteman Cancer Center. This IRC aims to find genetic variants that modify a person's cancer risk and a person's response to cancer therapies. It also will identify biological mechanisms and markers that will lead to improved cancer diagnoses and treatments.

The Center for Membrane Excitability Disorders will investigate the molecular, cellular and systemic mechanisms that underlie both inherited and acquired membrane excitability diseases, which include epilepsy, migraine, congenital cardiac dysfunction, neonatal diabetes and cystic fibrosis.

The center for Women's Infectious Disease Research will focus on infectious conditions prevalent in women. Researchers will investigate the role of infectious agents — bacteria and viruses — in such medical issues as premature birth, bladder dysfunction, recurrent urinary tract infections, cancer, diabetes and heart disease.

The Hope Center Program on Protein Folding and Neurodegeneration will study problems that tend to affect the aging brain: Alzheimer's disease, Parkinson's disease, Huntington's disease, front-temporal dementia and amyotrophic lateral sclerosis (ALS), among others. Such disorders appear to stem from aggregation of proteins that become misfolded, and researchers will seek a better understanding of this process.

The Center for Interdisciplinary Studies of Diabetic Cardiovascular Disease will address how the metabolic changes found in diabetes — alterations in the way sugars and fats are processed in the body — lead to heart disease, a significant complication of diabetes. Researchers will investigate methods for early diagnosis and effective treatment of heart disease in diabetes.

Building planners estimate that BioMed 21 researchers will occupy labs in the new building by December 2009. Cannon Design, an international architectural, engineering and planning firm is the project architect, and S. M. Wilson is the general contractor.

Data center construction will support advances in genome sequencing

BY GWEN ERICSON

An important component of BioMed 21, the University's Genome Sequencing Center (GSC) is a gene-sequencing powerhouse and one of the four such centers in the world. It specializes in large-scale, high-throughput genome sequencing, supplying data that helps researchers at the School of Medicine identify the genetic factors that contribute to disease.

To meet the massive computing needs of the GSC, a 16,000-square-foot data center is being constructed on Newstead Avenue across the street from the center's current facility. The data center will support 120 racks of highly dense data storage and computing solutions required by next-generation DNA sequencing technology.

"Sequencing technology becomes faster with each generation of equipment," said Richard K. Wilson, Ph.D., director of the GSC. "And as we adopt the next generation of DNA sequencers, we will increase the amount of

data we generate by several thousand times per day. Think how fast your digital camera's storage card would fill up if you took thousands more pictures every day. The new data center will provide the 'extra space' and more efficient data processing required by advanced sequencing technologies, and it will meet our computing needs for the next several years."

Scientists of the GSC significantly contributed to the Human Genome Project, completed in 2003. Now researchers are making use of this reference sequence of the human genome to answer questions about individual human genetic variation and its role in disease onset, progression and prognosis.

The GSC was recently awarded a \$156 million grant to use DNA sequencing to unlock the secrets of cancer and other human diseases and to sequence the genomes of non-human primates and microbes.

Currently, the GSC has projects devoted to sequencing whole genomes of organisms as varied

as corn, roundworm, fruit fly, frog and chimpanzee, among others.

The researchers also are analyzing the genomes of both infectious bacteria and of "friendly" bacteria that normally line the intestines and help metabolize food. Overall, these genomes have the potential to accelerate progress in understanding genome structure, organization and function as well as providing genomic information about disease-causing organisms and organisms that serve as models of human diseases.

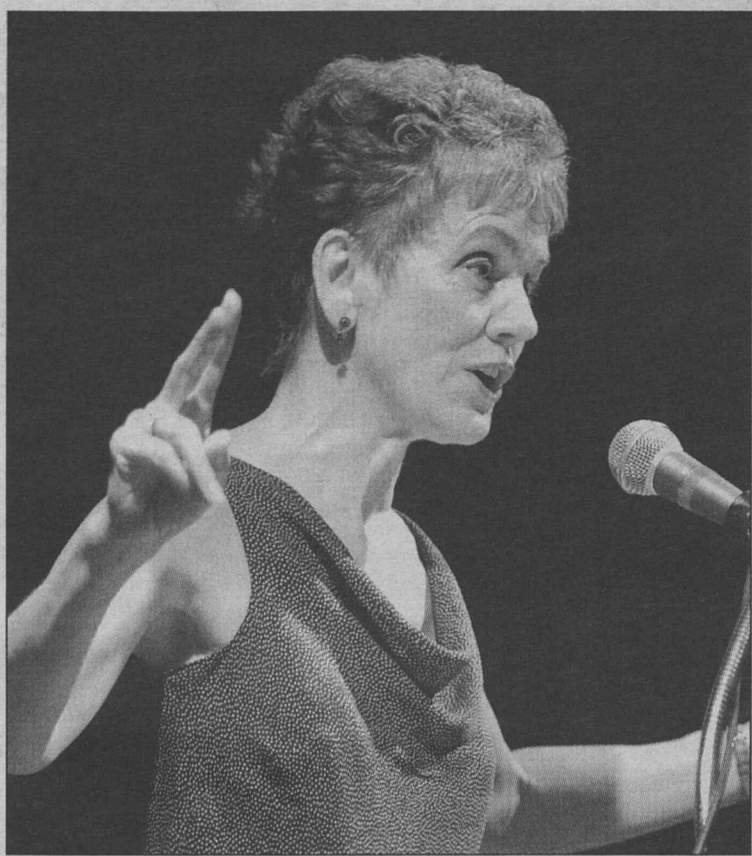
The center has begun a major effort to gather genetic data faster and less expensively than before.

"When we first started genome sequencing in 1990, it took eight years and more than \$50 million to produce the sequence of a simple organism," Wilson said. "Now technology will allow us to sequence a similarly sized genome in two or three days at a cost of about \$5,000. We are continually working to produce sequences faster, better and less expensively and to lead the innovation and application of DNA sequencing technology."

Flu shots at School of Medicine

Beginning Nov. 7, free flu vaccinations will be provided to School of Medicine employees with a valid identification badge. A complete schedule is available at record.wustl.edu/news/page/normal/10405.html.

For more information, call 362-3528.



Lappe, through years of writing and teaching, has influenced a generation through her thoughts on world hunger and how each one of us can have an impact if we change our view of food consumption.

'Diet for a Small Planet' author to give talk Nov. 6

Frances Moore Lappe on how to get a grip in a 'world gone mad'

BY BARBARA REA

Many of the principles guiding the modern food movement can be traced back to concepts first explored by Frances Moore Lappe in her pioneering 1971 book, "Diet for a Small Planet." The book sold millions and influenced a generation about the social and personal significance of a new way of eating and a new way of viewing the world.

At 4 p.m. Tuesday, Nov. 6, in Graham Chapel, Lappe will present a talk for the Assembly Series based on her most recent book, "Getting a Grip: Clarity, Creativity, and Courage in a World Gone Mad." The program, co-sponsored by the University Libraries and the student organizations Feed St. Louis and Alliance of Students Against Poverty, is free and open to the public.

For Lappe, the problem of hunger that is experienced by whole populations is a result of current food, farming and international aid policies. Running through her 15 books, many of which she collaborated with her daughter, Anna, is the theme that scarcity is not the cause of hunger; rather, it is caused by decisions made by a few, which always benefits them and leaves many powerless.

Built into this theme is the idea that each person, by making his or her own educated decisions about what to eat, can change the balance of power and create an equitable distribution system for all.

Among her collection of writ-

ings are "Food First: Beyond the Myth of Scarcity," co-written with Joseph Collins; "Rediscovering America's Values"; and "Hope's Edge: The Next Diet for a Small Planet," with Anna Lappe.

In addition to her publications, Frances Moore Lappe co-founded and directs the Institute for Food and Development Policy, which educates Americans about the causes of hunger, and the Center for Living Democracy, a 10-year initiative to spread democratic innovations by ordinary citizens.

In 1987 she received the "Right Livelihood Award," sometimes referred to as the "alternative Nobel," for her vision and work healing our planet and uplifting humanity. She also was given the Rachel Carson Award from the National Nutritional Foods Association.

Currently she and Anna lead the Small Planet Institute, a collaborative network for research and education of democracy. In addition, she contributes to Yes! Magazine, is a founding councilor of the World Future Council, is a member of the International Commission on the Future of Food and Agriculture and serves on the National Advisory Council of the Union of Concerned Scientists.

She earned a bachelor's degree from Earlham College and attended graduate school at Stanford University.

For more information on Assembly Series programs, call 935-5285 or visit assemblyseries.wustl.edu.

'Dazzling' poet Thomas Sayers Ellis will read from his work for Writing Program

BY LIAM OTTEN

Poet Thomas Sayers Ellis will read from his work at 8 p.m. Nov. 8 for Washington University's Writing Program in Arts & Sciences.

Born and raised in Washington, D.C., Ellis attended Harvard University and in 1988 co-founded The Dark Room Collective, the Boston area's only reading series dedicated to writers of color. In 1995 he earned a master's of fine arts from Brown University and the following year published his first collection, "The Good Junk," which was included in the Agni/Graywolf series, "Take Three."

Ellis' most recent collection, "The Maverick Room" (2005), explores the social, geographical and historical neighborhoods of his native Washington. "Breakfast and Blackfish: Notes for Black Poets" is forthcoming from the University of Michigan Press' Poets on Poetry Series.

"To say that race is the dominant theme of Thomas Sayers Ellis's poems risks simplifying the many things his poems do," said Mary Jo Bang, professor of English and director of the Writing Program, both in Arts & Sciences. "They dazzle in their pacing, in their extravagant use of sound, and in their willingness to confront received ideas of how a poem should be put together and what it should include and exclude."

"They speak inventively about how race is drawn through history, but also how it is drawn through language," Bang said. "The language of race is as much his subject as race itself. And like the very best poems, he speaks about the past as something not static and not 'over' but as part of the dynamic present."

Ellis' work has appeared in "Poetry," "Grand Street," "Tin House" and "Ploughshares," among others, as well as in the 1997 and 2001 editions of "Best

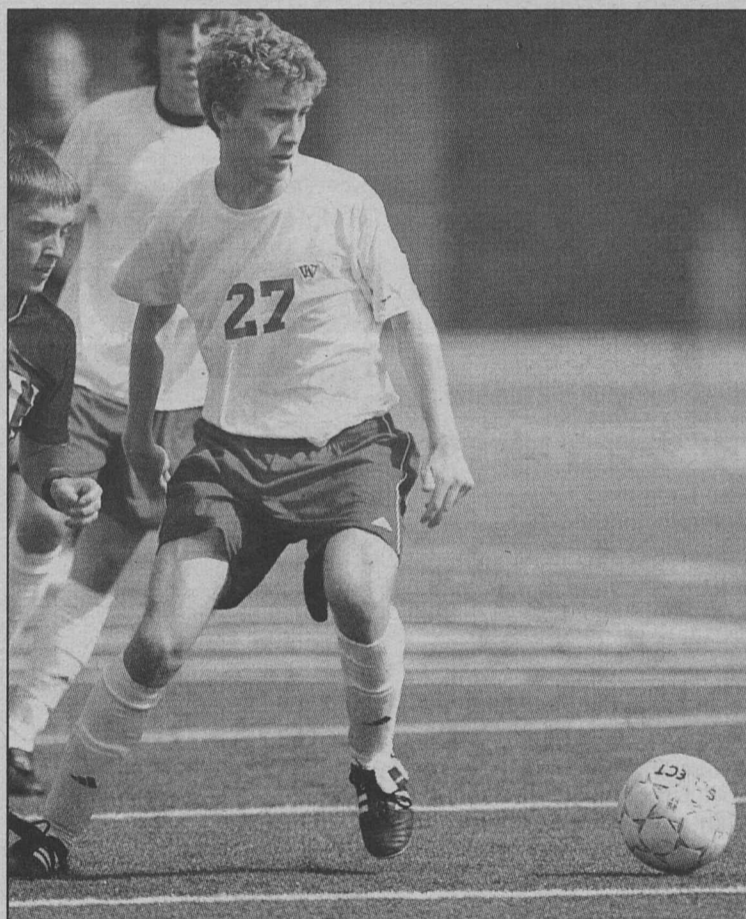
American Poetry." Other publications include a chapbook, "The Genuine Negro Hero" (2001), and a chaplet, "Song On" (2005). In 1993 he co-edited the collection "On the Verge: Emerging Poets and Artists."

Ellis has received fellowships and grants from The Fine Arts Work Center, the Ohio Arts Council, Yaddo and The MacDowell Colony, among others. A contributing editor to "Callaloo" and "Poets and Writers," he is an assistant professor of creative writing at Sarah Lawrence College and a faculty member of Lesley University's low-residency master of fine arts program.

The talk, part of the Writing Program's Fall Reading Series, is free and open to the public and takes place in Duncker Hall, Rm. 201, Hurst Lounge.

For more information, call 935-7130 or e-mail dschuman@wustl.edu.

Sports



Freshman Harry Beddo, who got the game-winner yet again in an overtime win over Case Western Reserve, leads the team in game-winning goals with four. Through Oct. 28, he also led the Bears in goals (9) and in overall points (20), which includes goals and assists.

Women's soccer earns NCAA tourney berth

The No. 10 women's soccer team won three of four games last week, highlighted by a 3-1 win over the University of Rochester Oct. 26 and a 4-0 victory over Case Western Reserve University Oct. 28.

With the two University Athletic Association victories, WUSTL clinched its second-straight and fifth overall UAA title as well as an automatic berth in the NCAA tournament. In addition, the Bears posted a 2-1 win at Maryville University Oct. 23 as Becca Heymann scored the game-winner in the 89th minute. The Bears' lone defeat of the week came against No. 1 Wheaton College, 1-0, at home Oct. 22.

Cross country teams compete in Boston

The third-ranked women's cross country team won the University Athletic Association championship at Franklin Park in Boston, Mass., Oct. 27.

Senior Tricia Frisella paced the women's squad, placing second overall with a time of 22:29, and was named to the all-UAA first team. Joining Frisella in garnering first-team all-UAA honors were seniors Tyler Mulkin and Kate Pentak. Freshman Taryn Surtees finished eighth and was selected UAA Rookie of the Year. The men's squad placed sixth at the meet, just 10 points back of the third-place position. Senior Jesse McDaniel posted the best finish for the men's team, coming in 14th with a time of 25:55, and earned second-team all-UAA honors. The women's coaching staff — head coach Jeff Stiles and assistants Paul Thornton, Ryan Chapman, John Aerni and Peter Quigg — earned UAA women's coaching Staff of the Year honors.

Men's soccer upsets Case Western Reserve

The men's soccer team upset No. 5 Case Western Reserve University in overtime at Francis Field Oct. 28.

Freshman Harry Beddo scored

the game-winning goal in the 105th minute, heading in a long pass from senior Elie Zenner. Earlier in the week, WUSTL tied the University of Rochester, 1-1, Oct. 26. With the tie against Rochester and win over Case Western Reserve, the Bears (13-4-1 overall; 4-1-1 in league play) are assured at least a third-place finish in the University Athletic Association.

Volleyball sweeps BEARS Classic

The No. 4 volleyball team posted four 3-0 victories at the BEARS Classic Oct. 26-27.

The wins improved the team's overall record to 24-4. WUSTL defeated Peru State University and Principia College Oct. 26 and Adrian College and Webster University Oct. 27. The team finished the regular season in first place in the University Athletic Association and begins the UAA championship tournament this weekend.

Swimming and diving defeat DePauw

The men's and women's swimming and diving teams defeated DePauw University Oct. 27.

Men's junior Perry Bullock posted an NCAA "B" cut in the 200-yard butterfly (1:54.83) and also won the 200-yard backstroke (1:59.55) and 100-yard butterfly (51.99).

Senior Meredith Nordbrock won a pair of events for the women's team: the 100-yard breaststroke (1:09.10) and 200-yard IM (2:17.57). Junior Kelly Kono won the 1,000-yard freestyle (10:38.85) and 100-yard freestyle (54.38).

Winning streak snapped for football

Carnegie Mellon University scored 16 unanswered points in the second half en route to an 18-13 win against the visiting Bears football team Oct. 27 in Pittsburgh.

The Tartans outgained WUSTL 291-286 in total offensive yards, including a 215-96 advantage on the ground. The team wraps up University Athletic Association play Saturday, Nov. 3, at Case Western Reserve University. A victory for the Bears would find them in a three-way tie for the UAA championship.

Music

Thursday, Nov. 1

8 p.m. Jazz at Holmes. Steve Schenkel, guitar. Ridgley Hall, Holmes Lounge. 935-4841.

Thursday, Nov. 8

8 p.m. Jazz at Holmes. Wolfgang Seligo, piano. Ridgley Hall, Holmes Lounge. 935-4841.

Thursday, Nov. 15

8 p.m. Jazz at Holmes. Dave Stone, saxophone. Ridgley Hall, Holmes Lounge. 935-4841.

Tuesday, Nov. 13

8 p.m. Student Recital. Graham Chapel. 935-4841.

On Stage

Friday, Nov. 2

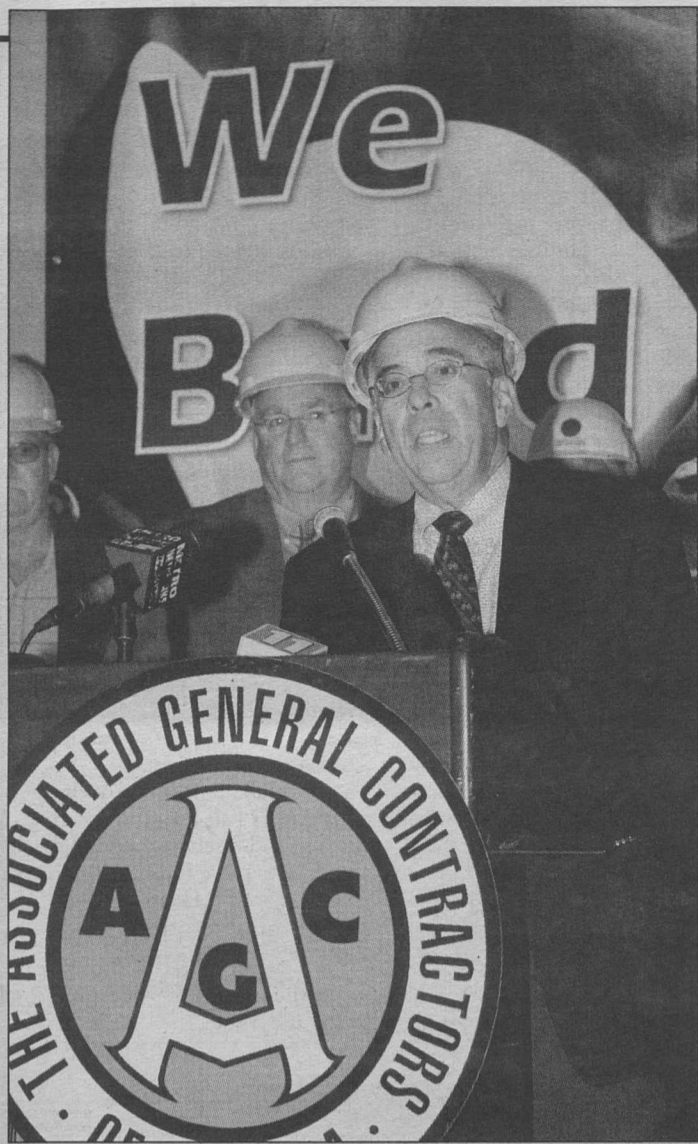
8 p.m. OVATIONS! Series. "Nikolais Dance Theatre." (Also 8 p.m. Nov. 3.) Cost: \$30, \$25 for seniors, WUSTL faculty & staff, \$18 for students & children. Edison Theatre. 935-6543.

Friday, Nov. 9

8 p.m. Performing Arts Dept. Presentation. "Measure for Measure." (Also 8 p.m. Nov. 10, 16 & 17; 2 p.m. Nov. 11 & 18.) Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Saturday, Nov. 10

8 p.m. American Indian Repertory Theatre. "Weaving the Rain." (Also 2 p.m. Nov. 11.) Cost \$10, \$8 for WUSTL students, \$12 at the door. The Village Black Box Theatre. 935-6288.



Building St. Louis Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences, welcomes guests to the Associated General Contractors (AGC) of St. Louis' Build St. Louis Week 2007 kick-off event Oct. 22 at the Social Sciences/Law Building construction site. The AGC holds the event at a different site each year to honor the construction industry and its employees for the contribution they make to the St. Louis economy.

EMBA

Rankings based on alumni surveys

— from Page 1

toward excellence in the research and educational environment that we provide because it takes excellence in everything we do to be a world-leading business school," Lu said.

The Financial Times' rankings are based on surveys of alumni conducted three years after graduation, including questions on satisfaction in career progress, salary percentage increase and aims achieved.

The survey also measures other program attributes, such as diversity and the scholarly activities of faculty.

The 2007 rankings included survey responses from the second cohort of graduates from the Washington University-Fudan University EMBA program — their success and the strength of the program's faculty again placed the program among the top 10 programs in the world.

Notably, current salaries of program alumni ranked second in the world this year after adjusting for differences in purchasing power parity around the world.

James T. Little, Ph.D., the Donald Danforth Jr. Distinguished Professor of Business and the program's academic director since its

inception, attributes success to an emphasis on collaboration, noting that programs based on joint ventures once again claimed four of the top 10 slots in The Financial Times' rankings.

"Both knowledge and expert faculty are now spread worldwide," Little said. "I don't see any way in which today's top universities can remain vital, continuing to push the edge of thought leadership and knowledge creation, unless they partner with other premier universities."

"It's clear to us that the major universities of tomorrow will be central nodes in networks of institutions located across the globe," Little said.

Little said the program is playing a key role in preparing Chinese citizens for global management positions.

"These are the students who we think matter the most, both for China and the two schools," Little said. "As China's best companies grow into international companies, they are going to need internationally trained executives to lead them."

"Similarly, as China grows in importance in the portfolios of leading international companies, these companies will need local managers that can bring their rich understanding of China into the corporate strategy formulation process. Our program is really designed to prepare our students for these leading roles," Little said.

"Both knowledge and expert faculty are now spread worldwide. I don't see any way in which today's top universities can remain vital, continuing to push the edge of thought leadership and knowledge creation, unless they partner with other premier universities. It's clear to us that the major universities of tomorrow will be central nodes in networks of institutions located across the globe."

JAMES T. LITTLE

Cannon named associate dean, director of BSBA program at Olin

Hochberg stepping aside after 25 years at the helm

BY SHULA NEUMAN

The Olin Business School has appointed a new associate dean and director of the undergraduate degree program.

Jeff Cannon will take the reins from Gary M. Hochberg, Ph.D., Jan. 1, 2008. Hochberg is stepping down after overseeing the bachelor of science in business administration (BSBA) program for 25 years and helping it grow to attain international recognition for excellence. Hochberg will stay on to assist with special projects.

Cannon is director of Kenan-Flagler Business School's BSBA program at the University of North Carolina at Chapel Hill, where he also teaches business history and advises honors students. In 2006, he was named director of Kenan-Flagler's doctorate program.

Before he joined Kenan-Flagler's administrative team, Cannon was assistant dean of students for the University of North Carolina's division of student affairs and judicial programs officer. He earned his bachelor's and master's degrees in American history

from Ball State University in Muncie, Ind.

"Jeff possesses an extraordinary combination of management knowledge, professional experience and personal attributes," said Mahendra Gupta, Ph.D., dean and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management at Olin Business School. "I have every confidence Jeff will carry forward our vision to become one of the world's best business schools."

Cannon's appointment as head of Olin's undergraduate program coincides with the school's execution of a bold, long-range plan for the decade ahead.

"I am excited to be part of Olin and its world-class undergraduate program," Cannon said.

"I look forward to helping the business school build on its incredible strengths. Olin undergraduates' prominence as managers and leaders — along with their service and citizenship — reflects the outstanding return on investment they bring to organizations across the globe," Cannon said.

Cannon's wife, Sharon McMillen Cannon, is a 1981 Arts & Sciences alumna. They have a daughter, Lauren, who is in fourth grade.

'A Call to Service' to promote jobs in government, public policy

BY JESSICA MARTIN

Washington University students looking for a career that will help shape the future of the United States can find a wealth of information during "A Call to Service," a series of events promoting government and public policy careers from Nov. 7-9.

The series, sponsored by the Gephardt Institute for Public Service, the Career Center, the George Warren Brown School of Social Work and the Department of Political Science in Arts & Sciences, will feature a career fair, career information panel discussions and a government and public policy roundtable.

"Tremendous opportunities exist for students who have an interest in civil service and public policy," says Amanda Moore McBride, Ph.D., assistant professor of social work and director of the Gephardt Institute. "Large numbers of baby boomers will retire from local, state and national agencies in the coming years. Public administration requires knowledge and skills from all disciplines, from political science, economics and education to engineering, law and social work."

Series events and locations follow:

- Government and Public Policy Career Fair, 11 a.m.-1:30 p.m. Wednesday, Nov. 7, in the Gargoyle, Mallinckrodt Student Center. Undergraduate, graduate, and professional students can learn about summer jobs, internships and full-time positions in public policy and in local, regional and national government. More

"Large numbers of baby boomers will retire from local, state and national agencies in the coming years. Public administration requires knowledge and skills from all disciplines"

AMANDA MOORE MCBRIDE

- than 25 agencies will be represented, including the Environmental Protection Agency, Senator Claire McCaskill's office, the Social Security Administration and Citizens for Missouri's Children.

- Justice Services at the Federal Level: Law and Social Work, 4-5 p.m. Wednesday, Nov. 7, Goldfarb Hall, Room 359. J.D./MSWs and MSWs serve in a variety of direct practice roles in the justice system at the federal level. U.S. citizens interested in direct/clinical practice in victim services, trafficking, mitigation, legal defense and probation can learn about these diverse, well-paid career paths.

- U.S. Government Accountability Office Graduate Internships and Careers (conference call), 9-9:45 a.m. Nov. 8 in Goldfarb Hall, Room 132. U.S. citizens interested in research, policy and program evaluation at the national level will hear about an outstanding opportunity to work in consulting within the

federal government. The summer, fall and spring 2008 and 2009 internships for graduate students have a deadline of early winter 2008. About 70 percent of the interns are hired upon graduation.

- Senior Policy Careers: Making an Impact at the National Level, 11 a.m. Nov. 8 in Goldfarb Hall, Room 132. University alumni talk about their career paths in government. Programs to be discussed include the Presidential Management Fellows Program, the Department of Labor MBA Fellows Program and Emerging Leaders Program — all fast track recruiting mechanisms for those with graduate degrees.

- U.S. Department of Education: A Discussion on Policy Process and Careers Impacting Education at a National Level (conference call), noon-1 p.m. Nov. 8 in Goldfarb Hall, Room 132. WUSTL alumna and former Presidential Management Fellow with the U.S. Department of Education (DOE) Maria Worthen will provide an overview of the DOE and lead a discussion on how program analysts, research analysts and policy analysts influence education issues within the purview of the department.

- Careers in Government & Public Policy Roundtable, 3:30-5 p.m. Nov. 9 in the Women's Building Formal Lounge. Learn from and ask questions of professionals working for the government or shaping public policy in this roundtable discussion.

For more information on any of these programs, contact Robin Hattori, program director at the Gephardt Institute, at 935-8628.

Witaya Lecture Series continues Nov. 6

BY JESSICA MARTIN

The Interfaculty Initiative for American Indian Affairs (IIAA) is sponsoring Witaya Lecture Series, a new program that focuses on topics related to American Indian and Alaskan Native studies.

"Witaya" means "coming together as a community" in the Lakota language," said Dana Klar, J.D., director of the Kathryn M. Buder Center for American Indian Studies.

"We hope people will gather around the topics presented in the series," Klar said.

The series began Oct. 30 with a lecture by Victoria Graves, doctoral candidate from the University of Missouri-St. Louis, on "Native Science and Western Science: An Ethnocultural Landscape That Bridges Cultures."

The lectures are free and open to the public.

The remaining lectures are:

- Tuesday, Nov. 6, in Dunker Hall, Room 201, Hurst Lounge. Craig Howe, graduate studies instructor at Oglala Lakota College in Kyle, S.D., will discuss "Approaches to Teaching Lakota Culture."

- Dec. 7 in Brown Hall Lounge. John Kelly, Ph.D., senior lecturer in the Department of Anthropology in Arts & Sciences, will speak on "Cultural Preservation and Policies of Repatriation — Cahokia Mounds, World Heritage Site."

The IIAA is committed to building greater awareness of American Indian culture, values and communities through the advancement of research, teaching and community endeavors.

Additional lectures will be held in the spring. For more information, contact Stephanie Kettler, Buder Center program manager, at 935-5896 or at skettler@wustl.edu.

Notables

Introducing new faculty members

The following are among the new faculty members at the University. Others will be introduced periodically in this space.

Charly Coleman, Ph.D., joins the Department of History in Arts & Sciences as assistant professor with a joint appointment in the Interdisciplinary Project in the Humanities. He earned his bachelor's degree from Trinity University in San Antonio in 1998 and his doctorate from Stanford University in 2005. For the past two years, he has been a Harper Schmidt Fellow in the Society of Fellows in the Liberal Arts at the University of Chicago. The main lines of his research center on the intellectual and cultural history of 18th-century France. In particular, Coleman is interested in the influence of religious thought on a crucial strain of Enlightenment individualism. He will teach courses on the Ancien Regime, the European Enlightenment and the rise of the European state.

Clifton R. Emery, Ph.D., joins the George Warren Brown School of Social Work as assistant professor. He earned a master's degree in women's studies from Dongduk University in Seoul, South Korea, and master's degrees in social service administration and statistics from the University of Chicago and a doctorate in social service administration from the University of Chicago. Before joining the University, Emery served as a research assistant at the National Opinion Research Center and as a statistical consultant for the Project on Youth Mentoring. His research interests focus on the impact of domestic violence on child outcomes and the mediating role of parenting, deviance theory as it relates to causes of domestic violence, policy interventions for violence, the role of social theory in social work and empirical and non-empirical methods for evaluating theories relevant to social work.

Carl Minzner, J.D., joins the School of Law as associate professor. He earned a juris doctorate and a master's degree in international affairs in 2000 at Columbia University. Before joining the University, Minzner served as senior counsel on the Congressional-Executive Commission on China and was an International Affairs Fellow at the Council on Foreign Relations. He also taught law at the Xibe Institute of Politics and Law in Xi'an, China, as a Yale-China Legal Education fellow. Minzner previously practiced intellectual property law in the San Francisco Bay Area and clerked for Raymond Clevenger, judge on the United States Court of Appeals for the Federal Circuit. His published works include articles on citizen petitioning institutions in China and reforms to the regulations governing Chinese civil society organizations.

John Orrock, Ph.D., joins the Department of Biology in Arts & Sciences as assistant professor. He earned his doctorate from Iowa State University in ecology and evolutionary biology as an Environmental Protection Agency Science to Achieve Results (STAR) fellow.

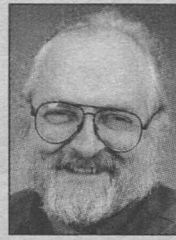
He also was a postdoctoral research associate at the National Center for Ecological Analysis and Synthesis. His research centers around how individual-level behaviors can give rise to population and community-level patterns. His research utilizes a strong experimental approach to evaluate existing ecological theory.

Thomas Sattig, Ph.D., joins the Department of Philosophy in Arts & Sciences as assistant professor. He earned his doctorate in philosophy from Oxford University in 2002. He remained in Oxford for three years as a British Academy Postdoctoral Fellow and a Junior Research Fellow at Brasenose College. Before joining the University, Sattig held a visiting position at the University of California, Los Angeles and a tenure-track position of assistant professor of philosophy at Tulane University. His primary research interests fall in the areas of metaphysics and philosophy of language. He currently works on topics in the metaphysics of material objects.

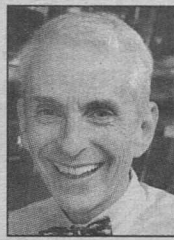
Vincent Sherry, Ph.D., joins the Department of English in Arts & Sciences as professor. He teaches and writes in the fields of modern British and Irish literature. Previously, he has been Distinguished Professor of English at Villanova University and the Pierce Butler Professor of English at Tulane University. He has edited "The Cambridge Companion to the Literature of the First World War" (2005) and several volumes on post-World War II British and Irish Poets for the "Dictionary of Literary Biography" (1984, 1985). He is writing the Blackwell biography of Ezra Pound and a book-length study of English Modernism and pan-European Decadence.

Julie Singer, Ph.D., joins the Department of Romance Languages and Literatures in Arts & Sciences as assistant professor of French. She earned a master's degree and doctorate in Romance studies from Duke University and two bachelor's degrees from the University of Maryland, College Park. She previously was appointed as a visiting assistant professor of Italian at the University of Illinois at Urbana-Champaign. Her primary fields of research include medieval French and Italian lyric, particularly intersections of lyric and medical-scientific discourse, as well as the cultural history of science, medicine and technology.

Ying Xie, Ph.D., joins the Olin Business School as assistant professor of marketing. She earned her doctoral degree from the Kellogg School of Management at Northwestern University. Her recent research focuses on pharmaceutical marketing, customer satisfaction and word of mouth, and consumer behavior in financial decision-making. Before joining the University, Xie was an assistant professor at Rutgers Business School at Rutgers University and an adjunct lecturer at Northwestern University.



Beverley



Gitlin



Groisman



Heuser



Mecham



Piwnica-Worms

Six School of Medicine faculty named AAAS fellows

By BETH MILLER

Six School of Medicine faculty members have been named fellows of the American Association for the Advancement of Science (AAAS), the world's largest general scientific society. The highest honor awarded by AAAS, the rank of fellow is bestowed upon members by their peers in recognition of scientifically or socially distinguished efforts to advance science or its applications.

The Washington University School of Medicine honorees are:

• Stephen M. Beverley, Ph.D., the Marvin A. Brennecke Professor and head of the Department of Molecular Microbiology, was elected to the Section on Biological Sciences for the development and application of molecular genetic tools to the study of how protozoan parasites cause disease.

• Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics, professor of genetics and of pathology and immunology, was elected to the Section on Medical Sciences for distinguished contributions to the field of metals in biology and for groundbreaking discoveries on absorption, metabolism and distribution of metals in health and disease.

• Eduardo A. Groisman, Ph.D., professor of molecular microbiology and Howard Hughes Medical Institute Investigator in Molecular Microbiology, was elected to the Section on Medical Sciences for innovative research investigating mechanisms by which bacteria

modulate expression of their genes in response to environmental stimuli and are able to survive within cells of the host.

• John E. Heuser, M.D., professor of cell biology and physiology, was elected to the Section on Neuroscience for distinguished, groundbreaking contributions in deep-etch and freeze-fracture electron microscopy.

• Robert P. Mecham, Ph.D., the Alumni Endowed Professor of Cell Biology and Physiology, professor of pediatrics and of medicine, was elected to the Section on Biological Sciences for distinguished contributions to the field of elastic fibers, particularly for

analysis of elastic fiber composition and assembly, and the cell biology of elastin.

• Helen M. Piwnica-Worms, Ph.D., professor of cell biology and physiology and of medicine and Howard Hughes Medical Institute Investigator in Cell Biology and Physiology, was elected to the Section on Biological Sciences for distinguished contributions to the field of cell biology, particularly cell cycle regulation and its implications for understanding human cancer.

This year's fellows were announced in the Oct. 26 edition of the journal *Science*, published by the AAAS.

For the Record

In print

Carter C. Revard, Ph.D., professor emeritus of English in Arts & Sciences, has a poem titled "We do like Capistrano, but ..." in the current issue (Vol. 12, No. 2) of *Salamander*, a magazine for poetry, fiction and memoirs. His scholarly essay titled "Oppositional Thematics and Metanarrative in MS Harley 2253, Quires 1-6" was published last month in a collection of essays edited by Wendy Scase of the University of Birmingham. The collection is titled "Essays in Manuscript Geography:

Vernacular Manuscripts of the English West Midlands From the Conquest to the Sixteenth Century" (Brepols, 2007).

Of note

Douglas A. Wiens, Ph.D., professor of earth and planetary sciences in Arts & Sciences, has received a five-year, \$595,000 grant from the National Science Foundation for research titled "IPY: POLNET-Antarctica: Investigating Links Between Geodynamics and Ice Sheets."

Obituary

Tom Miller, professor of radiology, 63

By BETH MILLER

Tom R. Miller, M.D., Ph.D., professor of radiology and of biomedical engineering, died Oct. 3, 2007, at his home in Webster Groves. He was 63.

Miller was a professor and researcher in the Division of Nuclear Medicine at Mallinckrodt Institute of Radiology at the School of Medicine for nearly 31 years.

Miller's research focused on tumor imaging by positron emission tomography (PET) for cervical cancer and prostate cancer. He was the author of more than 85 published papers and the recipient of multiple grants.

"In my estimation, Tom's greatest contribution was as an educator," said Barry Siegel, M.D.,

professor of radiology and of medicine. "He was the program director of our nuclear medicine residency program for the last decade. I am certain he would say that his most satisfying and important activity was the time he spent teaching in lectures, Socratic conferences and at the viewbox.

"He had a gift for making difficult topics easy to understand and had the patience of a saint with his students, whether they were medical students, residents or technologists, or his faculty colleagues," Siegel said.

In June, he received the Society of Nuclear Medicine Presidential Distinguished Service Award for his exemplary leadership and significant contributions to the molecular imaging and nuclear medicine community throughout

his career.

He served as the scientific program chairman of the Society of Nuclear Medicine's annual meetings for four years and was a board member and past chairman of the American Board of Nuclear Medicine.

Miller is survived by his wife Karen; daughter Michelle Miller-Thomas, M.D., a clinical fellow in the Division of Neuroradiology at the School of Medicine; son Daniel; and brother Max.

Funeral services were held Oct. 8 at First Presbyterian Church of Kirkwood. Memorial contributions may be made to the Cancer Research Fund at the Siteman Cancer Center, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, Mo., 63110.

Gift

Holds promise of new treatments, research — from Page 1

begun in 2003, establishing a set of research goals to tackle key medical challenges and creating an administrative structure that enables scientists from different specialties, or disciplines, to cooperate more effectively. The BJC Institute of Health at Washington

University will provide laboratory space for five newly created Interdisciplinary Research Centers of BioMed 21 and two academic departments at the School of Medicine.

"The School of Medicine's researchers are constantly seeking to identify and understand the underlying causes of disease," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "Naturally, our goal is that these endeavors will form the foundation of new treatments

and new cures. Reaching that goal as quickly as possible is the promise of BioMed 21 and the true benefit of the new building. We thank BJC HealthCare for support that will help make this possible."

The five Interdisciplinary Research Centers, which comprise School of Medicine researchers from a wide variety of fields, are devoted to cancer, cardiovascular disease, neurodegeneration, infectious diseases and membrane excitability disorders, which encompass neural, cardiac and other conditions.

Washington People

Ken Kelton's not sure how or when it started, but he got the science bug early.

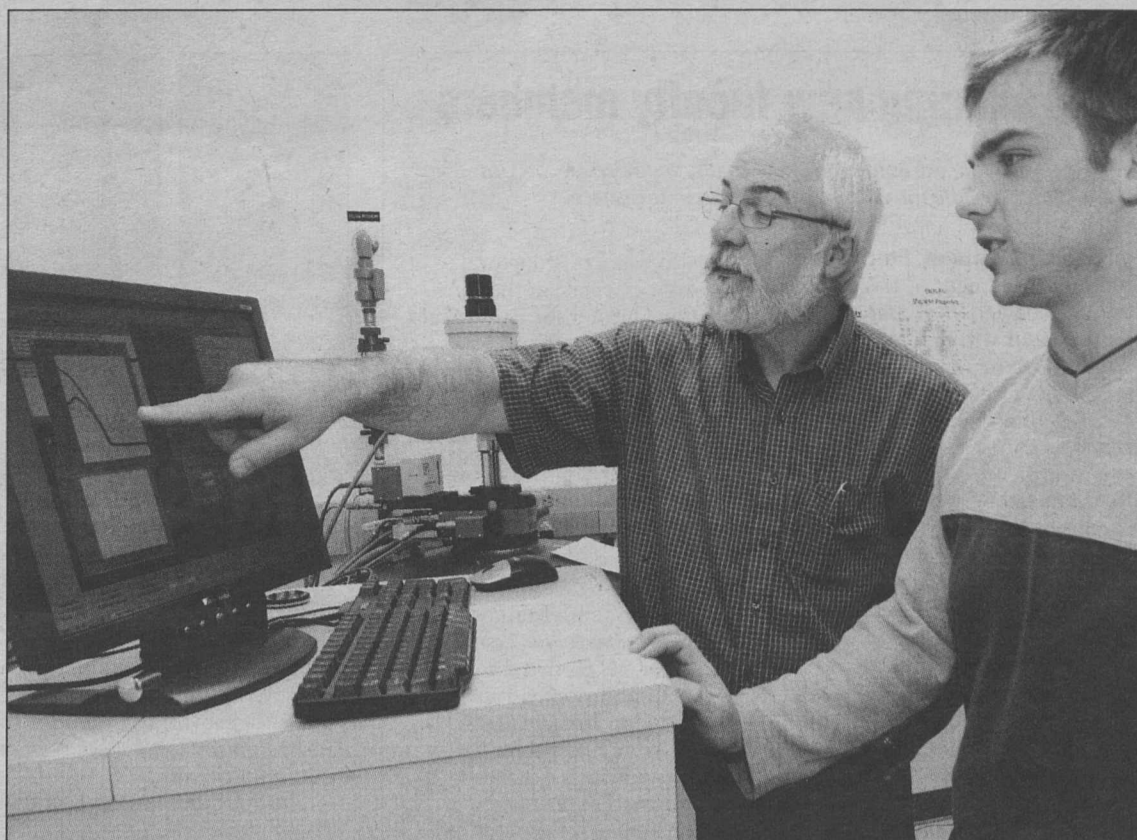
His fascination might have been sparked by the chemistry set his older sister bought him when he was just 5 years old.

And it was later fed by the freedom he had as a young boy growing up in rural Arkansas to experiment with chemistry projects that he admits he might not allow as a parent today.

Kelton recalls with great glee making gunpowder for his sixth-grade science project; the most amazing part was that his teacher actually let him demonstrate it outside to the class.

"I also made rockets and rocket fuel," he says. "I burned the field by our house — my dad had the fire department out I think two or three times. It wasn't until one of my homemade rockets actually did get off the ground and landed on top of the house while it was still burning that he decided that the rockets had to stop."

But his father, John — who, like Kelton's mother, Helen, lacked a high-school education — was a wise man. While he insisted that rocket building had to stop, learning would not.



Kenneth F. Kelton, Ph.D., the Arthur Holly Compton Professor in Arts & Sciences and chair of physics, discusses measurements of the magnetic susceptibility of a complex crystal alloy with Robin Chisnell, a senior physics major in his research group, in a Center for Materials Innovation (CMI) lab in Crow Hall. A charter member of CMI, Kelton and other CMI researchers are working to better understand fundamental processes in nature — such as magnetism — that are the bases for development of increasingly smaller, more specialized novel materials.

BY SUSAN KILLENBERG MCGINN

Making stronger connections

Like his research subjects, Ken Kelton is 'changing phases' as new physics chair

John and Helen wanted their son to have a college education, but because there was no college in Hot Springs, Ark., where they lived, and no way to afford sending him off, they moved to Russellville, Ark., home to Arkansas Polytechnic College (now Arkansas Tech University). They had heard that it was a very good school, and Ken could attend it while living at home.

His parents' sacrifice was not wasted. Four degrees later, including two from Harvard University, Kenneth F. Kelton, Ph.D., today is Washington University's first Arthur Holly Compton Professor in Arts & Sciences and its new chair of the Department of Physics.

'Highly regarded'

Kelton is an expert in a phenomenon called nucleation, which is the most common way that physical systems change from one phase to another — such as the formation of a crystal from a liquid — and is a governing process in nearly all phase transformations.

His book "Nucleation in Physical and Biological Systems," co-written with Professor A. L. Greer at Cambridge University, is scheduled to be published next year by Elsevier. It is a comprehensive review of the phenomenon of nucleation in everything from solids and cells to beer and champagne.

Within the field of materials physics, Kelton has particular in-

terests in the study and production of novel phases such as titanium-based quasicrystals and metallic glasses; experimental and theoretical studies of time-dependent nucleation in condensed systems; investigations of the relationship between developing short-range order in supercooled liquids and nucleation processes; and studies of the potential use of quasicrystals for hydrogen storage.

"Ken is highly regarded by the national and international community of researchers in materials physics," says Patrick C. Gibbons, Ph.D., a WUSTL professor of physics who has known Kelton since 1984 when Kelton came to interview as assistant professor of physics. Kelton joined the physics department in fall 1985 after a two-year postdoctoral fellowship at Harvard. The two have collaborated on projects ever since.

"Most physicists are either experimenters or theorists, but usually not both," Gibbons says. "Ken is an exception in that he has done theoretical work and computer simulations of nucleation and growth processes, usually in amorphous metal alloys that are beginning to crystallize during heat treatments."

And Kelton, who directs the Laboratory for Materials Physics Research, has a special trait, according to Gibbons: "He is able to persuade colleagues that difficult new projects are worth undertaking."

Using an electrostatic levitator — a complex, highly sensitive instrument that Kelton persuaded NASA researchers to move from the Marshall Space Flight Center in Huntsville, Ala., to the Advanced Photon Source at Argonne National Laboratory in Chicago — he led a research team in 2003 that validated a 50-year-old hypothesis explaining how liquid metals resist turning into solids.

The research made a splash in the scientific community, appearing in *Physical Review Letters* and as the cover story for the July 2003 issue of *Physics Today*,

illustrated by a striking photo of a solid drop of metal suspended inside the levitator.

"What we're trying to do is to better understand how phases crystallize, how they change from one phase to the other, because if you can control that, then you can control what's called the microstructure," Kelton says. "If you can control the microstructure — that's how parts of the new phase are put together, how big they are, how they're joined — you can control the properties."

An example of work his research group is doing is a project for the Air Force: "We're trying to look at how you could take aluminum-based metallic glasses and process them to make them into strong materials for airplane applications."

The 'ah-ha moment'

Since taking over as chair in July, he has had to make a great sacrifice of his own — giving up teaching, except for one graduate course, "Materials Physics I."

As science has "just fit" him for as long as he can remember, he also has always enjoyed explaining things to others.

Whether it's been as a third-grader helping the second-graders with their math or reading or as a senior at Arkansas Polytech designing lab work for freshmen or as a master's degree student at the University of Tennessee teaching his first course, Kelton has found showing students the "ah-ha moment" to be "thrilling."

"The most fun is where you're teaching them something, and you can see when you make that connection," he says. "Where they go, 'Oh!' And it puts a piece in the puzzle for them, and they can see how this relates to something else or how they understand this better. That is to me the most exciting time, when you can really see that you've helped them make certain leaps in their own understanding."

Because he has had many mentors along his academic path giving him opportunities to experience the excitement of research and of discovery, Kelton is quick to do the same for his students.

He first invited an undergraduate physics major to do research in his lab in 1987. Philip N. Sabes, Ph.D., an associate professor in the Department of Physiology at the University of California, San Francisco, recalls that ex-

perience.

"Ken was absolutely wonderful as a research mentor," says Sabes, who earned a bachelor's degree in 1989. "He was generous with his time and energy, he was a good teacher, and he gave me excellent opportunities to grow as a student and scientist."

"In my senior year he let me present a talk at the annual American Physical Society meeting — quite a rare thing for an undergrad to do. He did this despite the fact that it was reasonably important work, and there is no doubt he would have presented it better."

"Ken was my first scientific mentor and, in many ways, the best — and I've been in science for over 18 years," Sabes says.

Kelton has served as advisor to 22 graduate students and two postdoctoral scientists. One of those graduate students he advised, along with Gibbons, was Ann M. Viano, Ph.D., associate and J. Lester Crain Professor of Physics at Rhodes College and president of Sigma Pi Sigma, the national physics honor society.

"Ken provides a very encouraging atmosphere and makes himself very accessible but also allows his graduate students to investigate, learn and connect ideas on their own," says Viano, who earned both her master's degree (1994) and doctorate (1996) in physics from WUSTL. "This independence is essential to the development of excellent physicists," she says. "I learned a great deal from Ken — not just how to go about planning and executing important experiments, but how to lead effectively without demeaning or undermining the confidence of those who are still learning. I use this same approach with my own students today."

In his new role as chair, Kelton will be using his skill to lead effectively on a larger scale.

He has a number of goals in mind, with the most important one being strengthening the ties physics already has with departments and making new ties with others.

"Everything I've done throughout my career would be characterized as interdisciplinary," says Kelton. "I see the connections that you make to other disciplines as being critical — I'd very much like to make stronger connections, so I'm reaching out as much as I can."

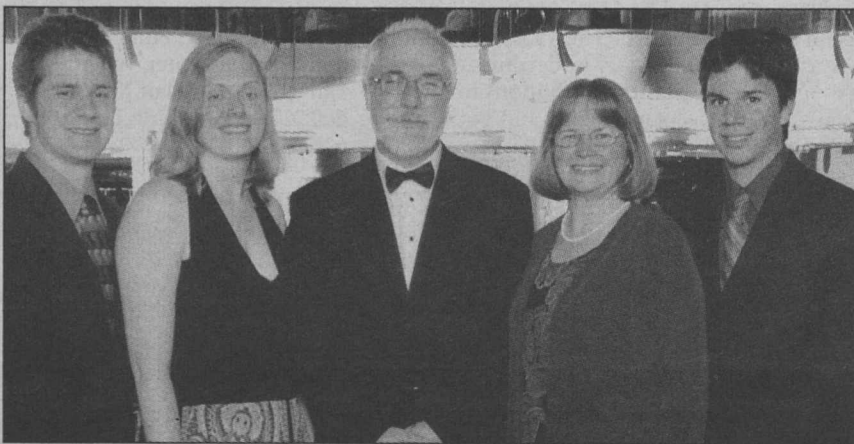
Kenneth F. Kelton

Education: B.S., mathematics, magna cum laude, 1976, Arkansas Polytechnic College; M.S., physics, 1978, University of Tennessee; S.M., applied physics, 1980, and Ph.D., applied physics, 1983, Harvard University

Professional activities: Serves as U.S. regional editor for the *Journal of Non-Crystalline Solids*; sits on editorial board for *Philosophical Magazine Letters*; elected fellow of the American Physical Society in 2005

In print: Some 215 articles in refereed journals, conference publications, review articles, books and proceedings, and book reviews

Interests: Reading, particularly history and philosophy; woodworking; and visiting zoos, including ones in Mexico City; London; Mysore, India; and Cologne, Germany. His favorite? The Saint Louis Zoo.



The Kelton family on a cruise in the North Sea. From left, Frank, 25, who earned a bachelor's degree in anthropology from WUSTL in 2005 and now teaches at Pattonville High School; Angie LaBranche, Frank's fiancée; Ken; his wife, Emily, a retired computer programmer; and James, 17, a senior at University City High School. Ken and Emily, who have been married 31 years, met their first night at Arkansas Polytechnic College at a freshman mixer.

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DAVID KILGER