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Record



Washington University in St. Louis

Sept. 18, 2008

record.wustl.edu



Never too late to celebrate Chancellor Mark S. Wrighton joins the celebration in honoring the 2008 men's national championship tennis team Sept. 13 at halftime of the men's football game against Westminster College. Here, surrounded by the team, he addresses the 2,346 fans who came out to watch the football game and pick up autographs, posters and T-shirts commemorating the title. Festivities also included a presentation of the national championship trophy and comments from head coach Roger Follmer. The Bears finished the season with a school-record 21-4 overall mark and captured their first-ever NCAA Division III national tennis championship, defeating Emory University May 15.

Lung cancer risk five times higher with family or genetic influence

By GWEN ERICSON

A narrow region on chromosome 15 contains genetic variations strongly associated with familial lung cancer, said a study conducted by scientists at School of Medicine and other institutions in the United States and the United Kingdom.

The researchers found a risk more than five times higher for lung cancer in people who have both a family history of the disease and these genetic variations. The risk was not affected by whether the study participants smoked.

Published in the Sept. 13 issue of the *Journal of the National Cancer Institute*, this study is the fourth since April 2008 to implicate this genetic region in the development of lung cancer, and it strengthens the possibility that testing for variations in this region could become a valuable way to warn individuals of their higher risk.

"Many smokers don't get lung cancer, which suggests there is a genetic difference in smokers who do get the disease," said senior author Ming You, M.D., Ph.D., professor of surgery. "We also know that some families have a high incidence of lung cancer. If we can identify the genetic factors linked to lung cancer in such people before they get the disease, we can take steps to help prevent it. This genetic region might be part of the answer."

The leading cancer killer in the United States, lung cancer likely will cause 162,000 deaths in 2008, according to projections. The National Cancer Institute indicates that cigarette smoking is linked to 87 percent of these deaths.

Among research groups studying lung cancer

susceptibility, many other genetic markers of increased risk have been identified, but the area identified in this study on chromosome 15 is the only genetic region that is consistent across many studies, You said.

The three other recent studies that identified these specific genetic variations focused on sporadic lung cancer, but the current study established a strong risk factor in this chromosomal region for the kind of lung cancer that is inherited. Sporadic lung cancer occurs in individuals without a family history of lung cancer, while familial lung cancer, as defined for this study, is lung cancer that occurs in three or more direct blood relatives.

The three recent studies on sporadic lung cancer cited an about 30 percent greater risk for individuals with specific genetic variations in this region of chromosome 15, a much lower risk than found in the current study, You said.

MING YOU

"We also know that some families have a high incidence of lung cancer. If we can identify the genetic factors linked to lung cancer in such people before they get the disease, we can take steps to help prevent it. This genetic region might be part of the answer."

increases the risk when people have the genetic variations on chromosome 15, but two of the studies indicated that smoking adds no increased risk in such people. The increase in risk identified in the current study also was not dependent on whether a person smoked.

"If these genetic variations are associated with a fivefold increased risk, regardless of whether you smoke, that's very important information," said You, a researcher at the Siteman Cancer Center. "It would suggest that specific genes in this region and smoking are independent risk factors for lung cancer, and together they might cause an even greater increase in

See **Cancer**, Page 2

Is bacterium renewable source of energy?

Genome sequencing of cyanobacteria first step in understanding tiny species

By TONY FITZPATRICK

A team of researchers headed by biologists at Washington University has sequenced the genome of a unique bacterium that manages two disparate operations — photosynthesis and nitrogen fixation — in one little cell during two distinct cycles daily.

Himadri B. Pakrasi, Ph.D., the George William and Irene Koechig Professor of Biology in Arts & Sciences and professor of energy in the School of Engineering & Applied Science, spearheaded the drive to sequence the genome of *Cyanothece* 51142, a species that has the ability to produce ethanol and hydrogen. It is the first step in understanding the workings of a bacterium that someday could become an inexpensive renewable energy source.

Cyanobacteria are the only known bacteria to have a circadian clock. By day, cyanobacteria cells increase gene expression for photosynthesis and sugar production; at night, they moonlight, ramping up gene expression that governs energy metabolism, nitrogen fixation and respiration.

Pakrasi and his collaborators found the presence of a rare linear chromosome in the organism's genome, a first in cyanobacteria.

Further examination revealed the chromosome to be 430 kilobases long and containing a cluster of nine genes that code for enzymes involved in pyruvate metabolism, which is the basis that allows *Cyanothece* 51142 to produce lactate and other important compounds.

Cyanothece 51142 has one large circular chromosome, the linear chromosome and four small plasmids, which are DNA found outside a chromosome capable of replicating independently.

"This is the first time anything like this has been found in photosynthetic bacteria," Pakrasi said. "It's extremely rare for bacteria to have a linear chromosome. Nearly 100 percent of them do not. Now, we

have the genome of this organism, which gives us a complete picture of everything that can possibly happen in this cell. The way the cell prospers, multiplies and dies is all decided in the genome.

"This is the benchmark, the prototype, for these cyanobacterial species. Now, we can go back to this complete picture and compare its brother and sister organisms to find their talents and deficiencies. That's comparative genomics," Pakrasi said.

Results were published online
See **Energy**, Page 6



Pakrasi

Vice Presidential Debate

Preparations under way for Oct. 2

Access to campus, Athletic Complex, parking to be affected at various times

By JESSICA DAUES

Those in the habit of a daily workout in WUSTL's Athletic Complex will have to make alternate plans for the week leading up to and after the vice presidential debate on campus Oct. 2.

As part of the University's preparations for the debate, the Athletic Complex will close at 11 p.m. Wednesday, Sept. 24. The exercise equipment typically housed in the Athletic Complex will be moved Sept. 25 to make room for the amenities needed for

the debate.

The tentative reopening date for most of the Athletic Complex is Oct. 6.

"Whether much of the Athletic Complex can reopen by Oct. 6 depends on the progress of the tear-down after the debate," says Andrew Koch, facility manager for the Athletic Complex.

The Rec Gym likely will remain closed until Oct. 8. After that date, the entire complex should be back to business as usual, Koch says.

While the complex is closed,

See **Debate**, Page 6

Retirees honored at Whittemore House luncheon

By JESSICA DAUES

Frank Reed has witnessed the evolution of the School of Medicine's Cardiovascular Division firsthand in his 38 years as an employee.

"When I started, if you lived through a heart attack, you were in the hospital for two weeks," Reed said. "Now, it's only two days."

Reed was hired in 1969 as a cardiac catheter lab technician. Then, his division totaled 10 people and completed about 10 cardiac catheterizations a week, including pediatrics. Reed also had a two-and-a-half-week-old son, Todd.

Today, the division consists of more than 200 people and performs an average of 25 procedures per day, Reed said. Reed, who retired last March, now has a 9-year-old granddaughter, Evie.

Reed was one of 73 employees who retired from the University this past year. He joined 26 other retirees, along with the retirees' family and friends, Sept. 9 for a celebratory luncheon hosted by Chancellor Mark S. Wrighton at Whittemore House.

Each retiree in attendance received a walnut plaque featuring the University seal and the number of years of his or her service.

Presenting the plaques were Wrighton; Barbara A. Feiner, vice chancellor for finance; Mahendra R. Gupta, Ph.D., the Geraldine J. and Robert L. Virgil Professor of Accounting and Management and dean of the Olin Business School; B.J. Johnston, associate dean of University Libraries; Ralph S. Quatrano, Ph.D., the Spencer

T. Olin Professor and interim dean of Arts & Sciences; Gruia-Catalin Roman, Ph.D., professor and chair of the Department of Computer Science & Engineering in the School of Engineering & Applied Science; Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine; Henry S. Webber, executive vice chancellor for administration; and Ann B. Prenatt, vice chancellor for human resources.

"In the past four decades, Washington University has become a much stronger and certainly a much more visible, popular place — a University that has not only a great impact in St. Louis but also around the world," Wrighton told the retirees. "This came about because great people like you have been contributing enormously to the advancement of Washington University."

"I want to thank each of you for the great work that you have done during your time here," Wrighton said. "It takes many people with many different talents to contribute to the building of a university of such quality and impact."

Special recognition and baskets of flowers were given to the three retirees attending the luncheon who had the greatest number of years of service.

These retirees were Reed (Cardiovascular Division, 38 years), Otha Overholt (Computing Facilities, 36 years) and Edward Stevens (Maintenance Operations, 35 years).

The 73 retirees contributed a total of 1,371 years of service to the University.



Chancellor Mark S. Wrighton hosted a luncheon to celebrate the contribution of 73 recent retirees to the University. The retirees attending the luncheon with the greatest number of years of service — (second from left) Edward Stevens (Maintenance Operations, 35 years), Otha Overholt (Computing Facilities, 36 years) and Frank Reed (Cardiovascular Division, 38 years) — each received a basket of flowers.

Retirees and their lengths of service

Arleen Althardt (6 years); Prosperidad Amargo (21 years); Rose Austin (17 years); Audrey Bathune-Howard (12 years); Sandra Blaylock (30 years); Barbara Bomkamp (12 years); Barry Brunson (18 years); Karen Busch (18 years); Shi-Rong Cai (12 years); Dennis Callahan (32 years); Katherine Cavaletti (7 years); Brenda Clark (8 years); Rodelio Cusi (15 years); Mary Debenedetti (20 years); Rita Drochelman (19 years); Mary Eichenseer (22 years); Donald Flacke (23 years); Margaret Fuller (24 years); Mary Gaines (18 years); Tatiana Gorodinsky (12 years); Michael Grayson (10 years); Judy Growe (9 years); Lee Hanson

(25 years); Mary Harmon (9 years); Thelma Harris (31 years); Rebecca Hauk (9 years); Ellen Haynes (11 years); Joan Heins (24 years); Roxanna Herrick (16 years); Barbara Hill (25 years); Dolores Holdenried (10 years); Karen Hoops (20 years); Susan Horstman (23 years); Robert Horton (16 years); Herbert Huth (9 years); Ricki Kibby (15 years); Elaine Knot (19 years); Stephen Kohler (20 years); Annette Kyles (32 years); Joan Lange (22 years); Pao-Chu Ling (20 years); Lou Lucas (10 years); Alan Mader (26 years); Robert Mahurin (24 years); Barbara Massello (20 years); Cary McConnell (10 years); Jo Ann Metz (33 years); Edward Moehl (10 years); Ling Munsell (6 years);

Paul Norman (20 years); Sharon Oakes (7 years); Martin Oberfeld (27 years); Sharon O'Neill (8 years); Patricia Osborne (29 years); Otha Overholt (36 years); Suzanne Owens (9 years); Elizabeth Peters (24 years); Frank Reed (38 years); Constance Restelli (18 years); Raymond Russell (13 years); Lynn Schwander (17 years); Edward Stevens (35 years); Sally Stewart (26 years); Barbara Thomas (24 years); Judith Tollett (10 years); Steven Valli (18 years); Martha Vicente (19 years); Trudy Warner (34 years); Barbara West (20 years); Paula West (24 years); Deborah White (20 years); Donna Zoldi (9 years); and Elaine Zuzack (26 years).

Have an opinion about politics? Enter this contest

By NEIL SCHOENHERR

Students are invited to show their creativity in this election season by entering the Make it Clear multimedia competition, a collaboration between the St. Louis Post-Dispatch and the Vice Presidential Debate Programming Committee.

The Make It Clear competition is one of several activities planned as part of the I Vote event series, designed to engage the University community in the electoral process.

To enter, students should address the following prompt: "You have five minutes one-on-one with the next would-be president of the United States. Write, describe, express or otherwise show what you would say or what would transpire."

Submissions are due by noon Oct. 1 and can be e-mailed to the Gephardt Institute for Public Service at gephardtinstitute@wustl.edu.

The competition is open to

the community at large, too, and a number of finalists will be posted on the St. Louis Post-Dispatch Web site. The public then will be able to vote for their favorite entries.

Winners will be announced Oct. 12. The Vice Presidential Debate Program Planning Committee will award \$100 each to the top two WUSTL students. Community members will receive recognition from the St. Louis Post-Dispatch.

The competition rules are:

- Refrain from using anything obscene or offensive;
- Do not exceed 500 words or five minutes of video. If a submission is a work of art or other visual piece, it must be reproduced or shown in a format that can be posted on the Internet;
- If utilizing music, images, etc., please note rules governing the use of copyrighted work.

For more information, e-mail Robin Hattori, program director of the Gephardt Institute for Public Service, at rhattori@wustl.edu.

Cancer

These genes play roles in cell life and death
— from Page 1

lung cancer risk."

The researchers looked at 194 people with familial lung cancer and compared their genetic profiles with 219 people over age 60 with no history of lung cancer.

The research group found several genetic variants, or SNPs, with a strong association to familial lung cancer on chromosomes

1, 3, 6, 9, 12 and 20, but a cluster of SNPs on the long arm of chromosome 15 had the strongest link to the disease. These genetic variants were found much more often in the study subjects with lung cancer. The statistical analysis of the data suggests that people with a family history of lung cancer and the variants on both copies of chromosome 15 have a 5.7- to 7.2-fold higher risk for developing lung cancer compared with the control group.

The chromosomal region that contains the high-risk-associated variations is the site of several

known genes, including three that code for proteins implicated in nicotine addiction. That connection ties the genes to lung cancer associated with smoking, but some evidence also exists that the genes are directly involved in lung cancer development.

"These genes play roles in cellular proliferation and cell death," You said. "And they are active in lung cancer tumors. More research will be needed to fully delineate the part they play in lung cancer and whether they will be good targets for cancer therapies in the future."

International programs seek volunteers

By NEIL SCHOENHERR

Have you ever wanted to explain the intricacies of American football to someone who knows nothing about it? Would you like to show St. Louis to someone who never has been here? Are you interested in learning about other cultures and, in the process, perhaps learning more about your own?

If so, the Office for International Students and Scholars is looking for you. The office is seeking volunteers to participate in a pair of community-connected programs that promote international friendships and further cross-cultural awareness.

The Host Family program is designed to advance the cultural exchange between international students and local volunteers. Families get together with their student or students once a month for dinners, trips to the theater, movies, sporting events or sightseeing. Host families can include single adults, single parents, retirees and families with or without children.

Host families do not provide living accommodations.

However, they do help temper the loneliness international students face living and studying so far from home. They also provide a firsthand view of life in the United States.

The Speak English With Us program matches community volunteers with international students, faculty and researchers from both the Danforth and Medical campuses who want to improve their understanding of the English language and culture.

Although WUSTL offers courses such as English as a Second Language, many of these students have an additional desire to improve their everyday, practical English. They agree to meet at a mutually convenient time and

place, usually once a week for about an hour.

Volunteers are not required to be trained teachers or have any special language skills.

The demand for host families and Speak English With Us volunteers continues to grow as more and more international students come to the University to study. While the international student body includes students from more than 100 different nations, the majority of applicants to these programs are graduate students from China, Taiwan and Korea.

For more information on these programs, call the Office for International Students and Scholars at 935-5910.

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Associate Vice Chancellor Steven J. Givens
Executive Editor Susan Killenberg McGinn
Editor Leslie Gibson McCarthy
Associate Editor Neil Schoenherr
Assistant Editor Jessica Daues
Medical News Editor Beth Miller
Calendar Coordinator Angela Hall
Print Production Carl Jacobs

News & Comments
(314) 935-5293
Campus Box 1070
record@wustl.edu

Medical News
(314) 286-0119
Campus Box 8508
millerbe@wustl.edu

Calendar Submissions
Fax: (314) 935-4259
Campus Box 1070
recordcalendar@wustl.edu

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School of Medicine Update

Genetic mutations linked to aggressive brain tumor

By CAROLINE ARBANAS

School of Medicine scientists, working as part of a large-scale federally funded research collaboration, have discovered new genetic mutations and molecular pathways underlying glioblastoma, the most common form of brain cancer and the most aggressive.

The first results of this comprehensive genetic study were published Sept. 4 in the advance online edition of *Nature*. The findings lay the foundation for developing new ways to diagnose and treat the deadly disease.

"This is extremely exciting," said Richard K. Wilson, Ph.D., director of the Genome Sequencing Center. "This is exactly why we sequenced the human genome — so that we would have a reference point for looking at individual human genomes from people who have a disease like cancer to try to understand what's gone wrong. Only then can we start to think about how to use that information to better diagnose their disease, delineate their cancer subtype and

identify more targeted therapies."

The researchers identified numerous genetic mutations involved in glioblastoma, including three previously unrecognized mutations that occur frequently, and defined core molecular pathways that are disrupted. Among the most exciting results is an unexpected observation that points to a potential mechanism of resistance to a common chemotherapy drug used for brain cancer.

More than 21,000 new cases of brain cancer are predicted in the United States this year, with more than 13,000 people likely to die from the disease. Most patients with glioblastoma die of the disease within 14 months of diagnosis.

The scientists, all part of The Cancer Genome Atlas (TCGA) Research Network, analyzed the complete sets of DNA, or genomes, of tumor samples donated by 206 patients with glioblastoma. The work complements and expands upon a parallel study by Johns Hopkins researchers of 22 glioblastoma tumors, which was published Sept. 4 in *Science*.

School of Medicine scientists brought

their experience to the project by formulating the sequencing strategy, contributing tumor sequence data and developing the computer software and tools to analyze the resulting genetic data.

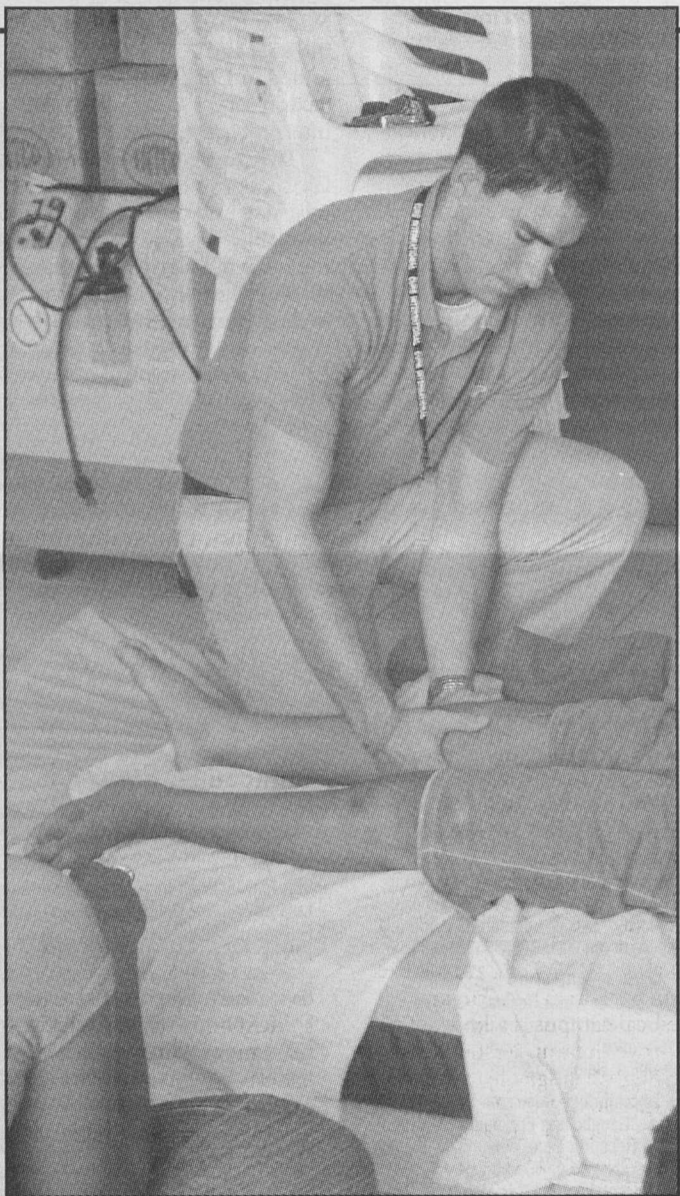
Wilson likened finding the genetic changes involved in glioblastoma to looking for a needle in a haystack.

"All humans have considerable DNA variations at the level of the genome, and that is completely normal," Wilson said. "We had to find the few DNA base changes — the needles — linked to glioblastoma in a haystack of 6 billion bases of DNA that make up the full complement of genetic material in humans."

Like most cancers, glioblastoma arises from changes that accumulate in cells' DNA over the course of a person's life — changes that may eventually lead to the cells' uncontrolled growth. However, until recently, scientists have understood little about the precise nature of these DNA changes and their impact on key biological pathways that are important to the development of new interventions.

In the *Nature* paper, the TCGA Research Network describes the interim results of its analyses of glioblastoma, the first type of cancer to be studied as part of the research collaboration. The pioneering work integrated data, including small changes in DNA sequence, known as genetic mutations; larger-scale changes in chromosomes, known as copy number variations and chromosomal translocations; the levels of protein-coding RNA being produced by genes, known as gene expression; patterns of how certain molecules, such as methyl groups, interact with DNA, known as epigenomics; and information related to patients' clinical treatment.

The TCGA team combined sequencing data with other types of genome characterization information to generate an unprecedented overview that delineated three core biological pathways potentially involved in glioblastoma. The pathway mapping promises to be informative for researchers developing therapeutic strategies aimed at specific cancers or that are better tailored to each patient's particular subtype of tumor.



A healing mission Josh VanRiper, president of the Program in Physical Therapy's Class of 2010, performs physical therapy on a young boy during a recent trip to the Dominican Republic by six students in the Program in Physical Therapy. The students worked in Santo Domingo at the Cure Center for Orthopedic Specialties, a pediatric hospital that provides orthopedic surgeries for low-income children and some adults. The team provided physical therapy services; helped recent surgery patients regain mobility, get out of bed and train on crutches, walkers and other assistive devices; made follow-up visits to past orthopedic patients' homes; and observed surgeries.

Sign up for fall Mini-Med School

Registration is open for the School of Medicine's Mini-Medical School, now in its 10th year. This is an excellent opportunity to learn about medicine and surgery from the School of Medicine faculty.

Mini-Medical School I will be held 7-9 p.m. Tuesdays from Sept. 23-Nov. 18. Topics include heart disease and treatment of arrhythmias, colorectal cancer, cerebral palsy, sickle cell disease, Parkinson's disease, diabetes, brain tumors, multiple sclerosis, emergency medicine and high-tech surgery.

Mini-Med School III will be held 7-9 p.m. Thursdays from Sept. 25-Nov. 20. Participants will hear from faculty and their patients who share their stories. Both courses include tours, labs and a syllabus. The course is open to anyone 15 years old and up and costs \$125.

To register, call 362-6585 or visit minimed.wustl.edu.

Assessing cardiovascular risk for HIV patients

Heart attack risk 70 percent to 80 percent higher

By JIM DRYDEN

As new drugs have dramatically reduced death rates among people with HIV infection, those patients have developed other complications, such as cardiovascular disease, at very high rates.

Over the summer, several Washington University researchers convened with other scientists from around the country for a State of the Science Conference to discuss ways to decrease cardiovascular risk and increase the quality of care for patients living with HIV/AIDS. The conference was a joint effort of the American Heart Association and the American Academy of HIV Medicine.

Among other key findings, the group reported that the risk for heart attack is 70 percent to 80 percent higher among people with HIV compared with those who do not have HIV. They also reported that having HIV is associated with increases in two important risk factors for heart disease: low levels of HDL cholesterol (high-density lipoproteins, the so-called "good" cholesterol) and elevated levels of triglycerides.

Kevin E. Yarasheski, Ph.D., professor of medicine, of cell biology and physiology and of

physical therapy, said the conference laid the groundwork for future research. The scientists noted that many HIV-infected patients have cholesterol abnormalities, insulin resistance, diabetes, excess abdominal weight and other risk factors, which may be side effects of antiretroviral medications, effects of the virus or both.

"Some of this may be influenced by the HIV drug regimen, but some may be caused by the virus itself," Yarasheski said.

W. Todd Cade, Ph.D., assistant professor of physical therapy; Victor G. Davila-Roman, M.D., professor of medicine; Paul Hruz, M.D., Ph.D., assistant professor of pediatrics; Turner Overton, M.D., assistant professor of medicine; Linda R. Peterson, M.D., associate professor of medicine; and Dominic Reeds, M.D., assistant professor of medicine, were the other WUSTL researchers who participated. Yarasheski said future research must determine what happens at the molecular level that causes these increases in risk.

"Often the risk factors are the same," he said. "Diabetes, insulin resistance and obesity cause problems for people who aren't HIV positive, too. But the evidence suggests that having HIV as well

as these cardio-metabolic risk factors is a bit more risky than not having HIV and still being obese or diabetic. The hypothesis we're going to test is whether and how HIV, by itself, adds risk."

Yarasheski said because HIV is a chronic infection, it increases inflammation in the body, and over the course of months and years, inflammation is known to be bad for the heart and the blood vessels. That may be one reason for increased risk in HIV-infected people. He said it's also possible that the virus causes the heart to use energy differently. But those ideas require further study. One strategy, however, that could dramatically lower risk immediately involves tobacco.

"Finding ways to curtail smoking in the HIV population would probably have the biggest impact on reducing cardiovascular disease," he said. "Forty to 50 percent of the people with HIV use tobacco, and tobacco is a major risk factor. So smoking cessation may be step No. 1. Then we can start thinking about the other factors that increase cardiovascular risk in these patients."



Yarasheski

Stem cells may boost heart disease treatment

By MICHAEL C. PURDY

Mouse embryonic stem cells can work to build the heart, potentially moving medical science a step closer to a new generation of heart-disease treatments that use human stem cells, School of Medicine research shows.

The scientists reported in a recent issue of *Cell Stem Cell* that the *Mesp1* gene locks mouse embryonic stem cells into becoming heart parts and moves them to the area where the heart forms. Researchers are now testing if stem cells exposed to *Mesp1* can help fix damaged mouse hearts.

"This isn't the only gene we'll need to get stem cells to repair damaged hearts, but it's a key piece of the puzzle," said senior author Kenneth Murphy, M.D., Ph.D., professor of pathology and immunology and a Howard Hughes Medical Institute investigator.

"This gene is like the first domino in a chain: The *Mesp1* protein activates genes that make other important proteins, and these in turn activate other genes and so on. The end result of these falling genetic dominoes is your whole cardiovascular system."

Embryonic stem cells have created considerable excitement because of their potential to become

almost any specialized cell type. Scientists hope to use stem cells to create new tissue to treat diseases and injuries. But first they have to learn how to coax them into becoming specialized types such as nerve cells, skin cells or heart cells.

"That's the challenge to realizing the potential of stem cells," Murphy said. "We know some things about how the early embryo develops, but we need to learn a great deal more about how factors like *Mesp1* control the roles that stem cells assume."

Using mouse embryonic stem cells, Murphy's lab showed that *Mesp1* starts the development of the cardiovascular system and that the gene's protein helps generate an embryonic cell layer known as the mesoderm, from which the heart, blood and other tissues develop. *Mesp1* also triggers the creation of a type of cell recently recognized as the heart's precursor.

They also found that stem cells exposed to the *Mesp1* protein are locked into becoming one of three cardiovascular cell types: endothelial cells, which line the interior of blood vessels; smooth muscle cells, which are part of the walls of arteries and veins; or cardiac cells, which make up the heart.

"After they are exposed to *Mesp1*, the stem cells don't make any decisions for several days as to which of the three cell types they're going to become," Murphy said. "The cues that cause them to make those commitments come later from proteins from other genes."



Murphy

University Events

Sweet Honey in the Rock begins 2008-09 OVATIONS! Series

BY LIAM OTTEN

Grammy Award-winning a cappella ensemble Sweet Honey in the Rock will launch the Edison Theatre OVATIONS! Series with a special one-night-only performance 8 p.m. Sept. 27.

Sweet Honey in the Rock was founded in 1973 by Bernice Johnson Reagon, Ph.D., then a graduate student of history at Howard University and vocal director of the D.C. Black Repertory Theater Company.

A native of Georgia, Reagon was the daughter of a Baptist preacher and, in the 1960s, had traveled across the country as a charter member of the Student Nonviolent Coordinating Committee Freedom Singers, a civil rights group. Her new, all-female quartet took its name from the first song they learned, "Sweet Honey in the Rock," a religious parable based on Psalm 81:16, which describes a land so rich that honey pours from the rock. (The group also saw the story as a metaphor for African-American women: sweet as honey, strong as a rock.)

After performing at a University of Chicago folk festival in 1975, Sweet Honey was signed to Flying Fish Records and the following year released its self-titled debut. Featuring soulful harmonies and intricate rhythms, the album



The a cappella group Sweet Honey in the Rock has been singing its soulful harmonies and intricate rhythms since 1973.

was steeped in the music of the civil rights movement and the African-American church. Tracks ranged from traditional hymns and bluesy love songs to an adapted Langston Hughes poem and the politically charged "Joanne Little," which Reagon wrote about a North Carolina woman who'd been assaulted by her white jailer.

"We are warriors," Reagon

wrote in the liner notes to the group's 20th anniversary album, "Still on the Journey" (1993). "Our songs' sounds and lyrics give us stance — make clear the ground we hold. We name through our singing the territory of the expanding community we sound. When you see our songs, you see the tip of the mountain upon which we stand and it is solid

ground."

Over the years, Sweet Honey has continued to expand its musical horizons, combining gospel and spiritual roots with jazz, rap, reggae, hip hop, African chants and contemporary rhythm and blues. The group has released more than a dozen albums and won two Grammy Awards — for their version of Leadbelly's "Grey

Goose," from the compilation "Folkways: A Vision Shared" (1988) and for "Still the Same" (2000), a children's album that also received the Silver Award from the National Association of Parenting Publications.

Sweet Honey also has released a pair of DVDs: "Singing for Freedom" and "Raise Your Voice" (both 2005). In 1993, Reagon wrote a history of the group, "We Who Believe in Freedom: Sweet Honey In The Rock, Still on the Journey." Their most recent recording is "Experience 101," a buoyant collection of call-and-response children's songs that celebrate the joys of learning.

Though Reagon retired in 2004, Sweet Honey continues to record and perform internationally. The current six-woman lineup features original members Carol Maillard and Louise Robinson, along with Ysaye Maria Barnwell, who joined in 1979; Nitanju Bolade Casel, who joined in 1985; and Aisha Kahlil, who joined in 1981. Shirley Childress Saxton serves as sign language interpreter.

Tickets are \$20 for Washington University students; \$28 for faculty, staff and seniors; and \$32 for the public. Tickets are available at the Edison Theatre Box Office and through all MetroTix outlets.

For more information, call 935-6543 or visit edisontheatre.wustl.edu.

Harmony Without Triads • Clean Water • Ethics of Diet

"University Events" lists a portion of the activities taking place Sept. 18-Oct. 1 at Washington University. Visit the Web for expanded calendars for the Danforth Campus (news-info.wustl.edu/calendars) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

"Birth of the Cool: California Art, Design and Culture at Midcentury." Through Jan. 5. Kemper Art Museum, 935-4523.

"Bold Strokes and Finesse: The Stage Designs of John Ezell." Through Nov. 22. Des Lee Gallery, 1627 Washington Ave. 621-8537.

Film

Tuesday, Sept. 30

7 p.m. Jewish, Islamic and Near Eastern Film Series. North Africa/Middle East Film Series. "Incha'Allah Dimanche." Yamina Benguigui, dir. Brown Hall, Rm. 118. 935-8567.

Lectures

Thursday, Sept. 18

Noon. Genetics Seminar. "Genetics and 'Race': Biomedical Implications." Lynn B. Jorde, prof. of human genetics, The U. of Utah School of Medicine. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. Chemistry Lecture. Annual Joseph W. Kennedy Memorial Lectures. "Chemistry on the Brain: Understanding the Nicotine Receptor." Dennis A. Dougherty, prof. of chemistry, Calif. Inst. of Technology. (3:30 p.m. coffee, Lab Sciences Bldg., Rettner Gallery.) Lab Sciences Bldg., Rm. 300. 935-6530.

4 p.m. The Woman's Club of Washington University Meet The Leaders Symposium. "The Role of Women in the Political Process." Vivian Evelhoff, exec. dir., U. of Mo.-St. Louis; Bunny Burson, artist; and Denise Lieberman, lecturer in political science. Co-sponsored by the Gephardt Institute for Public Service, Danforth University Center, Formal Lounge. 659-8491.

6:30 p.m. Sam Fox School Public Lecture Series. Jana Hawley, prof. of apparel textiles

& interior design, Kan. St. U. Steinberg Aud. 935-9300.

Friday, Sept. 19

9:15 a.m. Pediatric Grand Rounds. Annual Strunk Family Lecture. "Epithelial Genes in Childhood Asthma." Neeru Hershey, prof. of pediatrics, U. of Cincinnati College of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Chemistry Lecture. Annual Joseph W. Kennedy Memorial Lectures. "Using Unnatural Amino Acids to Probe Neuroreceptors and Ion Channels." Dennis A. Dougherty, prof. of chemistry, Calif. Inst. of Technology. (Coffee served.) McMillen Lab., Rm. 311. 935-6530.

11 a.m. Energy, Environmental & Chemical Engineering Seminar Series. Annual Ryckman Lecture. "Mississippi River Water Quality and the Clean Water Act: Progress, Challenges, Opportunities." David Dzombak, prof. & assoc. dean of civil & environmental engineering, Carnegie Mellon U. Lopata Hall, Rm. 101. 935-5548.

Noon. Cell Biology & Physiology Seminar. "The Molecular Language of Carbohydrates: A New Level of Hormonal Regulation." Jacques Baenziger, prof. of pathology & immunology, McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

Noon. Neurology Neurorehabilitation Grand Rounds. "Neuroplasticity and Rehabilitation." Leonardo Cohen, senior investigator in human cortical physiology, National Inst. of Neurological Disorders and Stroke. Occupational Therapy Aud. 440-5743.

4 p.m. Dept. of Music Lecture Series. "Harmony Without Triads." Robert Snarrenberg, asst. prof. of music. Music Classroom Bldg., Rm. 102. 935-4841.

7:30 p.m. Saint Louis Astronomical Society Meeting. "Star Formation in the Snake's Tail." Bruce Wilking, prof. of physics & astronomy, U. of Mo.-St. Louis. McDonnell Hall, Rm. 162. 935-4614.

Saturday, Sept. 20

7:30 a.m.-2 p.m. Siteman Cancer Center CME Course. "Advances in Diagnosis and Treatment of Hematologic Malignancies." Cost: \$130 for physicians, \$110 for allied health professionals. Four Seasons Hotel, Lumiere Place Casino & Hotels, 999 Second Street. (4:30 p.m. physician reception.) To register: 362-6891.

1 p.m. Kemper Art Museum Lecture. "Birth of the Cool: California Art, Design and Culture at Midcentury." Elizabeth Armstrong, chief curator, Orange County

Museum of Art. Steinberg Aud. 935-4523.

6:30 p.m. Sam Fox School Public Lecture Series. Elizabeth Armstrong, curator of contemporary art, Minneapolis Inst. of Arts. Steinberg Aud. 935-9300.

Monday, Sept. 22

8 a.m.-5 p.m. St. Louis STD/HIV Prevention Center CME Course. "STD Laboratory Methods." (Continues 8 a.m.-noon Sept. 23.) Cost: \$75. For location and to register: 747-1522.

11 a.m. Electrical & Systems Engineering Seminar. "Soft MIMO Detection at Fixed Complexity." Erik G. Larsson, Linköping U., Sweden. Bryan Hall, Rm. 305. 935-5565.

Noon. Work, Families and Public Policy Brown Bag Seminar Series. "Strategic Parenting, Birth Order and School Performance." Juan Pantano, asst. prof. of economics. Seigle Hall, Rm. 348. 935-4918.

4 p.m. Immunology Research Seminar Series. "Genetic and Epigenetic Control of Antigen Receptor Gene Assembly." Eugene Oltz, assoc. prof. of microbiology & immunology, Vanderbilt U. School of Medicine. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

Fazzari to deliver timely talk on economy for Assembly Series

BY BARBARA REA

The current economic and financial crisis didn't happen overnight. It has been building for the past 20 years, its impact made deeper by Americans who racked up more and more consumer debt, according to economist Steven Fazzari, Ph.D., professor of economics in Arts & Sciences and associate director of the Murray Weidenbaum Center on the Economy, Government, and Public Policy.

Fazzari will discuss the conditions that have contributed to the economic turmoil and share his research regarding what's in store for the future in his Assembly Series presentation, "The U.S. Economy in the Consumer Age" at 4 p.m. Wednesday, Sept. 24, in the Women's Building Formal Lounge.

His conclusion will include a discussion of how, if at all, the major policy steps proposed by the presidential candidates address the deepening

recession.

Fazzari has taught economics at WUSTL since 1982, chairing its department for six years. His teaching and research focus on the financial determinants of investment and research and development spending by U.S. firms and the foundations of Keynesian macroeconomics.

Widely regarded for his classroom presentations, Fazzari has received the 2002 Missouri Governor's Award for Teaching Excellence, and, in 2007, he received the Emerson Excellence in Teaching Award and the University's Distinguished Faculty Award.

At WUSTL, he has been recognized for his teaching by the Inter-Fraternity Council and the Arts and Sciences Council and received special recognition for excellence in mentoring graduate students. He has served in advisory positions that include the Federal Reserve Bank of St. Louis.

Fazzari earned bachelor's and doctorate degrees from Stanford University.

The event is free and open to the public. For more information on this Assembly Series program or others, visit assemblyseries.wustl.edu or call 935-4620.



Fazzari

Tuesday, Sept. 23

4 p.m. I-CARES Seminar. "Where in the World Will Our Energy Come From?" Nathan Lewis, prof. of chemistry, Caltech. Co-sponsored by the Dept. of Energy, Environmental & Chemical Engineering. Lab Sciences Bldg., Rm. 300. 935-5548.

Wednesday, Sept. 24

9:30 a.m. Missouri Court of Appeals Special Session. Anhueter-Bush Hall, Bryan Cave Moot Courtroom. 935-6430.

Noon. Mallinckrodt Institute of Radiology Lecture. Annual G. Leland Melson Visiting Professorship and Lecture. "Update on Ectopic Pregnancy." John S. Pellerito, chief, div. of ultrasound, CT & MRI, North Shore U. Hosp. Scarpellino Aud., 510 S. Kingshighway Blvd. 362-2866.

4 p.m. Assembly Series. Steven Fazzari. Women's Bldg. Formal Lounge. 935-5285.

4 p.m. Physics Colloquium. "Imaging and Modeling Synchronization in Seizures." Sonya Bahar, dir., center for neurodynamics, U. of Mo.-St. Louis. (3:30 p.m. coffee, Compton Hall, Rm. 245.) Crow Hall, Rm. 204. 935-6276.

Thursday, Sept. 25

Noon. Genetics Seminar. "Sensory Roles for Epithelial Sodium Channels (Deg/ENaC) in Drosophila." Yehuda Ben-Shahar, asst. prof. of biology, McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

4 p.m. Chemistry Lecture. "Luminescent Quantum Dots for Bioassays and Bioimaging." Zeev Rosenzweig, prof. of chemistry, U. of New Orleans. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Religious Studies Lecture. "The Children's Crusade as Rite of Passage." Gary Dickson, history fellow, U. of Edinburgh. Co-sponsored by the History Dept. Eliot Hall, Room 200F. 935-8677.

6 p.m. East Asian Studies Lecture. Annual Nelson Wu Lecture. "The Instability of Art: Architecture, Ornament and an Island in Momoyama Japan." Andrew Watsky, prof. of Japanese art & archaeology, Princeton U. (Reception follows.) Saint Louis Art Museum Aud., 1 Fine Arts Drive. 935-4448.

Friday, Sept. 26

9:15 a.m. Pediatric Grand Rounds. "Seeking the Forest of Congenital Heart Disease After Looking at 4000 Hearts." Patrick Y. Jay, asst. prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

10 a.m.-5 p.m. Center for the Study of Ethics & Human Values Colloquium. "The Ethics of Diet." (Lunch discussion included & "ethical lunch" available for purchase.) Co-sponsored by the depts. of History,

Chalifour leads all-star lineup in 'Four B's': Bach, Beethoven, Brahms and Bartok

By LIAM OTTEN

Celebrated violinist Martin Chalifour, principal concertmaster for the Los Angeles Philharmonic, will join musicians from Washington University and the Saint Louis Symphony Orchestra for a chamber music recital 7 p.m. Monday, Sept. 22.

The performance — sponsored by the Department of Music in Arts & Sciences and the Symphony Orchestra's Community Partnership program — is free and open to the public and will take place in the 560 Music Center's E. Desmond Lee Concert Hall. A dessert reception with the performers will immediately follow.

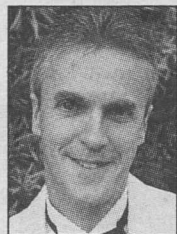
Titled "The Four B's," the concert will open with Chalifour and pianist Seth Carlin, professor of music, performing Beethoven's "Spring" sonata. Next, Chalifour will perform "Adagio" and "Fugue in G minor," a solo from "Sonata No. 1" of Bach's Sonatas and Partitas. Chalifour then will join violinist Taras Gabora, professor emeritus at the Oberlin Conservatory of Music, for a set of Bartok duos.

The program will conclude with Brahms' "Piano Quartet in C minor." Performers will include Chalifour and Carlin as well as Jonathan Vinocour, principal violist of the Saint Louis Symphony Orchestra, and Bjorn Ranheim, a cellist with the orchestra.

Born in Montreal, Chalifour began playing violin at age 4 and graduated from the Montreal Conservatory — where his teachers included Gabora — at age 18.

He then studied at the Curtis Institute of Music in Philadelphia and began his orchestral career in 1984 as associate concertmaster for the Atlanta Symphony. In 1986, he won a Certificate of Honor at the 1986 Tchaikovsky Competition in Moscow and the following year was a laureate of the Montreal International Competition.

In 1990, Chalifour left Atlanta



Chalifour

for the Cleveland Orchestra and in 1995 was named concertmaster for the Los Angeles Philharmonic. He has performed chamber music with YoYo Ma, Emmanuel Ax and Yefim Bronfman, among others, and has appeared as soloist with conductors such as Pierre Boulez, Andrew Davis, Charles Dutoit, Christoph Eschenbach, Neville Marriner and Esa-Pekka Salonen.

Internationally, he has appeared as a soloist with the Auckland Philharmonic, the Montreal Symphony, the Queensland Symphony (Australia), the National Orchestra of Taiwan, the Hong Kong Philharmonic and the Malaysian Philharmonic.

Chalifour also serves as a professor at the University of Southern California's Thornton School of Music. His daughter, Stephanie Chalifour, is a junior majoring in anthropology in Arts & Sciences at WUSTL.

Carlin has performed with orchestras around the world and with conductors such as Nicholas McGegan, Leonard Slatkin and Roger Norrington. In 1991-92, he performed the complete Schubert fortepiano sonatas in New York

City — concerts that were broadcast nationally on National Public Radio. More recently, he appeared as soloist with the Saint Louis Symphony Orchestra in Beethoven's "Triple" Concerto as well as with San Francisco's Philharmonia Baroque, the period-instrument orchestra.

Gabora has performed widely as a soloist and chamber musician and is a founding member of Chamber Music Chicago, Le Groupe Baroque de Montréal, the Vienna Academy String Quartet, the Gabora String Quartet and "Trio Tre Musici" in Milan.

In addition to Oberlin and the Montreal Conservatory, Gabora has taught at McGill University, the St. Louis Conservatory of Music and the Vancouver Academy of Music.

Vinocour joined the Saint Louis Symphony in 2007 and previously served as guest

principal of the Gewandhaus Orchestra of Leipzig and of the Orchestra Ensemble Kanazawa in Japan. An active solo performer, in 2006 he won First Prize in the Holland America Music Society Competition and recorded his first solo album.

Ranheim joined the Saint Louis Symphony Orchestra in 2005 and also holds the principal chair of the Colorado Music Festival in Boulder.

He previously served as associate principal cellist of the Fort Worth Symphony and has held principal and assistant principal cello positions with the New World Symphony, the National Repertory Orchestra, the Aspen Festival Orchestra and Quebec City's critically acclaimed Les Violons du Roy.

For more information, call 935-9226 or e-mail jgartley@arts.wustl.edu.

'Birth of the Cool' curator to speak at Kemper

Elizabeth Armstrong, curator of "Birth of the Cool: California Art, Design, and Culture at Mid-century," will discuss the exhibition at 1 p.m. Saturday, Sept. 20, at the Mildred Lane Kemper Art Museum.

Armstrong's talk will explore the motivations, processes and scholarship that went into creating this sprawling multimedia installation, which opens at the Kemper Art Museum Friday, Sept. 19, and remains on view through Jan. 5, 2009.

The exhibition examines the rise and influence of sleek West Coast modernism through more than 200 objects by figures ranging from architect Richard Neutra and designers Charles and Ray Eames to musicians such as Miles Davis and painters and sculptors such as Karl Benjamin and Pierre Koenig.



Armstrong

Armstrong, curator of contemporary art for the Minneapolis Institute of Arts, organized "Birth of the Cool" while she was on staff at the Orange County Museum of Art, where it debuted in fall 2007. The show has since traveled to the Addison Gallery of American Art in Andover, Mass., and to the Oakland Museum of California. Next spring, it will travel to the Blanton Museum of Art in Austin, Texas.

Armstrong joined the Minneapolis Institute of Arts, where she serves as assistant director for exhibitions and programs, in August 2008. She previously served as chief curator for the Orange County Museum of Art and as curator for the Walker Art Center in Minneapolis.

Armstrong has published widely and curated numerous of

exhibitions of modern and contemporary art. In addition to "Birth of the Cool," these include "Ultrabaroque: Aspects of Post-Latin American Art" (2000), three California Biennial exhibits (2002, 2004, 2006), "Girl's Night Out" (2003), "American Moderns: Villa America, 1900-1950" (2005-06) and "Mary Heilmann Retrospective" (2007).

In 2007, Armstrong was one of 10 U.S. curators selected to participate in the inaugural year of the Center for Curatorial Leadership, a program at the

Columbia Business School in New York designed to prepare top curators for positions in museum leadership. That same year, she received an Award for Excellence from the American Association of Museum Curators for the "Birth of the Cool" exhibition catalogue.

Other honors include a Special Exhibition Award from the International Association for Art Critics in Germany for "Peter Fischli and David Weiss: In a Restless World" (1998) and the International Association for Art Critics Award for the catalog to "In the Spirit of Fluxus" (1994-95).

Armstrong earned a master's in art history from the University of California, Berkeley. She also holds a bachelor of arts in American studies from Hampshire College in Amherst, Mass.

The lecture is free and open to the public and takes place in Steinberg Hall Auditorium. A public reception will precede the talk at 12:30 p.m. in the Kemper Art Museum immediately adjacent to Steinberg Hall.

For more information, call 935-4523 or e-mail kemperartmuseum@wustl.edu.

Election programming update

An array of panels, discussions, artistic expressions, lectures and other special events are taking place on the Danforth Campus throughout the presidential campaign season. Listed below are those being offered this week.

Monday, Sept. 22

6 p.m. Why Vote? Panel Presentation. Lab Sciences, Rm. 300. Featuring Jeff Smith, Ph.D., lecturer in political science in Arts & Sciences and Missouri state senator; Scott Rupp, Missouri state senator; Denise Lieberman, J.D., lecturer in political science in Arts & Sciences; and former Rock The Vote president Jehmu Greene as panelists. For information, contact WUSTL College Democrats at washudem@gmail.com. Free and open to the public.

Tuesday, Sept. 23

3 p.m. Public Service Fair. Danforth University Center Commons. Find the right service project for you among the countless possibilities available. For information, contact the Community Service Office at communityservice.wustl.edu or 935-5599, or the Gephardt Institute for Public Service at gephardtinstitute.wustl.edu or 935-8628. Free and open to the public.

\$25, includes two tickets and a paperback book. Graham Chapel. 863-0278.

Music

Thursday, Sept. 18

8 p.m. Jazz at Holmes. Willie Akins, saxophone. Ridgley Hall, Holmes Lounge. 862-0874.

Sunday, Sept. 21

2 p.m. Faculty Voice Recital. Noel Prince. Graham Chapel. 935-5566.

Monday, Sept. 22

7 p.m. Concert. "The Four B's." Music of Bach, Beethoven, Brahms and Bartok. E. Desmond Lee Concert Hall, 560 Trinity Ave. 935-9226.

Thursday, Sept. 25

8 p.m. Jazz at Holmes. "Two Times True." Carolbeth True, piano and David True, drums. Ridgley Hall, Holmes Lounge. 862-0874.

Wednesday, Sept. 24

7 p.m. Why Should I Care Who the Vice President Is? Danforth University Center. Join Saint Louis University law professor and vice presidential expert Joel Goldstein, J.D., in an informal discussion regarding the significance of the V.P. office. For information, visit the V.P. Debate Program Planning Web site at debate.wustl.edu or call 935-8628 or 935-4620. Free and open to the public.

Ongoing events

Artistic Installations relating to Election Year. Contact the Gephardt Institute for Public Service for details at gephardtinstitute@wustl.edu.

Exhibit on the History of the Office of the Vice President and Vice Presidency. Through Oct. 17 in the Olin Library Lobby.

For questions regarding programming or additions to the calendar, contact programming co-chairs Robin Hattori at rhattori@wustl.edu or Brittany Perez at president@su.wustl.edu.

To access the entire Election Program calendar, visit any of the following Web sites: assemblyseries.wustl.edu; gephardtinstitute.wustl.edu; gpc.wustl.edu; su.wustl.edu; and debate.wustl.edu.

Saturday, Sept. 27

4 p.m. Kemper Presents Concert Series. "BAG Trio." Music inspired by Miles Davis. Kemper Art Museum. 935-4523.

On Stage

Saturday, Sept. 27

8 p.m. OVATIONS! Series. Sweet Honey in the Rock. Cost: \$32, \$28 for seniors, WUSTL faculty & staff, \$20 for students & children. Edison Theatre. 935-6543.

Sports

Thursday, Sept. 18

7 p.m. Women's Soccer vs. Maryville U. Francis Field. 935-4705.

Friday, Sept. 19

All Day. Men's Tennis. WU Fall Invitational. (Also all day Sept. 20-21.) Tao Tennis Courts. 935-4705.

Anthropology, American Culture Studies, Philosophy and the College of Arts & Sciences. Women's Bldg. Formal Lounge. 935-5450.

10 a.m. East Asian Studies Lecture. Annual Nelson Wu Lecture. "The Art of Bestowing Names." Andrew Watsky, prof. of Japanese art & archaeology, Princeton U. Duncker Hall, Rm. 201, Hurst Lounge. 935-4448.

10:30 a.m. Olin Business School Operations and Manufacturing Management Seminar. "Managing Time-Based Contracts with Delayed Payments." Christopher S. Tang, prof. of business admin., UCLA Anderson School of Management. Co-sponsored by Boeing Center for Technology, Information and Manufacturing. Simon Hall, Rm. 241. 935-5577.

Noon. Cell Biology & Physiology Seminar. "Recent Advances in the Study of DCIS." Daniel Medina, prof. of cell biology, Baylor College of Medicine. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

Saturday, Sept. 27

8 a.m.-4 p.m. Gastroenterology Colorectal Surgery CME Course. "Familial Gastrointestinal Cancer Syndromes: Genetics, Diagnosis, Management and Future Directions." Cost: \$165 for physicians, \$115 for allied health professionals. Eric P. Newman Education Center. To register: 362-6891.

Monday, Sept. 29

4 p.m. Breast Cancer Research Group Seminar Series. Jinbo Chen, asst. prof. of biostatistics & epidemiology, U. of Pa. Center for Advanced Medicine, Farrell Conference Room 2. 454-8981.

4 p.m. Immunology Research Seminar Series. "Stealth Additions to our Metagenome: Persistent Viruses and their effects on the Host." Herbert Virgin, prof. of pathology & immunology. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

6:30 p.m. Sam Fox School Public Lecture Series. Island Press Visiting Artist. Chris Duncan. Steinberg Aud. 935-9300.

Tuesday, Sept. 30

Noon. Barnes-Jewish Hospital Ethics Committee Lunch and Learn Brown Bag Forum. "Stem Cells? Medicaid? Healthcare Politics in Missouri." Joan Bray, D-Mo., and John Loudon, R-Mo. Clopton Aud., 4950 Children's Place. Registration required. 747-5361.

4 p.m. Chemistry Lecture. "Amber and Resins: On the Interface of Chemistry, Biology and Archaeology." Joseph B. Lambert, prof. of chemistry, Northwestern U. McMillen Lab., Rm. 311. 935-6530.

And More

Friday, Sept. 19

7 p.m. Exhibit Opening Reception. "Birth of the Cool: California Art, Design and Culture at Midcentury." Kemper Art Museum. 935-4523.

Monday, Sept. 22

7 p.m. The Big Read Book Discussion. "Things I Overheard While Talking to Myself." Alan Alda, actor & author. (Followed by book sales & signing.) Cost:

Court of Appeals session at law school

By JESSICA MARTIN

The Missouri Court of Appeals Eastern District will hold a special session at 9:30 a.m. Wednesday, Sept. 24, in the School of Law's Bryan Cave Moot Courtroom in Anheuser-Busch Hall.

The public is invited to hear cases involving a dispute over the construction of a waste transfer facility, an invasion of privacy claim and an unfair competition and false advertising claim.

The court periodically holds sessions in law schools as part of an educational program.

The judges hearing oral arguments are Nannette A. Baker, J.D.,

chief judge; Patricia L. Cohen, J.D.; Roy Richter, J.D.; Robert G. Dowd Jr., J.D.; and Kurt Odenwald, J.D.

After the special session, the judges will be available to answer general questions about judicial procedure as well as judicial clerkships.

To limit the amount of disturbances to the proceedings, visitors are asked to enter and exit the courtroom only during breaks between each attorney's oral argument.

Case briefs for the oral argument session will be linked from the law school's home page.

For more information, call 935-6430 or visit law.wustl.edu.

KL2 Career Development Award applications due Sept. 30

Applications for KL2 Career Development Award scholars are being accepted through at 5 p.m. Sept. 30.

The KL2 Career Development Award is aimed at fellows, post-doctoral scholars and junior faculty committed to multidisciplinary clinical research.

The program provides financial support and benefits that allow the scholar to focus on didactic studies and clinical research to

further their career goals and to contribute to clinical and translational science. Applicants must be U.S. citizens, non-citizen nationals or have proof of permanent residency at the time of application.

For more information and for further application requirements, visit crscholars.im.wustl.edu or contact Alison Ebers at aegers@im.wustl.edu or Vicky Fraser, M.D., at vrfraser@im.wustl.edu.

Debate

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the University has arranged for those who typically use the Athletic Complex to have access to alternate workout facilities.

The South 40 Fitness Center will admit those with a photo ID and a McWilliams Fitness Center membership. If both cannot be displayed, there is a \$5 per use fee.

Bally's Total Fitness on Forsyth Boulevard in Clayton, Mo., has agreed to allow Athletic Complex patrons who provide a WUSTL ID card and sign a waiver of use of their facilities. The Center of Clayton, located at 50 Gay Ave. in Clayton, also will allow those with a WUSTL ID card use of their facilities. The cost will be \$4 per visit.

More information about these and other alternate sites is posted on bearsports.wustl.edu. The WUSTL community also can call the Athletic Complex hotline (935-4705) for information.

Some in the campus community might have to alter their commuting habits as well, as parking will be severely impacted Sept. 25-Oct. 2. From Sept. 25-Oct. 1, parking on the west

side of the Danforth Campus will become progressively more challenging. Parking will be available at West Campus, and faculty and staff can use a U-Pass to take MetroLink to the Danforth Campus. To sign up for a U-Pass, visit parking.wustl.edu/metro.htm.

Oct. 2, the day of the debate, parking throughout the Danforth Campus will be significantly restricted, and vehicle access will be limited to those with a University-issued or other authorized permit.

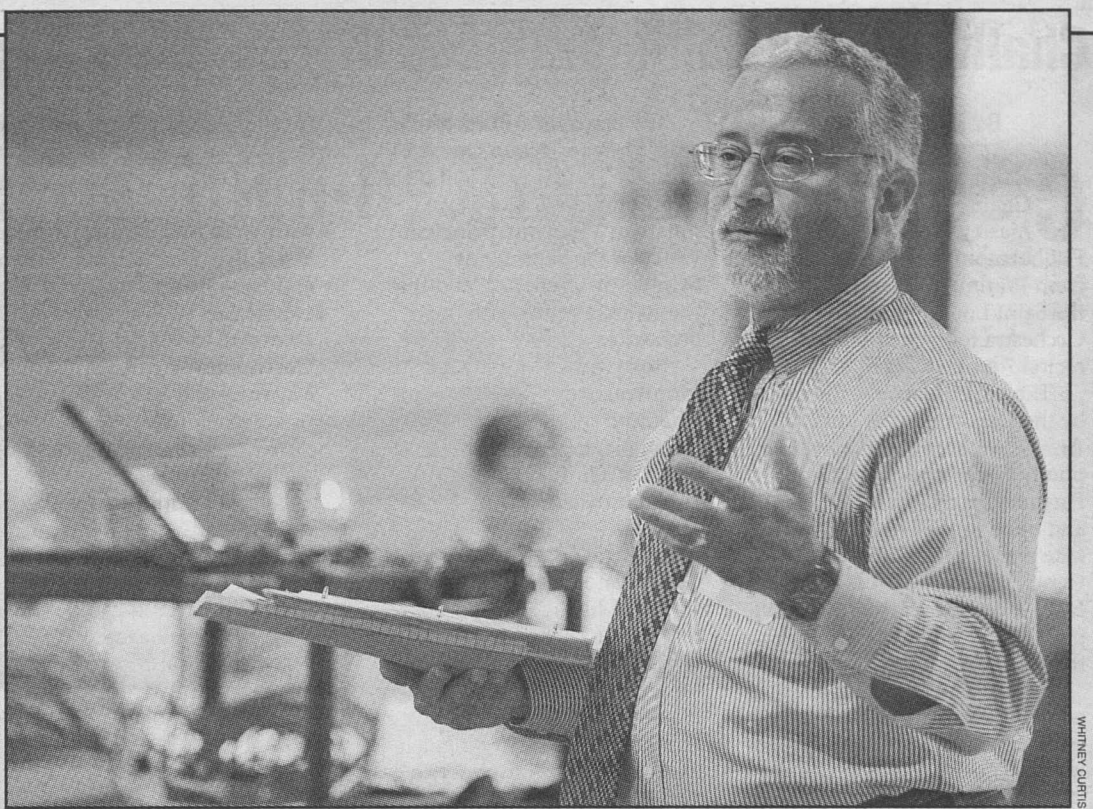
• Also Oct. 2, no classes will be held after 3 p.m. At 3:30 p.m., all buildings on the Danforth Campus will be locked, and access to all offices and classrooms will require key-card access and authorized identification.

• Individuals and groups may gather for the peaceful expression of opinions Oct. 2 at the Public Viewing Area, located on the University's intramural field at the southeast corner of Big Bend and Forsyth boulevards. Those who wish to speak on stage in this area must register in advance. Visit debate.wustl.edu/publicviewing for more information.

• According to the Office of Residential Life's Web site (reslife.wustl.edu), no guests will be allowed in the Danforth Campus residential hall areas beginning 8 a.m. Wednesday, Oct. 1, through noon Friday, Oct. 3. Only individuals with a valid WUSTL ID will have access to any University residential areas. Access to fraternity houses during the time leading up to the debate will be limited. For information about access to fraternity houses, call 935-3939.

• Students, faculty and staff who will be on the Danforth Campus Oct. 1 and Oct. 2 must have a current WUSTL ID or an official University-issued credential.

Only those who are properly credentialed may enter or remain in the secure perimeter surrounding the Athletic Complex or at other times as determined by security personnel.



Bringing in the best Luis H. Zayas, Ph.D., the Shanti K. Khinduka Distinguished Professor of Social Work and professor of psychiatry, speaks during the Diversity Council Faculty Recruitment Practices workshop Sept. 5 at the Women's Building Formal Lounge. Approximately 30 WUSTL deans and faculty attended the workshop, which was designed to help those serving on faculty search committees enhance their skills identifying and recruiting diverse and excellent candidates. A second workshop will be held Oct. 17. For more information about the workshops, contact Leah Merrifield at 935-5151 or at lamerrifield@wustl.edu.

Energy

— from Page 1

in the September edition of Proceedings of the National Academy of Sciences.

Washington University collaborating institutions are the Pacific Northwest National Laboratory (PNNL), Saint Louis University School of Medicine and Purdue University. The project was funded by the Danforth Foundation and the National Science Foundation and also is part of an EMSL Scientific Grand Challenge project at the W.R. Wiley Environmental Molecular Science Laboratory, sponsored by the U.S. Department of Energy's Office of Biological and Environmental Research program at PNNL. The majority of the funding came from EMSL.

The researchers found that the majority of proteins on the linear chromosome are hypothetical. But the gene cluster is a major find.

"The linear chromosome contains the only gene copy for lactate dehydrogenase, which facilitates one of the organism's fermenting capabilities," said Jana Stockel, Ph.D., a postdoctoral researcher who worked with Pakrasi and fellow postdoctoral researchers Michelle Liberton, Ph.D., and Eric Welsh, Ph.D.

"In conjunction with the proteomics group at Pacific Northwest National Laboratory, we've been able to show that many of the genes in the linear chromosome are in fact expressing proteins," Liberton said. "It's not just a piece of DNA sitting there. Transcription and translation are happening."

Comparative genomics is the theme for the next round of Pakrasi's research. His laboratory has received a grant from the U.S. Department of Energy to sequence the genomes of six other cyanobacteria organisms in a quest to find the best one to produce hydrogen.

"The goal is to find the hydrogen-producing workhorse of these seven," Pakrasi said. "Work is ongoing, and I expect in a year or so we will learn a lot more. We will be comparing functions and organizations."

The strains — two isolated from rice paddies in Taiwan, one from a rice paddy in India and three others from the deep ocean — are related, but each one comes from different environmental backgrounds and might metabolize differently. Thus, one or more strains might have biological gifts to offer that the others don't, combining traits of the different strains could provide the most efficient

form of bioenergy.

Four national laboratories will be involved in various stages of sequencing the other cyanobacteria: PNNL, the Joint Genome Institute (part of Lawrence Livermore Laboratory at the University of California), Oak Ridge Laboratory and Los Alamos Laboratory.

Cyanobacteria 51142 was sequenced at WUSTL's Genome Sequencing Center (GSC), based at the School of Medicine. Paper co-author Richard K. Wilson, Ph.D., director of the GSC, and Jeffrey I. Gordon, M.D., the Dr. Robert J. Glaser Distinguished University Professor and professor of pathology & immunology, had the original vision to sequence Cyanobacteria 51142, according to Pakrasi.

"They wanted a pilot program and brought in Danforth Foundation money to get the project going," Pakrasi said. "Had it not been for their vision and the initial investment, the interest and support from the national laboratories would not be what it is."

"More than four years ago, when we were thinking about cyanobacteria, we had little idea of the organism's potential. Today, it's all blossomed into something much bigger than we'd thought it would," Pakrasi said.



Sports

Football team starts season strong, 2-0

Senior quarterback Buck Smith connected on 19 of 28 passes for a career-high 279 yards and a touchdown as the Bears posted a convincing 45-13 victory over Westminster College Sept. 13.

WUSTL piled up a season-high 570 yards of total offense in the victory, with 388 yards coming in the air and 182 yards on the ground. The last time the Bears picked up more than 500 yards of total offense was a 49-42 victory over Case Western Reserve Oct. 26, 2002.

The Bears scored on their opening drive for the second consecutive game as junior running back Matt Glenn scored from six yards out to make it 7-0. Later, with the game in hand, sophomore quarterback Mitchel Bartel saw action and scored his first career touchdown to make it 45-6.

WUSTL improved its all-time

record against Westminster to 14-2-1. The Bears travel to Springfield, Ohio, Saturday, Sept. 20, to play Wittenburg University.

Volleyball has heart-breaking weekend

The volleyball team lost a five-set thriller to No. 1 Juniata, 3-2, at the Fifth Annual Teri Clemens Invitational in the WU Field House Sept. 12, rebounded the next day against Bethel University but lost the championship match to the University of Wisconsin-Whitewater.

The Bears fell behind Juniata, 2-0, but forced a deciding fifth set by picking up 25-23 wins in the third and fourth frames. However, the Eagles used a 3-0 scoring run in the fifth set to take a 10-8 lead that they never relinquished. WUSTL went on to defeat Bethel University, 3-0, but fell to No. 13 University of Wisconsin-Whitewater, 3-1, in the finale, a rematch of the 2007 NCAA

Division III championship match.

Two Bears, senior rightside attacker Nikki Morrison and senior Audra Janak, were named to the all-tournament team.

WUSTL (9-2) returns to action Sept. 26 when it travels to Birmingham, Ala., to compete in the Birmingham Southern Loco's Invitational.

Men's soccer wins three straight at home

The men's soccer team won three straight games last week, defeating Principia College at home, 2-0, Sept. 9; Southwestern University, 3-0, Sept. 12; and Denison University, 2-0, Sept. 13.

Junior forward John Hengel was the star offensively, scoring three goals during the week, including two game winners. Hengel netted the game-winning goal to break a 0-0 tie in the second half against Principia and scored two, including a penalty kick, against Denison. Sophomore Harry

Beddo, the Bears' leading scorer a year ago, netted his first two goals of the season in the win over Southwestern.

The Bears (4-2) return to action Thursday, Sept. 18, against Fontbonne University at Gay Field in Clayton, Mo., at 7 p.m.

Conlon picks up soccer win No. 100

First-year head coach Jim Conlon tallied his 100th career win as an NCAA women's soccer coach as the Bears defeated Wartburg University, 4-1, Sept. 14 at Francis Field. Conlon, who spent the past eight seasons as the head women's soccer coach at Wartburg, has compiled a 100-58-6 (.628) overall record in nine years.

Senior Lauren Mehner had two goals for the Bears, while senior Kristen Hilligoss and freshman Lee Ann Felder added a goal. Senior Amanda Boe picked up the win in goal, making seven saves.

WUSTL (4-1-1) hosts Maryville University Thursday, Sept. 18, at 7 p.m.

Women's golf wins in WUSTL debut

Junior Kristina Zeschin fired an 84 as the women's golf team won its inaugural tournament at the 2008 McKendree University Fall Invitational Sept. 13 at the Cardinal Creek Golf Club in Scott Air Force Base, Ill.

WUSTL shot an overall mark of 354, while McKendree University's "A" squad was second with 361. Maryville University followed in third place with a 365, while McKendree's "B" team was fourth with a 405.

The Bears battled tough winds through the 18-hole course but managed to prevail.

WUSTL returns to action Sept. 27-28 at the Millikin Fall Classic at the Red Tail Country Club in Decatur, Ill.

Notables

Flagg named Lehmann Research Professor

Barbara Flagg, J.D., professor of law, has been named the John S. Lehmann Research Professor for 2008-09. The Lehmann professorship allows scholars to concentrate on in-depth research projects while relieving them of teaching and administrative duties during a semester.

During her research leave, which began in August, Flagg will be completing a book titled "The Souls of White Folk," which examines the reasons white people have not done more to combat racial discrimination in the United States. "The professorship gives me the

opportunity to do additional interdisciplinary research in the areas of history and social psychology, both of which are important to this project," Flagg said.

Flagg is an expert on constitutional law and critical race theory. In addition to lecturing across the nation, she has written about white privilege and other topics involving race, law, culture and policy.

Flagg's recent scholarship focuses on issues related to racial justice, subtle discrimination in the workplace and the resistance

of majority groups to racial equality. In addition to numerous law review articles, she is the author of the 1997 book, "Was Blind, But Now I See: White Race Consciousness and the Law," which examines race discrimination law and the role of "transparency," or the propensity of white people to equate "whiteness" with "racelessness."

Flagg is the second recipient of the Lehmann fellowship. The previous recipient — Pauline Kim, J.D., professor of law and now associate dean for faculty research and development — used the fellowship to continue her research on employment law in spring 2008.

Parking limited on east end of campus

In preparation for the construction of a new building for the School of Engineering & Applied Science, a portion of Lot 4 — located at the east end of the Danforth Campus near Whitaker Hall — closed Sept. 11. This closing has resulted in a reduction in the number of parking spots available on the east end of the Danforth Campus.

WUSTL's Parking & Transportation Services says the remaining parking spots in Lot 4 will fill up quickly each day, so they suggest those displaced by the closing park in Millbrook

Garage, located on the north side of campus on Throop Drive.

Members of the WUSTL community also should consider using alternate modes of transportation for their commute to campus. The University provides each benefits-eligible employee and full-time student with a complimentary U-Pass, which allows the holder unlimited use of Metro buses and MetroLink as an alternative method of transportation to and from campus.

For more information on the U-Pass or to sign up, visit parking.wustl.edu/metro.htm.

Lewis to deliver I-CARES talk on energy supply

The International Center for Advanced Renewable Energy and Sustainability (I-CARES) will host Nathan Lewis, Ph.D., the George L. Argyros Professor of Chemistry at the California Institute of Technology, as an I-CARES Distinguished Speaker at 4 p.m. Wednesday, Sept. 23. Lewis will present a lecture titled "Where in the World Will Our Energy Come From?"

Lewis' talk will examine key issues facing government and industry leaders, such as the planning it will take to harness wind, solar power, solar electricity, thermal power, biomass energy, hydroelectric power and geothermal energy. It will take tremendous resources, research and development investment and a favorable price per unit of energy to get companies to produce

alternative energy. Lewis will discuss these and other hurdles.

Lewis has been an Alfred P. Sloan Fellow, a Camille and Henry Dreyfus Teacher-Scholar and a Presidential Young Investigator. He received the Fresenius Award in 1990, the American Chemical Society Award in Pure Chemistry in 1991, the Orton Memorial Lecture Award in 2003 and the Princeton Environmental Award in 2003.

He has published more than 300 papers and has supervised more than 50 graduate students and postdoctoral associates.

The lecture will take place in Room 300 of the Lab Sciences Building, with a reception to follow. For more information or to RSVP, call I-CARES at 935-9541; or e-mail i-cares@wustl.edu.



International friendship Officials from Fudan University in China visited campus Sept. 10 to sign an international exchange agreement with Washington University. Participating in the signing in Brookings Hall are (from left) Fudan University professor Chen Jianmen, Fudan University Chancellor Qin Shaode, Chancellor Mark S. Wrighton and Pratim Biswas, Ph.D., the Stifel and Quinette Jens Professor of Environmental Engineering Science and chair of energy, environmental and chemical engineering. Fudan and WUSTL are part of a consortium of 25 universities that constitute the McDonnell Academy Global Energy and Environment Partnership (MAGEEP). The two universities plan to have faculty and doctoral student exchanges in areas of energy and environmental research and will be part of a 15-university "Aerosol Network" to be launched in Hong Kong in December 2008. WUSTL has funded 14 projects to promote interactions with counterpart universities in MAGEEP, which is gearing up for the Second International Symposium on Energy and Environment Dec. 8-10 in Hong Kong.

Not just another Wednesday

The Bear Necessities store, located in the Wohl Student Center, is launching a weekly "Wonderful Wednesdays" sale.

Beginning Wednesday, Sept. 24, and on each Wednesday thereafter, all faculty, staff and students will receive an additional 25 percent off previously marked down prices on WUSTL merchandise.

New items and new markdowns will be added each week. The sale will run from 10:30 a.m.-8 p.m. each Wednesday.

Bear Necessities is a not-for-profit store operated by the Women's Society of Washington University. All proceeds from the store help fund WUSTL scholarships and other projects.

For more information, call 935-5071.

For the Record

Of note

Jeffrey G. Catalano, Ph.D., assistant professor of earth and planetary sciences in Arts & Sciences, has received a three-year, \$340,505 grant from the National Science Foundation for research titled "ETBC: Hidden Iron Oxide Redox Processes During Biogeochemical Iron Cycling: Controls on Nanscale Transformations and the Fate of Contaminants." ...

Carl F. Craver, Ph.D., associate professor, and **Don Goodman-Wilson** and **Sarah Robins**, graduate students, all in the Department of Philosophy in Arts & Sciences, have received a one-year, \$25,000 grant from the National Science Foundation for a project titled "The Future Directions in Genetics Studies Graduate Training Workshop." ...

Gabriel de Erausquin, M.D., Ph.D., associate professor of psychiatry and of neurology, received the 2008 Klerman Award from the National Alliance for Research on Schizophrenia and Depression (NARSAD). The Klerman Award honors outstanding clinical psychiatric research

Notables policy

To submit Notables for publication in the Record, e-mail items to Jessica Daues at jessica_daues@wustl.edu or fax to 935-4259.

initiated by early career scientists who have received NARSAD grants. He received the award for his development of a method aimed at improving diagnosis and genetic understanding of schizophrenia. ...

Donald L. Elbert, Ph.D., assistant professor of biomedical engineering, has received a two-year, \$418,000 grant from the National Heart, Lung, and Blood Institute for research titled "Quantitative Mass Spectrometry to Probe Fibrinogen Conformations on Biomaterials." ...

David H. Gutmann, M.D., Ph.D., the Donald O. Schnuck Family Professor of Neurology, director of the Neurofibromatosis Center and co-director of the Neuro-Oncology Program at the School of Medicine, received the Elliott Osserman Award for Distinguished Service in Support of Cancer Research from the Israel Cancer Research Fund in New

York City. The award was in recognition of his three years of service on the fund's prestigious scientific review panel. ...

Bradley Jolliff, Ph.D., research professor, and **Alian Wang**, Ph.D., senior research scientist, both in the Department of Earth & Planetary Sciences in Arts & Sciences, have received a six-month, \$255,414 grant from the National Aeronautics and Space Administration for research titled "Journey to the Land of Eternal Darkness and Ice (JEDI): A Lunar Polar Volatile Explorer." ...

Yoram Rudy, Ph.D., the Fred Saigh Distinguished Professor of Engineering, was awarded a four-year, \$1,362,285 grant from the National Heart, Lung, and Blood Institute for research titled "Inverse and Forward Problems in Electrocardiography." ...

Li Zou, international director at the Center for Social Development (CSD) in the George Warren Brown School of Social Work, has received a one-year, \$75,000 grant from the Levi Strauss Foundation to support the CSD's Global Assets Project (GAP). GAP was launched in July 2006 to inform and promote the development of asset-building policies and programs worldwide.

Campus Watch

The following incidents were reported to University Police Sept. 9-15. Readers who have information concerning these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

Sept. 10

8:19 a.m. — A person reported a bag containing a laptop computer and two digital cameras was stolen from his unlocked truck on Snow Way.

1:02 p.m. — A worker reported that spools of wire had been stolen from a cart outside Seigle Hall.

2:06 p.m. — A staff member reported that an electric drill and charger were stolen from Wohl Student Center.

10:00 p.m. — A student reported a suspicious person followed her from Olin Library to her dorm in the South 40.

11:14 p.m. — A Knight Center guest reported that his

travel bag was stolen from his unlocked vehicle parked in Millbrook Garage.

Sept. 11

10:17 a.m. — A drill and cable was stolen from the Athletic Complex.

Sept. 14

5:32 p.m. — A student reported that money had been stolen from his wallet while it was left unattended in his unlocked room in Lien House.

Additionally, University police responded to three accidental injuries, one automobile accident, one chemical spill, one lost article and one report of damaged property.

Washington People

Ann B. Prenatt's father was principal of her middle school and high school, which led to some interesting situations. Kids would tease her, and even teachers occasionally made comments.

"My eighth-grade teacher wasn't happy with me one day, threatening 'Do you want to go see your father?'" She laughs. "I said, 'Sure.'"

Having parents who worked as teachers — her mother taught kindergarten and also English and French in high school, and her father taught math before becoming principal — gave Prenatt, Washington University's vice chancellor for human resources, a deep-rooted respect for education and those who provide and support it.

"I consider it a privilege to work at Washington University — to be a part of an organization that engages in breakthrough research and scholarship and provides exemplary patient care and hope for individuals and families," Prenatt says. "It's hard to describe what it means to be a part of an organization that matters in so many ways to the future."

For the University to continue



Ann B. Prenatt (left), vice chancellor for human resources, meets with assistant Lisa Caress in Brookings Hall. "Ann is responsible for one of Washington University's most critical assets — our human resources," Chancellor Mark S. Wrighton said. "Ann is a wise and trusted counselor to me and others, and she is a positive and effective force in advancing the mission of Washington University."

By JESSICA DAUES

Prenatt's a people person

Her HR team keeps WUSTL staffed with the best

its tradition of excellence, it is vital that WUSTL attract and retain talented, self-motivated and conscientious faculty and staff. That's where Prenatt and the human resources department come in.

Prenatt leads a talented team that often works "behind the scenes" to respond to and support the needs of the University and its employees. Prenatt strives to ensure that all WUSTL faculty and staff work in an environment that enhances their ability to achieve professional goals, are educated about the myriad benefits of working at WUSTL and have access to resources prepared to assist them in dealing with difficult issues.

"Ann is responsible for one of Washington University's most critical assets — our human resources," Chancellor Mark S. Wrighton said. "As the leader in human resources, she develops and oversees policies and procedures of importance to all faculty and staff. An effective problem-solver, Ann handles sensitive and delicate personnel matters with great care and fairness."

In addition to her responsibilities in human resources, Prenatt also serves as a member of WUSTL's University Council, an advisory board to the Chancellor composed of chief administrative officers and deans.

"Ann is a wise and trusted counselor to me and others, and

she is a positive and effective force in advancing the mission of Washington University," Wrighton said.

Small-town girl

Prenatt grew up the youngest of three children in Tupper Lake, N.Y., an idyllic tourist town in an outdoorsman's paradise — the Adirondack Mountains.

"It was Mayberry, really," Prenatt says. "We learned how to swim and water ski in a crystal-clear lake. In the summer, I played golf and worked in the pro shop."

"But as much fun as summer was, we couldn't wait for the first snowfall around Thanksgiving; my friends and I skied all winter long," she says. "I was part of the ski patrol and was trained to provide first aid for people injured on the mountain."

From a young age, Prenatt was especially close to her father, who had been deployed abroad in the Navy while Prenatt's brother, Joe, and sister, Rosemary, were small. When Prenatt graduated from Tupper Lake High School, her father presented her with her diploma — just as he had done with her older brother and sister.

In 1973, Prenatt earned a bachelor's degree in hotel and restaurant management from the Rochester Institute of Technology and was hired by Saga Corp., a contract food service management company, to manage several Saga facilities in White Plains, N.Y., and assist Saga with its college recruitment program.

A few years later, Saga expanded its personnel division, and Prenatt was hired in a full-time human resources role as a regional personnel director in charge of recruitment, career training and placement. The new job meant much moving and travel. Prenatt's stops included Atlanta, Philadelphia, Chicago and Menlo Park, Calif.

In 1978, while mediating an HR situation in Chicago, Prenatt met her husband, Bill, then a regional vice president for Saga. She and Bill hit it off immediately. After two years of a long-distance relationship, they married in 1980.

A home at WUSTL

Prenatt left Saga in 1982 and quickly climbed the HR ladder, managing human resources at six different companies across the country. That meant more moving — from California to South Carolina to Boston and, finally, to St. Louis in 1989.

"Bill and I were really excited about being able to file income taxes in just one state — that's when we knew we needed to end the relocation cycle," Prenatt says.

In 1995, Prenatt was hired by WUSTL as director of employee relations.

"Washington University is an incredible organization, and that was an exciting time to join the University because of the upcoming transition from Chancellor Danforth to Chancellor Wrighton," Prenatt says. "To be a part of that change and to learn yet another industry was very appealing."

Higher education is an "industry" Prenatt has never left. In 2000, Prenatt was named executive director of human resources, and, in 2003, Wrighton appointed her vice chancellor for human resources and to the University Council.

One of Prenatt's traits that James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences, most appreciates is Prenatt's ability to find creative ways to address problems.

"Ann is a wonderful collaborator," says McLeod, also a University Council member. "She'll think out loud with you to find a good solution. She's understanding and patient but can also be firm when she needs to be."

"Given the enormous responsibility Ann has, she makes herself amazingly accessible," McLeod says. "She works relentlessly to make Washington University a great place to work."

Prenatt also helps WUSTL make St. Louis a great place to live by guiding the University's annual United Way Campaign. The campaign, organized by Prenatt, encourages WUSTL community members to donate to the United Way of Greater St. Louis, an organization that supports nearly 200 health and human service organizations in the St. Louis area.

"Our campaign volunteers reach out to everyone on campus in a personal way," Prenatt says, "but we don't want to strong-arm

or pressure anyone to give. It's strictly voluntary. With that in mind, the generosity of the University community each year truly is gratifying."

The 2008 campaign kicked off Sept. 2 with a goal of \$600,000. WUSTL exceeded its goals in 10 of the past 11 campaigns, and Prenatt hopes the community's tradition of giving extends into 2008 and beyond.

Committee of one

The United Way Campaign isn't the only way Prenatt keeps WUSTL involved in the communities around campus. Prenatt — along with Alan Kuebler, assistant vice chancellor for resource management — is a member of the board of the University City Children's Center (UCCC), a nonprofit organization that provides care and education to young children from varying ethnic and socioeconomic backgrounds.

The University has partnered with the UCCC to help provide child care to WUSTL faculty, students and staff, and Prenatt serves as the UCCC's human resources consultant.

"I pretty much am the HR committee, so there's never a problem scheduling meetings," Prenatt says, laughing.

Despite its small size, her committee of one still manages to have a significant impact.

"Ann has helped the center navigate through some delicate personnel matters and has been instrumental in developing the center's HR policies. In offering her unique and professional perspective on issues that the board faces, she is thoughtful, thorough and sensitive," Kuebler says.

"That Ann contributes to the UCCC to the degree she does while conducting her duties as a University officer is noteworthy," he says.

To Prenatt, her support of the education of such a wide array of students — from toddlers to doctoral candidates — is key to making her work worthwhile. Prenatt's father passed away in 1991, but Prenatt knows how proud he would be of her role with the University.

"Education meant so much to him," Prenatt says. "I'd like to think he's looking down, smiling." She pauses a few seconds, and, finally, smiles right back.

Ann B. Prenatt

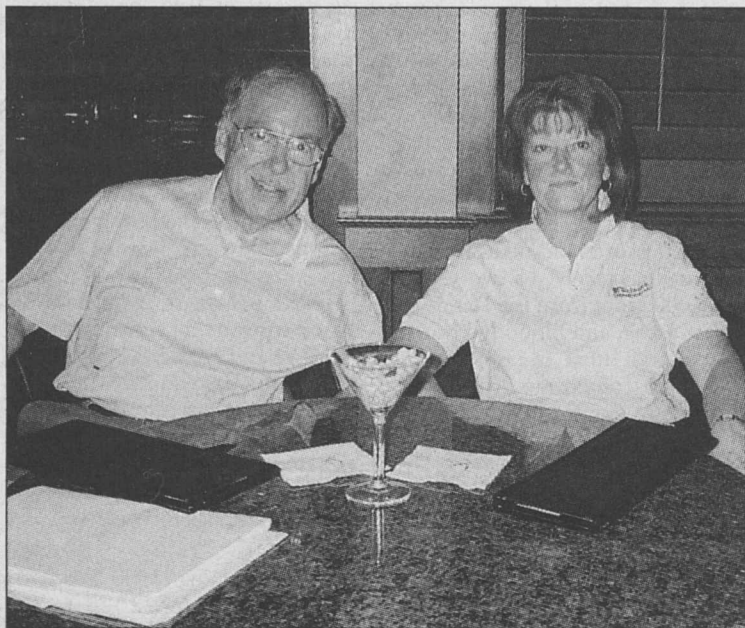
Family: Husband, Bill; stepdaughter, Kim; and son-in-law, Matt. She also has two grandchildren — Brady, 8, and Claire, 3 — and a 15-year-old cockapoo, Baby.

Education: B.S., hotel and restaurant management, 1973, Rochester Institute of Technology. She also was certified as a senior professional in human resources in 1995.

Lives in: Chesterfield, Mo.

Favorite free-time activities: golfing, reading and working out at the gym

Book she is currently reading: "The Front" by Patricia Cornwell. "I'm a big fan of murder mysteries," she says.



Ann B. Prenatt (right) with her husband, Bill.