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Record

Feb. 11, 2005

Volume 29 No. 21



Washington University in St. Louis

New method makes genetic changes easier to identify

'Major technological breakthrough'

By MICHAEL C. PURDY

It is now significantly easier to search long stretches of DNA for genetic changes associated with disease, thanks to School of Medicine scientists.

WUSTL researchers have developed a method called "direct genomic selection" that accelerates the transition between family or population-based studies of disease inheritance patterns and identification of genetic variations that may contribute to disease.

That transition normally slows down dramatically when scientists sequence regions of interest in patients' DNA, determining the letter-by-letter genetic code found in those regions.

With the base sequences from many patients' DNA, scientists can conduct comparisons that highlight the changes most commonly linked to disease, which provide the leads they need to better understand and treat a wide range of disorders.

Researchers reported in a recent issue of *Nature Methods* that they've already applied direct genomic selection to a region of DNA linked to psoriasis, a disfiguring and potentially debilitating inherited skin condition.

"We quickly found 100 previously unidentified genetic variations with potential links to psoriasis," said senior author Michael Lovett, Ph.D., professor of genetics and of pediatrics. "It really is a

much quicker and more affordable way of getting at these types of variations and has potential for applications in other areas, including cancer research."

Lovett is working with his colleagues at the Genome Sequencing Center to make direct genomic selection available to a much wider group of researchers. The approach will further empower the University's BioMed 21 initiative, which is dedicated to harnessing genetic studies and other basic research for improved patient diagnosis and treatment.

"This is a major technological breakthrough," said Mark Johnston, Ph.D., professor and chair of the Department of Genetics. "It's clearly an enabling technology that will let us extract the region of interest from each individual's DNA and sequence it."

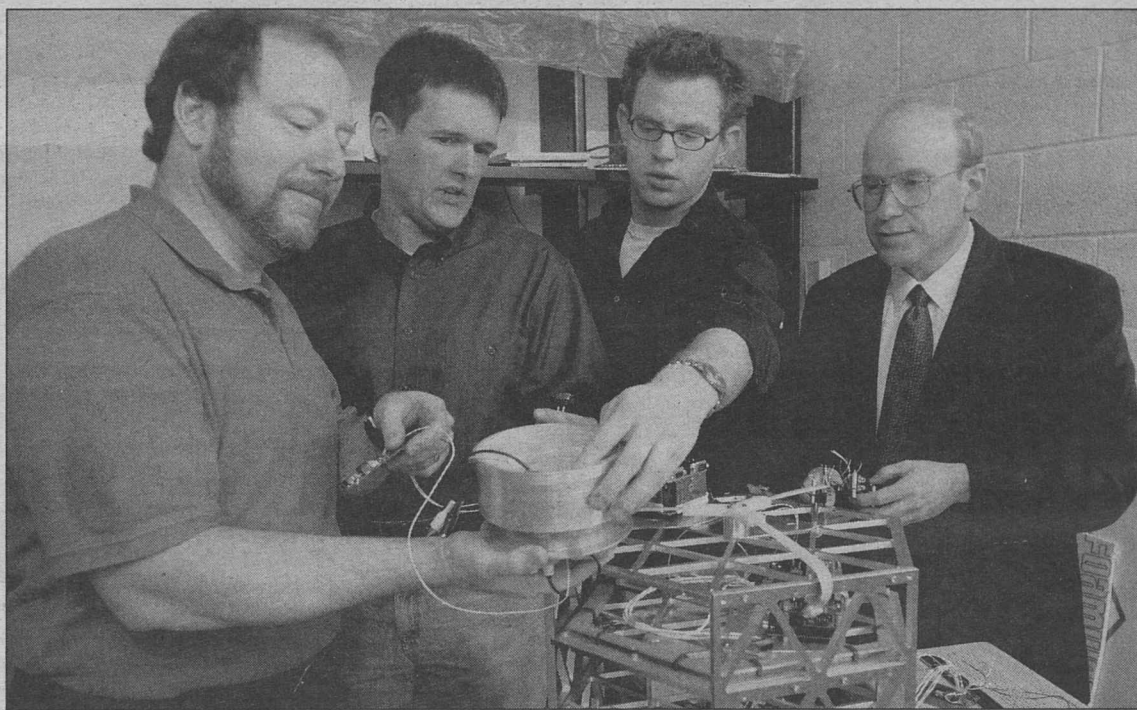
Direct genomic selection answers a growing need for what geneticists call resequencing — sequencing the same genetic region in many individuals.

Scientists measure DNA by its individual units of code, which are known as base pairs. Current automated DNA sequencing technology can process pieces of DNA 700-1,000 base pairs long, but inheritance studies can leave researchers searching for changes in segments of DNA hundreds of times longer.

Scientists formerly had only two unattractive options for circumventing this disparity and sequencing such large regions. One, which reproduces patients' entire genomes, can take up to a year, costs tens of thousands of dollars and discards most of the genetic material produced.

The other uses a process that focuses more directly on the region of interest in patients' DNA but leaves the genetic materials in

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Junior David Corley (left) gets an opportunity to work with the School of Engineering & Applied Science's (from left) Michael A. Swartwout, Ph.D., assistant professor of mechanical engineering; Jared G. Macke, a first-year graduate student; and Keith J. Bennett, adjunct assistant professor of computer science and engineering, recently during a NASA-sponsored competition in Lopata Hall. The new Office of Undergraduate Research will make it easier for undergraduates like Corley to locate research opportunities.

Office of Undergraduate Research unveiled

By NEIL SCHOENHERR

The College of Arts & Sciences has announced the formation of an office to help promote undergraduate research projects.

The Office of Undergraduate Research (OUR) will help place students in research positions, promote their findings and award scholarships.

"The office was started with the hope of really promoting undergraduate research for students in all areas," said Henry Biggs, Ph.D., associate dean in Arts & Sciences and director of the Office of Undergraduate Research. "The natural sciences have some great programs already, but we'd love to develop the social sciences and humanities more than we have in the past."

"I see this office as being a central place for students to locate research opportunities and a way for us to facilitate the undergraduate research experience."

Biggs said a centralized database of positions will be a valuable asset in matching students to positions, thus removing at least one of the obstacles that keep willing students from finding vacant openings.

While research and laboratory work are commonplace in the sciences, Biggs said students from all disciplines will find the database useful. It will list research positions from a wide variety of academic areas, including the humanities.

The searchable online database is at ur.wustl.edu

and lists 190 current research opportunities. Biggs said the database will be updated often.

OUR staff expects to move into a new office in Prince Hall by March 1. With the formation of the office, several initiatives have been planned — the Undergraduate Research Digest, the Undergraduate Research Symposium and a series of research scholarships to be awarded this spring.

The digest will be a collection of undergraduate research projects posted on the OUR Web site. It will include submissions from a variety of fields.

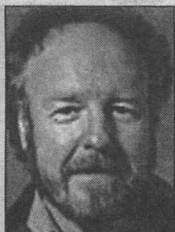
"The idea of the digest is to promote what is out there," Biggs said. "I think a lot of the research done by undergraduate students is not getting the recognition it deserves."

"There is major research being done that nobody knows about, and we'd like that to be revealed a little bit more to the undergraduate student body, to the WUSTL community and to the outside public as well. It also gives students a chance to understand what's required in publishing an article and what needs to be done to communicate to an audience."

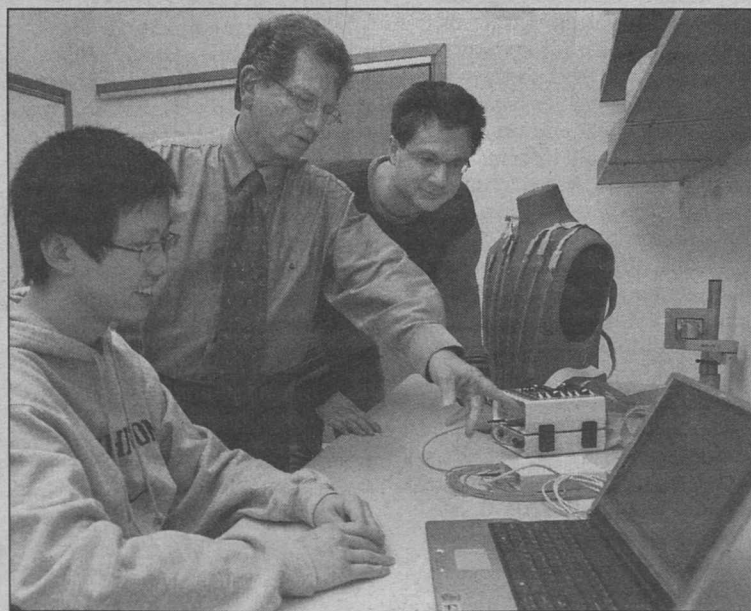
The Undergraduate Research Symposium will be March 21-23 and will provide students a chance to briefly describe their research through posters and visual presentations. The symposium will be divided into a day of presentations on each of three fields: humanities, social sciences and natural sciences.

Applications for the symposium will be accepted

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Lovett



Yoram Rudy, Ph.D. (center), with doctoral student Yong Wang (left) and postdoctoral fellow Leonid Livshitz, discuss cardiac data received from their electrocardiographic imaging system (seen on the mannequin torso at right).

Cardiac cell model sheds light on irregular heartbeats

By TONY FITZPATRICK

University scientists have developed the first mathematical model of a canine cardiac cell that incorporates a vital calcium regulatory pathway that has implications in life-threatening cardiac arrhythmias, or irregular heartbeats.

The work was done by Thomas J. Hund, Ph.D., a postdoctoral researcher in the laboratory of Jeffrey E. Saffitz, Ph.D., M.D., the Paul E. Lacy and Ellen Lacy Professor in pathology and immunology in the School of Medicine; and Yoram Rudy, Ph.D., the Fred Saigh Distinguished Professor of Engineering.

They have incorporated the Calcium/Calmodulin-dependent Protein Kinase II (CaMKII) regulatory pathway into their model,

improving the understanding of the relationship between calcium handling in cardiac cells and the cell's electrical activity.

Normal contraction of the heart relies on normal generation of electrical signals, called action potentials, and their organized spread through cardiac tissue. The normal conduction of action potentials is reliant upon sodium channels.

But slow conduction of action potentials that can lead to heart arrhythmias depends on calcium channels, which, in turn, are modulated by cell calcium.

"CaMKII mediates an important regulatory pathway that influences calcium cycling in the cell and modulates many processes involving calcium, including activities of calcium channels," Rudy said. "Having this pathway

modeled is a valuable research tool because there is a strong link between abnormalities of calcium handling and cardiac arrhythmias.

"In addition, being a first mathematical model of a regulatory pathway involved in cell electrophysiology, it can serve as a paradigm for modeling effects of other regulatory pathways on cell function."

Rudy and Hund published their findings in a recent issue of *Circulation*, a journal of the American Heart Association. The work was funded by grants from the National Institutes of Health's National Heart, Lung, and Blood Institute and a Whitaker Foundation Development Award.

Throughout all living cells, there is a broad array of charged atoms called ions interacting in a

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Isidori becomes first Edwin Murty professor

By BARBARA REA

Alberto Isidori, Ph.D., was installed Dec. 14 as the first Edwin H. Murty Professor of Engineering. The professorship was made possible by a \$1.5 million gift from the estate of Edwin H. Murty.

"Ed Murty was a generous benefactor of the School of Engineering & Applied Science," said Chancellor Mark S. Wrighton, who announced the gift. "He was fascinated by engineering, understanding how things work and how to improve upon them. With this gift, he has helped advance the mission of the school, and for that we are very grateful."

Christopher I. Byrnes, Ph.D., dean of the School of Engineering & Applied Science and the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics, said Murty had attended WUSTL in the 1940s and continued his relationship with the University throughout the years.

"Ed Murty and his wife, Margaret, supported the engineering school in many significant ways, especially with the Murty Electronic Imaging Laboratory in the Department of Electrical and Systems Engineering, as well as a generous scholarship," Byrnes said. "This professorship is the capstone of his long, philanthropic relationship with our school."

Isidori has been a professor in the Department of Systems Science and Mathematics (now part of the Department of Electrical and Systems Engineering) in the School of Engineering & Applied Science since 1989. He also holds a joint appointment as a professor of automatic control at the University of Rome.

"Alberto Isidori is a pre-eminent scholar and has produced seminal research that has made

great leaps in his field of research," Byrnes said.

Those research interests include mathematical control theory and control engineering.

One of his early theories was aimed at the extension of "geometric theory" of multivariable linear systems. Using differential geometric methods in the synthesis of feedback laws for nonlinear systems, he was able to develop systematic methods for addressing outstanding design problems like feedback linearization, noninteracting control, disturbance decoupling and model matching.

Since the 1990s, Isidori has focused his research on problems of disturbance attenuation and robust stabilization of nonlinear systems.

A prolific contributor to research literature in his field, he is the author of eight books, more than 90 articles in academic journals and a similar number of papers for conference proceedings, as well as 16 book chapters. In addition, Isidori has edited or co-edited 19 volumes of conference proceedings.

As a result, he is one of the most-cited authors in the "highly cited" database for engineers (isi-highlycited.com).

Among his most outstanding achievements are being named a fellow of the Institute of Electrical and Electronic Engineering (IEEE), receiving the International Federation of Automatic Control's (IFAC) George Quazza Medal, and being given the Bode Lecture Prize from the Control Systems Society of the IEEE.

Isidori is a past president of the European Union Control Association and also has served as a member of the IFAC Council. He serves or has served on the boards of several leading journals in systems and control, and he has organized several international con-



Christopher I. Byrnes, Ph.D. (right), dean of the School of Engineering & Applied Science and the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics, congratulates Alberto Isidori, Ph.D., at his installation as the first Edwin H. Murty Professor of Engineering. The professorship was made possible by a \$1.5 million gift from the estate of Edwin H. Murty.

"Ed Murty and his wife, Margaret, supported the engineering school in many significant ways, especially with the Murty Electronic Imaging Laboratory in the Department of Electrical and Systems Engineering, as well as a generous scholarship. This professorship is the capstone of his long, philanthropic relationship with our school."

CHRISTOPHER I. BYRNES

ferences on feedback design for nonlinear systems.

Murty, a St. Louis native, was born in 1913. He married Margaret Katherine Club in 1966.

His career included a variety of positions with such companies as Radio Research Co., Bendix Radio, Continental Radio and Curtis Wright.

He also had a stint with the Federal Communications Commission in Portland, Ore., and during World War II he served as a radio engineer at the Puget

Sound Navy Yard in Bremerton, Wash.

After the war, Murty became a sales engineer and representative for Sprague Electric Co. and also for Continental Carbon Inc., Lavole Labs and Kay Sales Co., from which he retired in the 1970s. He died in 2002.

"We are very grateful for Ed Murty's contributions to the School of Engineering & Applied Science," Wrighton said.

"They will be felt for generations to come."

Ethnicity's complexities examined

By NEIL SCHOENHERR

Ryan K. Balot, Ph.D., associate professor of classics in Arts & Sciences, has been awarded a \$95,275 grant from the Teagle Foundation for a working group on "Re-thinking the Pedagogy of Ethnicity."

This group, which will include faculty members from WUSTL, Ohio Wesleyan University and Luther, Millsaps and Union colleges, will work to clarify an understanding of ethnicity, to study the difficulties of discussing ethnicity in the classroom and to improve the pedagogy of ethnicity in the curricula of diverse institutions.

The ultimate goals are to help institutions fulfill the civic mission of educating students in citizenship and to help students grapple with the complexities of ethnicity.

"I'm very excited about this opportunity," Balot said. "I'm looking forward to working with colleagues from these other institutions to gain a better understanding of ethnicity."

"Ethnicity is a subject of central importance for higher education because, among other goals, universities and colleges have a civic mission — namely, to educate students in the virtues of democratic citizenship."

The group plans to debate topics such as:

- What is ethnicity?
- How is it related to religion, nationality, group solidarity, genealogy and territory?

- How can robust concepts of ethnicity be accommodated within the pluralism of democratic political culture?

- Does ethnic humor reflect social tension or contribute to forming group identity?

- What is the relationship between ethnicity and race?

With specific, practical problems in mind, Balot hopes the group can develop strategies for alleviating tensions over ethnicity and directing emotions in ways that contribute to reasonable dialogue.

The group will work through real and imagined classroom situations geared toward interpreting problematic text passages, events or social issues involving ethnicity. It will also discuss the cultural difficulties that hinder cross-ethnic dialogue and attempt to develop ways of lecturing on ethnicity in self-conscious, publicly sanctioned ways.

The group will also discuss how to implement curricular and extracurricular changes to give students experience in discussing ethnicity with each other. Colleges and universities must work toward broader ethnic literacy and understanding if they are to fulfill their civic mission, Balot said.

The final task of the group will be to develop strategies for bringing ethnicity to the forefront as a topic of academic and political attention on campus. This could occur through course requirements, speaker series, group discussions, awareness days, residential life events or writing or speaking contests.



Balot

Upgraded bike locks available through WUSTL police

By ANDY CLENDENNEN

In an effort to stay one step ahead of would-be bad guys, the University Police Department has upgraded its collection of bike locks in the "lease/purchase" program.

Previously, the police issued Kryptonite bike locks that were tubular and had a circular key. But in September of last year, a widely circulated Internet message pointed out that those particular locks had been compromised and could be picked.

"Immediately after being notified, we contacted Kryptonite and were advised that they were re-

viewing the situation and would have a response and product upgrade available very soon," said Mark Glenn, crime prevention officer in the police department.

In late January, the police department received a supply of upgraded locking bars from Kryptonite. These use a flat-key locking mechanism, which is much more resistant to being picked than prior styles.

These upgraded locks are available under the "lease/purchase" program with no increase in the sale price.

The rate remains \$20 for the lock, and members of the Univer-

sity community can either receive their full money back when they leave the University, or they may keep the lock.

For owners of KryptoLoc bike locks with the cylinder style lock, the police department is encouraging direct contact with Kryptonite to receive this free upgrade.

Contact Kryptonite by e-mail at kryptonite@irco.com. This e-mail will initiate an auto re-

sponse from Kryptonite. The company will then contact the owner by e-mail to obtain name, mailing address and the type of lock that the person owns.

Once received, Kryptonite will mail the owner a free product upgrade, including postage.

For more information, contact Glenn at 935-5084. Inquires can also be sent to Kryptonite at locktalk@irco.com.

E-newsletter is introduced by human resources office

By ANDY CLENDENNEN

New policies, programs and procedures are popping up all the time in human resources.

And it can be time-consuming to search the human resources Web site in search of updates or specific information.

But now, individuals with supervisory and/or management responsibilities can receive a new e-newsletter from human resources.

The quarterly newsletter, *HRNews*, contains several sections, including policy highlights, human resources tips, upcoming events and reminders.

All information is timely, concise and applicable to the University's needs. Recipients receive an e-mail with a Web link that takes them to *HRNews*.

"The newsletter is something we've been working on for some time," said Lorraine Goffe-Rush, director of employee relations

and human resources. "HR has a lot of information that needs to be shared with supervisors throughout the year, so the purpose of the newsletter is to provide a convenient and timely way of communicating information about policies, HR tips, reminders and upcoming events, among other things."

Deans, directors, department heads and other supervisors were included in the original distribution list. Individuals who have these responsibilities and would like to receive this newsletter can e-mail hr-news@wustl.edu to subscribe.

Individuals on the list who would prefer to not receive the newsletter can unsubscribe by e-mailing the same address.

"It is our goal to make this e-newsletter as relevant as possible, so please feel free to contact me with any feedback and/or suggestions," Goffe-Rush said.

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Washington University in St. Louis

School of Medicine Update

Improved stem cell procedure offers superior results

BY GWEN ERICSON

An improved stem cell transplant regimen that is well-tolerated and has a high success rate has been developed by School of Medicine researchers.

The procedure holds promise for treatment of blood and bone marrow disorders, immune dysfunction and certain metabolic disorders.

Designed for transplants that replace a patient's bone marrow with stem cells from donor marrow, peripheral blood or umbilical cord blood, the procedure allows early recovery of immune function. It also nearly eliminates transplant rejection and decreases the incidence and severity of graft versus host disease, which occurs when transplanted immune cells attack various cells in the body and is a common complication in transplants.

Termed a "reduced-intensity" protocol, in pediatric patients it may minimize damage to sensitive growing tissues like the brain and reproductive organs.

The pilot study of the procedure was recently reported in the journal *Bone Marrow Transplantation*.

The regimen was administered to 11 pediatric and five adult patients who had nonmalignant bone marrow or metabolic disorders, such as sickle cell anemia, thalassemia or Hurler's syndrome. The patients were at St. Louis Children's and Barnes-Jewish hospitals and the Children's Hospital of New Orleans.

Symptoms and disease parameters stabilized or improved in all patients who underwent successful transplants.

In a successful stem cell transplant, the donor stem cells become permanently established, or engrafted, in the patient's bone marrow and continually produce healthy blood cells.

To prevent the host immune system from destroying the foreign stem cells, physicians administer a pretransplant immune suppressing treatment.

"We wanted an approach that would effectively knock out the

patient's immune system to let the transplanted cells engraft, but then allow immune function to recover quickly," said study leader Shalini Shenoy, M.D., assistant professor of pediatrics and a Siteman Cancer Center faculty member.

A key innovation in this study changes the timing of administering a powerful pretransplant conditioning drug, called Campath-1H, which targets and destroys several vital immune system components.

Previous studies have used Campath-1H in higher doses and gave the drug at transplant time. With such dosing, Campath stayed in the body for up to 56 days after the transplant.

"We give a short, three-day, lower-dose treatment of Campath, three weeks in advance of transplant," Shenoy said. "As a result, we ensure that Campath levels are lower by the time of transplant to help establish donor cells and allow early recovery of immune function."

With standard transplant pro-

ocols, immune function may not fully recover for a year or more, and during this time, the patient is highly susceptible to life-threatening infections.

In this study, the patients' immune functions showed significant recovery by six months, and no major infections were encountered after this period.

Fourteen of the 16 patients had successful bone marrow engraftment of the donor stem cells, and only one experienced late-graft rejection, an unusually high rate of success, according to Shenoy.

Furthermore, the grafts took hold quickly.

Donor stem cells had established in the bone marrow completely at one month, contrasting with other reduced-intensity protocols, in which donor engraftment is gradual and often takes many months.

The protocol also reduced the incidence and severity of graft versus host disease. For the majority of patients who experienced graft versus host disease, the symptoms were limited to the skin

and were controlled with treatments that were later successfully withdrawn.

To minimize damage to growing tissues, such as the brain and reproductive organs in pediatric patients, the protocol uses smaller doses of standard conditioning chemotherapeutic agents.

"In the past, physicians had to accept the potential for brain damage or sterility in pediatric patients treated with chemotherapy," Shenoy said. "We're trying to provide treatments that protect developing tissues."

"We've had our first pregnancy and normal delivery in one of our stem cell transplant patients, so we think the protocol offers hope."

Next, Shenoy plans to evaluate whether changing parameters and further reducing chemotherapy doses would enhance the protocol's effectiveness.

She will also conduct studies targeted at sickle cell anemia and chronic myelogenous leukemia to explore the potential for successful transplants in children with these disorders.



A safe haven Chelsie Smith and Alvin Lucious surround social worker Kelly Nolan for fun and games at the January support meeting of Project ARK (AIDS/HIV Resources and Knowledge). The School of Medicine program coordinates medical care, social support and prevention services for children, young adults, women and families that are infected, affected or at risk for HIV. The program also hosts special events throughout the year to help families develop support systems. "We all consider each other family," says Nolan, who manages more than 45 pediatric cases for the program. "Project ARK offers a safe place for the kids to have fun and network with each other."

Jost named chairman of radiological society

BY MICHAEL C. PURDY

R. Gilbert Jost, M.D., the Elizabeth Mallinckrodt Professor and head of radiology, has been named chairman of the board of directors of the Radiological Society of North America (RSNA).

The society comprises more than 37,000 radiologists, radiation oncologists and related scientists committed to promoting excellence in radiology through education and research, with the ultimate goal of improving patient care.

The RSNA's scientific assembly and meeting is one of the largest annual medical meetings in the world with approximately 60,000 attendees from more than 93 countries.

Jost will serve as chair for one year. Then he will serve successive one-year terms as president-elect and president of the RSNA.

He has been active with the organization for years, serving on numerous committees and joining its board of directors in 1999.

Jost also is the director of the Mallinckrodt Institute of Radiology at the School of Medicine and an affiliate professor of computer science.

He is internationally known for his work to expand and improve the use of information technology in the practice of diagnostic radiology.

Jost became head of the Department of Radiology and director of the Mallinckrodt Institute in 2001 after serving as interim holder of both positions for two years.

Prior to that, he was chief of diagnostic radiology, overseeing several services at BJC HealthCenter.

Before coming to WUSTL, Jost interned at Cleveland Metropolitan General Hospital and was a research associate at the National Institutes of Health.

Jost earned a bachelor's degree at Harvard University and a medical degree at Yale University.



Jost

Passion for social justice, medical education earns Mathews award

BY GWEN ERICSON

Faith, formal education and life experiences have shaped the character of Katherine Jahnig Mathews, M.D., assistant professor of obstetrics and gynecology. But she feels fate played a part in bringing her to St. Louis in 1998, where she has found a way to fulfill her passion for pursuing social justice through medicine.

A faculty member at the Siteman Cancer Center and a physician at ConnectCare, part of the St. Louis region's health-care safety net, Mathews strives to bring together elements of the St. Louis community to improve health-care access for the underprivileged and underinsured.

"My home since moving to St. Louis has been Siteman," she said.

Mathews' efforts have earned her the Association of American Medical Colleges' Herbert W. Nickens Faculty Fellowship for 2004. The annual award

honors an outstanding junior faculty member involved in addressing inequities in medical education and health care.

As co-director of the Program for the Elimination of Cancer Disparities (PECaD) at the Siteman Cancer Center, Mathews and her colleague Dione M. Farria, M.D., assistant professor of radiology, have coordinated efforts to promote breast health in the St. Louis area.

Drawing together partners in Siteman and the local

region, with funding support from the Komen Foundation, Mathews helps provide breast cancer information, make screenings available, and ensure timely treatments for more than 3,500 uninsured and underserved women in the African-American, refugee and immigrant communities.

She believes PECaD can serve as a national model for eliminating economic and social barriers to high-quality health care. Having begun with a focus on breast health, she is now working to expand PECaD's efforts to include cervical, prostate and colorectal cancer.

Fresh from college, Mathews worked overseas in Kenya and Tanzania, serving with the Anglican Church in a community health-worker training project. After returning to the United States, she earned a medical degree, a master's degree in public health and a degree in theology.

These elements interweave in her numerous roles, which in addition to her work at Siteman and ConnectCare, include project director for the Witness Project, a faith-based program to aid breast cancer survivors, and executive health editor of *The St. Louis American*, the area's African-American newspaper. As a physician trustee of the St. Louis Episcopal-Presbyterian Charitable Health and Medical Trust, she also helped commission a study on health care for those living in poverty.

Mathews views health and health care holistically, both in the sense that health encompasses mental as well as physical well-being and in the sense that health depends on whole communities.

"In Africa, I saw health wasn't just about individual

choices — it was also about how clean the water is, how good the education is and what the roads are like," Mathews said. "Surprisingly, many here in St. Louis face a comparable set of concerns. Some areas of the city have very bad health outcomes as the result of large disparities in access to health information and health care."

The Nickens Faculty Fellowship includes a \$15,000 grant to support the recipient's academic and professional activities. Mathews will apply the funding toward a project to enhance minority enrollment in cancer research trials so that research fairly represents all population groups.

"I feel the Nickens award speaks to the gifts we have here as a community, both at Washington University and in the St. Louis region," she said.

"Much of what I've been involved with has been part of a broader energy in the community. I believe there was a wonderful grace in my coming to St. Louis."

Symposium Feb. 17

National alcoholism experts will present research on alcoholism and related psychiatric disorders, such as social phobia, antisocial personality disorder, post-traumatic stress disorder and schizophrenia, at the fifth annual Guze Symposium on Alcoholism from 8 a.m.-5:30 p.m. Feb. 17 at the Eric P. Newman Education Center.

For more information, call 286-2258.



Mathews

University Events

PAD to present Howard Brenton's *Bloody Poetry*

By LIAM OTTEN

In the summer of 1816, Romantic poets Percy Bysshe Shelley and Lord George Byron, both fleeing scandal in their native England, met in Switzerland, sparking one of literature's most storied, passionate and tumultuous friendships.

This month, the Performing Arts Department in Arts & Sciences will revisit those days with Howard Brenton's *Bloody Poetry*, a swirling, lyrical and darkly satirical look at that legendary encounter and its political, emotional and artistic consequences.

Performances will begin at 8 p.m. Feb. 17-19 and at 2 p.m. Feb. 19-20 in the A.E. Hotchner Studio Theatre in Mallinckrodt Student Center.

Written in 1984, *Bloody Poetry* opens on a sunlit beach as Bysshe (played by freshman Lee Osorio) and Byron (senior Brian Stojak) are introduced by Byron's mistress, Claire Clairemont (junior Emily Harrison). Also on hand is the young Mary (Godwin) Shelley (junior Barrie Golden), Claire's stepsister and Bysshe's mistress and future wife.

Aristocratic revolutionaries, the two poets hold much in common, advocating Utopian ideals of freedom and social justice. At the same time, both are often careless in their personal relationships, particularly with women. Byron has left England and a young bride amidst gossip about an affair with his half-sister, while Bysshe has abandoned his first wife, Harriet (sophomore Shari Steinman), and their two children.

Still, for the increasingly tightly knit group, the weeks that follow are marked by free love, lively exchanges and political debate, as well as

the birth of two new literary creations. As Mary develops her novel *Frankenstein*, Byron's biographer and personal physician William Polidori (senior John Stadler) gathers material for *The Vampyre*, the inspiration for *Bram Stoker's Dracula*.

"Much has been made of that practically mythical summer," noted Jason Cannon, a graduate student in English in Arts & Sciences, who directs the cast of six. "Was that orgasmic little band of free-thinkers simply wallowing around in self-indulgence? Or were they — in some deep, dark way — actually transfigured for a few short months, to such an extent that they ever after tried to return? What is the kernel of truth at the center of this particular myth?"

"Thankfully, this play explores not only that summer, but also the subsequent years, and ponders the ramifications of Bysshe Shelley's single-minded search for a Utopian society," Cannon added.

In the end, the poet emerges as wanting "so very deeply, perhaps too deeply — certainly more deeply than most of us allow ourselves — to be 'good, great and joyous, beautiful and free.'"

The production team is led by seniors Sally Dolemba (costume design) and Lindsay Neeman (set design).

Lighting and sound design are by senior Les Karpas and freshman Andrew Benard, respectively. Dramaturge is senior Amy Soll.

Tickets — \$12 for the general public; \$8 for senior citizens and WUSTL faculty, staff and students — are available through the Edison Theatre Box Office, 935-6543, and all MetroTix outlets.

For more information, call 935-6543.



Lee Osorio as Percy Bysshe Shelley and Barrie Golden as Mary Shelley in *Bloody Poetry*, being staged by the Performing Arts Department in Arts & Sciences Feb. 17-20 in the A.E. Hotchner Studio Theatre in Mallinckrodt Student Center.

East Asian Religions • Victory Songs • *Monsieur Ibrahim*

"University Events" lists a portion of the activities taking place Feb. 11-24 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

Inside Out Loud: Visualizing Women's Health in Contemporary Art. Through April 24. Kemper Art Museum. 935-4523.

Film

Friday, Feb. 11

7 p.m. Kemper Art Museum Presentation. *Barbie Nation: An Unauthorized Tour*. Susan Stern, dir. Kemper Art Museum. 935-4523.

Sunday, Feb. 13

1 p.m. French Film Series. *Monsieur Ibrahim*. François Dupeyron, dir. Brown Hall, Rm. 100. 935-4056.

Sunday, Feb. 20

1 p.m. French Film Series. *Raja*. Jacques

Doillon, dir. Brown Hall, Rm. 100. 935-4056.

Lectures

Friday, Feb. 11

12:30-4:30 p.m. St. Louis STD/HIV Prevention Training Center CME Course. "STD Laboratory Methods." (Continues 12:30-4:30 p.m. Feb. 18.) Cost: \$75. University of Mo.-St. Louis campus. For location and to register: 747-1522.

4 p.m. Dept. of Music Lecture. "Patriotic Fervor in Places West: The Role and Meaning of 'Victory Songs' and Sing-alongs in World War I-era St. Louis." Erin Brooks, graduate student in musicology, Dept. of Music. Music Classroom Bldg., Rm. 102. 935-4841.

Saturday, Feb. 12

8 a.m.-4 p.m. Siteman Cancer Center CME Course. "Review of the 2004 San Antonio Breast Cancer Symposium." Cost: \$55. The Ritz-Carlton, St. Louis. Address: 100 Carondelet Plaza. To register: 362-6891.

Monday, Feb. 14

8:30 a.m.-4:30 p.m. Center for the Application of Information Technology Two-Day Workshop. "Consulting Skills for the IT Professional." (Continues 8:30 a.m.-

4:30 p.m. Feb. 15.) Cost: \$1,195, reduced fees available for CAIT members. CAIT, 5 N. Jackson Ave. 935-4444.

Noon. George Warren Brown School of Social Work Spring Lecture Series. "Nonprofit Organizations and the Future of Social Policy." Steven Rathgeb Smith, dir., Nancy Bell Evans Center for Nonprofit Leadership and prof. of public affairs, U. of Wash. Brown Hall, Rm. 124. 935-6661.

Noon. Work, Families, & Public Policy Brown Bag Seminar Series. "Did the Returns to the Early School and Work Experiences of Young Adults Change Over the Last 40 Years?" V. Joseph Hotz, prof. of economics, U. of Calif., Los Angeles. Eliot Hall, Rm. 300. 935-4918.

4 p.m. Immunology Research Seminar Series. "Innate Immunity to Herpes Simplex Virus: Images of Subversion." David Leib, prof. of ophthalmology & visual sciences. Eric P. Newman Education Center. 362-2763.

Tuesday, Feb. 15

12:30 p.m. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "The Structure and Biosynthesis of Trypanosome Surface Molecules: Basic Science and Therapeutic Possibilities." Michael Ferguson, prof. and chair of molecular parasitology, Wellcome Trust Biocentre, School of Life Sciences, U. of Dundee, Scotland. Cori Aud., 4565 McKinley Ave. 747-2630.

4 p.m. Chemistry Seminar. "New Proteomics Technologies: Discovery and Bioengineering for Lifespan Enhancement in *Drosophila*." David E. Clemmer, Robert and Marjorie Mann Chair of chemistry, Ind. U. McMillen Lab., Rm. 311. 935-6530.

Wednesday, Feb. 16

11 a.m. Assembly Series. Social Justice Center Lecture. "The Connection Between Hip-Hop and Poetry." Saul Williams, spoken-word artist. Graham Chapel. 935-5285.

3 p.m. School of Law "Access to Justice" Public Interest Law Speaker Series. "Law, Politics, and Social Justice: Breast Cancer Advocacy and Public Policy." Frances M. Visco, president & member, board of directors and exec. committee, the National Breast Cancer Coalition. Organized in conjunction with *Inside Out Loud: Visualizing Women's Health in Contemporary Art* at the Kemper Art Museum. Anheuser-Busch Hall. 935-4958.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "Phospholipase A2 Regulation and the Lipid MAPS Approach to Eicosanoid Lipidomics." Edward A. Dennis, prof. of chemistry & biochemistry, U. of Calif., San Diego. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Physics Colloquium. "Vortex Dynamics and Fluctuations Near the Magnetic Field Tuned Superconductor-insulator Transition." Victor M. Galitski, dept. of physics, U. of Calif., Santa Barbara. (3:30 p.m. coffee, Compton Hall, Rm. 245.) Crow Hall, Rm. 204. 935-6276.

Friday, Feb. 18

Noon. Cell Biology & Physiology Seminar. "Influenza A Virus M2 Protein as a Coordinator of Virus Entry." Andrew Pekosz, asst. prof. of molecular microbiology and of pathology & immunology. McDonnell Medical Sciences Bldg., Rm. 426. 362-7437.

3 p.m. Joint Center for East Asian Studies Symposium. "Traditional Religious Practices in Contemporary East Asia." James E. Ketelaar, prof. of modern Japanese history & dir., Center for East Asian Studies, U. of Chicago, and Zhiru Ng, asst. prof. of religious studies, Pomona College. (Reception follows.) Women's Bldg. Formal Lounge. 935-4448.

Monday, Feb. 21

Noon. Mallinckrodt Institute of Radiology Lecture. Annual Hyman R. Senturia Lecture. "The Paradigm Shift From Lifetime to 10-year Time-limited Certificates: The ABR Maintenance of Certification Plan." Robert Hattery, exec. dir., American Board of Radiology. Scarpellino Aud., 510 S. Kingshighway Blvd. 362-2866.

Noon. Molecular Biology & Pharmacology

Seminar. "The Regulation of *Drosophila* Aging by Insulin and Its Transcription Factor FOXO." Marc Tatar, assoc. prof. of biology & medicine, Brown U. South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

4 p.m. Immunology Research Seminar Series. "Emerging Views on the Roles of Protein Kinase C-theta (PKCθ) in T Cell Biology." Amnon Altman, division of cell biology, La Jolla Inst. for Allergy & Immunology. Eric P. Newman Education Center. 362-2763.

6:15 p.m. Germanic Languages & Literatures Lecture. "Vernichtendes Gefühl: Zur Affektdynamik von Scham und Schuld in Schillers Jungfrau von Orléans und Kleists Panthesilea." Claudia Ben-thien, assoc. prof. of German, Humboldt U., Berlin. Duncker Hall, Rm. 201, Hurst Lounge. 935-4360.

Tuesday, Feb. 22

Noon. Program in Physical Therapy Research Seminar. 4444 Forest Park Blvd., Rm. B108/B109. 286-1404.

12:30 p.m. Molecular Microbiology & Microbial Pathogenesis Seminar Series. "Mechanotransduction by *Neisseria gonorrhoeae* Type IV Pili: Role in Epithelial Cell Signaling and Gene Expression." Magdalene So, prof. & chair of molecular microbiology & immunology, Ore. Health Sciences U. Cori Aud., 4565 McKinley Ave. 286-2878.

4 p.m. Chemistry Seminar. "Synthesis and Characterization of Magnetic Zintl Phases and Group IV Nanoparticles." Susan M. Kauzlarich, prof. of chemistry, U. of Calif., Davis. McMillen Lab., Rm. 311. 935-6530.

Wednesday, Feb. 23

7:30 a.m.-6:15 p.m. Dept. of Surgery "Invitation Day." Featuring the Eugene M. Bricker Visiting Lecture in Surgery. Cost: \$200. Eric P. Newman Education Center. For more information and to register: 362-6891.

11 a.m. Assembly Series. Thomas Fulbright Lecture in History. "George Washington's Remarkable Generation." Don Higginbotham, Dowd Professor of American History, U. of N.C. Graham Chapel. 935-4620.

11:30 a.m.-3:30 p.m. Inaugural Postdoc Scientific Symposium. Open to all WUSTL faculty, staff and postdoctoral students. (3:30-5:30 p.m. Postdoc poster session & happy hour, McDonnell Pediatric Research Bldg.) Eric P. Newman Education Center. RSVP: 362-2591.

4 p.m. Biochemistry & Molecular Biophysics Seminar. "How Do Proteins Accommodate Charge in Their Hydrophobic Interior?" Bertrand Garcia-Moreno, prof. of biophysics, Johns Hopkins U. Cori Aud., 4565 McKinley Ave. 362-0261.

Spoken-word artist Williams to talk Feb. 16

By KURT MUELLER

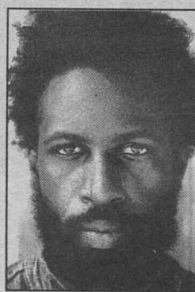
The celebrated spoken-word artist Saul Williams will give a presentation on "The Connection Between Hip-Hop and Poetry" at 11 a.m. Feb. 16 in Graham Chapel. The Assembly Series event will serve as the Social Justice Center Lecture.

His poetry, known as "spoken word," consists of fast words that have an innate rhythm to them, like hip-hop. The goal of the spoken-word movement is to bring poetry back to the people.

Spoken-word artists often compete in "slams," where one poet sounds off against another. Audience members chosen at random judge the events.

Williams became the Grand Slam Champion in 1996 at the Nuyorican Poet's Café in New York City. The café has become an acclaimed forum for innovative poetry, music, hip-hop, visual arts, comedy and theater.

In 1998, Williams appeared in *Slam*, a film that details the life of a young man in prison who discovers the power of poetry and uses it to regain his sense of self. The film won awards at both the Cannes and Sundance film festivals.



Assembly Series

Who: Saul Williams
What: Spoken-word artist, musician
Where: Graham Chapel
When: 11 a.m. Feb. 16
Admission: Free and open to the public

Besides acting and poetry, Williams has written several books including: *She; The Seventh Octave; The Early Writings of Saul Williams*; and, *said the shotgun to the head*. As a musician/poet, Williams has three CDs to his credit. These are the recently released *Saul Williams*, 2003's *Not in My Name* and his 2001 debut, *Amethyst Rock Star*.

Williams earned a bachelor's degree in philosophy and a master's in acting from New York University.

Assembly Series talks are free and open to the public. For more information, go online to assemblyseries.wustl.edu or call 935-4620.

Sports

Men's basketball stays in third-place tie

The men's basketball team remained in a tie for third place in the University Athletic Conference after splitting two home games.

The Bears fell to New York University, 72-58, Feb. 4 at the WUSTL Field House. The game was televised for only the second time since the renovation of the Field House in 1983-84.

Freshman Troy Ruths finished with 13 points and five rebounds off the bench, while senior Anthony Hollins tallied a team-high 14 points.

On Feb. 6, the Bears rebounded with an 80-65 win over Brandeis University. Washington U. held a 46-14 margin in points off the bench, led by Ruths' career-high 18 points.

Senior Rob Keller finished with 14 points, while Hollins added 10 points and two blocked shots. The two blocks moved Hollins into eighth place on the Bears' all-time list.

Women hoopsters split home league games

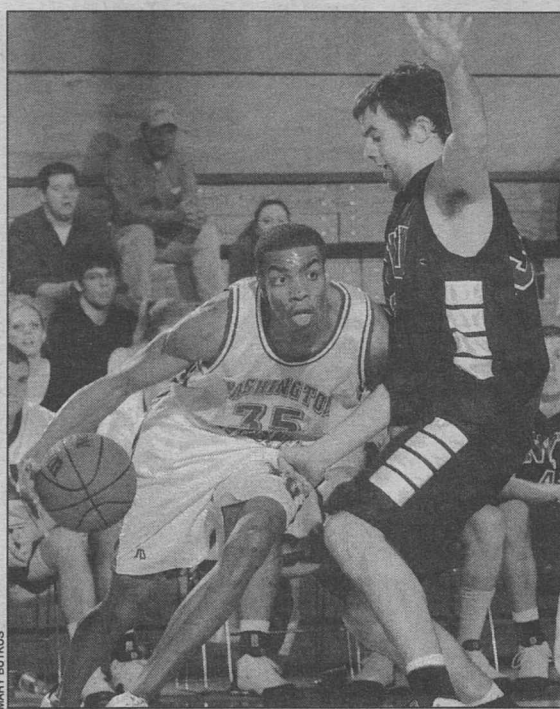
The women's basketball team split its two UAA home contests at the Field House.

WUSTL upended No. 7 New York University, 60-57, Feb. 4. In only the second televised game since the renovation of the Field House and the first in 20 years, the Bears earned a share of first place in the conference race.

The game featured 10 lead changes, but WUSTL garnered the last change with 2:07 left, courtesy of senior Hallie Hutchens' layup.

Hutchens and junior Alicia Herald finished with nine points and 12 rebounds apiece, while sophomore Sarah Schell posted 13 points and six assists off the bench. Schell and the Bears earned their most important defensive stop as time expired, forcing NYU's Rachel Wojdowski to take a desperation potential game-tying 3-pointer from the left wing, which bounced off the back iron.

Two days later, WUSTL dropped a 59-55 decision to No. 14 Brandeis. Much like the game against NYU, BU and WUSTL



Bears senior Anthony Hollins drives to the hoop in a recent game against New York University. Hollins is shooting a team-best .571 from the floor and has grabbed a team-high 110 rebounds in helping the Bears to a 13-7 record with five games remaining in the regular season.

On the Web

For complete sports schedules and results, go to bearsports.wustl.edu.

traded leads throughout until the Judges' Caitlin Malcolm hit a game-winning 18-footer from the top of the key with 3.5 seconds remaining.

Senior Kelly Manning gave the Bears a one-point lead (54-53) with a little more than a minute on the clock after she knocked down two free throws. However, the Bears could not overcome a 29-14 deficit in free throw attempts. Manning led the Bears with 20.

Season-bests the norm for track at Titan Open

WUSTL turned in a number of season-best performances Feb. 5 at the Titan Open, hosted by Illinois Wesleyan University.

The women's squad took sixth place with 38.33 points, while the men finished ninth with 9.75

points.

Junior David Skiba helped lead the men, recording a team season-best time of 7.81 seconds in the 55-meter hurdles. The time was good for sixth place in the event. Senior Lance Moen posted a season-best time in the 400, clocking a 50.99 to finish fourth. The men's 1,600-relay squad finished just shy of a school record. The foursome clocked a 3:24.35, just one second off the team record pace in taking fourth place at the meet.

Michelle McCully posted a time of 59.63 in the women's 400 to take fifth place. The mark was a season best, as was classmate Laura Ehret's time in the 800. Ehret finished second in the event with a mark of 2:21.00.

Basketball games to be televised

The men's and women's basketball teams' games will be broadcast for the second time this season on Charter TV Cable Channel 3 on a tape-delay basis.

The doubleheader against UAA rival Carnegie Mellon University on Feb. 18 will be filmed and re-broadcast on Feb. 19.

The men's game will be aired at 1:30 p.m. Feb. 19, while the women will be aired at 10 p.m.

The men's contest will be re-aired Feb. 21 at 10 a.m., and the women's can be seen a second time at 10 p.m. on Monday.

Randy Karraker will do the play-by-play, while Earl Austin Jr. will provide color commentary.

'Maximizing Civic Engagement of Older Adults' forum Feb. 15

By JESSICA MARTIN

With the first wave of baby boomers preparing for retirement, the 2005 White House Conference on Aging (WHCOA) Oct. 23-26 in Washington, D.C., will be an important opportunity to assess aging in America and improve the lives of older Americans.

St. Louis will play a significant role in shaping the discussion at the conference through "Maximizing Civic Engagement of Older Adults" at 9 a.m. Feb. 15 in Brown Hall Lounge. The public forum is an official WHCOA event, hosted by the George Warren Brown School of Social Work and the Center for Aging.

"We are proud that Washington University was selected as a site for a WHCOA event because of our work on productive aging," said Nancy Morrow-Howell, Ph.D., forum organizer and professor in the School of Social Work.

"We have been studying ways to increase the engagement of older adults in volunteerism, a form of civic engagement that can make a difference in our communities. At the forum, we will present our research findings, and local leaders and volunteers will be describing innovative volunteer programs in the local community."

During the forum, which will be conducted in the style of a legislative hearing, panelists will dis-

cuss their research and recommendations on the topics of civic engagement in older America, the future of volunteerism and caregiving as civic engagement.

Former U.S. House of Representatives Minority Leader Richard A. Gephardt will moderate, along with Dorcas Hardy, chair of the 2005 WHCOA Policy Committee; Bob Blancato, WHCOA Policy Committee member; and Morrow-Howell. Other guests will include local civic-engagement experts and service providers.

After the panels, there will be an opportunity for public comments, questions and participation in a survey on the topic of civic engagement.

Findings from this event will be presented to the WHCOA policy committee and the Gerontological Society of America (GSA) as part of a larger study, "Civic Engagement in an Older America."

The St. Louis event, part of the GSA project, is one of four information and data-gathering forums nationwide. Other forums are being held in Orlando, Phoenix and Boston.

The purpose of GSA's civic-engagement project is to determine how to promote greater civic involvement among older adults in order to improve the quality of life in communities across America.

For more information, call Jenny Kraus-Smith at 935-7573.

Fiction writer Kathryn Davis to read

By LIAM OTTEN

Fiction writer Kathryn Davis will read from her work at 8 p.m. Feb. 17 as part of the Writing Program Spring Reading Series.

In addition, Davis will speak on the craft of fiction at 8 p.m. Feb. 22. Both events will take place in Hurst Lounge, Duncker Hall, Room 201.

Davis, the visiting Fannie Hurst Professor of Creative Literature in the Department of English in Arts & Sciences, is the author of five novels: *Labrador*, *The Girl Who Trod on a Loaf*, *The Walking Tour*, *Hell* and *Versailles*. Her sixth novel, *The Thin Place*, will be released in January.

"Kathryn Davis' fiction defies description," said Kellie Wells, assistant professor of English and fiction writer on The Writing Program faculty. "No other writer

boldly dares to claim-stake the same fictional territory. No one else writes a sentence like Davis or bores through the world's deceptive veneer with the gimlet eye that she does.

"Her voice is one of the most interesting and original in American fiction."

Davis has received a Kafka Prize for fiction by an American woman; the Morton Dauwen Zabel Award from the American Academy of Arts and Letters; and a Guggenheim Fellowship. She teaches at Skidmore College in Saratoga Springs, N.Y.

Both events are free and open to the public. A reception will follow each, and copies of Davis' books will be available for purchase after the reading.

For more information, call 935-7130.



Davis

4 p.m. Physics Colloquium. "Randomly Packed Particles: K-Core Percolation and the Geometry of Jamming." Jennifer M. Schwarz, dept. of physics & astronomy, U. of Penn. (3:30 p.m. coffee, Compton Hall, Rm. 245.) Crow Hall, Rm. 204. 935-6276.

Thursday, Feb. 24

7:30 a.m.-5:40 p.m. Dept. of Surgery CME Course. "Refresher Course & Update in General Surgery." (Continues 7:30 a.m.-9:30 p.m. Feb. 25 and 7:30 a.m.-5 p.m. Feb. 26.) Cost: \$450 for physicians, \$375 for physicians in training and allied health professionals. The Ritz-Carlton, St. Louis, 100 Carondelet Plaza. For more information and to register: 362-6891.

3 p.m. Chemistry Seminar. "Multi-scale Modeling of Sol-gel Materials and Capillary Phenomena." Lev Gelb, asst. prof. of chemistry. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Italian Studies Lecture. Annual Paul Rava Memorial Lecture. "When Europe Loses Its Magic: Massimo Bontempelli's 'Europa.'" Keala Jewell, prof. of Italian, Dartmouth U. Women's Bldg. Formal Lounge. 935-5175.

4 p.m. Ophthalmology & Visual Sciences Seminar. "Notch Signaling in Development and Disease." Raphael Kopan, prof. of molecular biology & pharmacology and of medicine. Maternity Bldg., Rm. 725. 362-1006.

On Stage

Friday, Feb. 11

8 p.m. Student Presentation. *The Vagina Monologues* by Eve Ensler. (Also 8 p.m. Feb. 12.) Proceeds benefit Women's Support & Community Services. Cost: \$10, \$8 for WUSTL faculty, staff, & students. Graham Chapel. 935-6543.

Thursday, Feb. 17

8 p.m. Performing Arts Department Presentation. *Bloody Poetry* by Howard Brenton. Jason Cannon, dir. (Also 8 p.m. Feb. 18 & 19; 2 p.m. Feb. 19 & 20.) Cost: \$12, \$8 for seniors, students, WUSTL faculty & staff. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-6543.

Friday, Feb. 18

7 p.m. Kemper Art Museum Presentation. *She's Hideous* by Eric Dienstfrey. Organized in conjunction with the dept. of music. Kemper Art Museum. 935-4523.

Sports

Friday, Feb. 18

6 p.m. Women's Basketball vs. Carnegie Mellon U. Athletic Complex. 935-4705.

8 p.m. Men's Basketball vs. Carnegie Mellon U. Athletic Complex. 935-4705.

Sunday, Feb. 20

Noon. Men's Basketball vs. U. of Rochester. Athletic Complex. 935-4705.

2 p.m. Women's Basketball vs. U. of Rochester. Athletic Complex. 935-4705.

And more...

Friday, Feb. 11

10 a.m.-2 p.m. Washington University Spring Career Fair. Open to all WUSTL students and alumni. Sponsored by Engineering Career Services. Mallinckrodt Student Center, Lower Lvl., The Gargoyle. 935-4459.

Monday, Feb. 14

11:30 a.m.-4:30 p.m. Blood Drive. Co-sponsored by Pi Beta Phi sorority and Chi Omega fraternity. (Also 11:30 a.m.-4:30 p.m. Feb. 15, Mallinckrodt Student Center, Lower Lvl., The Gargoyle, and 5-10 p.m. Feb. 16 & 17, Wohl Student Center, Friedman Lounge.) Mallinckrodt Student Center, Lower Lvl., The Gargoyle. 291-4741.

3:30 p.m. Career Center Event. Internship Search Strategies. Umrath Hall, Rm. 157, The Career Center. 935-5930.

Tuesday, Feb. 15

5:15 p.m. Career Center Event. Student Advisory Board Meeting. Umrath Hall, Rm. 157, The Career Center. 935-5930.

Wednesday, Feb. 16

12:10-12:50 p.m. "Chat With the Chancellor." Mark S. Wrighton, Chancellor. West Campus Multipurpose Room. 935-5990.

4 p.m. Career Center Event. Career Planning II: Where Do I Begin? Umrath Hall, Rm. 157, The Career Center. 935-5930.

Monday, Feb. 21

3:30 p.m. Career Center Event. Resume & Cover Letter Writing. Umrath Hall, Rm. 157, The Career Center. 935-5930.

Tuesday, Feb. 22

5 p.m. Career Center Event. Job Search Strategies. Umrath Hall, Rm. 157, The Career Center. 935-5930.

Wednesday, Feb. 23

5 p.m. Career Center Event. Interviewing Skills 101. Umrath Hall, Rm. 157, The Career Center. 935-5930.

Campus Watch

The following incidents were reported to University Police Feb. 2-8. Readers with information that could assist in investigating 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.

Crime alert

On Feb. 4, the residents of an apartment in the 6100 block of Waterman Avenue interrupted a burglary in their apartment at about 10 a.m. Upon observing the suspect in the apartment, the suspect fled and no property was stolen. No one was injured in the incident, and there was no forced entry into the apartment.

The suspect is described as an African-American male in his mid- to late-30s, wearing dark pants, a maroon jacket and a black skull cap.

WUPD recommends that students living in off-campus housing take precautions, including:

- Report suspicious persons or activity immediately to the police by calling 911, or go to the nearest emergency blue light telephone;
- Lock your apartment door at all times;
- Lock the windows to your

apartment;

- Don't allow people you do not know to "tailgate" behind you into the building;

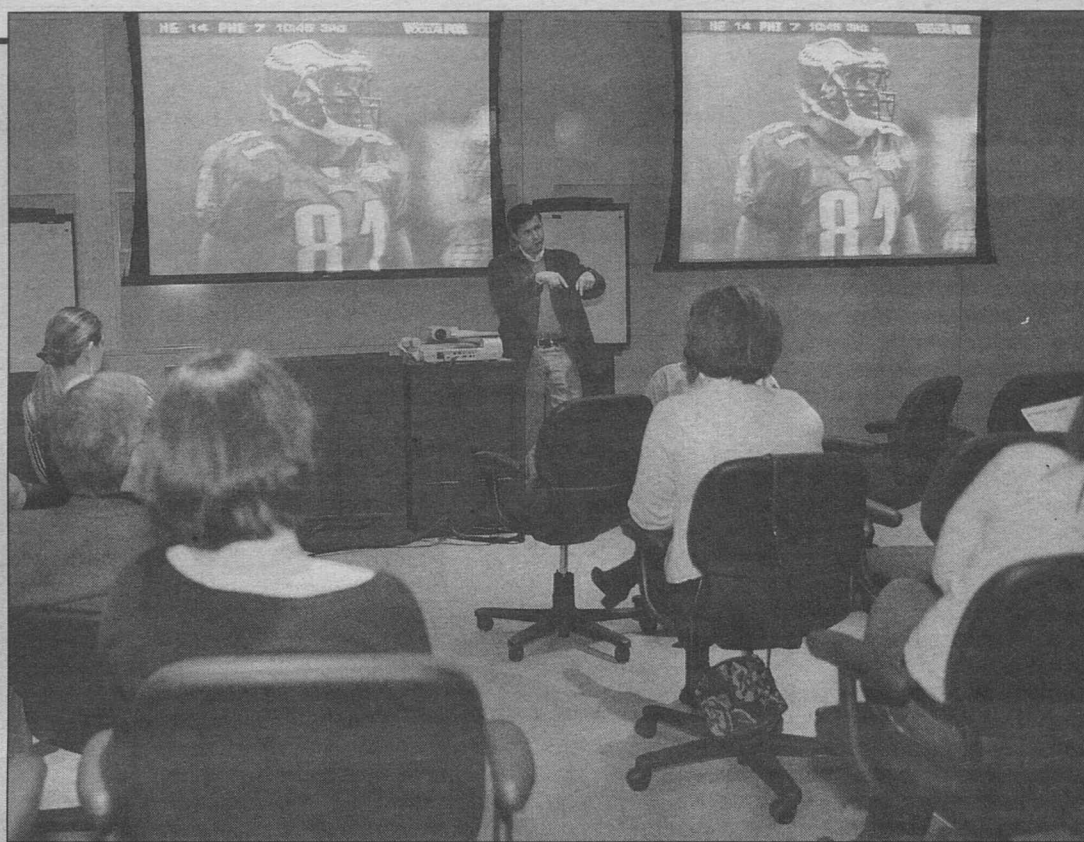
- When someone knocks at your door, don't open it unless you know the person;

- Someone may knock at your door to use the telephone. Never open the door. Take the message and make the call for them;

- If you arrive home to find your door ajar, hear unusual sounds or believe your apartment has been broken into, don't go in. Go to a telephone and call the police.

Contact St. Louis Police if you have any information that might assist in this investigation.

Additionally, University Police responded to three reports of property damage, two auto accidents and one report each of larceny and parking violation.



Was there a football game, too? More than 100 students, faculty and staff from the Olin School of Business gathered Feb. 6 at the Charles F. Knight Executive Education Center for the annual "Super Ad Bowl," an opportunity to watch and evaluate the advertisements broadcast during the Super Bowl. The event included presentations by area advertising executives such as Todd Crombeecke (above), senior vice president and account director at Leo Burnett, who spoke about what makes an effective advertisement. Students voted for their favorite spot based on the criteria laid out by Crombeecke. The hands-down winner: Diet Pepsi's ad in which musician P. Diddy unexpectedly creates a fad for the soft drink's trucks.

Construction Update

Construction Update is published periodically and provides information about the progress of major building and renovation projects. Information is provided to the *Record* by facilities management and by Metro.

Hilltop Campus

Phase IVA Housing

Construction has begun on the project just east of Liggett Residence Hall, replacing Koenig House. The last slab-pour was completed Feb. 4. Inclement weather has affected much of the progress, but time will be recovered on the roof work and interior-finish scheduled activities. Completion and occupancy is still scheduled for August.

Fox Arts Center

The construction fencing has been erected and excavation has begun. The project, at the southeast corner of the Hilltop Campus, is scheduled for completion in late spring 2006.

Social Sciences/Law Building

The programming and planning for the new building at the east end of parking lot No. 31, between Anheuser-Busch Hall and Simon Hall, is under way.

tween Anheuser-Busch Hall and Simon Hall, is under way.

University Center

The programming and planning for the new building in the vicinity of parking lot No. 34, just west of Mallinckrodt Student Center, is under way.

MetroLink

Forest Park-DeBaliviere station to Kingsland Ave.

Current work includes installing the concrete-base slab in the tunnel near Skinker Boulevard, installing the concrete approach walls to tunnels and excavation of the tunnel east of Skinker.

In the next three months, passers-by can expect to see the start of the installation of tunnel roof sections west of Skinker, continued concrete construction at tunnel east of Skinker and the

Skinker station, and the continued construction of numerous tunnel approach walls and retaining walls.

Kingsland Ave. to Ritz-Carlton Drive

Current activities include installation of tunnel roof sections west of Big Bend Boulevard, installation of the roof on the University City-Big Bend station, backfilling over the tunnel east of Forsyth Boulevard, construction of platforms at the Forsyth and University City-Big Bend stations, and construction of the tunnel floor and walls east of Big Bend.

Planned work for the next three months includes substantially completing the Forsyth station construction, continued tunnel concrete work, including installation of tunnel roof sections west and east of Big Bend, and continued construction of University City-Big Bend station platforms and walkways.

Medical Campus

The **Farrell Learning and Teaching Center** is slated to open by Aug. 22 — the first day of classes for the 2005-06 academic year.

The renovation of **Moore Auditorium** in the North Building — also part of the Farrell Learning and Teaching Center — will be completed by the start of May.

The 40,000-square-foot **Specialized Research Facility** will be built by the end of April.

The **Euclid Garage** demolition is slated to be finished by the end of February.

The construction of the **Metro Garage**, at the corner of Taylor Avenue and Children's Place, and the extension of the **Clayton/Taylor Garage** began construction in February and should be completed by December. Each garage will offer parking for 700 cars.

Model

Method provides tool for diagnosis, treatment

— from Page 1

dynamic environment. Ion channels along cell membranes open and close to allow these interactions.

In heart cells, for instance, many different kinds of ion channels interact to generate the action potentials that go through the heart and cause a synchronized, normal contraction.

In a normal heart, action potentials form very organized waves of activity and contraction. In arrhythmia, though, normal spread of action potentials can be disrupted, either by a focal activity of a confined group of heart cells or by electrical waves that break the heart's synchrony in a number of different scenarios.

The largest killer of Americans is heart disease, claiming 1 million Americans annually. More than 300,000 of these deaths are attributed to arrhythmia, 7 million worldwide.

Rudy has used a computational-biology approach to study arrhythmias at various levels (ion channels, cell, multicellular tissue) of the cardiac system, and researchers in his laboratory have also developed detailed computer models of the workings of cardiac cells and their alteration by genetic mutations.

Until recently, heart specialists have not had noninvasive tools like MRI and CT to better understand the heart's electrical function. In work supported by a Merit Award from the NIH, Rudy has pioneered a novel, noninvasive imaging modality for cardiac electrophysiology and arrhythmias.

The new method, electrocardiographic imaging (ECGI), adds a much-needed clinical tool for the diagnosis and treatment of erratic heart rhythms. It also provides a noninvasive method for

mechanistic studies of cardiac arrhythmias in humans.

"ECGI has much potential," Rudy said. "One application could be as a screening tool to identify patients at risk of sudden death from arrhythmia. Another is diagnosis and guidance of therapeutic interventions."

"We have tested and validated the technology extensively in animal experiments and recently have started its application in humans."

Rudy's technology, instead of using 12 electrodes like EKG, uses 250 electrodes in a vest the patient wears. This vest takes the equivalent of 250 EKGs simultaneously, getting electrical data from the entire torso.

At the same time, anatomical data that include the torso geometry and the shape and location of the heart are obtained via a CT scan.

"We obtain two pieces of information — the EKG field on the body surface and the CT information for the geometrical relationship of the heart and torso," Rudy said. "Over the years, we've developed the mathematics and computer algorithms to combine these two pieces of information and solve for the electrical activity of the heart."

Rudy joined WUSTL in September, bringing with him from Case Western Reserve University 22 people, including two faculty members (Jianmin Cui, Ph.D., and Igor R. Efimov, Ph.D.), doctoral students and laboratory personnel.

Rudy is a professor of biomedical engineering in the School of Engineering & Applied Science, and of cell biology and physiology, of medicine, of radiology and of pediatrics, all in the School of Medicine.

He will establish an interdisciplinary center for the study of cardiac electrophysiology and arrhythmias, the Cardiac Bioelectricity and Arrhythmia Center, with faculty in various departments of the medical and engineering schools.

Gene

— from Page 1

a state that requires considerable time and effort to prepare them for sequencing.

Direct genomic selection both zeroes in on the region of interest and produces genetic material in a form that can easily be prepared for automated sequencing systems, according to Lovett.

Direct genomic selection crafts what Lovett calls "fishing rods" from genetic material produced and maintained by the Human Genome Project.

For that project, researchers divided the human genome into many sections and copied the sections into bacterial artificial chromosomes (BACs), structures they implanted in bacteria for easy reproduction of DNA.

Scientists interested in a particular region of the human genome can now order the BAC of that region from the genome project and use Lovett's procedure to modify the BAC with biochemical hooks, making it possible to fish out the corresponding region from a patient's DNA for sequencing.

sponding region from a patient's DNA for sequencing.

Lovett also developed modifications to the steps used to prepare patient DNA. The steps ensure that the material snared by the fishing rods can easily be prepared for sequencing.

"The challenge now is that we have many disease genes that are not all-or-nothing factors — they can be linked to increased risk of disease, but not to guaranteed development of the disease," Lovett said. "In some such instances, there's concern that another gene or bit of genetic code sitting somewhere nearby, in the same approximate region, might be able to more completely explain what happens in the disease."

Direct genomic selection should also be helpful to cancer research, according to Lovett.

"In many cancer cases, we know there are alterations in the DNA of cancer cells — deletions, additions or substitutions," Lovett said. "We've had great difficulty in narrowing those differences down, but direct genomic selection could help scientists go in, grab the appropriate region of DNA, sequence it and start to learn what's going on."

they are accepted.

"There is no question that if a student can show a potential employer that they have a published article in a journal and they have presented their work before their peers and professors, it really gives them quite an edge in getting hired," Biggs said. "We think the digest and the symposium will give students presentation and communication skills that go far beyond work done in their particular field."

For more information, go online to ur.wustl.edu.

Employment

Go online to hr.wustl.edu (Hilltop Campus) or medicine.wustl.edu/wumshr (Medical Campus) to obtain complete job descriptions.

Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to hr.wustl.edu. For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

Planned Giving Officer 040145
Research Statistician 040221
Clinical Study Coord. 050048
Dir. of Development, School of Law 050085
Earth & Planetary Sciences Library Asst. 050097
Reference Librarian/Instruction & Outreach Coord. 050098

Student Services Coord. 050117
Medical Sciences Writer 050120
Systems Administrator/Data Manager 050131
Research Technician 050141
Asst. Business Manager 050144
Employee Relations Manager 050150
Assoc. Dir. for Media Relations 050151
Department Secretary 050152
Mechanic (Bargaining Unit Employee) 050154
Special Collections Asst. 050155
Executive Secretary 050156
Asst. Dir. of Admissions 050157
Accounting Manager 050159
Administrative Coord. 050160

Special Asst. to the Dean 050165
Animal Care Technician 050166

Medical Campus

This is a partial list of positions in the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit résumés to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Research Technician II 050756
Research Technician II 050870
Insurance Billing & Collection Asst. II 050872
Clinical Specialist PT/OT 050874

Clinical Research, Nurse Coord. 050876
Professional Rater I 050877
Research Patient Coord. 050878
Facilities Supervisor 050879
Sr. Payroll Associate 050880
Coord.: Imaging Research 050882
Professional Rater I 050885
Exec. Dir., Business Affairs 050886
Research Patient Coord. 050887
RN Staff Nurse 050888
Research Asst. 050889
Sr. Pet Radiopharmaceutical Technician 050890
Clerk I 050891
Insurance Billing & Collection Asst. II 050899

Notables

Center for Research on Innovation & Entrepreneurship awards grants

By JESSICA MARTIN

The Center for Research on Innovation & Entrepreneurship (CRIE) has awarded eight research grants to faculty members.

The awards support a variety of individual research projects focusing on some aspect of innovation and entrepreneurship.

Funding for these grants was made possible by a three-year research grant by the Ewing Marion Kauffman Foundation to supplement the five-year, \$3 million grant awarded to the University as a part of the Kauffman Collegiate Campus Initiative, which seeks to promote a more entrepreneurial culture on U.S. university campuses.

The University's Kauffman Research Subcommittee, chaired by Robert E. Thach, Ph.D., dean of the Graduate School of Arts & Sciences, evaluated 15 proposals and granted an initial year of funding for eight. Some of the funding may extend to three years, subject to an annual review of the research's progress.

"The eight projects were chosen because of the significance of the research and the overall research project plan," said Charles R. McManis, J.D., CRIE director and the Thomas and Karole Green Professor of Law.

"These research projects also have a strong tie to the interests of the Kauffman Foundation: innovation and productivity in organizations; technology transfer among science, law and business; how entrepreneurs learn; women and minorities as entrepreneurs; and economic development and how entrepreneurship impacts growth, wealth and humankind."

The recipients of CRIE's research funding and the focus of their research projects are:

• **Gary H. Brandenburger**, director of entrepreneurial programs in the School of Engineering & Applied Sciences, will survey leading universities to determine the effects of their intellectual property policies on senior design courses, and then may survey graduates and employers to infer outcomes of the various intellectual property policies and course content. His research project is titled "The Effects of Intellectual Property Policy on Engineering Design and Experiential Learning Courses."

• **Steven M. Fazzari**, Ph.D., professor and chair of the Department of Economics in Arts & Sciences, and **Bruce Petersen**, Ph.D., professor of economics, will explore the interrelationship of the research and development and equity financing booms over the past 20 years and develop a model, along with empirical support, of endogenous changes in economic growth cause by fluctuations in the availability of finance. Their research project is titled "Endogenous Technological Change, Economic Growth and Financing Constraints."

• **Barton H. Hamilton**, Ph.D., the Robert Brookings Smith Distinguished Professor of Entrepreneurship in the Olin School of Business, will investigate the determinants of angel investing behavior by examining whether the trends observed in the formal venture capital market during the 1990s are also found in the informal angel investment market. Hamilton's research project is titled "Angel Investing and the Equity Gap."

• **Mark J. Jakiela**, Ph.D., the Lee Hunter Professor of Mechan-

ical Design in the School of Engineering & Applied Science, will examine how to facilitate end-user disclosure of ideas for improvement of products or production of aftermarket products. His research project is titled "Users and Product Developers: A Model for Communal Innovation & Entrepreneurship."

• **Chris P. Long**, Ph.D., assistant professor of organizational behavior, and **Judi McLean Parks**, Ph.D., the Reuben C. and Anne Carpenter Taylor Professor of Organizational Behavior, both in the Olin School, will examine the actions managers take to promote an appropriate control-trust-fairness balance in ways that foster innovation and entrepreneurship. The title of their research project is "Cultivating and Combining Innovation's Essential Ingredients: The Development and Integration of Control, Trust and Fairness in Entrepreneurial Contexts."

• **McManis** will utilize the experience of the law school's new Intellectual Property & Business Formation Legal Clinic, funded by the Kauffman Collegiate Campus Initiative, to examine how early stage access to affordable legal services (and the lack thereof) affects the innovative process. His research project is titled "A Pilot Project to Collect Data and Design an Empirical Study on the Impact of Early Stage Access to Affordable Intellectual Property and Business Formation Legal Services on the Innovative Process."

• **Amit I. Pazzgal**, Ph.D., associate professor of marketing at the Olin School, will study the impact of entrepreneurs' decision-making on potential exit strategies by creating a comprehensive and unique data set encompassing financing details for virtually all Israeli technology startup firms.

• **Gautam N. Yadama**, Ph.D., associate professor in the George Warren Brown School of Social Work, will examine how citizens in small Chinese villages innovate and become entrepreneurial in securing essential social services. Yadama will compare data from two Chinese provinces, one relatively prosperous on the coast of China, and the other a less prosperous province in southwestern China. The research project is titled "Entrepreneurial Approaches to Providing Public Goods: An Examination of Social Innovation in China."

CRIE staff members expect to issue another request for research proposals in September.

For more information, e-mail McManis at mcmanis@wustl.edu.



Welcome! James E. McLeod (right), vice chancellor for students and dean of the College of Arts & Sciences, chats with freshman Ashley Chapman and her parents, Howard and Dale Chapman, during the recent Transfer Student Orientation Reception in Holmes Lounge. More than 80 students and their families attended the event.

Faculty members receive promotions, tenure

At recent Board of Trustees meetings, the following faculty members were granted tenure, promoted with tenure, appointed with tenure or granted a track change with tenure effective July 1, 2004, unless otherwise noted.

Promotion with tenure

- **Craig M. Coopersmith**, to associate professor of surgery (general surgery) in the School of Medicine, effective March 5, 2004
- **Kevin J. Black**, to associate professor of psychiatry in the School of Medicine
- **Adam S. Kibel**, to associate professor of surgery (urologic) in the School of Medicine, effective March 5, 2004
- **Gregory M. Lanza**, to associate professor of medicine in the School of Medicine, effective Nov. 1, 2004
- **Tamara L. Brent**, to associate professor of molecular microbiology in the School of Medicine, effective Oct. 1, 2004
- **Russell N. Van Gelder**, to associate professor of ophthalmology

and visual sciences in the School of Medicine, effective Dec. 3, 2004

Granting of tenure

- **Tava Maryanne Lennon Olsen**, as associate professor of operations and manufacturing management in the Olin School of Business
- **Martin I. Boyer**, as associate professor of orthopaedic surgery in the School of Medicine, effective Oct. 1, 2004

Appointment with tenure

- **Brian F. Crisp**, as professor of political science in Arts & Sciences
- **Jianmin Cui**, as associate professor of biomedical engineering in the School of Engineering & Applied Science
- **Igor R. Efimov**, as associate professor of biomedical engineering in the School of Engineering & Applied Science
- **Mark A. McDaniel**, as professor of psychology in Arts & Sciences
- **Samuel R. Bagenstos**, as professor of law in the School of Law
- **Margo Schlanger**, as professor of law in the School of Law

• **Judith Evans Grubbs**, as professor of classics in Arts & Sciences

- **Viatcheslav Solomatov**, as associate professor of earth and planetary sciences in Arts & Sciences, effective Sept. 1, 2004
- **Brent D. Matthews**, as associate professor of surgery (general surgery) in the School of Medicine, effective Oct. 1, 2004
- **Simon N. Powell**, as professor and head of radiation oncology in the School of Medicine, effective Oct. 1, 2004
- **Robert L. Barrack**, as professor of orthopaedic surgery in the School of Medicine, effective Oct. 1, 2004
- **Yoram Rudy**, as the Fred Saigh Distinguished Professor of Engineering in the School of Engineering & Applied Science, effective Sept. 1, 2004

Track change

- **J. David Dickman**, to associate professor of neurobiology with tenure in the School of Medicine, effective Dec. 3, 2004

Biology doctoral student named Canon parks scholar

By TONY FITZPATRICK

Jennifer Neuwald, a doctoral student in biology in Arts & Sciences, has joined seven other American and Canadian doctoral students as 2004 Canon National Parks Science Scholars.

Each student is awarded a \$78,000 scholarship that will support research and education expenses during the next three years.

The Canon National Parks Science Scholars Program helps develop the next generation of scientists working in the fields of conservation, environmental science and national-park management.

The scholarship program is collaboration between Canon U.S.A. Inc., the American Association for the Advancement of Science (AAAS) and the National Park Service (NPS).

Neuwald, from Frederick, Md., is studying the effects of fire suppression on the collared lizard in the Ozark National Scenic Riverway in Missouri.

Her research will help contribute to the understanding of how prescribed forest fires can help maintain genetic and biological diversity.

The program awards eight annual individual scholarships totaling \$624,000 to doctoral students from throughout the Americas.

Scholars are selected from the disciplines of biological sciences, physical sciences, social/cultural sciences and technology innovation in support of conservation science.

The scholarships provide students with resources to conduct research critical to conserving the national parks of the Americas.

Established in 1997, the Canon National Parks Science Scholars

Program expanded internationally in 2002 to include the United States, Canada, Mexico, the countries of Central and South America, and the countries of the Caribbean.

Scholars have conducted research in over 50 national parks, and published and presented over 75 scientific articles and presentations.

Canon U.S.A., a subsidiary of Canon Inc., has committed more than \$8 million since the inception of the program. From 1990, the company's environmental philanthropy has exceeded \$30 million, establishing Canon as one of the largest corporate supporters of environmental education and conservation.

The AAAS is the world's largest general scientific organization. The nonprofit professional society is dedicated to fostering scientific freedom and responsibility, improving the effectiveness of science in the promotion of human welfare, advancing education in science and increasing the public's understanding and appreciation of the promise of scientific methods in human progress.

The NPS' mission is to preserve roughly 83 million acres in 388 national parks for the enjoyment of future generations.

For the Record

Of note

Aimee S. Chang, M.D., a clinical fellow in reproductive endocrinology and infertility in obstetrics and gynecology, has received the 2005 Berlex Scholar Award in Basis Science for her work on chronic maternal diabetes and effects on oocyte development and maturation. The \$50,000 Berlex Scholar awards are given annually to support individuals pursuing research careers in reproductive medicine. ...

Amy Q. Shen, Ph.D., assistant professor of mechanical engineer-

ing, has received a one-year, \$100,000 grant from the National Science Foundation's Small Grants for Exploratory Research Program to study biomimetic smart materials. Shen also received an unrestricted gift of \$40,000 from Procter & Gamble to support her research in forming emulsion droplets inside microfluidic devices. ...

Ramesh K. Agarwal, Ph.D., the William Palm Professor of Engineering, is principal investigator for a one-year, \$99,701 grant from the National Science Foundation for a study titled "Modernization of Aerospace Engineering Curriculum."

Washington People

Nanette Tarbouni did everything wrong when she looked for a college. Exams? Tarbouni took the ACT and the SAT once each — in her senior year of high school.

Visits? Nah, she didn't see her new school until the day she moved into Tulane University.

So she knows exactly what to tell kids NOT to do when looking at prospective schools.

"We just weren't very sophisticated when looking at colleges in the mid-'70s," Tarbouni said. "All the advice I would never give, I was the example of."

"But maybe that tells us that there are lots of places people can be happy, and that's one of the messages we try to convey to families."

Tarbouni conveys messages to families just about every day of the year, but that's just a small part of her role as director of undergraduate admissions.

From flying across the country to visit high schools to reading 12-page applications, from hosting prospective students visiting the



Director of Undergraduate Admissions Nanette Tarbouni and Steve Frappier, associate director of admissions, go over some details regarding April Welcome festivities.

Taking things to a personal level

Nanette Tarbouni gets to know potential students as well as possible

campus to organizing events for guests, Tarbouni plays a big role in the makeup of the University, a role she's played ever since graduating from Tulane.

Following her undergraduate years, she stayed on three years as an academic adviser in the dean's office. Then, she moved to St. Louis.

"Of course there was nowhere you'd want to work in St. Louis except Washington U.," she laughs, "but there were no openings at the time, late 1982."

So she headed to the University of Missouri-St. Louis, where she again worked as an academic adviser, this time for just eight months.

"Then lo and behold, there was an advertisement in the paper for this job (admissions counselor), back in the days when you could actually find jobs in the paper," she said. "I immediately applied and came to interview. I had done advising for 3-4 years; I thought I would do admissions for a couple of years and the next step would be to go to student services for a couple years and then settle on what I liked best."

"But this admissions thing just got in my blood, and I cannot leave!"

Which might sound odd to some, but not her colleagues in the admissions office. Tarbouni has stayed, and her efforts — and loyalty — are appreciated.

"It is so rare in the world of admissions that a person of Nanette's talent would remain at one place for more than 20 years," said John Berg, associate vice chancellor for undergraduate admissions. "She is well-respected by all who work with her — our staff colleagues and colleagues around the

campus, as well as high school counselors in the U.S. and around the world."

"Every high school student and high school college counselor knows Nanette's name. They know that she is a person of integrity. I have learned a great deal from her. She is a terrific colleague and friend."

The friendship extends

beyond just colleagues, though.

Her personality is just part of what makes her an effective recruiter, which makes quite an impact on prospective students.

"She's been wonderful to work with," says Kathleen Jasper, a guidance counselor at Parkway Central High School in Chesterfield, Mo. "She's great with the kids, she's an outstanding representative for Washington University and she's never too busy to return a call or

"She's been wonderful to work with. She's great with the kids, she's an outstanding representative for Washington University and she's never too busy to return a call or answer questions."

KATHLEEN JASPER

answer questions."

Instead of looking at applicants as mere pieces of paper, Tarbouni and the rest of the admissions staff take the time to get to know each person as well as possible.

The applications start trickling in in October, and that's when the relationship starts to form.

"Reading applications — even though there are more of them each year — is an absolute joy," she said. "Every time you open up that file, you are meeting a new person, and it really feels like that. By the time you get to what they are doing outside the classroom — their essays, their recommendations — they really are distinctive, each and every one of them."

"I don't think the students realize how attached we get to them. There have been times at orientation when I've run up to a student and said, 'I'm so glad to finally meet you!' and they look at me like 'Who the heck are you?' It's sort of awe-inspiring how attached you can get from the 10-12 pieces of paper you get from them. It's fascinating."

Each year, Tarbouni has more and more friends to make through the application process.

About 20 years ago, the University received approximately 4,500 applications, and approximately 80 percent of them were admitted.

This year, the University received well over 21,500 applications and only 20 percent will be admitted.

That's a huge step for a school once known as a "streetcar campus," but according to Tarbouni,

there are several reasons for these changes.

First and foremost is the changing demographic. More and more kids are graduating from high school, and more and more are heading to college. A study has shown that the boom will continue until around 2015, when college enrollment rates will start to decrease.

Another reason for increased awareness is the advent of rankings by national media.

"We can argue whether rankings are good or not," Tarbouni says, "but one thing that is good

also think of fun and party-planner extraordinaire."

"I think of someone who can whip up a mean jambalaya while she's discussing all the nuances of 24 or Alias. I think of someone who would force me into going to a scary movie just because John Cusack was in it. I think of a friend who will always be there when needed. Everyone should have someone like Nanette in their corner."

As such, Snow finally worked it so that her friend and Tarbouni attended the same party.

"She had been trying to fix us up for a long time," Tarbouni laughs. "She kept bringing him by the office, and I kept saying, 'I don't want to meet anybody, I don't want to get married.' So finally we were at the same party together ... and she was right. I owe her much of my happiness."

Thanks in no small part to Snow, Tarbouni and her husband, Younasse — who teaches English as a second language at Saint Louis University — are going on seven years of marriage.

"He's a very good teacher," Tarbouni says. "He's very patient and we balance each other, because he tells me I'm not (patient)."

"And that's true. I'm always asking, 'Can I go on eBay and buy some patience?'"

But a lack of patience, increased application numbers — even the numerous steps heading up to Brookings Hall — they don't mean a thing when you enjoy what you do.

"I just think I have the best job in the world," Tarbouni says. "I feel so lucky, and I love working with all of my colleagues. I learn something every day."

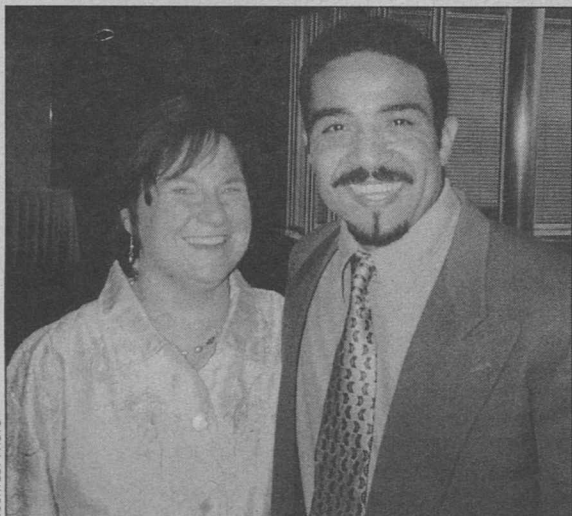
"Where else can you work and be surrounded by bright, talented people, both in your own office and the greater University community? You can't not learn something."

Nanette Tarbouni

Job title: Director of undergraduate admissions

Other role at WUSTL: Tarbouni is in her first year as a four-year adviser to undergraduates and has about five students she advises. "I'm seeing a whole different side of Washington U. from their eyes. It's really given me a wider perspective — you do something for a long time and you think you know it, then you find out there's this whole other part of the University that you weren't thinking about because you were involved with your job."

Secret addiction: "I watch way more TV than I should. I really am into 24, that would be my favorite show. And right now it's really juicy!"



Nanette Tarbouni and her husband, Younasse, hope to take a trip to Morocco this year to visit his family.