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# Record



Washington University in St. Louis

Aug. 27, 2009

record.wustl.edu



The addition of South 40 House (background) and Umrath House gives the South 40 an entirely new, urban feel, as experienced by students as they stroll through the campus residential area.

## Two new residence halls open on South 40

By NEIL SCHOENHERR

Returning students and parents arriving on campus this week probably noticed a different look to the South 40.

Two impressive new buildings, South 40 House and Umrath House, have opened to students for the first time this year.

"Nothing is more important for the success of our undergraduates than developing a strong sense of community for them at Washington University," said Justin Carroll, associate vice chancellor for students and dean of students. "It is vital that we provide students with not only a 'home away from home' but also facilities and programs that nourish and encourage their personal and intellectual development

and their connection to the greater St. Louis community."

The first phase of construction includes the South 40 House and Umrath House residence halls, a fitness center, several stations of food service, part of a convenience store and a temporary dining area.

The Bear Necessities store, operated by the Women's Society of Washington University, has relocated to Umrath House.

The second phase of construction, including the completion of the dining area and College Hall, an assembly space for the residential colleges, will be completed in August 2010.

St. Louis-based architect Mackey Mitchell and Associates Inc. designed the facilities, and

See South 40, Page 5

## Itch-specific neurons identified in mice

By JIM DRYDEN

Historically, many scientists have regarded itching as just a less intense version of pain. They have spent decades searching for itch-specific nerve cells to explain how the brain perceives itch differently from pain, but none have been found.

Now School of Medicine researchers have discovered that those itch-specific neurons do exist in mice, and their studies suggest that itch and pain signals are transmitted along different pathways in the spinal cord.

Reporting in the Aug. 6 issue of Science Express, the advance online publication of the journal Science, the researchers say they can knock out an animal's itch response without affecting its ability to sense and attempt to avoid pain.

"This finding has very important therapeutic implications," said principal investigator Zhou-Feng Chen, Ph.D., associate professor of anesthesiology, of

psychiatry and of developmental biology.

"We've shown that particular neurons are critical for the itching sensation but not for pain, which means those cells may contain several itch-specific receptors or signaling molecules that can be explored or identified as targets for future treatment or management of chronic itching," Chen said.

The new finding follows research by Chen and his team in 2007 that identified the first itch gene — gastrin-releasing peptide receptor (GRPR) — in the spinal cord. They also showed that when mice were exposed to things that make them itchy, those without a GRPR gene scratched less than their normal littermates. Chen's team also found GRPR in a group of spinal-cord cells called lamina 1 neurons that relay both itch and pain sensations to the brain.

"But the identification of an itch receptor in spinal-cord neurons didn't mean those neurons were itch-specific because it was possible that they

See Neurons, Page 2



Chen



All signs point to a great year Senior Danny Gaynor, a political science major in Arts & Sciences, acknowledges the audience after delivering an inspirational and moving speech about his experience becoming part of the WUSTL community during Convocation Aug. 20 in the Athletic Complex. The annual event serves as the University's vehicle to formally welcome and introduce all new students and their families to campus. It is the last time the Class of 2013 will be assembled together until graduation. Chancellor Mark S. Wrighton gave the keynote address to a packed house, and Andrew Rehfeld, Ph.D., associate professor of political science in Arts & Sciences, made the faculty presentation.

## Margaret Bush Wilson, trustee emerita, civil rights attorney, dies at 90

Margaret Bush Wilson, WUSTL trustee emerita, prominent civil rights attorney in the 1960s and the first woman of color to chair the board of directors of the National Association for the Advancement of Colored People (NAACP), died Tuesday, Aug. 11, after a short illness. She was 90.

Wilson, the second woman of color admitted to practice law in Missouri, served on WUSTL's Board of Trustees from 1978 until her death and was a charter member of the Arts & Sciences National Council. She was an

active member of both, serving on the honorary degree committee for the Board of Trustees.

Wilson was a longtime civil rights activist and attorney. She was actively involved with the NAACP, serving nine terms as chair of its board of directors. She also served as U.S. attorney for the legal division of the



Wilson

rural electrification administration of the U.S. Department of Agriculture and assistant attorney general of Missouri.

"We feel so very fortunate for Margaret Bush Wilson's many contributions to Washington University," Chancellor Mark S. Wrighton said. "She has a remarkable life story, and the world is a better place because of her steady, unwavering commitment to social justice and equality. Margaret will be deeply missed by those of us who have benefited from her friendship

See Wilson, Page 6

## Yellow Ribbon Program has immediate impact on campus

By MELODY WALKER

"Veterans make awesome MBA students," said Kevin Kiley, senior associate director of MBA admissions at Olin Business School.

He should know. Kiley actively recruits vets to consider Olin's graduate business programs.

As of Aug. 1, the new Post-9/11 G.I. Bill offers additional matching tuition benefits under its Yellow Ribbon Program with participating private institutions such as Washington University.

The hope is that the new G.I. bill and its education benefits will attract even more veteran candidates to consider Washington University.

All WUSTL undergraduate programs and graduate programs except the George Warren Brown School of Social Work and the School of Medicine are helping fund tuition costs for veterans qualified for the Yellow Ribbon Program.

"This is truly a terrific partnership," said Evan Bouffides,

See Veterans, Page 2

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## Live@EDU selected for student e-mail pilot program

After several months seeking student and staff input, Washington University selected Microsoft Live@EDU to provide e-mail, calendar and Web space to a pilot group of students during the fall 2009 semester.

The pilot project with Live@EDU is a step toward offering students e-mail and online services that are an improvement over the University's current approach, said Andrew Ortstadt, associate vice chancellor for information services and technology.

Each WUSTL school independently provides e-mail services to students. The features of the different systems vary, and many students have multiple University e-mail accounts.

"When compared with the University's current systems, Live@EDU provides better communications tools and eliminates multiple University e-mail accounts for students," Ortstadt said. "It also allows University information technology staff to better focus on supporting technology that enhances learning and other academic initiatives within the schools."

A team of representatives from the Office of Student Records, Student Union, the Student Technology Advisory Committee, Alumni and Development, and University information technology organizations selected Live@EDU for the pilot study in May after evaluating several vendors, including Google Apps for Education.

The group concluded that while both Live@EDU and Google Apps for Education would be an improvement over the current approach, Live@EDU gives students more storage space and access to unique communication and collaboration tools. Live@EDU also provides features for greater integration with other WUSTL systems, Ortstadt said.

"The Microsoft Live@EDU solution offers several advantages with excellent features," Ortstadt said. "The toolset is based on Microsoft's enterprise collaboration products and gives the end user easy-to-use features for managing all aspects of communication. The e-mail component is much more robust than Hotmail, which is the Microsoft tool that many students may know."

Each Live@EDU account includes 10 gigabytes of e-mail storage and 25 gigabytes of file storage, calendaring, instant messaging, built-in social networking integration and Web development space. Free Web access to Microsoft Office tools such as Word, Excel and PowerPoint is planned for Spring

2010. In addition, the Live@EDU address book can be synchronized with University directories, making it easier to find WUSTL e-mail addresses for people without Live@EDU accounts.

Microsoft has a team of staff dedicated to supporting Live@EDU and has invested in technology that helps to link Live@EDU with other WUSTL tools and environments. "The ability to closely link technologies between Live@EDU and WUSTL not only brings many benefits to our students but also offers several benefits for University operations," Ortstadt said.

While there will be many advantages to using the Live@EDU tools, Ortstadt said, students who prefer other e-mail tools will continue to be able to forward e-mail from their Live@EDU account or use other e-mail clients to access their e-mail.

"Google has a strong student following and a good product," Ortstadt said. "We feel that the Live@EDU approach gives students a very robust University solution with options for how students integrate it with their personal communications tools, including Gmail."

If the pilot is successful, all undergraduate e-mail services will be migrated to Live@EDU, and graduate student e-mail services will be evaluated on a school-by-school basis. A final decision regarding full implementation of Live@EDU will be made at the end of the pilot program in early 2010. A communications plan is also being developed to keep the University community updated as the project moves along.

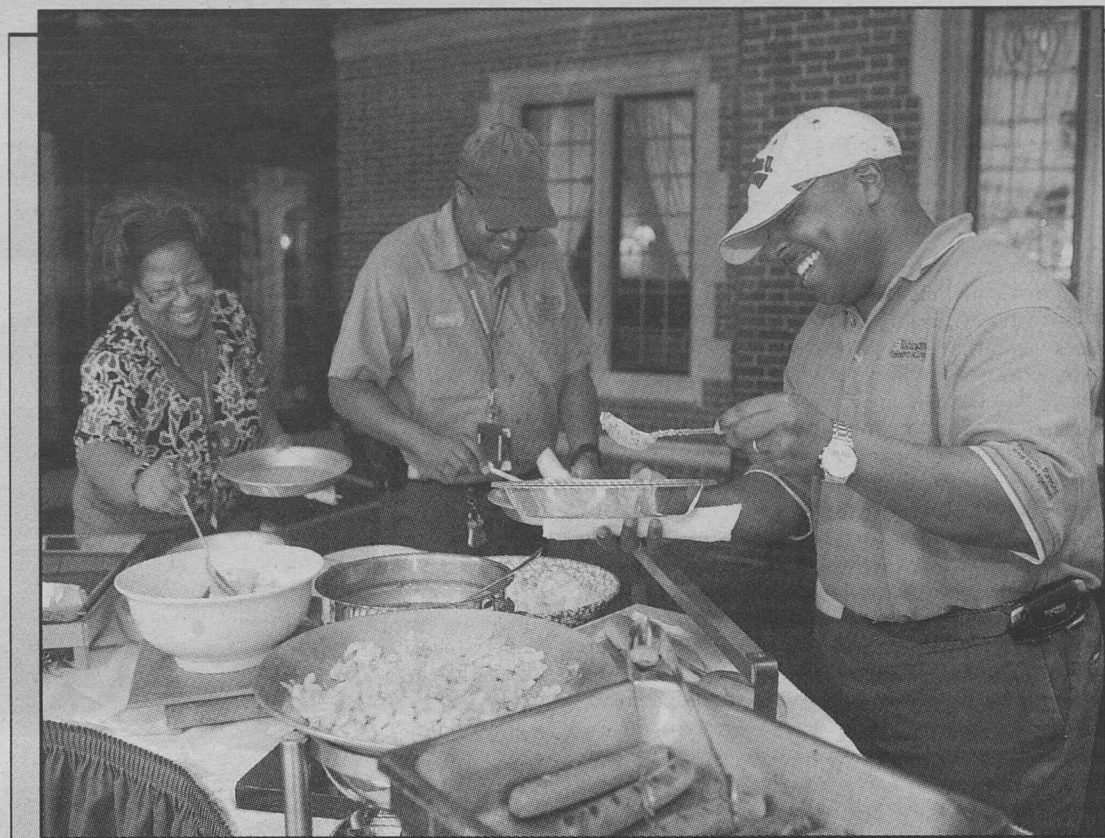
For more information about this project, contact Information Services and Technology at 935-7597.

## Neurons

*Study suggests different cellular pathways*  
— from Page 1

also could have pain-related genes," Chen said.

"A key question was whether those GRPR neurons also were transmitting pain signals. We approached that by injecting a toxic substance that binds to GRPR and then exposing mice to both itchy and painful stimuli," Chen said.



**Whittemore House welcome** (From left) Renita Weathersby, Ernest White and Adam Comer, all of Facilities Planning and Management, enjoy the buffet Aug. 19 at the Whittemore House Open House. The event was held to thank current Whittemore House members and to encourage other faculty and staff to become better acquainted with Whittemore House. To become a Whittemore House member, a person must be a faculty or staff member, a retired faculty or staff member or a friend of the University. Whittemore House is available for lunch, conferences and special events such as birthdays, anniversaries, family reunions and wedding ceremonies and receptions. For more information, visit [whittemorehouse.org](http://whittemorehouse.org).

## Share Our Stuff drive during move-out a success

**S**hare Our Stuff, the drive to reduce waste and share with people in need goods typically thrown away during campus and off-campus move-out, was an effective way for WUSTL students to help the St. Louis community while being environmentally conscious, said Matt Malten, assistant vice chancellor for sustainability.

"Overall, a tremendous amount of clothing, food, school supplies and small appliances were donated to Operation Food Search, ultimately helping families throughout the University community and the bistate region," Malten said.

Operation Food Search distributed items to community agencies, including Independent Transitional Living Program, a program to help

teens moving out of the foster-care system; and Agape SDA, a nearby food pantry.

In total, 51 pallets of food, clothing and school/office supplies were picked up by Operation Food Search; five pallets of miscellaneous groceries; three pallets of school/office supplies; and 43 pallets of clothing, bedding and other soft items.

"Share Our Stuff" is held at the end of the spring semester and is organized by Tau Kappa Epsilon fraternity, the Office of Sustainability, and Sharing With a Purpose (SWAP), a nonprofit organization sponsored through the Student Entrepreneurial Program.

For more information, visit [sustain.wustl.edu/sos](http://sustain.wustl.edu/sos).

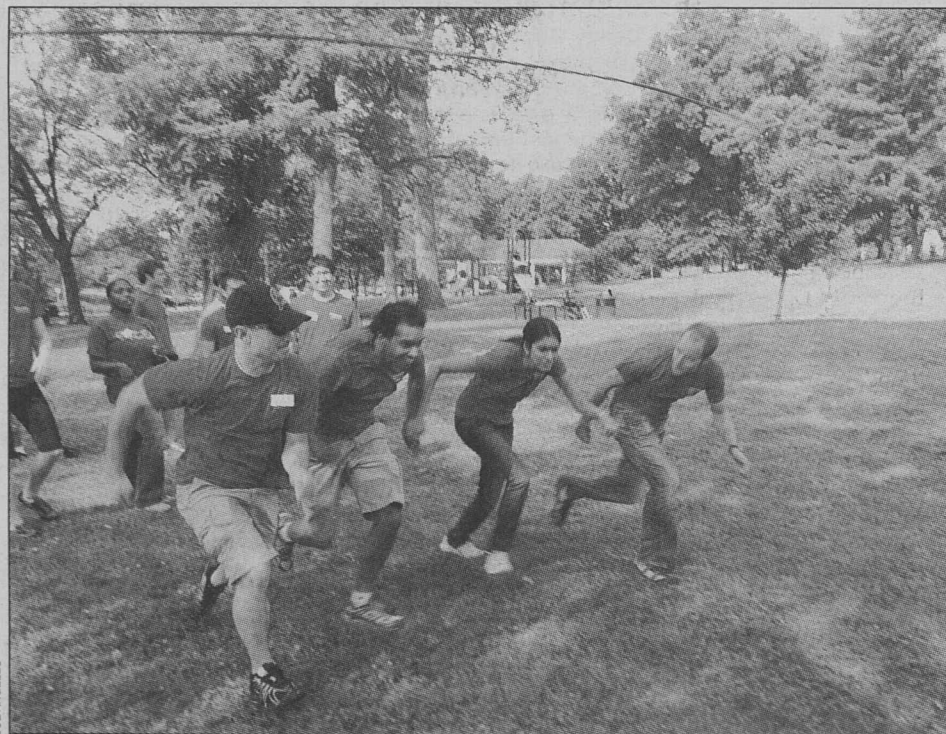
Chen's team injected the spinal cords of mice with a neurotoxin called bombesin-saporin. It bound to GRPR and killed the neurons where the gene was expressed. When these mice then were exposed to things that caused itching, they didn't scratch. With an appropriate dose of the neurotoxin, their scratching could be reduced by more than 80 percent or completely eliminated in some instances. That finding proved that the neurons with GRPR were required for normal itch sensation.

There are two major types of itching that are classified

according to the presence or absence of the chemical histamine. Histamine-dependent itching can be caused by bug bites or allergic reactions and is treated with antihistamine drugs. Most chronic, severe itching, however, is resistant to antihistamine treatment. But in this study, it made no difference whether mice were exposed to histamines or to other itch-inducing substances. Those mice whose GRPR-expressing neurons had been destroyed by the neurotoxin didn't scratch, regardless of what type of itchy agent they encountered.

"However, the same mice continued to respond normally to pain," Chen said. "This is a very striking and unexpected result because it suggests there is an itch-specific neuronal pathway in the spinal cord."

Whereas Chen's earlier work found that pain and itch are regulated through different molecular pathways, this study suggests they also are regulated through different cellular pathways. That, he said, could have important implications for treating itch because the neurons with GRPR may contain more itch-specific genes.



**Olin MBA student Tod Stephens (in baseball cap) participates in a team-building exercise for all new Olin MBA students at Shaw Park in Clayton earlier this month. Stephens is among the first of new WUSTL students to benefit from the Post-9/11 G.I. Bill.**

## Veterans

*Number of veterans enrolled up 50 percent*  
— from Page 1

assistant dean and director of MBA admissions and financial aid at Olin.

"Our veterans accrue the obvious economic value associated with Yellow Ribbon, while we, in turn, benefit from the existence of these superior candidates in our classrooms and in our MBA community," Bouffides said.

Tod Stephens is among the first of Olin's Yellow Ribbon veterans to enter the MBA program this semester. A Troy, Ill., native, Stephens is a captain of infantry, U.S. Army, IRR (Individual Ready Reserve).

A 2001 graduate of the U.S. Military Academy at West Point, Stephens completed three tours of duty in Iraq, including serving on an advisory team embedded within the Iraqi army.

"Veterans could not be more thankful for elected officials and citizens who fund the Post-9/11 G.I. Bill," Stephens said.

"But as generous as it is, there is still a big gap between the basic tuition coverage and the expense of going to a world-class

school like Washington University.

"That's where the generosity of schools like Olin and the Yellow Ribbon Program make it possible to attend a private school," Stephens said.

Stephens has volunteered to share his story and the benefits of the new G.I. bill with local media.

His photo accompanied a front-page article in the St. Louis Post-Dispatch, and KTVI-TV featured him in a live interview on FOX News in the morning.

The number of veterans enrolled at WUSTL is up almost 50 percent this year, according to Bill Witbrodt, director of Student Financial Services.

"So far, the University has enrolled close to 100 this year," Witbrodt said. "Of those veterans enrolled, about a half-dozen are qualified to receive the new Yellow Ribbon benefit."

"Due to the joint funding of the Yellow Ribbon Program by the University and the Department of Veterans Affairs, students who previously thought the University was out of their reach financially will be able to realize their dream to attend Washington University, and I think we'll see an increase in applications from this group in years to come," Witbrodt said.



## School of Medicine Update

# Low-dose estrogen safe, effective for metastatic breast cancer

By GWEN ERICSON

**W**hen estrogen-lowering drugs no longer control metastatic breast cancer, the opposite strategy might work. Raising estrogen levels benefited 30 percent of women whose metastatic breast cancer no longer responded to standard anti-estrogen treatment, according to research conducted at the School of Medicine and collaborating institutions.

The results were reported in the Aug. 19 issue of the *Journal of the American Medical Association*.

Not only did estrogen treatment often stop disease progression, in some patients metastatic tumors became resensitized and again responded to anti-estrogen treatments.

"The women in the study had all experienced a relapse while on estrogen-lowering drugs, and their disease was progressing," said lead author Matthew J. Ellis,

M.D., Ph.D., professor of medicine in the Division of Oncology. "So they were faced with undergoing chemotherapy. We found that estrogen treatment stopped disease progression in many patients and was much better tolerated than chemotherapy."

About 40,000 women die of metastatic breast cancer each year, and estrogen therapy could potentially help thousands of women, Ellis said. Furthermore, he said the therapy costs less than a dollar a day.

Sixty-six postmenopausal women with breast cancer that had spread beyond the breast participated in the study. Participants were originally diagnosed with estrogen receptor positive (ER+) breast tumors, meaning estrogen stimulated tumor growth. Seventy-five percent of breast cancer cases are ER+. Participants had received aromatase inhibitor treatment, which severely lowers estrogen levels, but their metastatic tumors

had later reappeared or resumed growing.

The study compared a high 30-milligram daily dose of estrogen to a low 6-milligram daily dose and evaluated how well the treatments controlled the women's metastatic cancers and how the treatments affected their quality of life.

In both the high- and low-dose groups about 30 percent of participants experienced a clinical benefit — their tumors either shrank or stopped growing. Researchers showed that they could predict which patients would have this positive response. They conducted standard positron emission tomography (PET) scans before estrogen treatment and 24

hours later. If metastatic tumors flared, or glowed more brightly, in the PET scans after estrogen was started, they were much more likely to be affected by estrogen therapy. In 80 percent of women with PET flare reactions, tumors responded to estrogen therapy, and in 87 percent of women without PET flares, tumors did not respond to estrogen.

The participants indicated whether they had adverse reactions to estrogen during the study, such as headaches, bloating, breast tenderness, fluid retention, nausea and vomiting. Patients receiving the high estrogen dose had more severe side effects.

"The older women in the study

were, the fewer estrogen-related symptoms they had," said Ellis, an oncologist with the Siteman Cancer Center. "But overall, we demonstrated clearly that the low dose was better tolerated than the high dose and was just as effective for controlling metastatic disease."

In the 30 percent of participants who responded to estrogen, tumors often began to grow again after a period of months or years. But in a third of these recurring cases, the researchers showed that the women's tumors had become resensitized to anti-estrogen therapy. The tumors shrank or stopped growing when the patients went back to their original aromatase inhibitor treatment.

## Moley named Crane Professor in Obstetrics and Gynecology

By DIANE DUKE WILLIAMS

**K**elle H. Moley, M.D., a world-renowned reproductive biologist, has been named the first James P. Crane Professor in Obstetrics and Gynecology.

The professorship is named in honor of James P. Crane, M.D., associate vice chancellor for clinical affairs, who has a long list of accomplishments since joining the University's faculty in 1977. He spearheaded the development of the Washington University Physicians Network, the largest independent physicians' association in the St. Louis area, and organized and now directs the Faculty Practice Plan (FPP), the fifth-largest academic medical practice in the United States.

He also led the effort for the Campus Integration Plan, a new vision for the Medical Center that included building the Center for Advanced Medicine to house 14 multidisciplinary clinical centers.

Additionally, Crane established the first prenatal diagnosis program in Missouri and helped start the state's first in vitro fertilization (IVF) program, leading to the birth of Missouri's first IVF baby in 1985.

"Jim Crane's outstanding leadership has led to dramatic improvements in the clinical operations of the School of Medicine and the Medical Center," said Chancellor Mark S. Wrighton. "Jim is a tremendous asset to Washington University. He has a remarkable talent for bringing together people with diverse skills and agendas for a common purpose."

"We are very fortunate to have Jim Crane at the helm of our clinical operations," said Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "He brings outstanding leadership to deal with the constant changes in health care and understands the factors that affect our ability to remain a premier medical center."

"It would be hard to find anyone who has done more to contribute to the success of Washington University as a center of clinical excellence," he said.

This professorship was funded through gifts from 14 medical school departments, BJC

Healthcare, Barnes-Jewish Hospital, St. Louis Children's Hospital, Chancellor Emeritus William H. Danforth, M.D., and Richard A. Chole, M.D., Ph.D., the Lindburg Professor and chair of the Department of Otolaryngology.

Moley, vice chair for basic science research and director of the Division of Basic Science Research in obstetrics and gynecology and a professor of cell biology and physiology, is one of a handful of people in the world studying the effects of maternal type 1 and type 2 diabetes on the

implantation and development of mouse embryos and how this may be applicable to the pathophysiology of diabetes in humans.

Her work has established that short-term exposure to high concentrations of glucose or insulin during the first 72 hours after fertiliza-

tion can alter development and result in the increase of congenital malformations and miscarriages, as seen in women with diabetes and other metabolic disorders.

"Kelle Moley's research has led to important insights and medical discoveries of relevance to human health and well being," Crane said.

She also is known for cloning and characterizing two novel glucose transporters, GLUT8 and GLUT9, the latter of which she discovered in collaboration with her husband, Jeffrey Moley, M.D., professor of surgery. Her work on these proteins demonstrates altered location and expression of these transporters in response to insulin exposure and diabetes, respectively.

Moley is director of the fellowship program in reproductive endocrinology and the clinical mentorship program for the University's Markey Pathway, a graduate program that provides students with a deeper understanding of the nature of disease. She also is co-principal investigator on a National Institutes of Health grant to train future reproductive biologists.

As the FPP's chief executive officer, Crane is responsible for establishing strategic direction and coordinating clinical programs across the School of Medicine's clinical departments. He also oversees the implementation of standards to help provide the best patient care.



Moley



**Family ties** Christine Yokoyama (left), a first-year medical student, receives a white coat from her father, Wayne Yokoyama, M.D., professor of medicine and director of the Medical Scientist Training Program, at the Class of 2013 White Coat Ceremony Aug. 14 at the Eric P. Newman Education Center. Christine Yokoyama was one of three children of School of Medicine faculty entering the Class of 2013, which has 124 students. The others are Carrie Morris, daughter of John C. Morris, M.D., the Harvey A. and Dorismae Hacker Friedman Professor of Neurology and director of the Alzheimer's Disease Research Center; and Nicholas Semenkovich, son of Clay Semenkovich, M.D., the Herbert S. Gasser Professor and chief of the Division of Endocrinology, Metabolism & Lipid Research, and Janice Semenkovich, M.D., associate professor of radiology. At the ceremony, first-year students are presented with a white coat, a longtime symbol of the medical profession, and take an oath that they write during orientation.

## Another pro team looks to WUSTL Physicians

By JIM DRYDEN

**W**ashington University Orthopedics provided medical care for players on the new Women's Professional Soccer team, Saint Louis Athletica. The team just completed its first season, which ended last week with a first-round playoff loss.

St. Louis also hosts the league's All-Star game Aug. 30.

The orthopedics group also cares for the St. Louis Blues, the St. Louis Rams and other sports teams.

Robert H. Brophy, M.D., assistant professor of orthopedic surgery and a former soccer player, is head team physician for the Athletica.

Brophy, an all-conference soccer player while an undergraduate at Stanford University, said he relishes his new role.

"Soccer players are obviously at risk for lower extremity injuries, particularly to the knee and ankle," Brophy said. "Female soccer players are at an elevated risk specifically for injuries to the anterior cruciate ligament, or

**"Female soccer players are at an elevated risk specifically for injuries to the anterior cruciate ligament, or ACL, in the knee, so in working with the Athletica, we will be looking to emphasize injury prevention."**

ROBERT H. BROPHY

ACL, in the knee, so in working with the Athletica, we will be looking to emphasize injury prevention. When injuries do occur, we want to get players back to peak performance as soon as possible."

In addition to his collegiate experience at Stanford, Brophy played soccer for the California Jaguars professional team in 1995 and '96 when it won the U.S. Inter-Regional Soccer League (USISL) title. He also was a member of the Palo Alto Firebirds, the USISL national champions in 1992.

"The team physicians also will work to prevent and treat neck problems and concussions that can occur when heading soccer balls and many other common injuries that can result from tackles and challenges during the course of a game," said Richard H. Gelberman, M.D., the Fred C. Reynolds Professor and head of

Orthopaedic Surgery. "Caring for professionals allows our physicians to work at the cutting edge of medical therapy, surgery and rehabilitation to return injured players to their full health and potential as rapidly as possible."

Other Washington University physicians caring for the Athletica include Rick W. Wright, M.D., associate professor in orthopedics, head team physician for the Blues and assistant team physician for the Rams; assistant team physician Heidi Prather, D.O., associate professor of orthopaedic surgery; Devyani Hunt, M.D., assistant professor of orthopedic surgery and co-director of the Center for Women's Wellness; Mark E. Halstead, M.D., assistant professor of orthopedic surgery and an assistant team physician for the Rams and the Blues; and Mary M. Kiehl, M.D., assistant professor of clinical medicine.



Brophy



# University Events

## Assembly Series begins with a comic touch by alum Ramis

BY BARBARA REA

The fall 2009 Assembly Series will start off on a light note with comedic filmmaker and Washington University alumnus **Harold Ramis**. The series continues through mid-November covering topics on entrepreneurship, equal rights, human rights, government and the environment.

Ramis, who earned a bachelor's degree in Arts & Sciences in 1966, kicks off a new season of Assembly Series programs at 7 p.m. Sept. 9 in Graham Chapel.

His work in film has stood the test of time. In an April 2004 New Yorker story, Tad Friend points out how Ramis' unique perspective on our culture and its institutions have kept his films funny for 25 years. They attack "the smugness of institutional life ... with an impish good will that is unmistakably American," apparent in such films as "Animal House," which trashes fraternity systems; "Caddyshack," which targets country clubs; and "Stripes," which skewers the Army.

Then there are the "tongue-in-cheek pep talks," one of the most memorable performed by Bill Murray in "Stripes": "We're Americans! ... That means that our forefathers were kicked out of every decent country in the world."

Ramis films have the unmistakable imprint of improvisation, picked up from his stint in Chicago's Second City improv troupe, where he cut his comedic teeth along with John Belushi and Murray.

Ramis featured Murray in six movies, including what most critics consider his masterpiece, "Groundhog Day." Several films followed, including "Multiplicity," "Analyze This," its sequel, "Analyze That," "Stuart Saves his Family" and "Bedazzled."

These works, in turn, have influenced and inspired a new generation of comedic talent ranging from Judd Apatow to Bobby and Peter Farrelly.

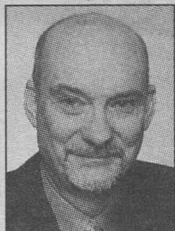
Since graduation, Ramis has stayed connected to WUSTL and periodically visits the campus. He served two terms on the Board of



Ramis



Otsuka



Coles



Maeda

Trustees from 1997-2005. He received a Distinguished Alumni Award in 1988 and an honorary doctor of arts in 1993.

His latest comedy, "Year One," stars Jack Black and Michael Cera and has been compared to a Bob Hope and Bing Crosby road movie. And there is good news for Ramis fans: "Ghostbusters III" is in the works.

The rest of the Assembly Series schedule for the fall:

### Julie Otsuka

**3:30 p.m. Sept. 15, Graham Chapel**

"When the Emperor Was Divine," Otsuka's debut novel, is a heartbreaking yet unsentimental account of a Japanese-American family's evacuation and internment during World War II and its return home.

In addition to being a rich character study, "Emperor" delves into the subjects of race, identity and racial profiling. Otsuka's novel is this year's Freshman Reading Program selection. Her talk is the Neureuther Library Lecture and is part of a bigger series on racial profiling this fall sponsored by the Center for the Study of Ethics and Human Values. For more on the racial profiling series of events, visit [humanvalues.wustl.edu](http://humanvalues.wustl.edu).

### Jessica Jackley

**5 p.m. Sept. 17, Simon Hall May Auditorium**

After experiencing firsthand the many dimensions of poverty, Jackley and her husband, Matthew Flannery, founded Kiva.org, the first online micro financing Web site that connects individual lenders to aspiring entrepreneurs in developing countries.

Kiva is the only micro financing enterprise that provides

person-to-person lending and allows lenders and borrowers to stay in touch. Jackley's presentation is sponsored by the Skandalaris Center for Entrepreneurial Studies.

### Jonathan Chase and Dan Hellmuth

**5 p.m. Sept. 24, Wilson Hall Room 214**

Many of WUSTL's buildings are environmentally friendly, but the new Living Learning Center at the Tyson Research Center takes the commitment a giant leap forward.

Chase, Ph.D., associate professor of biology in Arts & Sciences and director of the Tyson Research Center, and Hellmuth, a principal and co-founder of the center's design firm, Hellmuth & Bicknese Architects, will discuss the significant challenges they faced in creating one of North America's greenest buildings.

### Matthew Coles

**4 p.m. Sept. 30, Anheuser-Busch Hall, Bryan Cave Moot Courtroom**

Coles' lecture is titled "State of the LGBT Movement." He is a constitutional and civil rights expert on legal issues involving sexual orientation, gender identity, employment discrimination, domestic partnerships and HIV/AIDS.

For more than three decades, Coles has helped bring about some of the country's legal milestones in gay rights. His lecture is presented by the School of Law's Public Interest Law & Policy Speakers Series.

### Harold Ford Jr.

**4 p.m. Oct. 7, Graham Chapel**  
Ford, a former five-term

congressman from Tennessee, shot onto the national political scene in 2000, delivering the Democratic National Convention's keynote speech. Since losing a close senatorial race in 2006, he chairs the Democratic Leadership Council, is a vice president at Merrill Lynch and teaches public policy at Vanderbilt University. Ford's presentation is the Elliot Stein Lecture in Ethics.

### David Callahan

**11 a.m. Oct. 15, Graham Chapel**

When it comes to getting ahead in school and life, Callahan believes that Americans are abandoning their moral compass in search of success at any cost. In his book "The Cheating Culture" and its follow-up, "The Moral Center," he lists the culprits he holds responsible for this decline and presents compelling arguments for a return to honoring our culture's core principles.

Callahan's talk is the keynote address for the Center for Academic Integrity Conference.

### Zach Braff

**7 p.m. Oct. 21, Graham Chapel**

While famous for his role as Dr. J.D. Dorian on the quirky TV show "Scrubs," Braff has enjoyed a parallel career in film. He won high praise in 2004 for writing, directing and starring in the indie hit "Garden State." Other acting credits include "The Last Kiss" (with Harold Ramis) and "The Ex." This fall, "Scrubs" will begin its ninth season; for Braff it will be his last. This lecture is sponsored by Congress of the South 40.

### Urvashi Vaid

**4 p.m. Oct. 23, Graham Chapel**

The prominent activist/lawyer has devoted her career to fostering equal rights for the Lesbian, Gay, Bisexual and Transgendered communities. Her 1996 book, "Virtual Equality: The Mainstreaming of Gay and Lesbian Liberation," brought attention to the progress made by gay persons living in America and the obstacles keeping them from

achieving true equality. Vaid's talk, "Beyond the Wedding Ring: LGBT Activism in the Age of Obama," is the Olin Fellows Lecture.

### Mayor Francis Slay

**5:30 p.m. Oct. 29, DUC Commons**

This past April, Slay began his third term as mayor of St. Louis. Under his leadership, the city has made progress in reducing some urban social ills but continues to face difficult challenges, especially in education. Slay will lead an informal discussion on St. Louis' prospects and challenges. Chimes junior honorary is the sponsor for this program.

### John Maeda

**5:30 p.m. Nov. 4, Graham Chapel**

The emergence of computer-assisted art design created the need for experts in both disciplines to educate the next generation of designers. With degrees in computer science and art — and a passion for both — Maeda, who will speak on "Creative Leadership," has influenced the way today's artists use technology to create great designs. He is the president of the Rhode Island School of Design and wrote "The Laws of Simplicity." Maeda is the keynote speaker for the Sam Fox School's Conference on Economics: Arts Architecture.

### Benedict Kiernan

**11 a.m. Nov. 11, Graham Chapel**

Kiernan's lecture is titled "Blood and Soil: Genocide in World History." A leading scholar on the history of genocide with a focus on Southeast Asia, Kiernan has worked tirelessly to bring the Khmer Rouge to justice for its crimes against the Cambodian people. His recent book is "Blood and Soil: A World History of Genocide and Extermination from Sparta to Darfur." Kiernan will deliver the annual Holocaust Memorial Lecture.

All Assembly Series programs are free and open to the public. For more information, visit [assemblyseries.wustl.edu](http://assemblyseries.wustl.edu).

## Chamber Music • Sedimentary Dynamics • Cancer Care

"University Events" lists a portion of the activities taking place Aug. 27-Sept. 9 at Washington University. Visit the Web for expanded calendars for the Danforth Campus ([news-info.wustl.edu/calendars](http://news-info.wustl.edu/calendars)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

"Changing the Face of Medicine: Celebrating America's Women Physicians." Through Sept. 18. Bernard Becker Medical Library. 362-7080.

"Double Exposure: Al Parker's Illustrations, From Model to Magazine." Through Sept. 30. Olin Library, Lvl. 1, Grand Staircase Lobby and Ginkgo Rm. 935-7741.

"Edward and Joshua Geltman: A Photographic Journey." Through Sept. 20. Farrell Learning & Teaching Center, Hearsh Gallery. 747-3284.

### Lectures

**Thursday, Aug. 27**

**4 p.m. Chemistry Seminar.** "Novel Synthetic Methods for Spiroisoxazolines." Erick D. Ellis, technician in environmental science, Jackson State U. McMillen Lab., Rm. 311. 935-6530.

**Friday, Aug. 28**

**9:15 a.m. Pediatric Grand Rounds.** "Journeys in the Newborn Brain." Terrie Inder, assoc. prof. of pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

**Wednesday, Sept. 2**

**8 p.m. Jewish and Near Eastern Studies Program Lecture.** "Embattled Israeliness: Jewish Influences on Israeli Music." Assaf Shelleg, Efroymsen Visiting Israeli Scholar. Whitaker Hall Aud. 935-8567.

**Thursday, Sept. 3**

**8 a.m. Siteman Cancer Center Lecture.** Rena Schechter Memorial Lecture. "Clinical and Translational Studies in Head and Neck Cancer at the University of Chicago." Everett E. Vokes, prof. of medicine, The U. of Chicago Medical Center. Clopton Aud., 4950 Children's Place. 454-8981.

**4 p.m. Chemistry Seminar.** "Environmentally Friendly Organic Synthesis Using Bismuth (III) Compounds." Ram Mohan, prof. of chemistry, Ill. Wesleyan U. McMillen Lab., Rm. 311. 935-6530.

**4:15 p.m. Earth & Planetary Sciences Colloquium.** "Sedimentary Dynamics and the Cycling of C, Fe, and S in Tropical Deltaic Systems." Robert Aller, prof. of marine biogeochemistry, Stony Brook U. Earth & Planetary Sciences Bldg., Rm. 203. 935-5610.

**4:30 p.m. School of Medicine Panel Discussion.** "Women's Careers in Medicine." Kenton King Ctr., Bernard Becker Medical Library. (Refreshments served.) 362-7080.

**Tuesday, Sept. 8**

**5:30 p.m. Biochemistry & Molecular Biophysics Biophysical Evenings Seminar.** "Glutamate Dehydrogenase: Structure, Evolution, Regulation and Role in Insulin Homeostasis." Tom Smith, principal investigator, Donald Danforth Plant Science Center. Cori Aud., 4565 McKinley Ave. 362-4152.

**Wednesday, Sept. 9**

**Noon. Siteman Cancer Center Prevention & Control Seminar Series.** "Diffusion of Innovations in Cancer Care." James Dearing, senior scientist, Kaiser Permanente Inst. for Health Research. Goldfarb Hall, Rm. 132. 454-8981.

**4 p.m. Biochemistry & Molecular Biophysics Seminar.** "A Synthetic Protein With a Novel Topology Yet to be Discovered in Nature." Stephen B.H. Kent, prof. of biochemistry & molecular biology, The U. of Chicago. McDonnell Medical Sciences Bldg., Rm. 264. 362-4152.

**4 p.m. University Libraries Program.** "The Women of Gee's Bend." Talk and performance by quilters from Gee's Bend. January Hall, Rm. 110. 935-5418.

**7 p.m. Assembly Series.** Harold Ramis, filmmaker. Graham Chapel. 935-5285.

### Music

**Thursday, Sept. 3**

**8 p.m. Concert.** Danforth University Center Chamber Music Series. Erin Schreiber,

violin, and Martin Kennedy, piano. Danforth University Center, Formal Lounge. 935-5566.

**Wednesday, Sept. 9**

**8 p.m. Concert.** Chamber Orchestra. Graham Chapel. 935-5566.

### Sports

**Tuesday, Sept. 1**

**5:30 p.m. Women's Soccer vs. Ill. Wesleyan U.** Francis Field. 935-4705.

**6 p.m. Volleyball vs. Harris-Stowe State U.** Athletic Complex. 935-4705.

**7:30 p.m. Men's Soccer vs. Ill. Wesleyan U.** Francis Field. 935-4705.

**8 p.m. Volleyball vs. Greenville College.** Athletic Complex. 935-4705.

**Friday, Sept. 4**

**5:15 p.m. Volleyball vs. Webster U.** Bears Classic. Athletic Complex. 935-4705.

**7:30 p.m. Volleyball vs. Millikin U.** Bears Classic. Athletic Complex. 935-4705.

**Saturday, Sept. 5**

**9 a.m. Big River Running Early Bird Meet.** Men's and Women's Cross Country. Central Fields. 935-4705.

**10 a.m. Volleyball vs. Hope College.** Bears Classic. Athletic Complex. 935-4705.

**2:30 p.m. Volleyball vs. Augustana College.** Bears Classic. Athletic Complex. 935-4705.

**7 p.m. Football vs. Greenville College.** Francis Field. 935-4705.

## And More

**Thursday, Aug. 27**

**7 p.m. Performing Arts Dept. Auditions.** For the 2009-10 performance season. (Also 7 p.m. Aug. 28). Sign up at Mallinckrodt Ctr., Rm. 312. 935-5858.

**Saturday, Aug. 29**

**7 p.m. The Pulitzer Foundation for the Arts Marathon Reading.** Reading of the Metamorphoses by Ovid by members of the St. Louis community, including several WUSTL professors. (Also 7 p.m. Aug. 30.) Pulitzer's Galleries, The Pulitzer Foundation for the Arts, 3716 Washington Blvd. 754-1850.

**Tuesday, Sept. 8**

**7 p.m. Dance Theatre Auditions.** Annelise Mertz Dance Studio, Mallinckrodt Ctr., Rm. 207. 935-8075.

### Green Your Office

Recycle all your paper, plastic bottles, cans, food containers and anything else in the appropriate containers throughout campus.





**Which bear to choose?** Washington University Women's Society volunteer Elaine Burkhardt (left) talks with Roberta and Bill Schnoor of Brookline, Mass., at the grand opening of the new Bear Necessities store Aug. 20 in Umrath House in the South 40. The Schnoors' son Will is a member of the Class of 2013. Bear Necessities sells WUSTL apparel and gifts, birthday cakes and other items. All proceeds from the store — run by the Women's Society, more than 600 women who serve as the University's ambassadors in the community — help fund the Elizabeth Gray Danforth Scholarships and student projects. For more information, visit [wubearnecessities.com](http://wubearnecessities.com) or call 935-5071.

## 'Double Exposure' displays Parker's creative process

Olin Library's new exhibition — "Double Exposure: Al Parker's Illustrations, from Model to Magazine" — explores the art-making process of Al Parker, harking back to the "Mad Men" days of magazine illustration.

The exhibition, from the collection of the Modern Graphic History Library, is on display in Olin Library's Ginkgo Reading Room and Grand Staircase Lobby through Sept. 25.

The display features original artwork by Parker and tear sheets from popular magazines published in the 1940s, '50s and '60s. Also shown are photographs

taken by Parker depicting women, men and children from various viewpoints and poses. Parker's creative process can be seen through the juxtaposition of the photos with his artwork.

Parker was born in St. Louis and studied art at the University from 1923-28. He moved to New York City in 1935 and illustrated for such magazines as *Cosmopolitan*, *Good Housekeeping*, *The Saturday Evening Post*, *Sports Illustrated* and *Vogue*.

For more information, call the Modern Graphic History Library at 935-7741.

## Diversity and Inclusion Grants available

The Coordinating Council for Diversity Initiatives (CCDI) is accepting grant applications for initiatives that improve the campus environment for women and members of underrepresented minority groups who are on faculty or staff at WUSTL.

The Diversity and Inclusion Grants support proposals from faculty or administrative leaders for programs that promote diversity and inclusion at the University. The grants will be administered by the CCDI.

"Strengthening Washington University through diversity is an effort that requires the full engagement of the campus community," said Leah Merrifield, special assistant to the Chancellor for diversity initiatives.

"The Coordinating Council for Diversity Initiatives is optimistic that the Diversity and Inclusion Grants will provide faculty and

administrators with opportunities to engage in programmatic initiatives designed to help make the University an even better place to work," Merrifield said.

Examples of possible proposals include recruiting events and workshops; the development and/or review of diversity-related curricula; mentoring programs; diversity awards programs; and travel funds to attend diversity recruitment meetings.

Successful proposals will be collaborative, demonstrate tangible results and include departmental- or school-funded support (monetary or other).

All funding is one-time only. Awards will range in size from \$20,000-\$50,000.

The deadline for submission is Oct. 15. Decisions will be announced by the end of November.

For more information and to apply, visit [diversity.wustl.edu](http://diversity.wustl.edu).

## South 40

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the contractor is St. Louis-based Clayco Inc. The buildings are designed to be Leadership in Energy and Environmental Design (LEED) Silver certified, making them the first LEED-designed residence halls on the South 40. The Village East student apartment building, located at the northwest end of the Danforth Campus, received a LEED Silver rating from the U.S. Green Building Council in July.

The LEED rating system is a third-party certification program and a nationally accepted benchmark for the design, construction and operation of environmentally friendly buildings.

All equipment in South 40 House dining facilities, including stoves, hoods and refrigerators, will have the Energy Star label and be energy efficient. Food waste will be sent to a pulper, similar to a composter. The loading dock near the

**"It is vital that we provide students with not only a 'home away from home' but also facilities and programs that nourish and encourage their personal and intellectual development."**

JUSTIN CARROLL

kitchen will be covered by a "green roof," which will include a lawn, landscaping, sidewalks and a recreation area.

The Wohl Center was demolished in June to make way for South 40 House, a building with a new identity. The Wohl name will be recognized in the new building.

"Wohl Center was primarily a dining facility," Carroll said.

"When we decided it was time to upgrade the South 40 dining facilities, we agreed to give the building a name that reflects its new identity not only as a dining facility but also as a residence hall: South 40 House.

"It is our hope that a donor will be interested in permanently

naming this building, which would of course bear their name," Carroll said.

A funding effort is under way to secure resources needed for the project construction.

South 40 House will include a bakery, deli, grill and areas for international food, tacos and a kosher station. The second phase will add a Mongolian grill, Indian food and a pizza oven.

Umrath Hall will house 99 freshman students and three resident advisors (RAs). Three RAs and 126 upperclassmen will live in South 40 House.

The two buildings will form a new residential college, along with Rubelmann House.

## Be careful when teaching with Hollywood films

BY GERRY EVERDING

Students who learn history by watching historically based blockbuster movies may be doomed to repeat the historical mistakes portrayed within them, suggests a new study.

The study, published in August in the online edition of *Psychological Science*, suggests that showing popular history movies in a classroom setting can be a double-edged sword when it comes to helping students retain factual information in associated texts.

"We found that when information in the film was consistent with information in the text, watching the film clips increased correct recall by about 50 percent relative to reading the text alone," said Andrew Butler, a psychology doctoral student in Arts & Sciences.

"In contrast, when information in the film directly contradicted the text, people often falsely recalled the misinformation portrayed in the film, sometimes as much as 50 percent of the time."

Butler, whose research focuses on how cognitive psychology can be applied to enhance educational practice, said teachers can guard against the adverse impact of movies that play with historical fact, although a general admonition may not be sufficient.

"The misleading effect occurred even when people were reminded

of the potentially inaccurate nature of popular films right before viewing the film," Butler says. "However, the effect was completely negated when a specific warning about the particular inaccuracy was provided before the film."

Butler conducted the study with colleagues in the Department of Psychology's Memory Lab. Co-authors include fellow doctoral student Franklin M. Zaromb, postdoctoral researcher Keith B. Lyle, Ph.D., and Henry L. "Roddy" Roediger III, Ph.D., the James S. McDonnell Distinguished University Professor in Arts & Sciences and the lab's principal investigator.

"These results have implications for the common educational practice of using popular films as an instructional aid," Butler said.

"Although films may increase learning and interest in the classroom, educators should be aware that students might learn inaccurate information, too, even if the correct information has been presented in a text," Butler said. "More broadly, these same positive and negative effects apply to the consumption of popular history films by the general public."

For short summaries of historical inaccuracies included in the historical movies used in this experiment, visit [news-info.wustl.edu/tips/page/normal/14418.html](http://news-info.wustl.edu/tips/page/normal/14418.html).

## Sports

### Volleyball ranked No. 5 by AVCA

The volleyball team will begin its season ranked No. 5 in the American Volleyball Coaches Association (AVCA) top 25 poll.

Head coach Rich Luenemann led WUSTL to a 32-7 overall record last year, winning the University Athletic Association (UAA) championship and advancing to the NCAA Division III regional finals. The Bears count three returning starters and their libero among 10 returning letterwinners in 2009. WUSTL opens the season Tuesday, Sept. 1, against Harris-Stowe State University at home.

### Women's soccer ranked No. 8

The women's soccer team is ranked No. 8 in the NSCAA/adidas preseason top 25 poll.

Head coach Jim Conlon led the Bears to a 15-4-2 overall record and a third-straight University Athletic Association (UAA) championship in his first season. The Bears also qualified for the NCAA tournament and advanced to the NCAA sectional round.

WUSTL returns 18 letterwinners and five starters from last year's squad, which posted a seventh straight winning season. Washington University takes the field for its 2009 season opener at 5:30 p.m. Tuesday, Sept. 1, against Illinois Wesleyan University at home.

### Football picked second in conference

The Bears were picked second in the 2009 University Athletic Association (UAA) preseason coaches' poll.

Case Western Reserve University will start the

2009 season as the favorite to defend its UAA championship. Eight-time UAA champion WUSTL was the coaches' pick to finish second. WUSTL opens the 2009 season at 7 p.m. Sept. 5 at home against Greenville College.

### Kaupp assistant swimming, diving coach

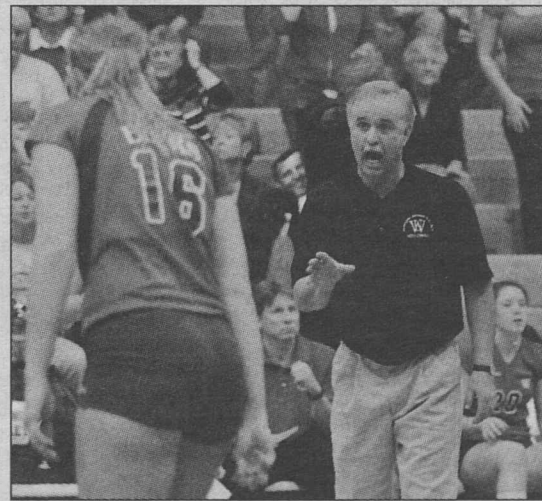
Athletics director John Schael announced the hiring of Nicole Kaupp as assistant men's and women's swimming and diving coach.

Kaupp spent the past three seasons at Southwestern University in Georgetown, Texas, and the last year as the interim head coach. This past season, Kaupp earned Southern Collegiate Athletic Conference Women's Coach of the Year honors.

### Imergoot memorial service Sept. 13

A memorial service for Lynn Imergoot, associate director of intramurals and club sports and former women's tennis coach, has been set for 2 p.m. Sept. 13 at Graham Chapel.

Imergoot passed away July 24 from injuries sustained in a car accident in New York. She retired from 30 years of coaching the women's tennis team in 2005 and continued working in the intramural office. Imergoot spent a total of 37 years at WUSTL.



Rich Luenemann and his team will begin the season ranked No. 5 nationally.



## Corner Building at Delmar and Skinker opens

BY JESSICA DAUES

Washington University's newly renovated Corner Building on Skinker and Delmar boulevards opened Aug. 14. The building is located on the eastern side of the Loop area in the City of St. Louis and contains apartments and spaces for retail shops.

"The University City and St. Louis Loop district just north of the Danforth Campus already is a desired location for faculty, staff and students to live and enjoy leisure time," said Henry S. Webber, executive vice chancellor for administration.

"Through the Corner Building's redevelopment — along with North Campus, the 560 Music Center and others — Washington University is pleased to contribute to the ongoing redevelopment of the Loop into one of the nation's most attractive areas for living, working and playing," Webber said.

WUSTL began remodeling and rehabilitating the 24,000-square-foot, approximately 70-year-old Corner Building in May. It houses 16 two-bedroom and one-bedroom apartments for graduate students, faculty and staff on its second and third floors. The building is located a few doors west of the new Moonrise Hotel.

"Quadrangle Management is excited to offer yet another option for graduate students, faculty or staff who wish to live near campus

and also be close to all the excitement and activity the Loop area has to offer," said Mary Campbell, assistant vice chancellor for real estate.

The University also renovated the building's street-level retail space and added seven wind turbines to the roof for both sustainability and aesthetic reasons.

"The University wanted to create an architecturally interesting feature for the building that would add to the ambience of the Loop area," said Michael Benoist, project manager in the Office of Facilities Planning and Management. "The turbines also help to reduce the building's overall electricity draw from the community's power grid."

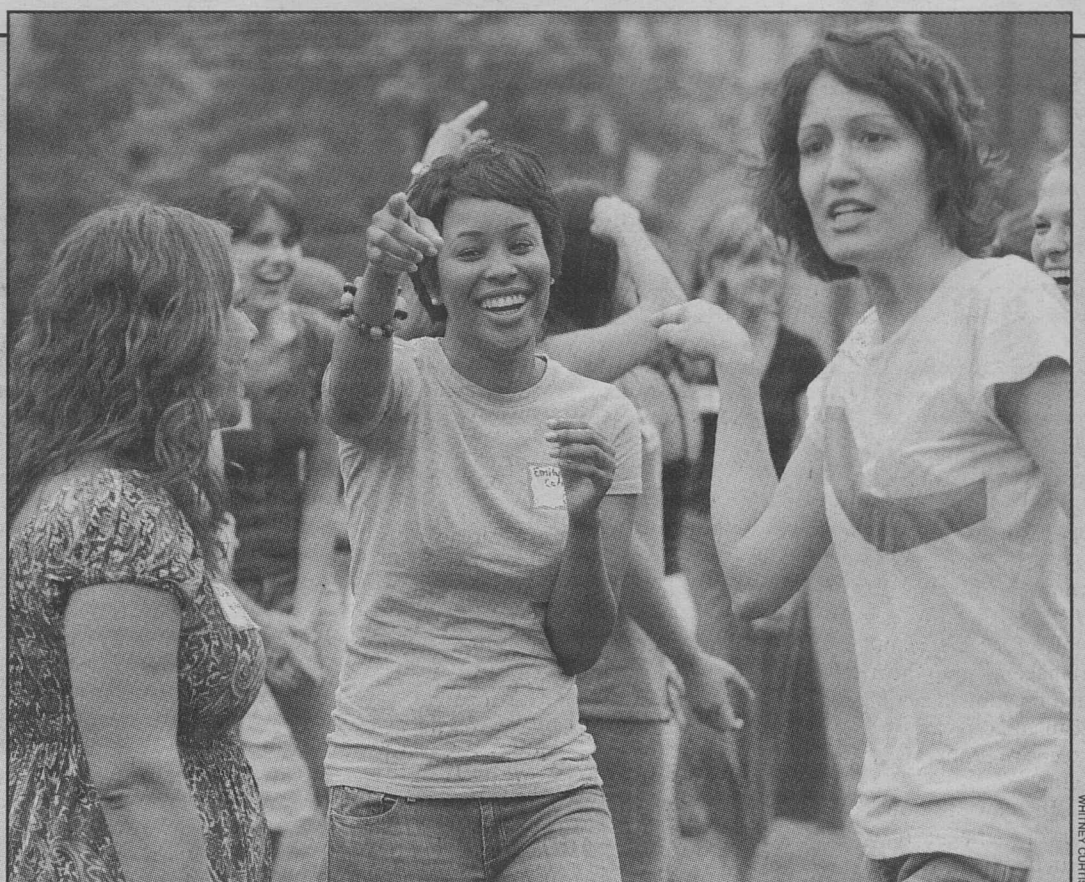
The wind turbines will generate an estimated 14,000 kilowatt-hours per year.

The Corner Building's other green features include a high-efficiency air-conditioning system, a white roof that reflects the sun's rays and insulated windows. During the renovation, existing wood and terrazzo flooring and wood interior doors were restored and reused.

For information on available residential units, call Quadrangle Housing at 935-9511 or visit [liveonthecorner.com](http://liveonthecorner.com).

Retail tenants will be announced at a later date.

Trivers Associates was the architect on the project. Paric Corp. performed the renovations.



**An exciting time for the Brown School** Emily Cornwall (center) and classmates Danielle Green (left) and Tonya Dean participate in a team-building activity during the George Warren Brown School of Social Work's orientation, which featured a community service day, professional development training and other introductory activities. The Brown School begins an exciting year, welcoming one of the largest master of social work classes in the school's history as well as the inaugural class of the master of public health program.

## Foreman named law school Clinical Faculty Fellow

Sarah Jane Foreman, J.D., has been named the School of Law's first Clinical Faculty Fellow.

"Sarah Jane is a great addition to the clinical program and the larger law school," said Annette R. Appell, J.D., associate dean of clinical affairs and professor of law.

"Her experience in criminal and juvenile defense and her interest in tracing the structural and systemic factors that create pathways to prison through the schoolhouse doors intersect with the clinical program's growing engagement with youth advocacy and the regulation of childhood," Appell said.

Foreman, who earned a law degree from Boston College Law School, has worked as an associate specializing in trial practice and as a public defender. She also was a law clerk for both the Environmental Protection Agency and The Nature Conservancy; an intern with the Massachusetts Office of the Attorney General; and a legal assistant for The

Rainforest Alliance.

The clinic fellowship, which is part of the law school's faculty fellows program, is designed to train talented law graduates for success in the entry-level law teaching market, including in clinical education.

Clinical fellows will benefit from direct association with the

school's longstanding and nationally recognized Clinical Education Program while working closely with faculty mentors who are widely respected for their teaching and research.

They will receive assistance in developing academic legal scholarship and opportunities to teach in the Clinical Education Program.

## Campus Watch

The following incidents were reported to University Police Aug. 12-Aug. 23. Readers who have information concerning these incidents are urged to call 935-5555.

### Aug. 13

9:00 p.m. — A bicycle was reported stolen from outside Eads Hall.

### Aug. 21

12:36 p.m. — A bicycle was reported stolen from outside the Psychology Building.

### Aug. 22

2:22 p.m. — A bicycle was reported stolen from outside the Psychology Building.

### Aug. 23

11:54 a.m., 6:59 p.m., 10:02 p.m. — Three bicycles were reported stolen, one from outside Hitzeman House and two from outside Mudd House.

*Additionally, University police responded to seven accidents, four larcenies, two investigations, two sick cases, one accidental injury, one false fire alarm and one report of trespassing.*

## Wilson

— from Page 1

and wise counsel."

Wilson also was a member of the advisory board for the American Culture Studies Program in Arts & Sciences. The Margaret Bush Wilson Professorship in Arts & Sciences — held by John Baugh, Ph.D., director of the African & African American Studies Program and professor of psychology, both in Arts & Sciences — recognizes her outstanding contributions to society and to Washington University.

"Margaret Bush Wilson was one of the most exceptional people I have ever met," Baugh said. "Few Americans will ever leave a comparable legacy of the profound wisdom, kindness, generosity, compassion and visionary leadership that she contributed to St. Louis, America, the NAACP and the entire world."

"She made me feel like a long-standing member of her family, and I will sorely miss her friendship and timely sage advice," Baugh said.

Wilson was born in St. Louis Jan. 30, 1919, and graduated with honors from Sumner High School in St. Louis. She earned a

bachelor's degree in economics, cum laude, from Talladega College and a bachelor of laws degree from Lincoln University School of Law (now merged with the University of Missouri School of Law).

During her junior year in college in 1938, Wilson was selected as a Juliette Derricotte Fellow. As a fellow, Wilson spent six months in India at Visva Bharati College, where she met Jawaharlal Nehru, Rabindranath Tagore and Mohandas Gandhi. She was particularly influenced by Gandhi.

Wilson managed a St. Louis law firm, now Wilson & Associates, for more than 40 years. In addition to practicing law in St. Louis, she was admitted to practice before the U.S. Supreme Court and was a member of the Bar of the State of Illinois. Wilson received the Distinguished Lawyer Award from the Bar Association of Metropolitan St. Louis in 1997.

Wilson also served as legal services specialist, State Technical Office, War on Poverty; administrator, Community Service and Continuing Education Programs, Title I, Higher Education Act of 1965 in the Missouri Department of Community Affairs; acting director and deputy director of St. Louis Model City Agency; assistant director, St. Louis

Lawyers for Housing; and instructor, civil procedure, CLEO Institute, Saint Louis University School of Law.

She was past board chair of two historically African-American institutions, Saint Augustine's and Talladega colleges, and served on numerous boards for national companies and nonprofit organizations, including Monsanto Co., Mutual Life Insurance Company of New York, American Red Cross and United Way. She also was trustee emeritus at Webster University.

She received an honorary doctor of laws degree from Washington University in 1978 and other honorary degrees from Talladega College, Boston University and Smith College.

Wilson is survived by her son, Robert E. Wilson III; her daughter-in-law, Denise; grandchildren Gabriel and Leonardo; her sister, Ermine Bush Byas; nieces and nephews Diane, Timothy, Jordan, Nicholas and Bahiyyah Muhammad; other grandnieces and grandnephews; and friends.

Donations in Wilson's memory to Talladega College, the United Negro College Fund or the national NAACP office may be sent to Attn: Robert Wilson, 4200 W. Page Blvd., St. Louis, MO 63113, or directly to each organization on behalf of Margaret Bush Wilson.

## Tips to keep bicycles secure

BY JESSICA DAUES

Bicycles are the transportation of choice on campus for many WUSTL students, faculty and staff. But keeping those bikes secure on and off campus will help ensure a bike doesn't fall into the wrong hands, said WUSTL Police Sergeant Mark Glenn.

The best way to keep a bike from being stolen is to lock it, and the stronger the lock, the more secure the bike, Glenn said.

The University Police Department on the South 40 sells the Kryptonite Kryptolok, a U-style lock, to WUSTL students, faculty and staff members for \$20. Glenn said WUSTL Police recommend the hardened-steel Kryptolok because it cannot be pried open or cut easily.

"With many bikes that are

stolen, there either was no lock or an inferior-made cable lock," Glenn said. "Using a steel U-lock-style lock prevents people from pulling the lock apart."

What a bike is locked to is just as important as the lock itself, Glenn said.

"The safest place to lock a bike is from its frame to a secure structure, like a bike rack," he said.

Bikes locked to short poles can be lifted and carried away. Immature trees can be snapped or cut. Bikes locked at the wheel can be taken if the wheel is released.

Bike racks are installed at numerous locations around campus, Glenn said, and the University constantly evaluates where additional racks should be installed.

For more information about keeping bikes secure on campus, contact Glenn at [mark\\_glenn@wustl.edu](mailto:mark_glenn@wustl.edu) or 935-5084.

## Record

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## Notables

### Kouvelis named head of executive education at Olin

BY MELODY WALKER

**M**ahendra Gupta, Ph.D., dean and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management at Olin Business School, has named Panos Kouvelis, Ph.D., the Emerson Distinguished Professor of Operations and Manufacturing Management, to the newly created position of senior associate dean and director of executive programs at Olin.

The new position is part of a strategic restructuring of Olin's executive education to drive a synergistic and integrated approach to this portfolio.

In his new role, Kouvelis will be responsible for the strategic development and programmatic effectiveness of Olin's executive MBA programs in St. Louis and Shanghai; the Olin Partners' Program open-enrollment seminars; custom executive programs; and the administration of the Charles F. Knight Executive Education and Conference Center.

Kouvelis has been an active and respected member of the Olin faculty for 12 years. He also is the director of Olin's Boeing Center for Technology, Information and Management.

"Panos is ideally suited to lead Olin's executive programs given

his years of exceptional teaching, renowned research and trusted consulting relationships with business," Gupta said. "His leadership, coupled with our outstanding faculty and staff, position Olin for an exciting new trajectory in providing the very best in executive education to business professionals and their companies today and in the future."

Kouvelis, 48, was born in Lamia, Greece and majored in mechanical engineering at the National Technical University of Athens. He earned a dual MBA and industrial engineering degree from the University of Southern California and earned a doctorate at Stanford University. He taught at the

University of Texas at Austin and the Fuqua School of Business at Duke University before joining the Olin faculty in 1997.

The recipient of numerous awards for teaching, research and service, Kouvelis has published three books and more than 80 papers in academic journals. He also serves in editorial positions at several leading management and operations publications. Kouvelis was instrumental in designing a new master's degree in supply chain management that will launch at Olin this fall.



Kouvelis

### Of note

**Alison Albee**, Ph.D., of the Department of Genetics; **Steve Davidson**, Ph.D., of the Department of Anesthesiology; **Sarah Van Vickle-Chavez**, Ph.D., of the Department of Surgery; and **Gary Port**, Ph.D., of the Department of Molecular Microbiology, have been named 2009-10 W.M. Keck Postdoctoral Fellows in Molecular Medicine by the Division of Biology and Biomedical Sciences. Each year, the division selects four or five outstanding scientists in biomedical research with fewer than two years of postdoctoral research experience and awards each a fellowship of \$25,000 for partial stipend support. This program was established and endowed at the School of Medicine in 1988 with a \$900,000 grant from the W.M. Keck Foundation. ...

**Dennis L. Barbour**, Ph.D., assistant professor of biomedical engineering, has received a two-year, \$750,369 grant from the National Institute on Deafness and Other Communications Disorders for research titled "Neural Encoding of Complex Sounds" ...

**Philip V. Bayly**, Ph.D., the Lilyan and E. Lisle Hughes Professor of Mechanical Engineering and chair of the Department of Mechanical, Aerospace and Structural Engineering, has received a

two-year, \$410,022 grant from the National Institute of Biomedical Imaging and Bioengineering for research titled "Mechanical Changes in the Developing Brain." ...

**Laura A. Burkle**, Ph.D., postdoctoral research associate in biology in Arts & Sciences, and **Tiffany M. Knight**, Ph.D., assistant professor of biology in Arts & Sciences, have received a one-year, \$74,998 grant from the National Science Foundation for research titled "RAPID: Comparing Historic and Contemporary Plant-Pollinator Interaction Networks to Investigate the Effects of Climate Change and Invasive Species." ...

**Robert Criss**, Ph.D., professor of earth and planetary sciences in Arts & Sciences, has received a one-year, \$65,863 subcontract from the City of University City Department of Public Works for research titled "Geochemical Monitoring of the River Des Peres in University City." ...

**Brian P. Cupps**, Ph.D., research assistant professor of surgery, has received a two-year, \$578,354 grant from the National Institutes of Health National Heart, Lung, and Blood Institute for research titled "3D Myocardial Strain Vectors in Ischemic Heart Disease." ...

**Thomas Ferkol**, M.D., associate professor of pediatrics and of cell biology and physiology and director of the Division of Allergy, Immunology and Pulmonary Medicine in the Department of Pediatrics, was elected chair of the American Thoracic Society Scientific Assembly on Pediatrics at its annual conference in May. ...

**David Fike**, Ph.D., assistant professor of earth and planetary sciences in Arts & Sciences, has received a one-year, \$213,900 grant from The Agouron Institute for research titled "Constraining the Ediacaran-Paleozoic Rise of Oxygen." ...

**Steven M. Kymes**, Ph.D., research assistant professor of ophthalmology and visual sciences, received a 2009 Investigator Award from Prevent Blindness America for his project titled "Development of a Model for Estimation of Longitudinal Changes in Mean Deviation in Patients with Primary Open Angle Glaucoma." Kymes was one of four researchers to receive the award, given to research studies dedicated to preventing avoidable vision loss. ...

**Kathryn G. Miller**, Ph.D., professor and chair of biology in Arts & Sciences, has received a three-year, \$280,350 grant from the National Science Foundation for a program titled "REU Site: Cellular and Developmental Biology Research Apprenticeship Program at Washington University in St. Louis (CD-BioRAP)." ...

**Arye Nehorai**, Ph.D., the Eugene and Martha Lohman Professor and chair of the Department of Electrical and Systems Engineering, has received a one-year, \$99,995 subaward from the Defense Advanced Research Projects Agency for research titled "Biologically Inspired Coupled Antenna System." ...

**Arie Perry**, M.D., professor of pathology and immunology, was elected vice president elect of the American Association of Neuropathologists. ...

**Dong Qin**, Ph.D., research associate professor of energy,

environmental and chemical engineering, has received a one-year, \$485,250 subaward from Cornell University for research titled "National Nanotechnology Infrastructure Network." ...

**Peter H. Raven**, Ph.D., the Engelmann Professor of Botany in Arts & Sciences and director of the Missouri Botanical Garden, and **Kyra Krakos**, graduate student in biology in Arts & Sciences, have received a two-year, \$10,873 grant from the National Science Foundation for research titled "The Role of Reproductive Trait Shifts in the Diversification of Oenothera (Onagraceae)." ...

**Mitchell G. Scott**, Ph.D., professor of pathology and immunology and clinical research assistant professor of medicine, began his term as president of the Academy of Clinical Laboratory Physicians and Scientists on June 6 at the academy's annual meeting in Los Angeles. ...

**Shira Stolarsky**, a senior majoring in mathematics in Arts & Sciences, participated in the NEW Leadership Illinois Summer Institute at the University of Illinois at Chicago June 3-7. Stolarsky was one of 20 female students selected for the institute, which provides women an opportunity to discuss leadership education, politics and public policy with female leaders from across Illinois. ...

**Herbert W. Virgin IV**, M.D., Ph.D., the Edward Mallinckrodt Professor, chair of the Department of Pathology and Immunology and professor of molecular microbiology and of medicine, has been appointed director and principal investigator, Midwest Region Center of Excellence for Biodefense and Emerging Infectious Disease Research. ...

**Lihong Wang**, Ph.D., the Gene K. Beare Distinguished Professor of Biomedical Engineering and professor of radiology, has received a five-year, \$5,850,000 grant from the National Institutes of Health for research titled "Photoacoustic/Optical/Ultrasonic Imaging of Sentinel Lymph Nodes and Metastases." ...

**Mrinalini Watsa**, graduate student in anthropology in Arts & Sciences, has received a one-year, \$2,500 grant from Lambda Alpha National Collegiate Honor Society for Anthropology and a one-year, \$1,500 grant from The International Primatological Society for research titled "Genetic Chimerism and Population Structure in Free-Ranging Saddle-Back Tamarin (*Saguinus fuscicollis*) Populations in Southeastern Peru." ...

**WUSTL's Keod chapter of the Mortar Board honor society** received the Silver Torch Award — presented to chapters executing timeliness and dedication while exemplifying the ideals of scholarship, leadership and service — at the 2009 Mortar Board National Conference in July. The Keod chapter also received a Project Excellence Award for its University City Spring Fling Library Event, a literacy festival for more than 50 children. Mortar Board is a national honor society that recognizes college seniors for outstanding achievement in scholarship, leadership and service. ...

**Lan Yang**, Ph.D., assistant professor of electrical and systems engineering, has received a three-year, \$299,126 grant from the National Science Foundation for research titled "Laser Treated Sol-Gel Glass for Ultra-High-Quality Photonic Devices."

## Campus Author

Steven P. Miller, Ph.D., adjunct instructor of history in Arts & Sciences

### *Billy Graham and the Rise of the Republican South*

University of Pennsylvania Press (2009)

**M**ost Americans know Billy Graham as the nation's most famous evangelist. But in Graham's recent biography, author Steven P. Miller, Ph.D., argues that Graham — "a deceptively familiar icon" — did more than save souls in the decades following World War II; his influence helped create the modern South.

In his book "Billy Graham and the Rise of the Republican South," Miller, adjunct instructor of history in Arts & Sciences, says that two of the most important narratives in recent Southern history are the end of Jim Crow laws and the beginning of the Republican Party's hold on white Southern voters. "Graham was both a symbol of — and an agent in — both changes," he said.

While white Southerners struggled to come to terms with civil rights legislation and Brown v. the Board of Education in the 1950s and '60s, Graham welcomed all races to his rallies and preached racial harmony.

"His desegregated Southern crusades, held as early as 1953, provided a religiously comfortable way for some white Southerners to back away from the Jim Crow system," Miller said.

Despite Graham's "color-blind" racial ethic, he was not a



crusader for civil rights. He criticized the protest tactics of Civil Rights Movement leaders and questioned the effectiveness of federal civil rights legislation.

Graham routinely defended the region in the face of outside criticism. His regional boosterism helped popularize the 1970s "Sunbelt" image of the South as a "modern, yet pious region that — so it was claimed — had moved beyond its tragic racial history," Miller said.

Though Graham has acquired a nonpartisan image in recent decades, his involvement with Presidents Dwight Eisenhower and Richard Nixon contributed to the growth of the Republican

Party in the South in the 1950s, '60s and '70s, Miller said.

"As a racial moderate who was beloved in his home region, Graham was extremely useful in Nixon's efforts to win over white Southerners without directly endorsing their segregationist leanings," Miller said. "Graham can be linked with the broader conservative shift in American political culture that only now might be coming to a close."

Miller grew up in Stuarts Draft, Va., but his parents were from Pennsylvania. He said that as a child he didn't consider himself a Southerner "per se."

"I hope that the 'in, but not of' sensibility of my youth now enables me to offer a critical, yet empathetic perspective on recent Southern history," he said.

Miller said he never saw Graham preach in person but experienced firsthand Graham's influence on the region.

"As a child, I was exposed to many of the rituals of evangelical Christianity, including a few trips to the cinema to see movies produced by Graham's association," he said. "They always ended with a Graham altar call."

— Jessica Daues



## Washington People

By GWEN ERICSON

**S**ometimes a prediction is so off the mark it's comical — take one made by Elliot L. Elson, Ph.D., early in his career.

He had teamed up with physicists Watt W. Webb, Sc.D., and Douglas Magde, Ph.D., to study how DNA double helices unwind. For many months, they struggled without success. But ultimately their efforts led to a new way of detecting molecular motion.

Their technique was so original Webb suggested they patent it. Elson replied, "Watt, this is the most elegant thing we will ever have worked on, but it's also the most useless."

Now, more than 35 years later, the method — fluorescence correlation spectroscopy (FCS) — has advanced into a sophisticated and widely adopted technology.

"I was wrong about FCS," Elson says with a chuckle. "Now several companies produce commercial FCS instruments, and it's used in labs around the world."

Elson, the Alumni Endowed Professor of Biochemistry and Molecular Biophysics, joined the School of Medicine in 1979, and here he has studied the movement and distribution of cell surface proteins, cell motility and the forces that determine the



Elliot Elson, Ph.D. (left), and Traci Abney, a graduate student in mechanical engineering, look over some of Abney's data in Elson's lab in the McDonnell Medical Sciences Building. "Simply put, Elliot is brilliant," says Carl Frieden, Ph.D., professor of biochemistry and molecular biophysics. "It has been a privilege to have my lab next to his and to be able to call on his expertise at any time. Internationally known and respected, his approach to science puts him well ahead of the curve."

## Curiosity is his compass

Elson's lab is a center of collaboration and invention

### Elliot L. Elson

**Education:** B.S., biochemistry, Harvard University; Ph.D., biochemistry, Stanford University

**Titles:** The Alumni Endowed Professor of Biochemistry and Molecular Biophysics, professor of physics in Arts & Sciences and of biomedical engineering

**Family:** Wife, Frances Tietov, who is principal harp at the Saint Louis Symphony Orchestra; sons Louis Woodhams, 30, a graduate of the University of Miami in philosophy, and Julian Elson, 25, a graduate of the University of Chicago in economics. Both sons live in St. Louis.

**Books:** Co-author with Hong Qian, Ph.D., of the University of Washington, of an upcoming book "Introduction to Fluorescence Correlation Spectroscopy"

shapes of cells.

"Elliot is the consummate scientist, using experimental observation and intellectual curiosity as his compass in the laboratory instead of popular dogma," says Tom Ellenberger, D.V.M., Ph.D., the Wittcoff Professor and head of the Department of Biochemistry and Molecular Biophysics.

"For many years, Elliot has focused on understanding how cells and tissues are organized as physical entities," Ellenberger says. "One could say that he is an old-school nanomaterials scientist, drawing insights from biology that can be constructed into a set of engineering principles for life itself."

### Getting into science

Elson grew up in St. Louis and earned a bachelor's degree in biochemistry from Harvard University. He thought he was headed for a career in medicine. His father, a cardiologist, hoped his son would follow in his footsteps.

"I had huge stacks of medical school applications on my desk," Elson says. "But I realized I really wanted to do scientific research. So somewhat to my father's dismay, I didn't go to medical school."

Elson's undergraduate adviser, renowned biochemist John T. Edsall, Ph.D., said that for his

graduate work, Elson should apply to Arthur Kornberg, M.D., head of microbiology at Washington University.

Elson went to see the eminent scientist, meeting him in his lab in the West Building. Kornberg was in the midst of an experiment and continued pipetting samples while he interviewed Elson.

Even with such distractions, the exchange went well, and Elson was accepted into the department. It was 1959, the year Kornberg won a Nobel Prize in Physiology or Medicine for his work on DNA biochemistry.

It was also the year Kornberg moved to Stanford University to head the biochemistry department. Elson went, too, and there he got a less-than-glamorous initiation into cutting-edge science.

"My first job was unpacking the boxes they had moved from St. Louis," Elson says.

### Advancing on FCS

At Stanford, Elson delved into the physical chemistry of DNA. James Watson, Ph.D., and Francis Crick, Ph.D., had only recently proposed the double-helical structure of DNA, and biochemists were eagerly analyzing how the molecule behaved in living cells.

The DNA helix has to unwind so that genes can be decoded. Elson worked out a theory for DNA unwinding while a postdoctoral associate at the University of California, San Diego.

Finishing his postdoctoral stint, Elson moved to Cornell University as assistant professor of chemistry in 1968. There he decided to test his theory by looking at the double helix in a state in which short sections spontaneously twist and untwist. That led to the development of FCS.

"With FCS, you pass a narrow laser beam through a mixture that contains a few fluorescent molecules," Elson says. Elson made use of fluorescent molecules that could enter the DNA double helix when the bonds between strands loosened.

"When a molecule enters the beam, it fluoresces, or emits a burst of light, which you can use to determine how fast molecules diffuse under specific conditions,"

he says. "The great advantage of FCS is that you can apply it in very tiny systems, including living cells."

Elson and his colleagues never solved how to measure DNA unwinding, but FCS took on a life independent of the question it was designed to answer.

### Pattern of invention

In his lab, Elson and his lab members construct many of the instruments they use, which are often assembled from recycled components.

"They build what they need from scratch, even to the point of using things they've salvaged from a Dumpster," says frequent collaborator Guy Genin, Ph.D., associate professor of mechanical, aerospace and structural engineering, pointing out that a soda can was used to make the universal joint for one instrument.

"The lab is one of the first places we show engineering-school visitors, and it's always a highlight. The Elson lab members perform experiments no one else can do," Genin says.

A pattern of posing a scientific question and then working with colleagues to design a tool to help answer it continues to mark Elson's career. To measure diffusion of molecules on cell surfaces, he and colleagues developed FRAP (fluorescence recovery after photobleaching), a sister technology of FCS.

To gauge the elasticity of individual cells, they built their own cell indenter. The instrument holds a tiny probe that taps cells and measures resistance — like a baker judging the springiness of dough by poking it with a finger.

To determine the contraction of cells, such as those that restore tissue integrity during wound healing, Elson's team put together an apparatus whose hooks and bars sense the tension from a band of artificial tissue.

They also invented the method for making the tissue. They suspend living cells in a Jell-O-like matrix of collagen, which is molded into a cylinder and soaked in a warm nutrient bath.

This type of tissue engineering has been used to create artificial heart tissue in which the cells learn to contract in unison, beating like a bit of natural heart muscle. Other labs are testing such tissue to see if it could help

restore heart function after a heart attack.

"Simply put, Elliot is brilliant," says Carl Frieden, Ph.D., professor of biochemistry and molecular biophysics. "It has been a privilege to have my lab next to his and to be able to call on his expertise at any time."

Internationally known and respected, his approach to science puts him well ahead of the curve."

The ingenuity of his co-workers is responsible for many of the inventions in his lab, Elson says. Current members include Tony Pryse, Ph.D., senior scientist, and William McConaughy, staff scientist, who created the cell indenter.

Genin says that Elson maintains an open-door policy that benefits many at the University.

"Nearly every person in the engineering school who is doing biophysical research uses his equipment," Genin says. "Our late colleague George Zahalak remarked to me that Elliot is the perfect collaborator: He has the patience to listen, the intellect to understand, the fluency to explain, and the warmth of personality to make learning a joy."

### Rafting on

Elson's most recent research focuses on theoretical structures called lipid rafts. Some scientists have proposed that the outer surface of cells contains islands, or "rafts," of tightly packed lipid molecules floating in a sea of fluid lipids. But no one is sure whether rafts are real, and if so, whether they are persistent or fleeting. Elson is trying to resolve that issue with methods such as FCS.

The work could reveal how lipid rafts might regulate the growth of malignant tissues such as breast tumors. It could also help scientists understand what happens when viruses like HIV reproduce and burst from their host cells, taking snippets of cell membrane with them.

Juggling his numerous projects and collaborations, Elson retains his great enthusiasm for scientific investigation and for the new ideas and technologies that have entered the field of biochemistry over the years. He looks forward to what's next on the horizon: "It's a given," he says, "you'll never run out of things to discover."



The Elson family (from left): son Julian Elson; Elliot Elson; wife, Frances Tietov; friend Suzanne McSwain; and son Louis (Louie) Woodhams. Behind them is a painting by Tietov's father, George Cohen, titled "Rockets and Rockettes."