



Washington University

in St. Louis

SPRING 2006 MAGAZINE



Autonomy as Self-Determination

Philosopher Marilyn Friedman's research indicates how an autonomous existence improves the lives of women in many political and social realms.



Meghan Healy Luecke



Meghan Healy Luecke

And the Winner Is ...

The Office of the Vice Chancellor for Students sponsored Washington University's first Student Photo Contest in fall 2005. The first-place photograph (above) was taken by freshman Meghan Healy Luecke, of San Francisco. Luecke also took a winning photograph of her friends (left) on the South 40: (clockwise from bottom left) Shweta Pai, Toledo, Ohio; Joy Chiang, Palo Alto, California; Ania Tcherogueiko, Deerfield, Illinois; Yogitha Potini, Bloomington, Illinois; and Seonha Park, Bettendorf, Iowa.



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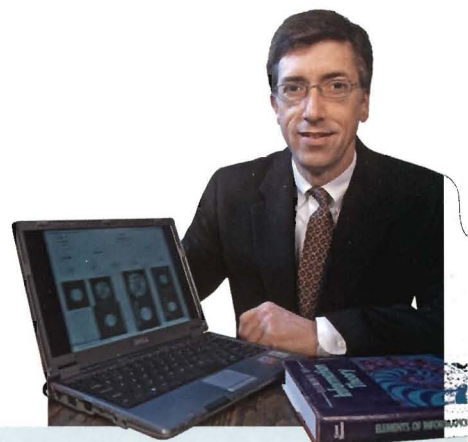


Jon Feltheimer, A.B. '72, is the CEO of Lionsgate, the premier independent film and entertainment production and distribution studio (page 25).

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The recognition theory and applied imaging science that Professor Jody O'Sullivan develops can be used to locate a tank via satellite or find cancer lurking in a human brain or breast (page 12).



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Alumna Patricia Vance presides over the Entertainment Software Rating Board, educating consumers about the content of computer and video games.
- 31 **Military Action Against Malaria**
The infectious disease research of several medical alumni, who are Army colonels, assists our military personnel as well as civilian populations worldwide.

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Cover: Marilyn Friedman is professor of philosophy in Arts & Sciences and author of *Autonomy, Gender, Politics*.



Katie Schwarz (left) and Laila Dantas are among the dedicated students in STONE Soup helping the area's homeless (page 10).



■ "A-maizing" Work: Sequencing the Corn Genome

These days, a top priority of Richard K. Wilson (below) is the project to sequence the genome of maize, popularly

known as corn. On December 1, 2005, Wilson, director of the University's Genome Sequencing Center (GSC), professor of genetics, and lead investigator on this project, joined with other GSC researchers to begin the project, estimated to take three years.

Wilson says it's important to sequence the genome of maize, an important agricultural crop and U.S. export, because it is a top food source for humans and animals. GSC researchers, who will work primarily

with the maize cultivar known as B73, believe their findings can lead to crops with higher yields and better drought-tolerance, helping farmers worldwide.

In addition, having the maize genome sequenced will make it easier to look directly at the DNA of new cultivars to see if they have inherited desired traits.

Wilson adds that GSC's research of maize, supported by a total of \$29.5 million from the National Science Foundation and the U.S. departments of agriculture and energy, will be applicable to other plant genomes, making sequencing easier for other important crops such as soybeans and sorghum.

WUSTL Is Named a Historic Physics Site

The University, thanks to X-ray research by the late Arthur Holly Compton, a physicist and later chancellor at the University, is among the first five U.S. sites to be listed on the American Physical Society's Register of Historic Sites.

A commemorative plaque from the society will hang alongside a University plaque just inside the Eads Hall main entrance that marks the building in which Compton discovered the X-ray scattering effect. For his groundbreaking research during 1920–23 at the University, Compton received the Nobel Prize in physics in 1927, becoming the University's first Nobel laureate.

Having left in 1923 for the University of Chicago, where he made important



Robert Boston

To Paleontologists, "Al Dente" Means Discovery

Most of us hear "*al dente*" (Italian, "to the tooth") and think of cooked pasta that's firm but tender.

Likewise, most of us might look at a theropod, a predatory dinosaur, and say, "My, what big teeth you had."

But dinosaur teeth have meant new discoveries for paleontologist Josh Smith,

assistant professor of earth & planetary sciences in Arts & Sciences, and co-authors, David R. Vann and Peter Dodson of the University of Pennsylvania in Philadelphia.

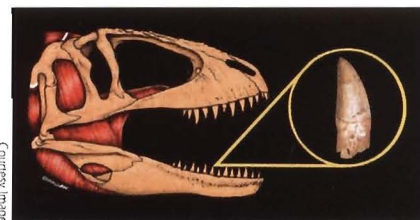
They built a database of tooth morphology, as they

analyzed specimens held in museums worldwide. This project was possible because theropods and other dinosaurs in the Mesozoic Age, between 65 million and 225 million years ago, continually shed and replaced teeth. The teeth,

which fell from their mouths into streams and onto forest floors, survived millions of years of sedimentation.

Smith and his colleagues used a variety of measurements—some of which had been defined by previous workers—and they devised functions that help quantitatively describe the shapes of the curved surfaces of the teeth. In the process, they collected data from 2,000 teeth, ending up with 300 usable ones. The result was a preliminary but rigorous method of classifying theropod teeth that correlate with established genera.

The team's results will be invaluable to paleontologists trying to accurately reconstruct the Mesozoic era, and their method could help paleobiologists identify and reconstruct the lives of the creatures that roamed our terra firma many millions of years ago.



Courtesy: Image

Having survived for millions of years, the teeth of dinosaurs such as the theropod, depicted at left, are providing clues to the Mesozoic Age.

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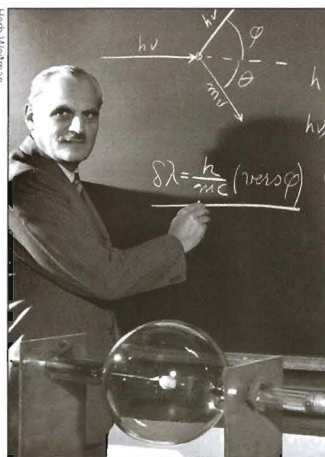
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contributions to cosmic rays physics and later played a major role in WWII's atomic-bomb project, Compton returned to Washington U. in 1945 to become its ninth chancellor, serving for eight years. Compton brought many outstanding faculty to the University, particularly in the sciences, and in so doing he began Washington University's rise to international stature.

HISTORIC PHYSICS SITE
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The plaque (top) honors the University and the work of Arthur Holly Compton (above).

Blood Test Can Show Recurrence of Breast Cancer

An inexpensive and reliable blood-serum test may one day help monitor whether a woman is having a recurrence of breast cancer, according to a School of Medicine researchers' study published in the journal *Clinical Cancer Research*.

The test, using a technique called an ELISA (Enzyme Linked Immuno-Sorbent Assay), measures mammaglobin, a protein present in low levels in all women and present in higher levels in the blood serum of patients with metastatic breast cancer.

"A test for mammaglobin holds significant promise for catching metastatic tumors early," says study co-author Timothy P. Fleming, research associate professor of surgery at the School of Medicine and a researcher with the Siteman Cancer Center.

Co-author Mark A. Watson, associate professor of pathology and immunology and director of the Multiplexed Gene Analysis Core and Tissue Procurement Core at the Siteman Center, says,



Kevin Lowder

Drawing Marathon Lasts All Night

Rachel Harris (above), Art Class of '08 in the Sam Fox School of Design & Visual Arts, was among students participating in the College of

Art's fall Drawing Marathon, from 7 p.m.-7 a.m. on October 14, 2005. The event featured free art supplies and two live models as well as still-life sets, live music, yoga, and refreshments. Many of the works created were auctioned for charity as part of Dance Marathon.

"Compared to the few other known biomarkers linked to breast cancer, mammaglobin, which is secreted by tumor cells, is a more reliable indicator of disease."

The study, based on tests of 56 women without breast cancer and 26 women with metastatic breast cancer, also showed that the ELISA test was able to detect accurately a wide range of

mammaglobin concentrations, from very low to very high. The study also showed no potential problems with sample storage. Plans exist for a much larger study.

Regarding other uses for mammaglobin, Fleming says, "Groups are looking at its potential in a variety of diagnostic circumstances, as well as in creating a breast-cancer vaccine."

Architecture Students Build Shade Pavilion

It was 45 degrees in the shade pavilion (right) when several of the 11 architecture students in Carl Safe's design/build studio, who built the structure, joined Safe (center) and project donor, Ethel Sherman (center right).

Safe, professor of architecture in the Sam Fox School of Design & Visual Arts, guided students, as Sherman cheered them on throughout the four-month project, finished in mid-December 2005.

With her gift, Sherman, a resident of University City, honored the memory of her late husband, William "Bill" R. Sherman, professor emeritus of biochemistry in psychiatry at the School of Medicine. The Shermans, who shared a deep love of architecture and design, became friends with Safe, and over the years, he did several major projects at their residence.

The pavilion project provided students with valuable experience; for passers-by, it has supplied a shaded sitting area east of the post office in the Delmar Loop. It is the third such project led by Safe in as many years.



David Kiper

Alzheimer's Disease: Three Important Discoveries

Process May Help Predict Alzheimer's

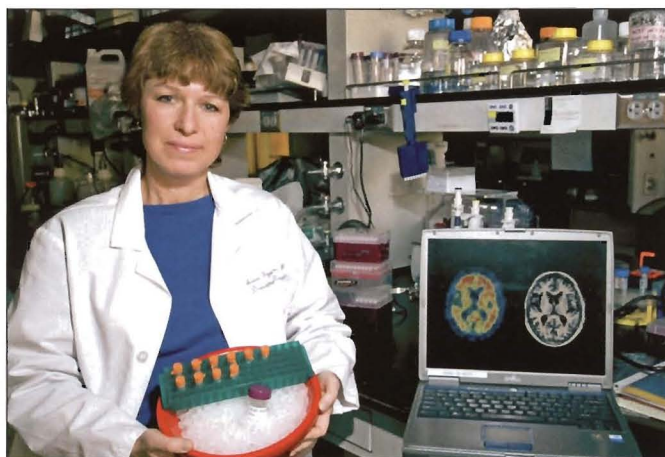
Using a combination of analysis of cerebrospinal fluid and brain scans performed with a new imaging agent, scientists may be moving toward techniques for diagnosing Alzheimer's disease before its clinical symptoms become apparent.

Anne Fagan Niven, research associate professor of neurology, with colleagues Mark Mintun, professor of radiology, and David Holtzman, the Andrew B. and Gretchen P. Jones Professor and head of the Department of Neurology, studied a group of 24 people that included individuals diagnosed with very mild and mild Alzheimer's disease and cognitively normal subjects.

In patients with cognitive impairments believed to be attributable to Alzheimer's disease, researchers found low levels of amyloid beta 42 (A-beta 42), a substance produced naturally in the brain, in their cerebrospinal fluid. (For years, researchers have suspected that the creation of amyloid plaques may be linked to breakdowns of the processes that degrade or normally clear A-beta 42 from the brain, causing a lower-than-normal amount to appear in cerebrospinal fluid and the bloodstream.)

In the same individuals, brain scans done with a new imaging agent, PIB (Pittsburgh compound B), which temporarily sticks to amyloid plaques in the brain, were positive.

What scientists didn't anticipate was that three cognitively normal subjects also would show both low cerebrospinal fluid (CSF) levels of A-beta 42 and positive results from the brain scans. "This doesn't prove that the three normal subjects will one day develop clinical Alzheimer's disease," Fagan says, "but it is intriguing enough that we surely want to closely follow the participants, to see if they develop Alzheimer's."



Anne Fagan Niven, research associate professor of neurology, holds vials of cerebrospinal fluid as an adjacent monitor displays PIB brain scans—both vital to ongoing research in the early detection of Alzheimer's.

In addition, Fagan, using PIB data from ongoing studies at the University, discovered that everyone who was PIB positive also had lower CSF A-beta 42 levels.

"The hope is that 10 to 20 years from now we'll give people a PIB scan, draw and analyze their CSF, and combine that with other factors to get a global score for their personal risk of Alzheimer's," she says. "That way we can use, at an earlier stage in the disease process, any successful disease-modifying treatments that come out of clinical trials now under way."

Molecule May Reduce Risk of Alzheimer's

A study of genetically modified mice has shown that the molecule P-glycoprotein (Pgp) appears to clear the brain of amyloid beta (A-beta) peptide, the main component of plaques found in Alzheimer's disease. This was a finding of collaborative research by two labs at the School of Medicine and a lab at the University of Rochester (N.Y.).

In one test, lead author John R. Cirrito, a postdoctoral research scholar working in the lab of co-author David

Holtzman at the School of Medicine, crossbred a mouse model lacking the gene that makes Pgp with a mouse model having an inserted human gene, APP, that makes it develop a condition similar to Alzheimer's disease. Cirrito compared the resulting line of mice to a same-age control group that had the APP gene and didn't have the one making Pgp.

When they were older, mice who lacked Pgp had approximately three times as much buildup of A-beta in their brains as the APP mice without Pgp. (Mice lacking the Pgp gene were developed by the lab of co-author David Pownall-Worms, professor of molecular biology and pharmacology and of radiology at the School of Medicine. His lab has spent more than a decade studying the role that Pgp plays in resistance to chemotherapy.)

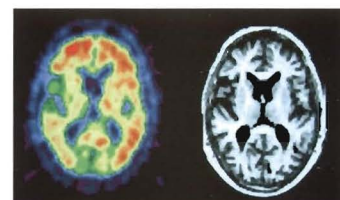
This shows that if Pgp is not working properly over the course of months, it can actually impact the pathology of Alzheimer's. Researchers say the link is potent and intriguing enough to suggest several potential follow-up studies, including investigations of how pharmaceuticals might affect Alzheimer's risk by altering Pgp activity levels.

Lapses in Attention May Signal Onset of Alzheimer's

Subtle breakdowns in attention may offer one of the earliest reliable clues that a patient is grappling with early symptoms of Alzheimer's-related dementia. That's what a study by lead author Janet M. Duchek, associate professor of psychology, and co-author David A. Balota, professor of psychology—both in Arts & Sciences—shows.

The researchers tested 94 participants, who, as a group, had an average age in the mid-70s, on their ability to shift attention back and forth between competing sources of information.

Participants—healthy control individuals or individuals diagnosed with very mild or mild Alzheimer-related dementia—were presented with distinct streams of audio information via headphones. By asking participants to recall what they heard, researchers were able to measure an individual's ability to switch back and forth between right-left processing channels and to check how well participants' attention skills allowed them to overcome the inherent



tendency to favor information presented to the default right ear-left hemisphere language channel. People with early dementia tended to rely more often on the right ear.

This study suggests that underlying declines in attention may be contributing to memory mishaps. "Attention, a prerequisite for memory, likely is a contributing culprit," Duchek says.

In other research, an international team led by School of Medicine scientists, is zeroing in on a gene, specifically a region of chromosome 10, that appears to increase risk for Alzheimer's.

Athlete Rewrites Record Books

Wide-receiver Brad Duesing (right), Arts & Sciences Class of '06, shows a great ability to run after the catch—one of his many skills helping his team to four consecutive winning seasons and three conference championships.

Duesing, recognized as the University Athletic Association (UAA) Offensive Player of the Year for the second consecutive year, a rare feat in itself, became only the second player in NCAA history (Div. I, II, or III) to record four consecutive 1,000-yard receiving seasons. He ranks first



in school history in receiving yards and pass receptions, and, in 2005, his senior year, he had a school-record 75 catches for 1,136 yards and 10 touchdowns.

When Duesing joined the football team as a freshman, there was little inkling of what was to come. In fact, Coach Larry Kindbom had told him not to expect to see playing time his first year. However,

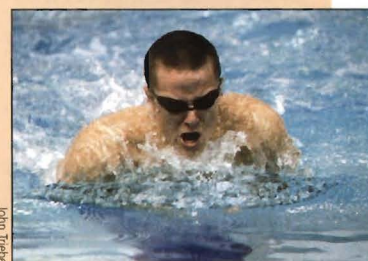
Duesing filled in for injured players and began setting records his freshman year. He never looked back, and the rest literally is history.

Men's Season Is Going Swimmingly

Eric Triebe (right), Engineering Class of '06, who shows his winning form in the breaststroke, and Michael Slavik, Arts & Sciences Class of '06, have led the men's swimming and diving team to several top-place finishes this season. Slavik holds top times in five out of 14 individual events, and both swimmers were in school-record-setting foursomes

in the 200-freestyle, 200-medley, 400-freestyle, and 800-medley relays.

Season highlights for the team (4-2) have been winning the Wheaton (Ill.) College Invitational on December 2-3, 2005, besting eight other teams, and winning Washington University's Thanksgiving Invitational on November 19-20, 2005.



People Around Campus

Professor and chair of earth & planetary sciences in Arts & Sciences, will serve as chairman of NASA's Mars Exploration Program Analysis Group through June 30, 2008.

Trustee **Floyd E. Bloom**, M.D. '60, head of Neurome, received the 2005 Rhoda and Bernard Sarnat International Prize in Mental Health.

John R. Bowen, the Dunbar-Van Cleve Professor in Arts & Sciences, was one of 16 academics receiving nationwide recognition as a 2005 Carnegie Scholar for his work on Islam in France. The Carnegie Corporation of New York provides the scholars with up to \$100,000 each over two years to pursue research, this year focusing on Islam and the modern world.

Lisa Bulawsky, associate professor of printmaking and drawing in the Sam Fox School of Design & Visual

Raymond E. Arvidson, the James S. McDonnell Distinguished University

Arts, received an Excellence in Teaching Award from Emerson Electric Co.

Milorad P. Duduković, the Laura and William Jens Professor of Environmental Engineering, chairman of chemical engineering, and director of the Chemical Reaction Engineering Laboratory, received the 2005 Fuels and Petrochemicals Division Award from the American Institute of Chemical Engineering.

Four faculty members have been named to endowed professorships: **Thomas Ellenberger**, who came from Harvard (University) Medical School in Boston, to the University's School of Medicine on January 1, 2006, as the Raymond H. Wittcoff Professor and head of the Department of Biochemistry and Molecular Biophysics; **Bruce H. Haughey**, professor of otolaryngology, to the Kimbrough Chair in Maxillo-facial Surgery and Prosthodontics; **Robert E. Hegel**, professor of Chinese language and literature, as the first Liselotte Dieckmann Professor of Comparative Literature in

Arts & Sciences; and **Mabel Moraña**, professor of Spanish and professor of international and area studies, both in Arts & Sciences, as the first William H. Gass Professor in Arts & Sciences.

Alex S. Evers, the Henry Eliot Mallinckrodt Professor and head of the Department of Anesthesiology as well as a professor of medicine and of molecular biology and pharmacology, was elected to the Institute of Medicine of the National Academy of Sciences, one of the highest honors medical scientists in the United States can receive.

Guy M. Genin, assistant professor of mechanical and aerospace engineering, and his colleagues—neurosurgeons **Eric C. Leuthardt** and **Dennis J. Rivet**, former School of Medicine residents who trained at Barnes-Jewish Hospital in St. Louis—have received \$30,000 from the University's Bear Cub Fund for development of a head-restraint device. The fund, founded to help support the development of new inventions, was established by the Office of Research to help

University inventors attract investment interest.

Two assistant professors of computer science and engineering, **Christopher D. Gill** and **Aaron D. Stump**, recently received National Science Foundation Faculty Early Career Development Awards.

Alison M. Goate, the Samuel and Mae S. Ludwig Professor of Genetics in Psychiatry and professor of genetics and of neurology, received the University's Carl and Gerty Cori Faculty Achievement Award.

Mark F. Jacquin, research professor of neurology at the School of Medicine, and **Jonathan B. Losos** and **Philip A. Osdoby**, both professors of biology in Arts & Sciences, were elected by their peers as fellows of the American Association for the Advancement of Science.

Stephen H. Legomsky, the Charles F. Nagel Professor of International and Comparative Law, received the University's Arthur Holly Compton Faculty Achievement Award.

Colangelo Named Dean of the Sam Fox School

When Carmon Colangelo becomes the first dean of Washington University's Sam Fox School of Design & Visual Arts on July 1, 2006, he'll be bringing extensive experience as an artist and administrator with him.

Since 1997, he has been director of the Lamar Dodd School of Art at the University of Georgia (Athens), which includes approximately 1,000 undergraduate and 90 graduate art majors. *U.S. News & World Report* ranks the school's M.F.A. program among the top 21 in the nation and its printmaking program among the top three.

Previously, Colangelo, who was born in Canada and earned a Bachelor of Fine Arts degree in printmaking and painting from the University of Windsor in Ontario and a



Helene Mateer Sears (left), Architecture Class of '08 in the Sam Fox School of Design & Visual Arts, greets Carmon Colangelo, who was named the School's first dean, at a reception for him in November 2005.

Master of Fine Arts degree in printmaking from Louisiana State University, held administrative posts at West Virginia University in Morgantown.

As an artist, Colangelo, known for large mixed-media prints that combine digital and traditional processes, has been featured in 15 solo

shows and dozens of group exhibitions in Argentina, Canada, England, Italy, Korea, Mexico, Puerto Rico, and across the United States. His work has been collected by many of the nation's leading museums, including the National Museum of American Art in the nation's

capital; the Whitney Museum of American Art in New York City; and the Fogg Art Museum at Harvard University in Cambridge, Massachusetts.

Colangelo will oversee the Sam Fox School's four academic units—the College of Art, the College of Architecture, the Graduate School of Art, and the Graduate School of Architecture & Urban Design—as well as the Mildred Lane Kemper Art Museum, home to one of the nation's finest university collections of modern art.

His appointment comes amidst a nearly \$60 million campaign to improve Washington University's arts facilities. Plans include extensive renovations to Bixby, Steinberg, and Givens halls, as well as the construction of two new buildings—the Mildred Lane Kemper Art Museum and Earl E. and Myrtle E. Walker Hall—designed by Pritzker Prize-winning architect Fumihiko Maki, who also designed Steinberg Hall.

■ Siteman Reduces Disparity in Cancer Care

Each day, 3,400 persons in the United States are diagnosed with cancer, and another 1,500 die from the disease. Of these totals, racial and ethnic minorities form a larger percentage than their proportions in the general population.

Since its inception in 1999, the Alvin J. Siteman Cancer Center has implemented highly successful strategies for reducing such disparities in cancer care. Siteman began with a focus on breast cancer, developing innovative, accessible outreach strategies. It introduced breast-cancer programs that involved local church groups and other

community-based organizations and used a mammography van to reach underserved persons in their neighborhoods. Siteman members distributed health information, and they mined sources of funding on behalf of women of limited means.

As a result of Siteman Center initiatives, African-American participation in the Center's breast-cancer studies went from 10 percent in 2000 to 28 percent in 2004. (In the St. Louis metropolitan area, African Americans constitute about 18 percent of the population.)

Another outcome is that the Center provided more than 2,000 breast-cancer screenings for uninsured women in 2005. Siteman, which serves as a regional referral center for low-income, uninsured women, has provided treatment for more than 100 such women since fall 1999, when the Center opened.

Because of the Center's success, the National Cancer Institute awarded it a five-year, \$1.25 million grant to support its Program for the Elimination of Cancer Disparities, directed by Dione Farria, assistant professor of radiology, and Katherine Jahnige Mathews, assistant professor of obstetrics and gynecology

and physician at Connect Care, part of the St. Louis region's health-care safety net.

"Breast-cancer outreach has provided a prototype," Farria says. "Using what we've learned from our experience, we plan to expand our outreach in the areas of prostate, lung, colorectal, and cervical cancers."



Sherrill Jackson (center) is not only a patient of physicians Dione Farria (left) and Katherine Jahnige Mathews (right), but she is a good friend and mentor and an invaluable supporter of the Siteman Cancer Center.



Creativity and Innovation Are Keys to Success

Creativity and innovation are the main themes in the cutting-edge research being conducted by the faculty at the Olin School of Business. These themes, long seen as key to an organization's success, took center stage at a half-day conference recently presented by the School. Titled "Thought Leadership at Olin: Innovative Ideas Applied to Business," the event showcased research by the School's faculty members, who are ranked No. 10 worldwide in terms of research productivity, based on *Financial Times'* rankings of Executive M.B.A. programs in October 2005.

The event, attended by 149 executives representing 88 companies, gave business leaders a "sneak preview" of new ideas that may be applicable to their business challenges and opportunities.

Event seminars, featuring 11 faculty presenters, included ones titled "Innovation and Growth: The Organizational Challenges," "Stuck with a Bunch of Freaks: Making Cross-Disciplinary Teams Work," "10 Lessons for Successful Global Expansion," and "Problem Solving as an Engine of Growth."

"This event illustrates the

importance of marrying research and practice," says Mahendra Gupta, dean and the Geraldine J. and Robert L. Virgil Professor in Accounting and Management.

"Businesses and business schools are learning that, to be successful, one must avoid working in a silo and instead learn to create and innovate in collaboration."

Teach for America and School of Social Work Join Forces

Teach for America (TFA) is partnering with the George Warren Brown School of Social Work to offer its corps members and alumni added incentives to apply to study in the School's Master of Social Work (M.S.W.) degree program—one that could help them continue a career of community service. The alliance aims to benefit society at large, as well as TFA and the School.

"Teach for America and the School of Social Work share a common passion for pioneering social change," says Edward F. Lawlor, dean and the William F. Gordon Professor at the School.

The social work school is offering several admissions

benefits to TFA corps members and alumni: Their application fee is waived; students admitted to the School who decide to join TFA before enrollment can defer enrollment for two years; for those TFA members and alumni not receiving scholarship funds, the School will match TFA funding; and annually, each of two TFA alumni will be chosen to receive a \$35,000 Dean's scholarship.

Janice Wells-White, assistant director of admissions at the School of Social Work, says it is a goal of the School to recruit strong analytical leaders committed to making a difference. "We are confident that Teach for America corps members and alumni possess the characteristics we seek," she says, "and our new admissions incentives reflect our commitment to attract Teach for America's best and brightest."

"While the alliance is relatively new," Wells-White adds, "it already is working extremely well."

Students Trip the Light Fantastic

An illuminated dance floor, created by about 60 students, was the hit of the Engineering Student Council's annual dance party, *Vertigo*, in fall 2005. Thousands of students came to Lopata Hall to enjoy dancing in kaleidoscopic light. The floor was a platform able to display 4,096 colors via its 1,536 long-lasting and low-power-consuming LEDs.

Working hard for four months, students, from all engineering disciplines in the School of Engineering & Applied Science and several from outside the School,

used computer programming for light sequences. [Many participating students belong to the Institute of Electrical and Electronics Engineers (IEEE).] They also achieved special effects, sometimes using substances as common as aluminum foil.

The students, inspired by a similar creation by inventive students at the Massachusetts Institute of Technology in Cambridge, added distinctive features, such as wireless remote control, portability, and custom software.

"The floor was a huge draw," says IEEE president Pehr Hovey, Engineering Class of '08. "This was definitely the biggest *Vertigo* in the University's history."



Student Life, Pacific Panel



Working in a medical school lab, senior Sheena Chew (left) studies the neurological development of zebrafish.

New Office Promotes Undergraduate Research

At the symposium sponsored recently by the Office of Undergraduate Research (OUR), 30 undergraduates, mainly juniors and seniors, presented their research in areas ranging from art to business.

Included was Sheena Chew, Arts & Sciences Class of '06, who, for more than two years, has been comparing the neurological development of normal and mutant zebrafish as a means of learning more about the neurological development of humans.

Chew and her mentor, Eric Schroeter, research associate in anatomy and neurobiology, work in the lab of neurology professor Rachel Wong.

Students used posters and visual presentations to explain their research to a campus-wide audience. Other topics included the genetics of alcoholism, the "testing effect" of open- and closed-book tests on long-term retention, whale and dolphin vestibular systems, and the extent to which stereotypes and prejudice can be activated automatically.

OUR also provides undergraduate researchers with funding and other services, such as publishing their work in *WUURD: Washington University Undergraduate Research Digest*.

Henry Biggs, associate dean in Arts & Sciences and director of the office, says, "We see the symposium and the digest as great ways for students who are interested in graduate or professional school—or the work force—to show what they've been working on."



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Study of Childhood Takes Center Stage

The Very Hungry Caterpillar (Penguin Books, 1994), a children's picture book by Eric Carle, is an example of inclusions in a book titled *100 Best Books for Children* (Houghton

Mifflin, 2004) by Anita Silvey, a children's literature expert who spoke recently at the University. Her book is a resource in choosing ideal books for children.

In addition, at the event, sponsored by the Center for the Humanities in Arts & Sciences, Gerald L. Early, the Merle Kling Professor of Modern Letters and director of the Center, discussed the new children's studies minor being offered through the Center beginning with the spring 2006 semester.

The minor will afford the study of childhood as a cultural, scientific, historical, aesthetic, and theoretical construct.

Problems in Prisons: Focus of Events at Law School

To shed more light on many problems facing the 2.2 million people incarcerated in the United States on any given day and the 750,000 people working in correctional facilities, the School of Law hosted three events at Anheuser-Busch Hall in fall 2005.

The central event was a public hearing of the Commission on Safety and Abuse in America's Prisons. The hearing focused on corrections officers—a vast, yet poorly understood work force that shoulders tremendous responsibilities, often without adequate leadership, training, or resources.

Witnesses testifying at the hearing, including officers, administrators, labor leaders, and former prisoners, described conditions that jeopardize the health and safety of both officers and prisoners. Those conditions range from understaffing and compulsory overtime to inadequate training in the use of force. This was the commission's third hearing in a yearlong national effort to explore the most serious problems behind bars in America today and how to solve them.

On the day prior to the hearing, the law school hosted a panel discussion on "Problems and Solutions in American Criminal Justice."

The panel, moderated by Margo Schlanger, professor of law and member of the commission, featured three other members of the commission: Richard Dudley, a New York-based forensic psychiatrist; Saul Green, former U.S. attorney for the Eastern District of Michigan and court-appointed monitor of the Cincinnati Police Department; and Gary Maynard, president-elect of the American Correctional Association and director of

Male Mice Sing Mating Songs

Male lab mice have joined the ranks of songbirds, whales, and some insects in having their vocalizations in the presence of female lab mice or their pheromones finally recognized as songs.

While scientists have known for decades that male lab mice make ultrasonic mating sounds, research by Timothy E. Holy, assistant professor of neurobiology, and co-author Zhongsheng Guo, a programmer in Holy's lab, has proved for the first time that these sounds meet the two basic criteria for a song: distinct categories of sound, as well as motifs and themes that recur from time to time as Holy says, "like the melodic hook in a catchy tune."



Terry Holcomb, graduate student, and Tim Holy

the Iowa Department of Corrections.

After the close of the hearing, Steven B. Bright, commission member and director of the Southern Center for Human Rights in Atlanta, gave a talk titled "Crime, Prison, and the Death Penalty: The Influence of Race and Poverty."

All three events were free of charge and open to the public.



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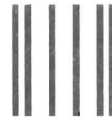
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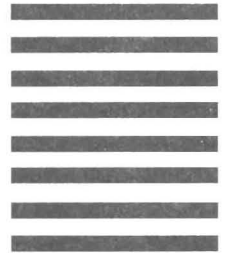
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Recognizing the Importance of Planned Gifts
Washington University in St. Louis



Students Deliver Sustenance

by Terri Nappier

On the Sunday after Thanksgiving 2005, students returned to campus in droves. Relaxed and satiated from a long weekend spent visiting hometown family and friends and eating turkey, dressing, and pumpkin pie, these students gathered, as usual, in residential houses and apartments nearby to share with University friends the events of their break. They also prepared themselves to tackle the last few weeks of classes and to focus on end-of-semester finals. They did what college students are expected to do.

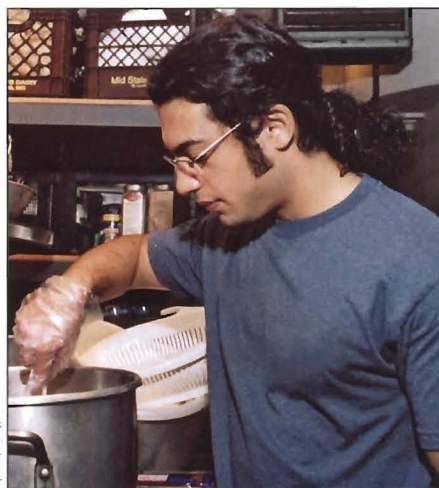
But some also did the unexpected.

Juniors Katie Schwarz and Wendy Jenkins, along with freshman Jay Werber, as part of STONE Soup, delivered food that Sunday evening to homeless people in downtown St. Louis. While on the streets, Schwarz, a chemistry major, met Rita, a 20-year-old with two children and one on the way, who was worried about her 12-year-old sister becoming interested in boys and smoking pot. Schwarz also met Gerard, a very nice older man who just wanted someone to talk

to, and Tommie, who was polite but quiet. Tommie has only one arm, and Schwarz heard from another that he's writing a book. At St. Peter & Paul Shelter, she talked with an unemployed piano tuner, who laughed at her for being a liberal, and who showed her his poetry. (On a prior evening, Schwarz met an unemployed hair stylist, who is having trouble finding an apartment and a job, and she played cards and dominoes with others, hearing stories of the penitentiary.)

On these nights, Schwarz is a far cry from her Clayton apartment, lessons in physical chemistry, and Tallahassee home. But she says performing community service keeps her balanced—and she cares deeply about the plight of the homeless in her adopted city. And she is not alone.

Right: Joshua Marshack, Arts & Sciences Class of '07, is a member of STONE Soup. Below (from left): Sophomores Jing Geng, Arts & Sciences Class of '08, Daniel Cohen, Engineering Class of '08, and Margaret Mann, Arts & Sciences Class of '08, deliver food to area shelters as part of Feed St. Louis.



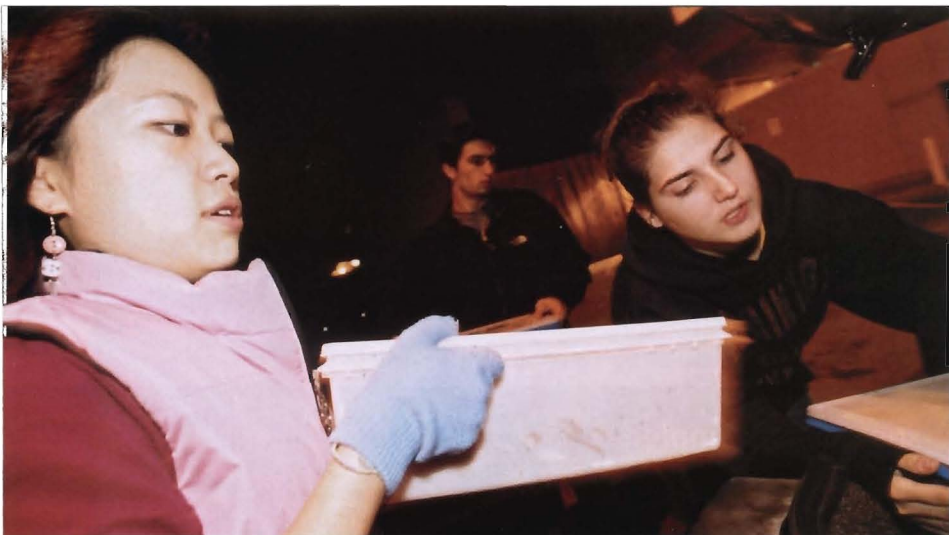
Kevin Lowder

At the University, students in two groups—STONE (Students Together Offering Nourishment and Enrichment) Soup and Feed St. Louis—dedicate themselves to feeding the homeless.

Members of STONE Soup provide sandwiches, pasta, soup, and popcorn on Sunday evenings, passing out food in downtown's Lucas Park and giving meals to St. Peter & Paul Shelter. One group of students prepares meals in the afternoon at the Catholic Student Center, and another delivers them, along with bread and pastries donated by the St. Louis Bread Company. The Catholic Student Center rents its van to the students to use for deliveries.

"One of the challenges is making sure STONE Soup fits in with what other organizations in the community are doing ... to make sure we stay in our place," says Schwarz, STONE Soup's president. "Some of the area shelters don't serve meals on Sunday nights, so the group's founders 10 years ago thought STONE Soup could fill this need."

Monday through Friday, members of another student group, Feed St. Louis, gather the leftover food from the Center Court in Wohl Student Center and take it to area shelters. Four shelters—Our Lady's Inn, St. Peter & Paul Shelter, Salvation Army: Community in Partnership, and Salvation Army: Family Haven—are currently on the rotation.



Kevin Lowder

"We buy little blue tubs from Bob's Seafood, and we give them to Center Court. Each night, the cooks put all the leftover food into these pans, and that's what we use to transport the food to the homeless shelters," says Margaret

Mann, a sophomore international and area studies major with an emphasis in Japanese, and president of Feed St. Louis.

Each night three student volunteers make the delivery, and each volunteer works only one night a week every other week.

"We try to make it as easy as possible to get people involved," says Mann, "and although I am spending a lot of time doing this, I know that I am helping other students do something in their spare time to help other people."

STONE Soup was founded 10 years ago by Kelly Garrity, M.S.W. '01, M.B.A. '02, who was then social action director of the Newman Center; Hillel Rabbi Lynn Goldstein, who is a graduate student at the George Warren Brown School of Social Work; and David Pollio, associate professor of social work. Over the years, Ed Macias, executive vice chancellor and dean of Arts & Sciences, and his wife, Tedi, have been avid supporters of the group and have served as advisers.

"The founders' mission was to promote student activism as a way to humanize poverty and to promote lifelong community activism," says Pollio. "The students' mission was to address the important issue of hunger in St. Louis."

STONE Soup's board includes a president, who oversees the entire operation; a treasurer, who handles all Student Union budget requests and money matters; a food coordinator, who makes sure food supplies are ample at Hillel, where the food is stored, or, if not, leads a food drive to replenish supplies; a volunteer coordinator, who is responsible for making the schedule and contacting the student volunteers; and a special events coordinator.

In November 2005, the special events group held a sock-and-underwear drive on campus, collecting hundreds of socks, underwear, gloves, and scarves to pass out on the streets with the Sunday meals.

Feed St. Louis was formed in 2001 by then-sophomore Arash Sabet, who wondered what happened each night to

Kevin Lowder

Katie Schwarz (left), president of STONE Soup, and Laila Dantas, both Arts & Sciences Class of '07, gather the hundreds of pairs of socks, gloves, and underwear donated during STONE Soup's first campus-wide sock-and-underwear drive in November 2005. The garments were to be distributed during the group's Sunday food deliveries.

"I never realized how difficult it is for some people to just get through, or to find a place to sleep at night," says sophomore Margaret Mann, president of Feed St. Louis.


all the leftover food at Center Court. After finding out that the leftovers were thrown out, Sabet, who will receive a bachelor's/master's degree in mechanical engineering in May 2006, decided to form a student organization. Starting out with one delivery one night a week, the group now delivers to shelters five nights a week.

Feed St. Louis consists of a president, vice president, treasurer, vice treasurer, expansion chair, and 30+ volunteers who make the deliveries.

"A lot more students are interested, but we only have 30 slots to work with at this time," says Mann. "We are working on expanding though. We're talking with a couple of businesses in St. Louis about picking up their leftovers. Depending on what happens, we might try to take on more shelters."

Thousands of men, women, and children in St. Louis are homeless at any given time. Schwarz, Jenkins, Weber, and Mann, along with numerous other Washington University students, volunteer to help make a difference in their lives.

"I never realized how difficult it is for some people to just get through, or to find a place to sleep at night," says Mann. "I've always had a pretty easy life. My parents are wonderful; they're sending me to this school."

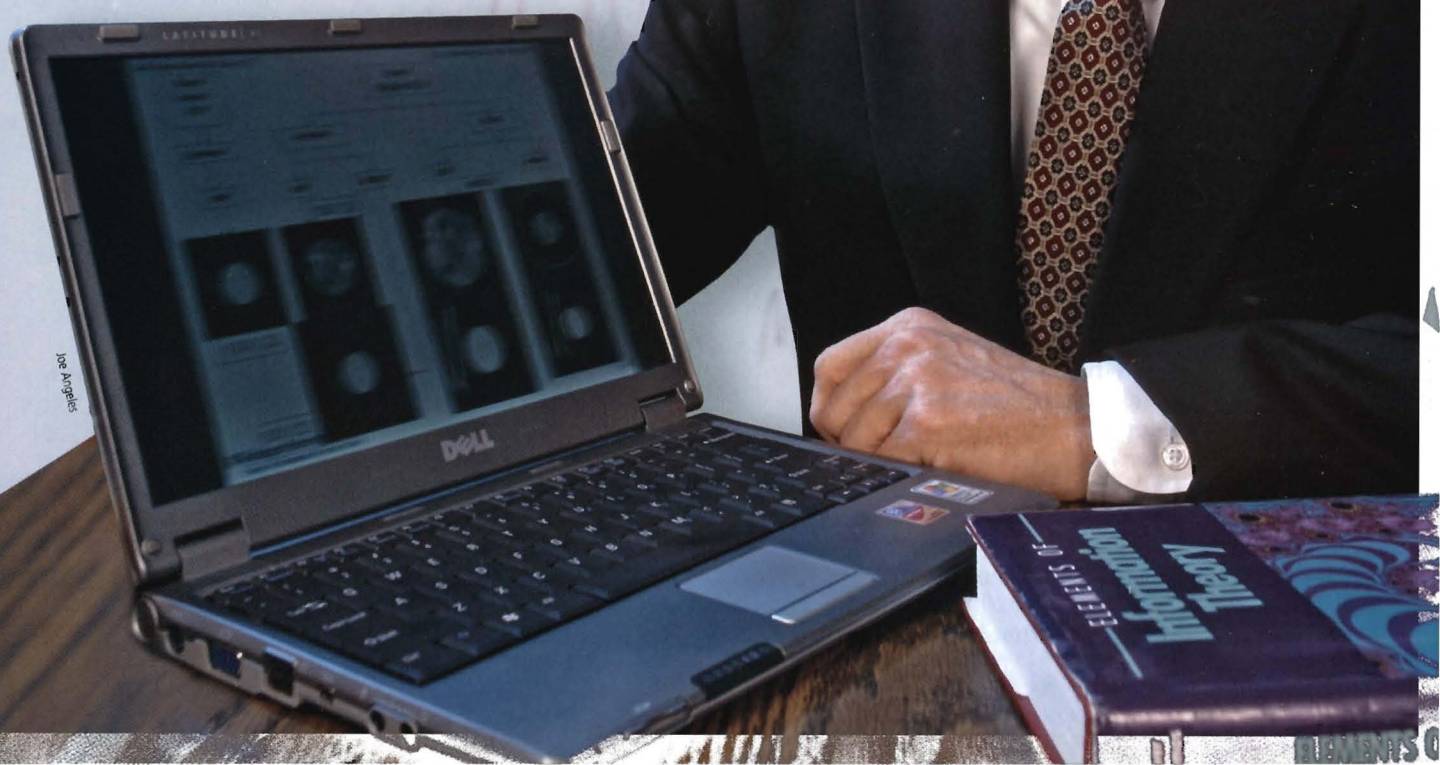
Washington University students demonstrate that learning comes in many forms; along with their academic pursuits, they make community service a priority. 

Terri Nappier is the editor of this magazine.

(Names of the homeless individuals were changed to protect their privacy.)

Engineering Professor Jody O'Sullivan builds on information theory for important uses in both the medical and military arenas—from detecting breast cancer via imaging, to identifying camouflaged vehicles from satellites.

Joseph O'Sullivan is the Samuel C. Sachs Professor of Electrical Engineering; he also holds a biomedical engineering professorship in the engineering school and a radiology associate professorship in the medical school.



Recognizing a Theory and Its Application

BY RICK SKWIOT

On the fourth floor of a building hidden on the north side of campus, across the hall from the secretive-sounding Center for Security Technologies, sits the paper-strewn office of a hunter whose targets are tumors and terrorists. His weapons: information theory, applied math and science, computers, and a wide-ranging mind. His name: Joseph A. "Jody" O'Sullivan, the Samuel C. Sachs Professor of Electrical Engineering and director of the Electronic Systems and Signals Research Laboratory.

The recognition theory and applied imaging science that O'Sullivan develops can be used to locate a tank positioned under a tree via satellite or find cancer lurking in a human brain or breast. The underlying information theory he formulates can help guide an artillery shell or a scalpel. That's why, in addition to his electrical engineering professorship, he holds a biomedical engineering professorship in the School of Engineering & Applied Science and a radiology associate professorship in the School of Medicine.

"My work is different," says O'Sullivan, "because I develop theory then applications. Often others don't see how my theory applies, so I have to be involved. If I don't see the applications, sometimes no one will."

His work in the field of recognition, for example, which has dealt in part with pattern recognition, demonstrates his theory-and-application approach.

"In recognition—whether biometrics, recognizing cars or individual faces, or doing brain scans—it all comes from common theory," says O'Sullivan. "And the various applications send us back to the theory to improve on it."

Much of O'Sullivan's foundational work lies in the areas of information theory and information-theoretic imaging.

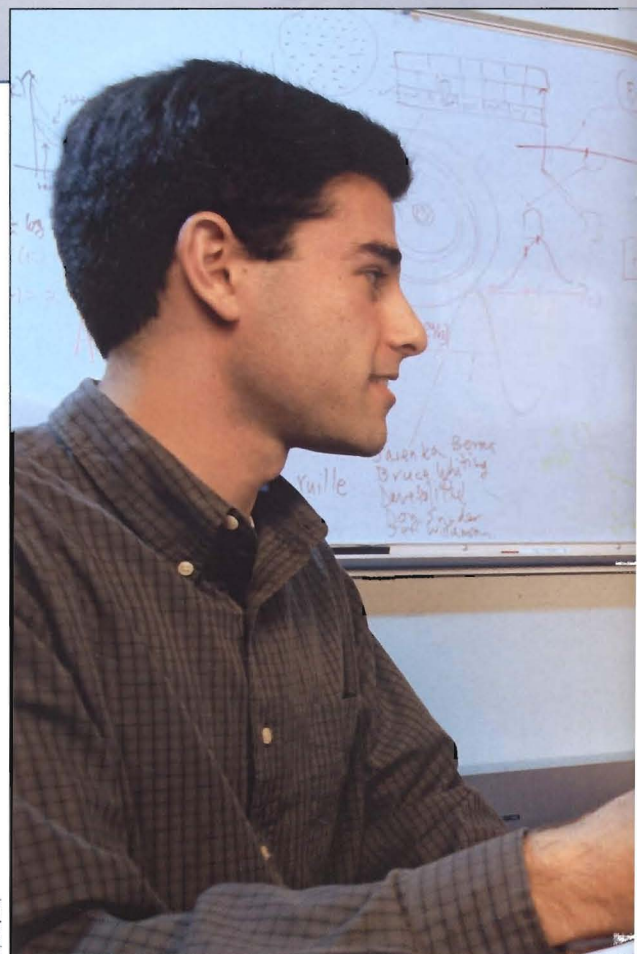
"Information theory underlies the design and analysis of systems that transmit, store, and process information," O'Sullivan explains. "It provides bounds and answers what is possible."

But those bounds may soon be expanding, thanks to work he is immersed in.

Until now information theory has been focused largely on one-dimensional information, says O'Sullivan. That is, information moving along a channel, such as a wire carrying data in and out of a computer. Now, however, he's developing information theory in two-dimensions and three-dimensions. Instead of moving information merely along a wire, his theory suggests how it might be transmitted and stored on a surface or within a volume—which points to a tremendous potential increase in future information management capability.

But what he's already developed today stretches our reach in both medical and military areas, and others as well.

"Jody's very effective interacting with others, a must in multidisciplinary research," says [Professor Donald] Snyder, "and with training and developing students vital to our research. He's very conscientious about bringing new ideas to his students, constantly evolving the classes he teaches ..."



Joe Angeles

A medical heritage

O'Sullivan's father and grandfathers—all three physicians—urged him to enter medicine, but his love of math steered him toward electrical engineering. Ironically, some of his most significant contributions come in the medical field, and their impact on human health may outstrip whatever he might have accomplished as a doctor.

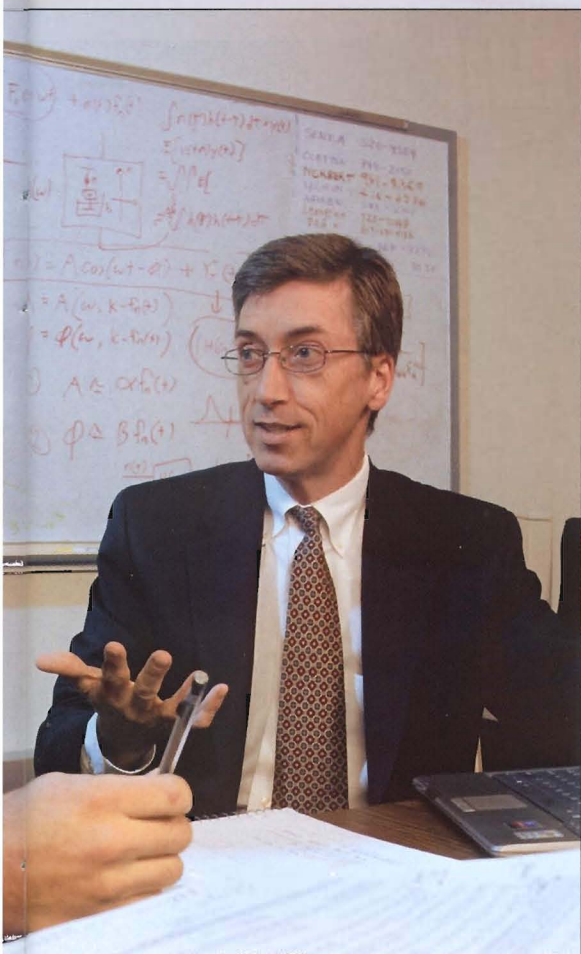
Right now O'Sullivan and fellow researchers have three grants pending with the National Institutes of Health: for hyperspectral imaging of the brain's surface to extract information about brain function and guide surgery (with Thomas A. Woolsey, primary investigator, professor of experimental neurological surgery and of anatomy and neurobiology at Washington University); PET-CT X-ray imaging for breast cancer detection (with Martin Tornai, primary investigator, associate professor of radiology and biomedical engineering at Duke University Medical Center; and Yuan-Chuan Tai, primary investigator, assistant professor of radiology at Washington University); and optical fluorescence imaging to tag molecules and study metabolic processes (with Joseph Culver, primary investigator, assistant professor of radiology at Washington University).

Hyperspectral imaging uses a computer to analyze optical images across a greatly expanded color spectrum and to detect minute functional differences in given areas. "The goal is to recognize activity," says O'Sullivan, "to know what different parts of the brain are doing, so you know what you want to cut. I don't work on where to cut but in recognizing activity."

One of his collaborators, Thomas A. Woolsey, the George H. and Ethel R. Bishop Scholar in Neuroscience, says that O'Sullivan's knowledge of image recognition in geological settings, such as identifying camouflaged vehicles from satellite images, could help doctors find their targets on biological terrain.

"Biology changes much faster than geology, so we must speed the image processing up," says Woolsey. "Jody's good at translating that knowledge and using math to analyze images that tell you important things about the components. I'm optimistic that this approach will work well in lots of settings."

Woolsey said image recognition might be used to tell if the blood supply to a particular area has diminished in real time, diagnose skin conditions such as melanoma, or even recognize the presence of foreign substances on the skin—such as explosives.



Professor Jody O'Sullivan (right) works with Dan Keesing, a second-year doctoral student in biomedical engineering, on Keesing's doctoral research in medical imaging.

Increased security work post-9/11

Ever since the September 11, 2001, terrorist attacks in New York City and Washington, D.C., a significant part of O'Sullivan's work has aimed at security issues, to recognize not only military targets but also devise ways of recognizing individuals.

As associate director of the Center for Security Technologies, he works closely with the Center's director, Ronald S. Indeck, the Das Family Distinguished Professor of Electrical Engineering, and the Center's assistant director, Robert Pless, assistant professor of computer science and engineering, to encourage, organize, and provide opportunities for research on security problems. The Center supports 40 interdisciplinary collaborators who address fundamental scientific and engineering questions in the design of advanced security systems.

Further, he's conducting his own research, with his collaborators, not only in spectral analysis for biochemical agent detection, as Woolsey suggests, but also in biometrics, or the statistical analysis of biological data and the recognition, for example, of human fingerprints, faces, and irises.

But all those existing technologies can be compromised, says O'Sullivan, with disguises, contact lenses, or micro-fabrication technology.

So O'Sullivan is seeking alternatives. "We're exploring the use of other biometric signals that are unique to the individual, measurable, persistent, difficult to replicate, and," says O'Sullivan, "that definitely demonstrate a particular person's presence."

His solution? One that might give the phrase "take your pulse" a whole new meaning.

"We're looking at heart pulses and pulse shape," says O'Sullivan, trying to find a way to quantify a biological indicator that may be even more difficult to fake than fingerprints.

Creative problem solving

That sort of creative problem solving is indicative of O'Sullivan's work, according to colleague Donald L. Snyder, senior professor of electrical and systems engineering.

"He tackles problems in fundamental ways, using math and physics to develop new approaches in a systematic manner," says Snyder. "He's made a fundamental contribution to the understanding of steganography," the science of hiding extra information inside pictures and sounds for secure, clandestine communication.

O'Sullivan devised a theory that sets the limits for the amount of data that can be hidden in a system and provides guidelines on how an adversary might disrupt the hidden information. It has implications not only for copyright protection but also for national security.

"I worked with Pierre Moulin of the University of Illinois on embedding information in digital data sets on video," says O'Sullivan. "We approached it as a game, the embedder versus the attacker, without assuming that we were smarter than our adversary. Our work has changed the way people approach and define the problem."

Much of O'Sullivan's work is collaborative, and much of his success can be attributed not only to his math and science skills but also to his people skills, says Snyder.


"Jody's very effective interacting with others, a must in multidisciplinary research," says Snyder, "and with training and developing students vital to our research. He's very conscientious about bringing new ideas to his students, constantly evolving the classes he teaches with exciting new developments."

Those collaboration and communication skills led to O'Sullivan's serving as chair of the Faculty Senate during the 2002–04 academic years and as secretary from 1995–98.

Given all his faculty positions, research interests, teaching, and service to the University, it would seem he'd have little time for much else. But his extracurricular interests are evident in his office, with photos of the five sons he is raising with his wife, Chris, and his basketball trophies.

While continuing to play basketball regularly, O'Sullivan has taken up another athletic challenge: marathon running.

"It's like research," says O'Sullivan. "You have a long-range goal and a plan. You build on previous results and ultimately successfully finish the job."

And as to what that next research challenge is for him, time will tell. Says O'Sullivan: "I get interested in something new each year." 

Rick Skwiot is a free-lance writer based in St. Louis.



Philosopher Explores Autonomy as Self-Determination

BY KRISTIN TENNANT

Professor Marilyn Friedman reflects on the big questions regarding female autonomy, and she recognizes that the answers have the potential to make a positive impact on many social and political problems.

The two words most closely associated with philosopher Marilyn Friedman's work are "feminism" and "autonomy." But the images that perhaps best illustrate her approach carry a different tone: bridges and community, not islands and stoic self-reliance.

Friedman, who is professor of philosophy in Arts & Sciences and the author of *Autonomy, Gender, Politics*, is adept at connecting numerous shores, such as academic pursuits and real-world issues; feminist thought and mainstream approaches; autonomy and community; and old and new ways of thinking.

She wasn't always out in front, pushing at the edges of the day's important issues. Growing up in Chicago as the only child of Eastern European Jewish immigrants, she was an avid fiction reader who also loved math. In 1964, while Friedman was taking a year off from college, she was awakened from what she calls "a kind of political ignorance and apathy" by the political turmoils of the day. She decided to study political science, finishing her undergraduate degree at Washington University in 1967 before earning a Ph.D. in philosophy from the University of Western Ontario in 1974.

"Autonomy" became her primary scholarly focus in the mid-1980s and has since continued to captivate her interest in many variations around the theme, including autonomy and gender hierarchy, autonomy and social disruption, autonomy and emotion, romantic love and personal autonomy, and autonomy and social relationships.

"Many feminists thought that the moral ideal of autonomy represented male but not female modes of moral reasoning," Friedman says. "Most people saw autonomy as a separation of self from loved ones—a kind of selfishness. I see it in terms of self-determination, and I didn't think it had to carry specifically masculine associations."

Friedman's understanding of autonomy centers on people living their own lives in accord with their own ideals, rather than living according to someone else's values. She spent much of her time in the 1990s and early 2000s responding to feminists who criticized the concept, showing how her self-determinist approach was congenial to feminist ideals. At the same time, other feminist thinkers began suggesting that autonomy could be reconstructed to take account of its social context, another theme that Friedman says "seemed exactly right."

"Autonomy has to be understood as embedded in social relationships," Friedman says. "It's about self-determination—living a life that reflects your values and wants and needs. The sources of self-determination include socially available options and socialization that enables us to be self-reflective

In her course Present Moral Problems, Professor Marilyn Friedman covers numerous everyday ethical dilemmas, ranging from abortion and euthanasia to gender roles and race relations.

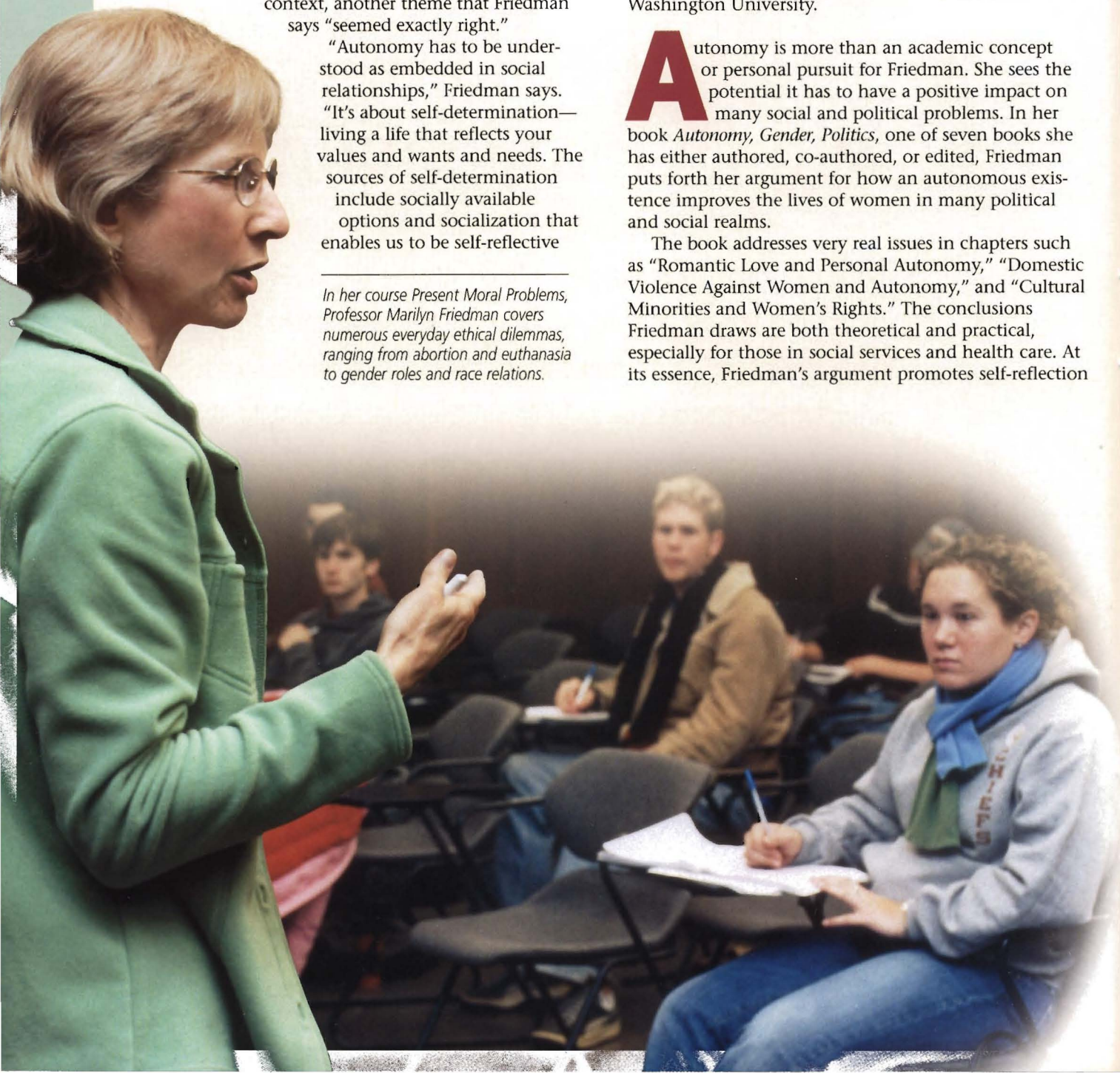
about what matters most to us. If that means being in a committed relationship, or having children, it is still autonomy."

Friedman, whose own daughter is 17 and whose husband is also a professor at Washington University, has demonstrated through her life how following your own dream—doing things "your way"—doesn't have to rule out being part of a family or community. In her early forties, at a time when she had a tenure-track teaching position at another university, she left it in order to have a child and move to the town where her husband was teaching—so they would not have to commute with a young family.

"This wasn't about giving up a dream of mine," she says, "it was all about living out the life I wanted." Later, Friedman was happily hired and tenured at Washington University.

Autonomy is more than an academic concept or personal pursuit for Friedman. She sees the potential it has to have a positive impact on many social and political problems. In her book *Autonomy, Gender, Politics*, one of seven books she has either authored, co-authored, or edited, Friedman puts forth her argument for how an autonomous existence improves the lives of women in many political and social realms.

The book addresses very real issues in chapters such as "Romantic Love and Personal Autonomy," "Domestic Violence Against Women and Autonomy," and "Cultural Minorities and Women's Rights." The conclusions Friedman draws are both theoretical and practical, especially for those in social services and health care. At its essence, Friedman's argument promotes self-reflection



"Critical reflection and open creative thinking are at the very core of a liberal education," Friedman says. "Those of us ... committed ... to exploring ideas and issues also believe that it is our best hope for finding solutions to the moral problems we face."

and critical assessment of cultural practices but also respect for the perspective of others, especially women.

"We need to change social institutions and practices so that women have a greater variety of opportunities to live fulfilling lives," Friedman says. "But we should base those changes mainly on women's perspectives on how their lives should be lived. Our culture needs to value autonomy for women, not just for men. If we followed these guidelines from a political standpoint, we would enlarge and diversify women's social integration and improve the ways in which we socialize girls in our society."

Friedman's most recent research has shifted focus slightly. In one current project, she analyzes some of the work of Princeton University's Philip Pettit, who promotes what he calls "non-domination" as an important political value in democratic societies. Friedman is examining such questions as what it means to be dominated, whether a political system should secure its people against all domination, and, especially, whether male domination is different from domination in general. Friedman plans to connect this new set of issues with the work she began in her book chapter about women and cultural minorities.

"What should we do when the traditions of cultural minorities in liberal democratic societies appear to be violating women's rights?" Friedman asks. "How do we weigh the rights of cultural minorities against the rights of women within those minorities? These questions hint at how we are in the process of what I like to call a 'globalization of morality,' an emerging and progressive global dialogue about morality among people with diverse cultural and moral perspectives."

In the midst of her rigorous scholarship, Friedman's role as a teacher and mentor has also flourished. Sophie Fortin, a philosophy graduate student and one of Friedman's advisees, says her adviser has inspired her "without question." Fortin plans to write a dissertation addressing the political recognition of different cultural identities.

"I'm interested in looking at how a political system can legitimately accommodate the needs of different cultural groups, while also upholding its commitment to general rights and liberties, especially with regard to women's rights," Fortin says. "Marilyn's style is inspiring because she's very theoretically analytical and respected for that, but she also focuses on relevant practical issues, which adds great depth to her ideas. She excels at asking theoretical questions that have genuine political import."

Chair of Washington University's philosophy department, Mark Rollins, agrees, pointing to Friedman's ability to bridge real-world issues and philosophical theory.

"People often see philosophy as remote from their interests," Rollins says. "It's often hard to see how it connects with everyday concerns. However, Marilyn's work on friendship, citizenship, community, gender, and politics brings philosophy to bear on matters that affect everyone. She gives the issues a grounding in careful analysis, which is the hallmark of the discipline, without ignoring the social contexts in which the issues arise. In this way, she has done a lot to link traditional approaches to epistemology and ethics with feminist philosophy."

Rollins adds that Friedman also makes an impact through teaching and in her role as director of undergraduate studies.

"As both a person and a philosopher, Marilyn is very thoughtful," Rollins says. "This makes her a solid scholar and a valued colleague. She's also one of our best teachers, who has a big impact on our students. Marilyn promotes the relevance of philosophy in a way that encourages students to think critically."

Part of what appeals to students, perhaps, is the personal, probing, and relevant nature of Friedman's topics and teaching style. In her course *Present Moral Problems*, Friedman covers numerous everyday ethical dilemmas, ranging from abortion and euthanasia to gender roles and race relations. Encouraging students to examine their moral intuitions is at the heart of the process, whether they are examining the position of an assigned author or taking a direct stand of their own.

"Critical reflection and open creative thinking are at the very core of a liberal education," Friedman says. "Those of us who are committed to this approach to exploring ideas and issues also believe that it is our best hope for finding solutions to the moral problems we face."

Friedman hopes her students take many practical, lifelong tools away from her courses, including familiarity with new viewpoints, improved critical and creative skills, and a sense of the importance of moral and political issues in their lives. While philosophy is an excellent foundation for law school or any career that highly values critical thinking and analysis, Friedman points out there is much more to studying philosophy than building a specific career.

"Philosophy makes a profound contribution to living a life," she says. "Philosophy encourages people to ask the big questions about human life and our world that cannot be answered by experiments or statistical data. To fail to reflect on these aspects of human existence is to miss out on an endlessly challenging life adventure."

Kristin Tennant is a free-lance writer based in Urbana, Illinois.

A Center Called Hope

Washington University has teamed up with Hope Happens to create the Hope Center for Neurological Disorders, a center whose members believe that fundamental discoveries in one disease can lead to treatments in many others.



Courtesy of Hope Happens

The late Christopher Wells Hobler (pictured above with his mother, Jean Hobler) was the inspiration behind Hope Happens, which in 2004 teamed with the University's School of Medicine to create the Hope Center for Neurological Disorders, a basic science research center dedicated to finding the causes and cures for debilitating nervous system diseases.

The late singer-songwriter Christopher Wells Hobler was diagnosed with amyotrophic lateral sclerosis (ALS) in 2001 at the age of 35. He knew all about the fatal neurodegenerative disorder, having watched his grandfather, James A. Maritz, Sr., struggle with it. People with ALS slowly lose muscle control, and in the later stages of the disease, they are totally paralyzed and unable to speak or breathe on their own. Hobler was angered by his fate; he knew there had been no cures or treatments developed for the disease in 30 years.

Wanting to take action, he considered starting his own research center. Instead, in 2002, Hobler, a father of three, founded ALS Hope—The Chris Hobler/James Maritz Foundation. The Foundation's goal is to quickly find a cure for ALS patients by funding innovative research and inspiring scientific collaboration.

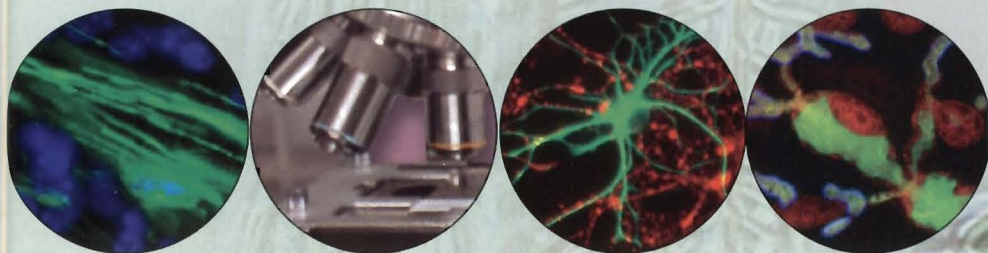
Two years later, ALS Hope, now renamed Hope Happens, teamed with the Washington University School of Medicine to open the Hope Center for Neurological Disorders, a basic science research center dedicated to finding the causes and cures for debilitating nervous system diseases such as ALS, Alzheimer's disease, and multiple sclerosis (MS).

"For some time we have wanted a central place at the University for translational research aimed at neurological diseases," says Mark P. Goldberg, director of the Hope Center and a professor of neurology and of anatomy and neurobiology. "When the Hobler family came to us, we saw an opportunity to create something broader than a few labs located in the Department of Neurology. We wanted to make the Center interdepartmental and to expand the scope."

The Hope Center brings together 48 scientists and clinicians whose expertise spans 12 departments on the Medical and Hilltop campuses. Focusing on neurodegeneration, which occurs when brain cells and their

... for Those with ALS, Alzheimer's, MS, and Such

By Diane Duke Williams



connections are damaged by disease or injury, the members believe that fundamental discoveries in one disease can lead to cures and treatments in many others.

Diseases of the nervous system—made up of the brain, spinal cord, and peripheral nerves—are the most common causes of disability for people of all ages; 50 million Americans have a permanent neurological disability that limits their abilities. Despite the devastating personal loss these diseases cause, many have no effective treatments.

Until disease cures are found, the Hope Center will continue to seek treatments that can offer meaningful improvements to neurological abilities and quality of life. Treatment forms may include behavioral, drug, and gene therapies.

"The Hope Center represents the cutting edge of collaborative medical research today," says Jean Hobler, Chris' mother. "Exploring the new frontier of the mind is enabling scientists to unravel the mysteries of many devastating neurological disorders. This is a realized dream of my son, Christopher, and of my entire family."

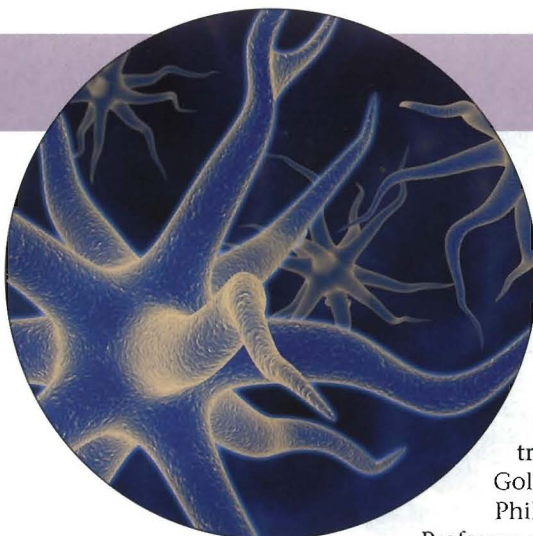
Building a 'field of dreams'

The Hope Center builds upon a research structure established in 1991 by Dennis W. Choi, former head of the School of Medicine's Department of Neurology. Choi recognized that the basis of nervous system injury and repair is shared by many different neurological diseases.

The Hope Center's goals are to fund research projects that are too timely to wait for federal grant funding, which can take two years, and to purchase costly, shared equipment and advanced instrumentation. The Center also is establishing core facilities to enhance scientists' ability to discover and compete for National Institutes of Health funding.

"The analogy that we use is from the movie *Field of Dreams*—if you build it, they will come," Goldberg says. "Most scientists here who have discovered a new gene or protein don't have the expertise or the funding to investigate it using animal models. So a big part of what we are





doing is to try to create the animal models and the tools that they'll need to make these advances."

Before the Hope Center was established, many scientists made discoveries they thought might improve treatments, but they never had the ability to test them directly. Translating findings to treatments is a long, time-consuming process, Goldberg says.

Philip V. Bayly, the Lilyan and E. Lisle Hughes Professor of Mechanical Engineering and professor of biomedical engineering in the School of Engineering & Applied Science, studies how the brain moves inside the head during an impact, such as in a car wreck or accidental fall. He has developed a technique using MRI that provides the first measurement of the actual strain on brain tissue upon impact. The information is vital to other scientists.

Goldberg's laboratory, which focuses on stroke recovery, studies brain damage after injury and assesses subsequent animal behavior. He said Bayly's expertise has helped scientists in his laboratory studying spinal cord injury or traumatic brain injury develop more advanced mouse models. "Bayly's expertise—knowing the precise impact that causes trauma in mouse brains—has helped other scientists at the University conduct their research better than before," Goldberg says.

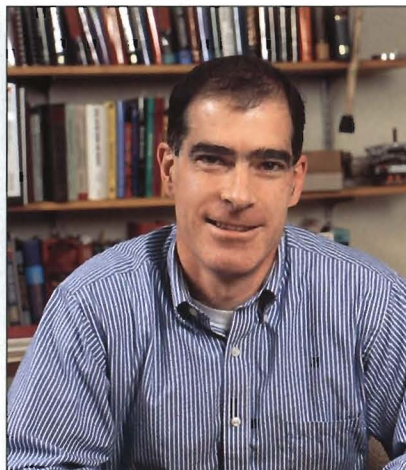
Bayly sees himself as the "engineering foothold" in the Hope Center. "I can help foster interconnections between the Hope Center and the School of Engineering & Applied Science," he says. "I'm also someone who is willing to find, use, and develop engineering approaches that are common to all neurological disorders."

Joe Angiles



Mark P. Goldberg, professor of neurology and of anatomy and neurobiology, is director of the Hope Center. His laboratory focuses on stroke recovery; researchers are particularly interested in keeping neurons alive after stroke.

Joe Angiles



Philip V. Bayly, the Lilyan and E. Lisle Hughes Professor of Mechanical Engineering and professor of biomedical engineering, studies how the brain moves inside the head during impact and the subsequent strain on brain tissue.

Joe Angiles



David M. Holtzman, the Andrew B. and Gretchen P. Jones Professor of Neurology and head of the neurology department, studies the metabolism of amyloid beta in Alzheimer's disease.

The Hope Center's goals are to fund research projects that are too timely to wait for federal grant funding, which can take two years, and to purchase costly, shared equipment and advanced instrumentation.

The search for biomarkers

A key aspect in the development of Alzheimer's disease is the formation of structures called plaques in the brain. Studies have suggested that these plaques form when the protein amyloid beta is converted from a soluble to an insoluble form and takes on a configuration of hair-shaped threads called fibrils. Unable to be cleared out of the brain, the fibrils eventually cluster together and become the amyloid plaques that are a hallmark of Alzheimer's.

David M. Holtzman, the Andrew B. and Gretchen P. Jones Professor of Neurology and head of the Department of Neurology, studies the metabolism of amyloid beta to try to determine what controls the production and clearance of the protein and how to prevent its buildup in the brain. Scientists believe the buildup of the protein starts 10 to 15 years before disease symptoms appear.

"Determining if the brain's metabolism of amyloid beta becomes altered during the course of the disease could be used as a way to diagnose when the disease is starting," Holtzman says. "We think developing antecedent biomarkers for Alzheimer's is very important. It would be analogous to knowing if a patient is building up cholesterol in coronary arteries and, if so, starting a drug treatment before he or she has a heart attack or stroke."

Holtzman also is studying antibodies that his lab has demonstrated prevent the toxicity or increase the removal of amyloid beta from the brain. Clinical trials now are being conducted on antibodies, such as these, in humans.

Additionally, in Holtzman's laboratory, Randy Bateman, assistant professor of neurology, has developed a new technique that can measure the rates of synthesis and clearance of proteins in the central nervous system. This could be useful for discovering new biomarkers for neurodegenerative diseases.

Clues in the nervous system

Goldberg's laboratory studies how neurons stay connected to each other when they are damaged. He is particularly interested in keeping neurons alive after stroke and seeing if the regeneration of neurons can be promoted.

"Maintaining neuronal connections is very important in stroke, and in other brain diseases as well," Goldberg says. "One of the closest interactions is MS."

Most experts now believe that MS is an autoimmune disease that affects the central nervous system. The body's natural defense mechanisms somehow go awry and destroy myelin, a fat and protein

Joe Angeles



Anne Cross, professor of neurology and the Manny and Rosalyn Rosenthal and Dr. John L. Trotter MS Center Chair in Neuroimmunology at Barnes-Jewish Hospital, focuses on multiple sclerosis in her lab, studying axon degeneration and regeneration.

Joe Angeles




Jeffrey Milbrandt was named the David Clayton Professor of Neurology in 2005 to support his ALS research, particularly nerve growth factors and receptors that are important to the development of nerve cells and axons.

Joe Angeles



Mark S. Sands, associate professor of internal medicine and of genetics, studies lysosomal storage disorders—inherited metabolic diseases that can affect most organs in the body, including the central nervous system.



compound that is wrapped around the long fibers that sprout out of nerve cells. It is these fibers, or axons, that carry nerve signals. In people with MS, myelin is lost in multiple areas, and the nerve fiber itself is damaged or broken, disrupting the ability of the nerve to send and receive electrical impulses to and from the brain.

Anne Cross, professor of neurology, focuses on multiple sclerosis in her laboratory and studies axon degeneration and regeneration. In the past 10 years, Cross, also the Manny and Rosalyn Rosenthal and Dr. John L. Trotter MS Center Chair in Neuroimmunology at Barnes-Jewish Hospital, says researchers have demonstrated that the body sometimes naturally regenerates myelin that is damaged. She is trying to determine if the body also can regenerate axons.

"Many of us think that it is the failure of axons to regenerate that causes many people to get disabled and unable to recover," Cross says. "We're stepping back a bit, thinking about those who have longstanding disability and why they're not improving."

Using an imaging methodology developed by Sheng-Kwei Song, M.A. '89, Ph.D. '90, assistant professor of radiology, who is also a member of the Hope Center, Cross is studying living mice and trying to differentiate myelin and axon degeneration in a noninvasive way that could be used in people. "Identifying ways to preserve axons and neurons would have a wide-ranging potential for helping people," Cross says.

In patients with ALS, paralysis is caused by the gradual death of motor nerve cells, the nerve cells that control muscles. Researchers such as Jeffrey Milbrandt, the David Clayson Professor of Neurology, suspected in recent years that nerve cell die-off begins with the loss of axons and synapses, the areas where nerve cells meet.

Last year, Milbrandt's group showed that axons could be protected from degeneration by increasing the function of a pathway involving NAD, a molecule vital to cell metabolism, and Sirt1, a protein associated with longevity. This discovery provided a new set of targets for the development of ALS treatments.

"If this mechanism for delaying or preventing neuronal axonal degeneration after an injury proves to be something we can activate via genetic or pharmaceutical treatments, then we may be able to use it to delay or inhibit nerve cell death in neurodegenerative diseases," Milbrandt says.

In collaboration with neurology Professor Eugene Johnson's laboratory, the Milbrandt lab discovered a family of nerve growth factors and receptors that are important to the development of nerve cells and axons. These molecules may be useful for the treatment of many kinds of neurological disorders. One of them, a protein called Neurturin, is now being tested as a treatment for Parkinson's disease in a clinical trial partially sponsored by the Michael J. Fox Foundation for Parkinson's Research.

Future of gene therapy

Mark S. Sands, associate professor of internal medicine and of genetics, studies lysosomal storage disorders such as Batten disease and the mucopolysaccharidoses. In lysosomal storage disorders, which are inherited metabolic diseases, cellular material builds up in the cells due to a lack of enzymes that normally degrade these molecules. There are almost 50 of these disorders, and they affect most organs in the body, including the central nervous system.

In the past, gene therapy strategies for these diseases had limited success because the vectors, viruses that transfer a functional copy of the gene into the affected cell, weren't very efficient. Recently, Sands and his laboratory have used a number of new vectors that work much better.

"The adeno-associated virus shows considerable promise because it has the potential to provide a permanent source of deficient enzyme," Sands says. "We're also excited about the HIV-based vectors. These vectors have virtually all of the HIV genes deleted and are incapable of replicating once they infect a diseased cell."

Both pre-clinical animal studies and clinical trials using these vectors are in development. Sands, who's assisting in the development of a gene therapy core for the Hope Center along with B. Joy Snider, assistant professor of neurology, believes these techniques and delivery methods can one day be used for a large number of neurodegenerative diseases, including Parkinson's and ALS.

"I think the future of gene therapy looks very bright," Sands says.

Removing treatment barriers

Goldberg says the structure to translate basic science discoveries in animal models into treatments for people is already in place at the School of Medicine.

The Hope Center collaborates with human translational research groups and clinical disease groups such as the Stroke Center and the Alzheimer's Disease Research Center. Although many investigators in the Hope Center are physician-scientists who see patients, these groups provide researchers with additional clinical information.

The Hope Center also is teaching a graduate-level course, Neurobiology of Disease, which gives laboratory scientists a chance to learn about the diseases they're studying and meet patients. "Many of the graduate students working on Alzheimer's disease have never met someone with the disease," Goldberg says.

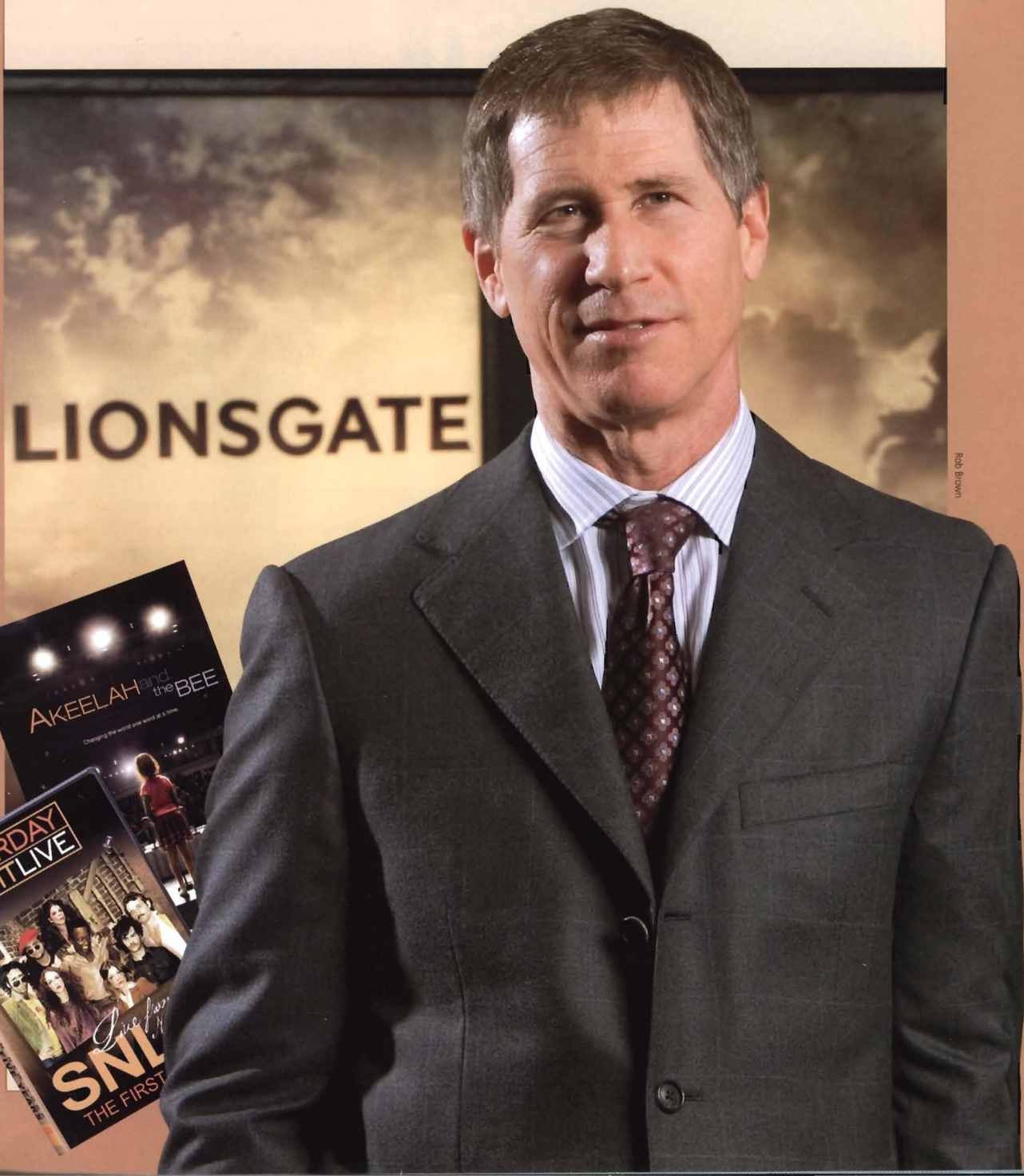
In the past, development of therapies for neurodegenerative diseases has been slowed by a lack of knowledge about the cellular and molecular causes of these disorders, Goldberg says. "But I think it's a promising time because we know so much more. The Hope Center can help by removing barriers to translational research, so that scientists who really want to find advances in treatment will have access to the expertise, facilities, collaboration, and, ultimately, the funding to make that possible." ■

Diane Duke Williams is a free-lance writer based in St. Louis.

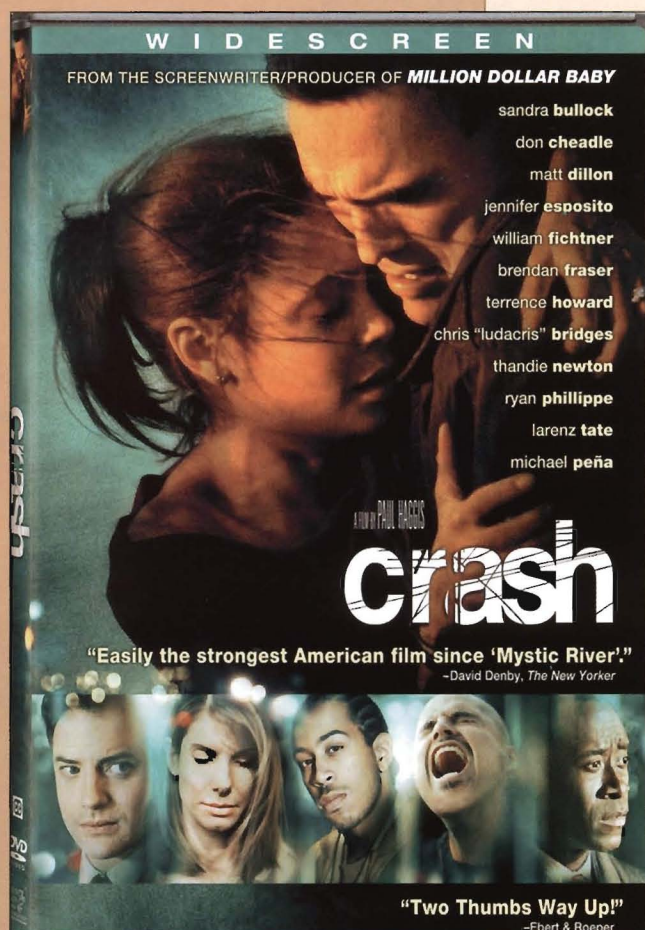
SEIZING THE LION'S SHARE

Leading the pride at Lionsgate is powerful strategist and entrepreneur Jon Feltheimer, the CEO whose agile indie studio is captivating audiences, critics, and shareholders.

By Judy H. Watts



Rob Brown



Moviegoers everywhere are discovering that when the word Lionsgate appears on screen, the film that unfolds will equal releases from the motion-picture mega-studios that tower and sprawl in the Los Angeles basin. Contributing to the ongoing national conversation have been such Lionsgate hits as *Fahrenheit 9/11*, the Academy Award-winning *Monster's Ball*, and the Oscar contender *Crash*, a scathing portrayal of race relations in post-9/11 L.A.

But not much else about the independent studio whose stock has soared over the last six years can be compared with the "majors." (Lionsgate is the largest production and distribution company that is not owned by any Hollywood studio.) Conspicuously absent from this indie enterprise are grandiose architecture, ostentatiously furnished quarter-acre offices, corporate jets and helicopters, and other artifacts of power. Even more notably, in its Santa Monica headquarters next door to L.A., not a mogul is to be found.

Instead, there is Jon Feltheimer. Quietly self-assured, calmly intense, this CEO looks like an actor devoid of pretense. He meets colleagues and visitors in a suite of two small and comfortable rooms; in one is a chess set fashioned from old automobile parts. (Feltheimer has a fierce chess rivalry with partner Michaels Burns, who is vice chairman of Lionsgate.) The other room is airy and modern, with family photographs and original Hirschfelds on the wall, a big-screen television tuned to CNBC when not being used to view movie trailers with his staff, and a white, marble-topped table—round, "to encourage collegiality."

Empowering employees

Fittingly, communication is central to Feltheimer's operating philosophy. The head of every major division has an office on his floor: Motion Pictures; Home Entertainment (DVDs, videotapes, or UMDs ranging from *Open Water* to *Saturday Night Live* to *Will and Grace*); Family Home Entertainment (*Barbie*; *Clifford the Big Red Dog*; *Care Bears*); Television, one of the company's fastest-growing businesses (*The Dead Zone*; *Missing*; *Weeds*; *Wildfire*); CinemaNow, broadband video-on-demand; and a new Documentary division (Werner Herzog's *Grizzly Man*; VH1's upcoming *The U.S. vs. John Lennon*; and Showtime's *The Third Terrorist*).

"We talk every day and have a meeting of division heads once a week," Feltheimer, who is also Lionsgate's co-chairman, says. "This [constant exchange] gives us the ability to react very quickly—to stay ahead of the curve and be very entrepreneurial. In a highly competitive business, this is one of our great strengths. By the time other studios say, 'Oh, my god, look: Lionsgate is doing this or that, so we've got to do that,' we've already made another shift!"

Against the backdrop of an industry infamous for bloated egos, vicious in-fighting, and rampant turnover, Feltheimer has created at Lionsgate a culture of respect and stability. "Every single employee has stock options," he says, "and



Top: Among Lionsgate's hit films is *Crash*, which takes a provocative, unflinching look at the complexities of racial tolerance in contemporary America. Above: *Will & Grace* Season 4 is one of Lionsgate's Home Entertainment division releases, as well as *Live from New York: SNL – The First Five Years* (previous page).

All images, except portrait of Jon Feltheimer, are courtesy of Lionsgate Publicity.

they care about the company. And because people who work for me are empowered to make decisions for which they are accountable, they have a reason to stay at Lionsgate instead of going to a larger studio where perhaps they could get paid more but wouldn't have a sense of fulfillment."

Says Peter Wilkes, head of investor relations and corporate communications, who has known Feltheimer for 15 years: "Jon attracts a very, very high degree of loyalty. Of the 15 top executives at Lionsgate, 13 have been here for four or more years. That's unheard of in this business."

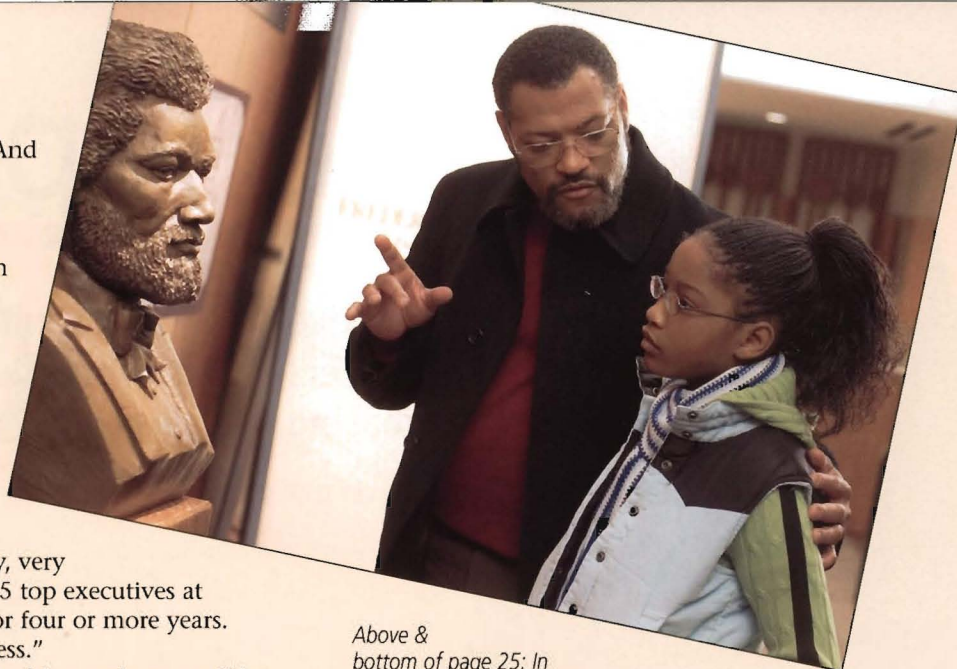
The power Feltheimer gives to his people pays off in other ways, too. For example, Peter Block, president of Lionsgate's motion picture acquisition business, purchased the first *Saw* horror film and developed its franchise. *Saw II* grossed more than \$85 million in ticket sales at the domestic box office. The numbers were huge for the company—and the CEO—the *New York Times* dubbed "the movie Midas" in March 2005.

Serving underserved audiences

Feltheimer came to Lionsgate from Sony Pictures Entertainment in 2000 with a defining set of accomplishments. He graduated a semester early from Washington University in 1972 with honors in economics. (Born in Brooklyn and raised in Roslyn, Long Island, he says he "was allowed to be entrepreneurial" at the University, where he crafted his own course of study.) He headed to Los Angeles, where he worked days as an investment broker and nights as guitarist and singer with his rock band, Lightheart. He also plays piano, clarinet, saxophone, and bassoon.

Next he co-founded a company that managed singers and songwriters; seven years later, he joined New World Entertainment and launched a television division that became the company's most valuable property. Sony acquired some of those assets in 1991 and appointed Feltheimer president of TriStar Television, which was little more than a logo until he put it on the dial. Once at Lionsgate, he purchased both Trimark and Artisan Entertainment, giving the indie a tremendous library of more than 5,000 film, television, DVD, and video titles. With control of worldwide distribution to every type of outlet, including Sony PlayStations, that collection is the reliable money piggy bank of Lionsgate.

Feltheimer's business plan for Lionsgate filled just three-fourths of a page when he wrote it in December 1999; exactly the same plan is in place today. Practicing discipline and cost-control, the company "serves underserved audiences in a way that provides a sustainable competitive advantage"—whether that means focusing on daring and provocative material, or "genre films" that appeal to a particular audience. The result: Revenues at



Above & bottom of page 25: In April 2006, Lionsgate, 2929 Entertainment, and Starbucks Entertainment will release *Akeelah and the Bee*, a story of a precocious 11-year-old, Akeelah Anderson (right, Keke Palmer), from south Los Angeles. With a gift for words, Akeelah is tutored by Dr. Joshua Larabee (left, Laurence Fishburne), winning a spot in the Scripps National Spelling Bee, and, in turn, uniting a neighborhood with her courage.

Lionsgate are five times what they were in 2000, and the shareholder base is the rival of all the majors.

Fortunately "very stress-tolerant," Feltheimer is also "very entrepreneurial" and willing to take informed and creative chances. "If people say I shouldn't do something, I don't listen simply because it's never been tried."

"I use my right brain as well as my left brain here," Feltheimer adds. He likes to be part of choosing films, for example, and reads scripts on weekends.

So what kind of working hours does the company keep? "We're 12 hours a day, seven days a week," Feltheimer says of his top executives. He himself regularly puts in up to 15 hours, five days a week. "That's what I would call our schedule."

He treasures his weekends, which he spends with his wife, Laurie, and children, Jillian, 13; Maya, 6; and Jack, 4. Time permitting, he plays 12-handicap golf.

And since L.A. is a town where high-profile political affiliations tend to be tallied publicly, a recent visitor asked about a news account of his loyalties. Is he a Democrat? (A nanosecond's pause.) "I am."

Finally, of the potential to persuade—and perhaps even to foment change—through films, Feltheimer says: "I love movies that inspire. I love movies that create awareness and educate. But that's not our job." ("I also stand up for our right to make movies like *Saw*, which scare the heck out of people," he adds.)

"My job is to build a sustainable, viable company that creates shareholder value, because that's what a CEO's responsibility is."

So what's next? Feltheimer says (with no hesitation at all): "More!" 📺

Judy H. Watts is a free-lance writer based in Santa Barbara, California, and a former editor of this magazine.

The Top Player

Alumna Patricia Vance presides over the Entertainment Software Rating Board, educating consumers about computer and video games so they can make smart purchasing decisions.

BY TERRI McCLAIN



Patricia Vance is an active advocate for parents. Her job? Keeping parents informed about the content in the computer and video games they rent or purchase for their kids. In fact, you may have seen her during the holiday season as she made the talk-show rounds, urging parents to check the ratings and make sure the games children want are "OK to Play."

As president of the Entertainment Software Rating Board (ESRB), a self-regulatory body for the interactive software industry, Vance heads the effort to rate interactive media—using clear and concise labeling—for both age appropriateness and content. "OK to Play?" is a national ad campaign developed and launched by the ESRB to increase parental awareness of the video game rating system.

Like movie ratings, which are imposed from within the film industry, game ratings are not dictated by the government. ESRB was established in 1994 by the Entertainment Software Association (formerly the Interactive Digital Software Association) to independently apply and enforce ratings, advertising guidelines, and online privacy principles adopted by the computer and video game industry.

"We provide a real public service," says Vance, "particularly to parents who may not be aware of what's in a game, may not play games themselves, and may want help when they go out to purchase or rent computer and video games for their kids."

"The ESRB's key mission is to ensure that consumers have information to make educated purchasing decisions about computer and video games," she continues. "We have an effective and trusted system in place. Awareness among our key target group—parents of children between the ages of 3 and 17—is close to 80 percent."

Each year, the organization conducts nationwide research to assess parental awareness and use of the system. ESRB also tests the accuracy of the ratings by exposing parents to a wide range of recent games, then asking them which ratings they think should be applied.

"Making sure our ratings reflect American mainstream tastes and values is very important to us," Vance says. "Our rating system has two parts, with a rating symbol for age as well as content descriptors. The two parts are what

give parents great insight into what's in a game. Eighty-two percent of the time, parents in the study agreed with the ratings, and another 5 percent actually thought we were being too strict. Although we will likely never get to 100 percent, due to the diversity in our population, we take that research very seriously, and we are pleased that the overwhelming majority of parents concur with our ratings."

The "OK to Play?" public service campaign has appeared in numerous publications, such as *Entertainment Weekly* and *TV Guide*. Because dads are more likely to be gamers themselves, and therefore may have more familiarity with the rating system, many of the ads have been placed in publications that target women, like *Good Housekeeping*, *Oprah*, and *Ladies Home Journal*.

"We also have relationships with virtually all of the major retailers," Vance says. "So when you're in a store shopping for video games, you'll see ratings awareness messages, with an illustration of how to use the rating system, on the display itself, on the racks, or even in brochures available at the checkout."

Pre-game routine

Vance did not start out with such a career in mind. At Washington University—which she chose in part because her brother, Bill Eisler, A.B. '74, had attended the University, and, therefore, she knew it as "a great school to get a great liberal arts education"—she earned a degree in international relations and Russian. After graduation in 1978, she moved to Washington, D.C.

"I wanted to go into the Foreign Service," Vance says. "Ideally, I wanted to be the first woman ambassador to the Soviet Union, but the Soviet Union does not exist anymore, so that job is gone. Now I am kind of glad I didn't do that."

Instead, she entered the nonprofit sector in Washington, where she gained experience in film distribution. This led her back home to New York to The Movie Channel and then ABC, where she remained for 18 years, with management responsibilities that included the ABC Internet Group and CD-ROM publishing, as well as educational film and video home distribution.

in the Ratings Game

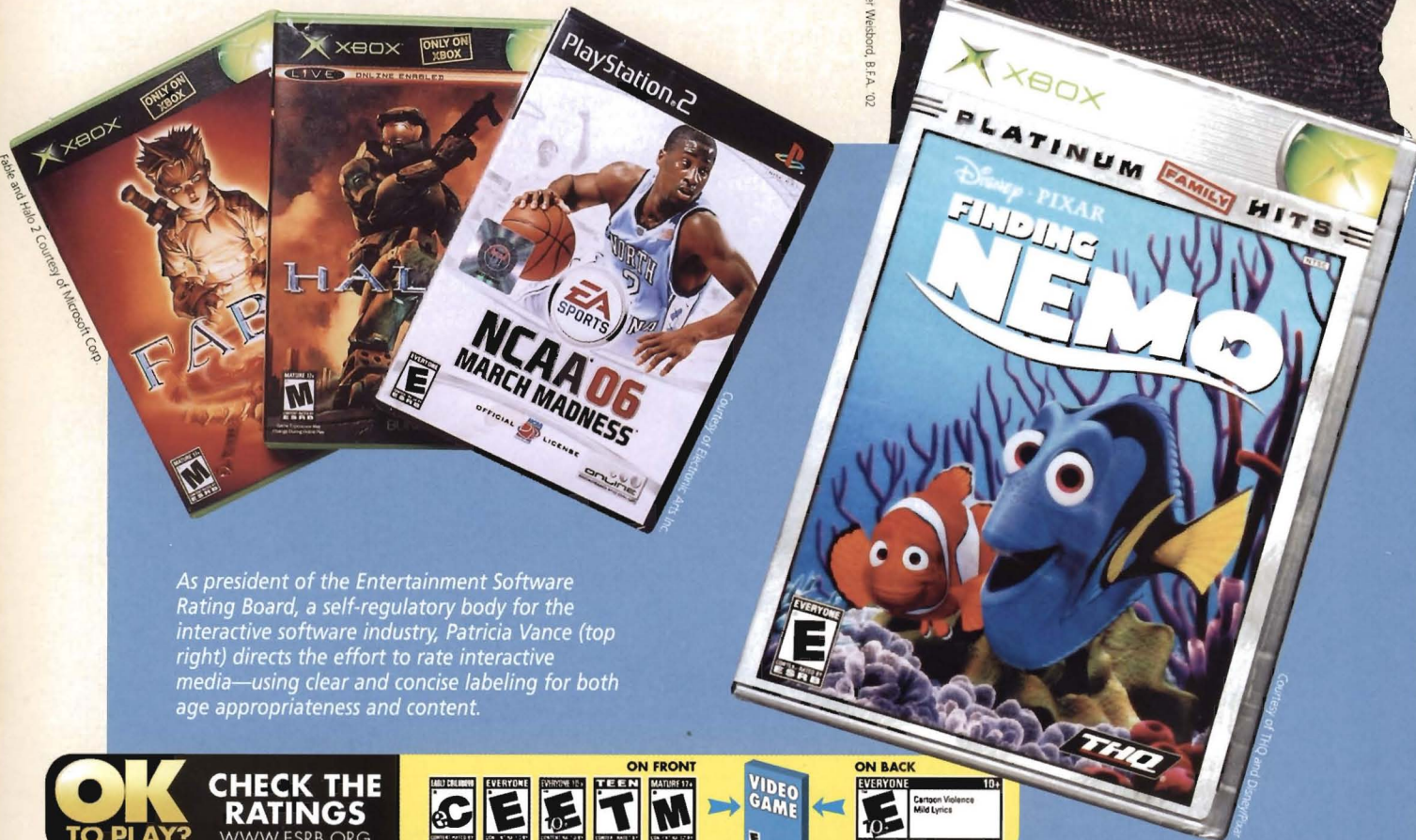


Jennifer Woodard, B.F.A. '02

She left Disney/ABC to run HalfthePlanet.com, an online resource network for people with disabilities.

"It was a compelling way for me to use my Internet experience to build something that gave back to society," Vance says. Ultimately, she flipped it from a for-profit to a nonprofit organization, pulled back from day-to-day management and took on the role of chairman of the board.

In 2001, she went to work for the Princeton Review, where she headed the Admission Services division that publishes college search books and the review.com Web-site guide to



As president of the Entertainment Software Rating Board, a self-regulatory body for the interactive software industry, Patricia Vance (top right) directs the effort to rate interactive media—using clear and concise labeling for both age appropriateness and content.

**OK
TO PLAY?**

**CHECK THE
RATINGS**
WWW.ESRB.ORG

ON FRONT

VIDEO
GAME

ON BACK

Cartoon Violence
Mild Lyrics
ESRB CONTENT RATING: www.esrb.org

The Entertainment Software Rating Board developed the "OK to Play?" national ad campaign to increase parental awareness of the video game rating system.



Courtesy of Entertainment Software Rating Board

college admissions; she also worked with undergraduate and graduate schools all across the country to put their admissions applications online. Her tenure there coincided with her then 16-year-old daughter's own college search, making the experience "extraordinarily relevant on a personal level."

Full-court press

What Vance likes about her work at ESRB is bringing a fundamental service to consumers while working within an industry where she can bring her years of media experience to bear.

"I think we do great work," Vance says. "I also think there are a lot of misperceptions about the industry. We are continually trying hard to dispel those myths."

Myth number one, she says, is that the industry is marketing violent games to children. "It's just not true," Vance says. "Most retailers have store policies not to sell mature-rated games to kids, and when 9 out of 10 purchases involve an adult, the real issue boils down to parental responsibility."

Vance says the second myth is that all video games are violent. "With the average age of a gamer today being 30, we are certainly seeing some more mature products on the market. And the games themselves are becoming more sophisticated technically, with more realistic graphics," she continues. "Yet, only 12 percent of the games that we rate are rated M for mature, which are for ages 17 and older. The majority of games are still rated E for everyone."

Myth number three is that video games are inherently harmful to children's development. "I would prefer, as a parent, that my child interact with entertainment rather than passively experience it for extended lengths of time," Vance says. "That being said, as with everything, games should be played in moderation. Most video games force the player to tap into all kinds of puzzle-solving and strategizing skills. One has to think about the short- and long-term ramifications and consequences of making a move, and there is something very stimulating and challenging about that." Vance also states that while there is no research proving a causal relationship between playing violent games and behaving violently in reality, there have been many studies that prove certain therapeutic and healthy outcomes from playing video games.

As a parent herself, Vance stresses the role of parents in responsibly monitoring children's activities. Her job, she says, is to help provide parents with the tools they need to make informed decisions about which games are appropriate for their families. The rest is up to them.

"I'm proud of the service that we provide to consumers," Vance says, "and I'm proud of the job that we do, ensuring that the industry is marketing their products responsibly. It's interesting and challenging work, and it definitely keeps me motivated." 📺

Terri McClain is a free-lance writer based in St. Charles, Missouri.



Courtesy of Activision

TEEN

Titles rated T (Teen) have content that may be suitable for ages 13 and older. Titles in this category may contain violence, suggestive themes, crude humor, minimal blood, and/or infrequent use of strong language.

ESRB Rating Symbols

EARLY CHILDHOOD

Titles rated EC (Early Childhood) have content that may be suitable for ages 3 and older. Contains no material that parents would find inappropriate.

EVERYONE

Titles rated E (Everyone) have content that may be suitable for ages 6 and older. Titles in this category may contain minimal cartoon, fantasy or mild violence, and/or infrequent use of mild language.

EVERYONE 10+

Titles rated E10+ (Everyone 10 and older) have content that may be suitable for ages 10 and older. Titles in this category may contain more cartoon, fantasy or mild violence, mild language, and/or minimal suggestive themes.

MATURE

Titles rated M (Mature) have content that may be suitable for persons ages 17 and older. Titles in this category may contain intense violence, blood and gore, sexual content, and/or strong language.

ADULTS ONLY

Titles rated AO (Adults Only) have content that should only be played by persons 18 years and older. Titles in this category may include prolonged scenes of intense violence and/or graphic sexual content and nudity.

RATING PENDING

Titles listed as RP (Rating Pending) have been submitted to the ESRB and are awaiting final rating. (This symbol appears only in advertising prior to a game's release.)



"I can't explain why there have been as many key people from Washington University working in Kenya," McQueen muses, "but it is pretty impressive."

The U.S. Department of Defense has a real stake in such advanced biomedical research. Every day, military personnel confront critical medical problems. Whether the issue is tropical disease in foreign deployments or battlefield wounds or eye injuries from repeated laser exposure or any one of many other issues, the U.S. military is always looking for new and better solutions to medical problems.

WRAIR exists to help find them. Carrying out its mission "to conduct biomedical research that [responds] to Department of Defense and U.S. Army requirements and [that] delivers life-saving products including knowledge, technology, and medical materiel," WRAIR employs some 2,000 military and civilian personnel at its headquarters in Silver Spring, at detachments in Texas and Illinois, and at its laboratories in Kenya, Thailand, and Germany. It is the Defense Department's largest biomedical research laboratory.

Though its work is specifically targeted to military needs, the benefits of WRAIR research reach far beyond the armed forces.

Consider malaria, the disease that changed Martin's vocation. The Defense Department has a keen interest in protecting against malaria and other tropical diseases because military personnel often go to countries where these diseases are endemic. Deployments to Somalia, Haiti, Afghanistan, and Iraq in recent years have exposed personnel to infectious agents not encountered in the United States. Preventing such infections and treating them effectively when they occur is essential for combat preparedness and mission accomplishment.

But finding a means toward these ends is also of incalculable benefit to the civilian populations these diseases afflict. "Malaria is one of the leading killers in the world," McQueen observes. "WRAIR and its partners have developed a vaccine candidate that shows promise in preventing certain kinds of malaria. Many of the drugs currently used to protect against malaria or to treat it were developed at least in part at WRAIR."

The Kenya lab continues to focus on malaria. "The malaria work is conducted in a district on the shore of Lake Victoria, which has one of the highest-known transmission rates in the world," Martin says. There are some novel findings on the research front. Two high-profile malaria vaccine studies are under way at the field site: a 400-subject pediatric efficacy trial of a bloodstage malaria vaccine and a 255-subject adult study of a sporozoite vaccine candidate. The sporozoite is the stage of the parasite that the mosquito injects into the bloodstream. Martin expects significant results from these trials. "It is an exciting project," he says.

Similarly, the unit undertakes HIV/AIDS research at a site in Kericho, an agricultural community about 185 miles northwest of Nairobi. There, 150 staff members conduct field and laboratory studies in an effort to develop effective diagnostic and treatment strategies against this global scourge. A primary objective is discovering an HIV vaccine to protect against the disease.

Though its work is specifically targeted to military needs, the benefits of WRAIR research reach far beyond the armed forces.



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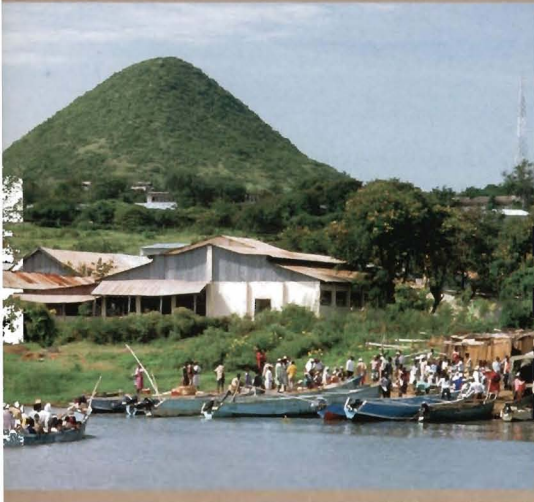


USAMRU-K also conducts surveillance activities to uncover emerging infections before they spread within and outside the region. Over the years, USAMRU-K has participated in the investigation of outbreaks of viral diseases such as yellow fever, Rift Valley fever, West Nile fever, and Congo-Crimean hemorrhagic fever within the region. Another research focus is the monitoring of antibiotic resistance profiles of enteric pathogens, the culprits in diarrhea, which is the fourth leading cause of death in the tropics. Globally, 4.6 million children die from diarrhea—12,600 deaths each day.

Martin's research interests include leishmaniasis, a serious problem in Asia, the Middle East, Central and South America, and Africa. Work in his laboratory has shown that kinetoplastid parasites possess genes that permit the metabolism of lipids to produce substances called prostaglandins. These parasite products are similar to those its human hosts make to regulate critical body functions—temperature, the sleep-wake cycle, immune response. "We are now thinking that maybe these parasites make these prostaglandins to manipulate



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(Far left) A soldier receives inoculations before being deployed overseas. (Left & above) The U.S. Army Medical Research Unit in Kenya continues to focus on malaria, conducting research on the shores of Lake Victoria, an area with one of the highest-known transmission rates in the world.

improvement since the Civil War. WRAIR also investigates sleep deprivation and its impact on performance, a serious battlefield problem but a concern shared, for instance, by the U.S. Department of Transportation and the trucking industry.

Nor is research the only way WRAIR's work benefits civilians. A major beneficiary is the Kenya Medical Research Institute (KEMRI), USAMRU-K's host in Nairobi. USAMRU-K provides both training and infrastructure for KEMRI.

"We have a very strong training program, which allows master's and Ph.D. students to use our labs for their research work, thereby building scientific capacity for our host nation," Martin explains. "We train our Kenyan staff, and we use them for most of the work done in our projects. We have more than 350 Kenyans who work at different levels in our program.

For example, we have Kenyan principal investigators conducting vaccine and drug trials; a Kenyan lab director; and several Kenyan technical supervisors."

In addition to human resource development, USAMRU-K has added about 59,000 square feet of state-of-the-art administration and lab space. Infrastructure development also has been done by other international KEMRI-partners such as the U.S. Centers for Disease Control, Britain's Wellcome Trust, and the Japan International Cooperation Agency. "All of these infrastructure development projects have allowed KEMRI to blossom into a center of excellence for research and training in infectious disease," Martin says.

McQueen agrees, and gives much of the credit to Martin. "In large part, the infrastructure upgrades are the result of Sam Martin's hard work and his relationships with our investigators and the community," McQueen says. "The USAMRU-K

malaria field site has one of the best clinical trials centers in the region and possibly in Africa."

Martin is also responsible, McQueen says, for a new pediatric wing at the local hospital. Because of a chronic shortage of water in the city, a borehole was constructed on the hospital grounds to provide water for the pediatric wing and potentially all of the other operations within the hospital premises.

He has, McQueen says of Martin, "almost a missionary zeal."

Washington University's contributions to medical advances and care in Kenya don't surprise McQueen. "Washington University graduates are interested in making a difference. They dependably practice state-of-the-art clinical medicine. They look to advance our understanding of biomedical issues. I am biased," McQueen concedes, "but I think the graduates of Washington University medical school come out committed to advancing the frontiers of science."

Betsy Rogers is a free-lance writer based in Belleville, Illinois.

the host to its advantage," Martin says. "It's a very exciting and unexpected finding."

The U.S.-Kenyan partnership is a perfect symbiotic relationship, according to Martin. "We are as interested in these diseases as the local people and institutions with which we partner," he observes. "For us, these diseases are a threat to our deployed military; for our partners, they cause major public health problems. We need our partners as much as they need us: You can't do that final step of testing the efficacy of new drugs, new vaccines, unless you are somewhere where the disease occurs at a high-enough prevalence. We are not an aid agency. We're here because we need those products."

Still, he adds, "Discoveries we make go a long way toward helping Kenyans and civilian populations in many places."

Indeed, much of WRAIR's research benefits the public at large. Its greatest success recently is the testing of a hepatitis [E] vaccine. The institute also is working on bandages infused with coagulation factors to "jump start the clotting process," McQueen says, which is the first significant bandage



A TRULY EXTRAORDINARY COUPLE

Bob and Gerry Virgil take dedication
and loyalty to the University to the
highest level.

Gerry and Bob. Bob and Gerry.

No matter how you say it, it sounds like one word—one name for an extraordinary couple who have shared the last 45 years of their lives with Washington University and the greater St. Louis community.

Geraldine and Robert L. Virgil—married sweethearts from Beloit College in Wisconsin—came to St. Louis in 1958 after Bob's release from the Army, so he could enroll in the University's M.B.A. program. As they were forming what would become a lifelong relationship with the University family, they started building their own family when their twin daughters were born the following year.

Bob went from 1960 M.B.A. graduate to business instructor in 1961, quickly moving up the academic ranks to assistant, then associate, then full professor of accounting, also earning his doctorate in business administration in 1967. He and Gerry had another daughter and a son in the next few years. In the classroom, Bob proved to be articulate, knowledgeable, straightforward, well-prepared, and focused. He challenged his students to do their best, and he seasoned his presentations with humor and common sense. Moving into administration, he became dean of the business school in 1977.

When Bob stepped down as dean in 1993, Howard Wood, B.S.B.A. '61, then-chair of the Olin School's Alumni Executive Committee, said, "No single individual that I have ever known got the kinds of accolades from students that Bob did." Bob was voted "Teacher of the Year" nine times. Former students, friends, colleagues, and members of the business community raised more than \$1 million to establish the Robert and Gerry Virgil Endowed Scholarship

to honor the Olin School's first couple, by providing a permanent way to assist both B.S.B.A. and M.B.A. students in the School.

In 2004, further recognizing Gerry's and Bob's impact on the School during his 16-year tenure as dean, friends raised \$1.5 million to endow the Geraldine J. and Robert L. Virgil Professorship in Accounting and Management, which is held by Mahendra Gupta, the Olin School's present dean and professor of accounting.

When the professorship was announced, then-dean Stuart Greenbaum said, "Bob Virgil's contribution to the development of the Olin School was both foundational and monumental," adding that the progress made in the intervening years was the logical extension of his vision and commitment to the School.

"It was a total surprise to me," Bob says. "It's really an honor when your good friends think highly enough of you to do something like this." Gerry modestly adds, "I was pleased and honored, especially for Bob, because he's done all the work, and I was happy to be included."

A few years ago, Bob, a Wisconsin native, admitted he might have been prepared by nature for the task of transforming what was then a little-known business school into one competing in the top ranks of institutions in the United States and the world. "I guess I have a little bit of a knack for what my mother used to call herding cats into a gunnysack," he said. "In management, everyone's got ideas, often better than your own, so you've got to listen to everyone's ideas and herd them together." What he managed to "herd together" at Olin includes increasing the School's endowment from about \$200,000 to more than \$75 million, recruiting outstanding faculty, building strong corporate relationships, establishing



Bill Stover

Honoring the Olin School's first couple, former students, friends, colleagues, and members of the business community raised more than \$1 million in 1993 to establish the Robert and Gerry Virgil Endowed Scholarship, which provides a permanent way to assist both B.S.B.A. and M.B.A. students

in the business school. With Gerry and Bob Virgil (center) at Olin's Scholars in Business dinner on November 6, 2005, are (from left) M.B.A. student Dongho Seo, M.B.A. student Merle Taylor, and B.S.B.A. students Simone Washington, Shandria Wilson, and Yuri Shakhmin.

an international presence, and starting the executive M.B.A. program and initiatives in experiential learning (both now hallmarks of the School).

Both Gerry and Bob are heavily invested in the welfare of the St. Louis area as well. She has been a member of the Philanthropic Educational Organization, a supporter of Kirkwood Meals on Wheels, and a devotee of the Glendale Presbyterian Church. Bob says, "She's part of the foundation of this little church that has been such an important part of our family's life." Bob recently returned to Washington University's Board of Trustees. He also serves on the board of the Donald Danforth Plant Science Center and remains active in other organizations, such as the Magic House. He has held many other key community and corporate roles throughout the years.

Over the years, Bob's strongest commitment has been to Washington University and the Olin School. Besides overseeing the construction of Simon Hall, the first campus building constructed specifically for business education, and the naming of the School for John M. Olin, the business professor and dean also served as vice chancellor for students in 1974-75 and as executive vice chancellor for university relations in 1992-93. He chaired the Faculty Senate Council and several search committees for key administrative posts. He also chaired a consortium of business schools seeking to increase minority enrollment in M.B.A. programs.

When he left the University in 1993 to become a general principal in charge of management development at the Edward Jones brokerage firm, he took his sense of commitment and his work ethic with him. When he retired at the end of 2005 after 12½ years, the firm had more than tripled in size, with more than 9,000 offices in

the United States, Canada, and the United Kingdom. His University service didn't stop when he left campus. He is currently the William Greenleaf Eliot Society's president and a recent recipient of its "Search" Award. Asked three years ago by Chancellor Mark S. Wrighton to chair the University's Sesquicentennial Commission, he enthusiastically accepted and kept the yearlong celebration on track despite personal health problems at the time.

Besides the scholarship and professorship that honor them, Gerry and Bob shared the Olin School Dean's Medal in 1996. Bob received a Distinguished Business Alumni Award in 2004. Bob also has received a Distinguished Alumni Citation (1981) from Beloit College, the Distinguished Service to Education Award (1996) from Harris Stowe State College, and other tributes, including the FOCUS St. Louis Award.

At Bob's farewell dinner in 1993, then-Chancellor William H. Danforth said he'd always thought of Bob as "the business school's pied piper, for his ability to rally friends and colleagues and students together for the School. He's been a model of what a great University citizen should be. He's been one of the treasures of the University and has left a legacy of one of the great business schools of the nation."

Gerry was always a full partner with Bob in winning friends for the School, and that made all subsequent progress possible. No wonder the University's community service award is named for its first recipients: the Gerry and Bob Virgil Ethic of Service Award. No matter how you say it, *Gerry and Bob*, or *Bob and Gerry*, it's one word, one name for a truly extraordinary couple. 📖

—John W. Hansford



UP CLOSE with the CAST of *Wicked*

Washington University alumni, parents, family members, and friends were in the audience for a matinee of the hit musical *Wicked* at the Fox Theatre in St. Louis on November 25, an event sponsored by the Alumni Association. Carol Kane, star of movies, theater, and television, headlined the cast and crew who joined the Washington University group for a post-performance presentation facilitated by William Whitaker, senior lecturer in performing arts at Washington University.

Throughout the year, Washington University Clubs in more than 30 cities sponsor special events open to parents and friends as well as alumni. To find a club near you and learn more about upcoming events, visit the Web site: www.alumni.wustl.edu.



In November and December 2005, Carol Kane was among the stars of the production Wicked at the Fox Theatre in St. Louis.



Mel Brown (with microphone), A.B. '57, J.D. '61, chair of the Alumni Board of Governors, thanks the cast on behalf of the Alumni Association.

www.alumni.wustl.edu

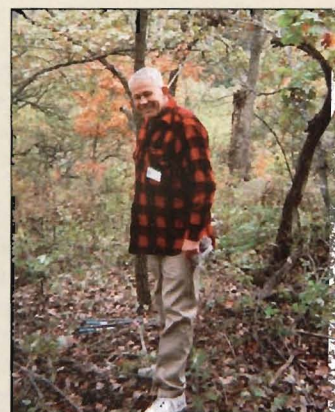
Alumni Association HELPING UNDERGRADS SURVIVE HOLIDAY TRAVEL

More than 300 students returned home for Thanksgiving break fortified by Alumni Association "survival kits," filled with games, puzzles, and snacks, to enliven the dullest plane

trip (plus ear plugs and an Alka Seltzer, just in case). Students also were provided with recipes to add to their holiday festivities, including one for a delectable pumpkin pie from Chancellor Mark S. Wrighton.



The Alumni Association helps graduates of Washington University face the rigors of life after graduation, too—with career networking, activities, programs, and events for alumni, parents, and friends around the world. And like the survival kits—membership is free. For all the benefits available to alumni, students, parents, and friends, take a look at the Web site: www.alumni.wustl.edu.



Kansas City — Tom Bogdon, A.B. '68, was one of the volunteers who removed shrubs and brush in the Rocky Point Glades at Swope Park. The project is part of an effort to restore the remnants of the region's original landscape, sponsored by the Kansas City Wildlands coalition.

MONTH OF CARING 2005

Each October, hundreds of University Alumni Association volunteers across the country continue Washington University's tradition of community service through a national Month of Caring. Local communities throughout the United States benefit as WU Club volunteers harness their time and enthusiasm for a day. This year, volunteers packed meals for those in need, helped maintain a nature preserve, prepared lunches, and built access ramps for the disabled. Participants made new friends and had a great time while giving back to their communities.

NOMINATE YOUR FAVORITE PROJECT FOR 2006

Please let us know if your favorite local organization needs volunteers. Plans are already under way for the 2006 Month of Caring in October, and your suggestion may be chosen as one of the projects served by our volunteers. Please e-mail your suggestions to: alumniassociation@wustl.edu.



Atlanta – Many alumni encourage their children to join them in the Month of Caring. Here, two young volunteers help assemble lunches for Project Open Hand, which provides meals and nutrition services to people who cannot prepare meals themselves due to illness or disabilities.



Houston – From left: Joe Victor, husband of Jean (Schneider) Victor, A.B. '64; Fan Yang, M.S. '96; and Jim Myers, A.B. '64, help the Hermann Park Conservancy with ecological restoration.



Houston – Adannaa Oparanozie (left), A.B. '05, and Judy (Schnitzer) Myers, A.B. '64, help restore habitat for migratory birds at Hermann Park, one of the city's greatest natural resources.



Dallas – Washington University volunteers and a delighted homeowner show off a completed home access ramp. The Dallas Ramp Project builds about 200 ramps per year for area residents.

Minneapolis – Bill Rosenfeld, A.B. '66, packs food to be shipped to orphanages, schools, and clinics around the world by the Feed My Starving Children organization.





We want to hear about recent promotions, honors, appointments, travels, marriages (please report marriages after the fact), and births, so we can keep your classmates informed about important changes in your lives.

Entries may take up to three issues after submission to appear in the Magazine; they are published in the order in which they are received.

Please send news to:
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 Washington University
 in St. Louis
 Campus Box 1086
 One Brookings Drive
 St. Louis, MO 63130-4899
 Fax (314) 935-8533
 E-mail classmates@aismail.wustl.edu

If you want your news to appear also in a separate publication your school may provide, please send your news directly to that publication.

ALUMNI CODES

AR Architecture	GL Grad. Law	MT Manual Training
BU Business	GM Grad. Medicine	NU Nursing
DE Dentistry	GN Grad. Nursing	OT Occupa. Therapy
EN Engineering	GR Grad. Arts & Sciences	PT Physical Therapy
FA Art	HA Health Care Admin.	SI Sever Institute
GA Grad. Architecture	HS House Staff	SU Sever Inst. Undergrad.
GB Grad. Business	LA Arts & Sciences	SW Social Work
GD Grad. Dentistry	LW Law	TI Tech. & Info. Mgmt.
GF Grad. Art	MD Medicine	UC University College

40s

Bruce Higginbotham, BU 40, and his wife, **Sarah "Sally" Higginbotham**, LA 40, were two of 25 outstanding older adults honored by St. Andrew's Resources for Seniors as Ageless—Remarkable St. Louisans for their contributions to the St. Louis community. A former member of the National Council for the Olin School of Business, Bruce has been on the University Club Board of Directors for 17 years, and he contributes time to Meals on Wheels. Sally has been a devoted supporter of Meals on Wheels for 25 years, delivering meals to other seniors who might otherwise go without. She also contributes to the St. Patrick Center food pantry and is a volunteer for Reach to Recovery, enriching the lives of cancer survivors. Bruce and Sally co-chaired their class' 65th Reunion.

Shirley L. Ferguson Brown, BU 43, and her husband, George, moved in July 2005 from Sarasota, Fla., to Brownsboro, Ala., just outside Huntsville, to be near their two daughters. Residing in a three-family complex on three acres, they are well, except for minor ailments, and are enjoying life.

50s

World War II veteran **Eugene "Gene" Eike**, EN 50, of New Braunfels, Texas, received a hero's welcome when he returned to Pilsen, Czechoslovakia (formerly Bohemia) in May 2005. That's when he and eight other members

of the U.S. 16th Armored Division were feted during the Czech Republic's 60th anniversary celebration of Allied Forces' liberation of West Bohemia from German occupation at the end of the war. Eike received the Czech Republic Victory Medal, and more than 100,000 cheered the veterans as they rode in restored Jeeps during a two-hour parade in Pilsen.

Marilyn Classe Gordley, FA 54, won an honorable mention in the Philadelphia Tri/State Artists Equity 56th Fall Exhibition, at American College in Bryn Mawr, Pa. For the event in 2005, Gordley was chosen, as part of a four-person panel, to discuss her work and philosophy. In addition, her oil painting *Tragic Summer*, one of her four paintings in *The Contemporary Eye* exhibition at the Michener Museum in New Hope, Pa., which ran from January to May 2005, will be added to the permanent collection of the James A. Michener Art Museum in Doylestown, Pa.

E. Irene Adam, NU 56, says that though she and her husband are mostly retired from full-time farming, they still reside on their farm in northwest Missouri. "We have enjoyed traveling and hope to continue, if health allows," she says. "We do hope everyone in (the) 1956 graduating class will attend WU Reunion 2006 ... How great it would be if we could all attend this special celebration."

Quentin "Quent" Goodrich, SW 58, is president of the Washington State School Directors Association (WSSDA), an organization that represents locally elected school board members across the state. He has been a member of the

Chimacum (Wash.) School Board for 18 years and a member of the WSSDA board for the past six years. Goodrich, who was a therapist and social service agency administrator for 20 years, now owns his own business.

Allan H. Zerman, LA 58, LW 60, was named a diplomate in the American College of Family Trial Lawyers (ACFTL). The ACFTL is limited in membership to 100 of the nation's best family law trial lawyers, and Zerman is the first St. Louis-area lawyer to be so honored.

Robert D. Brooks, LA 59, is a co-author of *The Wall of Annexation and Expansion in the Jerusalem Area* (International Peace and Cooperation Center—Jerusalem, 2005). He says the book's theme is "about the horrible effects the wall will have on the Palestinian community in the Jerusalem area."

James O. Hepner, HA 59, professor emeritus and past director of the School of Medicine's health administration graduate program, has been designated an honorary member of the U.S. Air Force Medical Service Corps. The honor, given in appreciation of Hepner's 35-year contribution to and support of the corps, was presented at its meeting in San Diego on Oct. 14, 2005.

60s

George M. Bohigian, LA 61, HS 69, presented "Healing the Healer—Dealing with the Impaired and Disruptive Physician" at a meeting of the American Academy of Ophthalmology in Chicago. The presentation was based on "The Impaired and Disruptive Physician: The Missouri Physicians' Health Program—An Update (1995–2002)," published in the *Journal of Addictive Diseases*, Vol. 24, 2005.

Joanlee Ferrara, FA 62, who is retired and no longer with the Saint Louis Art Museum or the Fort Zumwalt School District in St. Charles County, Mo., spends time in England, where her daughter lives, and in Chesterfield, Mo. During her 40-year teaching career, Ferrara received numerous awards, including being named Museum Art Educator for the State of Missouri by the Missouri Art Education Association. She says, "I am painting again and enjoying being an artist rather than an art teacher."

D. Thomas Hanks, Jr., LA 63, GR 65, professor of English at Baylor University in Waco, Texas, has received the highest honor that Baylor bestows on a faculty member—the designation of Master Teacher. Hanks, who earned a doctorate from the University of Minnesota in the Twin Cities, began teaching at Baylor in 1976 and is a noted expert in medieval

English literature, especially the works of Geoffrey Chaucer and Sir Thomas Malory.

Norman Simms, GR 64, GR 69, of Hamilton, New Zealand, says his latest book, *Masks in the Mirror: Marranism in Jewish Experience* (Peter Lang Publishing, 2006), now is available. Marranos was a term, one that later became abusive, for Sephardic Jews who voluntarily or forcibly converted to Catholicism in the 15th and 16th centuries to avoid persecution or expulsion and who lived in a way that was neither Jewish nor Christian. To cope with the resulting pain and humiliation, these Marranos actually created a new kind of modern personality.

John L. Gillis, LA 65, **Richard B. Scherrer**, BU 69, and **David W. Welch**, BU 63, are among 47 attorneys from Armstrong Teasdale to be selected to the 2006 edition of *The Best Lawyers in America*®.

Joshua Grossman, MD 65, of Johnson City, Tenn., taught Acute Coronary Syndromes as part of Advanced Cardiac Life Support at several locations in fall 2005. In November, his latest paper, "Telephone Tutoring for U.S.M.L.E. III—a Novel Approach," which he co-authored, is designed to help those taking the U.S. Medical Licensing Examination. It was published online at www.exammaster.com/USMLE/usmle-step-3.htm. In December, he taught an all-day seminar titled "Do's and Don'ts in the Medical Records" in Asheville, N.C.

Emory S. Evans, GR 69, after residing in St. Louis for 45 years, is moving back to "poor ol' New Orleans." He says, "It's like this: 'Dear New Orleans—home of my youth, cradle of some ancestors, and tomb of many whom I loved—I ask God to protect, to preserve you' (by Helen D'Aquin Allain in *Souvenirs d'Amerique et de France par un Creole*, 1868)."

70s

Morris E. Fleishman, EN 70, recently was elected to the grade of Fellow of the Association for the Advancement of Cost Engineering (AACEI). He also serves as chairman of the AACEI certification board.

Irving D. Moy, LA 70, GA 72, has begun his 20th year with the Connecticut Department of Public Health. As a public health services manager, Moy manages five regulatory units, including health services fire safety construction. He is the state's "authority having jurisdiction" for plan review of health-care facilities and for the state licensing and federal Medicare/Medicaid, Title 18/19, certification programs in the areas of life safety

and the physical environment. He also helped review the 2006 edition of *Guidelines for Design and Construction of Hospital and Health-Care Facilities*, sponsored by the American Institute of Architects.

Nancy W. Rowe, GR 70, has, in the past year, presented workshops on NeuroNet Projects (therapy and neurological learning-readiness programs based on auditory and vestibular information-processing) in the United States and Central America. She will be taking some NeuroNet project information to Nepal.

Dennis Dailey, SW 71, who received a Doctor of Social Work degree from the University's George Warren Brown School of Social Work in 1971, has retired after 36 years on the faculty of the School of Social Welfare at the University of Kansas in Lawrence. A recipient of numerous teaching awards, he retired with the rank of professor emeritus in June 2005. He continues to have a limited private practice and consultation/training

business, and he continues to do some writing related to the history of his family's home in Lawrence. He says, "Travel, collecting antiques, and freedom are fun, but my true joy(s) are my three grandchildren."

Beverly Kobeissi Fogelman, UC 71, GB 84, has, after 31 years at the School of Medicine, retired as executive director of the Department of Radiation Oncology.

John-Paul Jackson, GR 71, GR 74, a retired university professor, says he has moved to "my home at the end of the world at beautiful Willis Point on Vancouver Island" in Victoria, B.C., Canada, "where you'll find me in the garden." The area is known as Canada's banana belt.

Sanford V. Teplitzky, LA 71, health law department chair for law firm OberlKaler, is listed in the 2006 edition of *The Best Lawyers in America*®. He is based in the firm's Baltimore office, and he has appeared in the publication for more than 13 consecutive years.

David S. Frenkel, LA 74, says his oldest son, Danny, is in his second year at the University and belongs to Sigma Alpha Mu fraternity, as he himself did. David, who resides in Falls Church, Va., is still practicing psychiatry in Washington, D.C., and still playing soccer and Ultimate Frisbee®.

Thomas R. Sonderegger, TI 74, GB 85, has joined the Case Western Reserve University School of Medicine in Cleveland as associate dean for finance and budget. In this position, he is responsible for all areas related to budget and finance, including oversight of strategic financial planning, forecasting, annual budgeting, business services, and coordination with affiliated hospitals and practice plans. Sonderegger had worked at Washington University's School of Medicine since 1978, most recently as assistant vice chancellor and assistant dean for program and finance planning for 14 years.

Bonnie Raskin, LA 75, has, after 25 years as a television executive and producer, joined the Institute for Educational Advancement in Pasadena, Calif., as the senior administrator of the Caroline D. Bradley Scholarship. Each year, the scholarship awards 15 to 20 gifted, high-achieving 8th-graders a full, four-year scholarship to a private or alternative high school in the United States. E-mail: braskin@educationaladvancement.org

Carl R. Schwartz, LA 75, EN 75, who earned a law degree from Harvard University in Cambridge, Mass., was selected by his peers for inclusion in the 2006 edition of *The Best Lawyers in America*®. Schwartz is an intellectual property law attorney in the Milwaukee office of Quarles & Brady.

Gregory J. Kamer, LA 76, has been appointed to the Nevada Board of Bar Governors by the Nevada Supreme Court. He also is president of Las Vegas-based Kamer Zucker and Abbott, which *Chambers USA* has called the "go to" labor and employment law firm for Nevada business.

Thomas O. Bean, LA 77, a partner in the Boston office of law firm McDermott, Will & Emery, has been appointed to a five-year term on the Clients' Security Board of Massachusetts by the state's supreme judicial court. The board consists of seven attorneys who oversee the disbursement of funds to clients who have been victimized by instance of attorney misappropriations. Funds are derived from a portion of annual registration fees paid by attorneys to the Board of Bar Overseers in Massachusetts.

Michael R. Bedford, SI 77, a faculty member in biomedical engineering at the Milwaukee School of Engineering, received the "Unsung Hero" Award for 2005 from the Mental Health Association of Greater Milwaukee for research in human biofield technology development.

Robert A. Creo, LW 77, a Pittsburgh-based arbitrator, mediator, educator, settlement counsel, and special master, provided his perspective for four sections of John W. Cooley's *Creative Problem-Solver's Handbook: For Negotiators and Mediators: Volume One* [ABA (American Bar Association) Publishing, September 2005]. The book is a compilation of published articles from specialists in alternative dispute resolution from across the nation. It is to serve, generally, as a guide to practitioners, academics, and students in the practice, teaching, and study of creative problem-solving methods, tools, and techniques. Volume two was published in December 2005.

Jonathan Moreno, GR 77, the Emily Davie and Joseph S. Kornfeld Professor of Biomedical Ethics and director of the Center for Biomedical Ethics at the University of Virginia Health System, based in Charlottesville, has been elected to membership in the Institute of Medicine of the National Academies. Moreno is an internationally recognized expert on biomedical ethics.

Thomas Shoup, GR 77, GR 81, now is vice president, PLM Ultrasound, for the Ultrasound Division of Siemens Medical Solutions USA, based in Mountain View, Calif. Shoup, who reports to the division president, joined the division in 2004 as senior director of transducer engineering. He has more than 20 years of ultrasound experience, beginning with HP Labs in Palo Alto.

Jim Weddle, GB 77, was named managing partner of financial-services firm Edward Jones, effective Dec. 31, 2005. He began his career at the St. Louis-based firm in 1976 as an intern working part time in the research department. After earning an M.B.A. degree from Washington University, he moved to Connorsville, Ind., to establish the firm's 200th branch, and he continued to advance in the firm. In his new role, Weddle is a member of the firm's executive committee.

Bruce E. Friedman, LA 78, a principal in the Clayton, Mo., law firm of Paule, Camazine & Blumenthal, has been selected for inclusion in the 2006 edition of *The Best Lawyers in America*®.



Movin' Up Down Under

In August 2005, five Washington University alumni played for the American Revolution, the U.S. National Team, in the Australian Rules Football International Cup in Melbourne. From left: Dan Sarbacker, A.B. '01; Chris Carroll, A.B. '02; BJ Gambaro, B.S.B.A. '99; Matt Jagger, A.B. '00; and Darrell Butler, B.S.E.E. '01, were among the 35 players selected to the team. After losing to eventual champions New Zealand in the semifinals, the American Revolution beat the 2002 defending champions from Ireland in the consolation match to finish third in the 11-team competition. Besting the team's 2002 5th-place finish, the Revolution is clearly moving on and up.

He practices exclusively in the area of family law, with particular emphasis in substantial-net-worth cases, high-end alimony, prenuptial agreements, and surrogacy law.

Harry Haury, EN 78, GB 79, president and CEO of NuParadigm, a technology company in Chesterfield, Mo., says its Blue Force Tracking System, performed very well in its first live test—in Louisiana, in the wake of hurricanes Katrina and Rita. The unique system combines Global Positioning System technology, a wireless network, real-time data feeds, and cell-phone text-messaging to improve coordination of emergency response teams.

Lisa Mueske Ruggiero, SW 78, who is communications director for a family services agency in Greenwich, Conn., resides with her daughters—ages 11, 14, and 17—in Stamford, Conn. She also is on the board of the Crohn's & Colitis Foundation of America. E-mail: LisaR125@aol.com

Jeff D. Warner, AIA, GA 78, is a founder of WRNS Studio, San Francisco, an architectural design firm engaged in projects ranging from urban mixed-use, entertainment, health care, and education. He and three other partners at his former employer, Chong Partners Architecture, created the new company. Jeff and his wife—**Ellen (Jablin) Warner**, LA (architecture) 78, an architect-now-developer—split their time between San Francisco and Sacramento. Their daughter, Gabby, is a senior at the University of Southern California in Los Angeles, and their son, Avi, a recent graduate of the University of California in Santa Cruz, is an English teacher in Tatemama, Japan.

Laura Schweitzer, GR 79, has been named to the new position of vice provost for academic affairs and health liaison at Syracuse (N.Y.) University. She also holds positions at the State University of New York's Upstate Medical University in Syracuse as vice dean of the College of Medicine, vice president for academic affairs, and provost-designate. As an administrator at both institutions, Schweitzer is well-positioned to coordinate health-related programs between the two.

Raymond Tymas-Jones, GR 79, GR 88, was named dean of the College of Fine Arts and associate vice president for the arts at the University of Utah in Salt Lake City, effective Sept. 1, 2005. In this new position, Tymas-Jones oversees the academic departments of art and art history, ballet, modern dance, theatre, the School of Music, the division of film studies, and an interdisciplinary arts technology program. Formerly, he was dean of the College of Fine Arts and professor of music at Ohio University in Athens, Ohio.

Col. **William C. Vogt**, LA 79, retired from the U.S. Army on March 1, 2006. He and his wife, Joanne, planned to relocate from Darmstadt, Germany, to northern Virginia, where Bill will work for a defense contractor.



R. Mark McCareins, LW 81, was selected to *Chambers' Directory of America's Leading Lawyers*, *The Best Lawyers in America*®, the *Leading Lawyers Network*, and *Illinois Super-Lawyers* for 2006 in the areas of commercial litigation, antitrust, and intellectual property. McCareins, a senior partner in the Chicago office of Winston and Strawn, also was named to the board of Lawrence Hall Youth Services. He continues as an adjunct professor of antitrust and business law at Northwestern University, and as vice chairman of the American Bar Association's antitrust section on civil practice and procedure. Also, he holds two posts for Washington University—advisory board chairman of the Center for Interdisciplinary Studies at the law school and board member of the Regional Cabinet for Chicago.

Mark O. Holdenried, TI 82, TI 82, senior software engineer at Enterprise Rent-A-Car and adjunct professor of information management at Washington University, is secretary of Partners in Urban Ministry (PIUM), a coalition of 26 local, urban Lutheran churches. He also is Web master for PIUM, as well as Grand-Oak Hill Community Corp., St. Johns Lutheran Church, and the eastern Missouri branch of Children's Rights Council. He and his wife, Kathylyne, reside in the St. Louis area.

Michael Salem, LA 82, an academic researcher, surgeon, and health-care entrepreneur, has been named president and CEO of the National Jewish Medical and Research Center in Denver, effective Jan. 7, 2006. Salem, who earned a medical degree from George Washington University School of Medicine and Health Sciences in Washington, D.C., has nearly two decades of experience in clinical care, research, and the health-care industry. Immediately prior, he had worked, since 1999, at GMP Companies, a Florida-based company that develops and commercializes scientific and technological discoveries made primarily by academic researchers.

Hon. **Daniel L. Schmidt**, LW 83, has been designated to serve a one-year term as presiding justice of the Appellate Court of Illinois, Third District, effective Jan. 1, 2006. The court hears appeals from the circuit courts of 21 central Illinois counties.

Mitchell (Mitch) Walker, EN 83, left his career in marketing and general management a few years ago and now is a home staff missionary at Gospel for Asia in Carrollton, Texas. He and his wife, Cheryl, have five children—Natalie, Major, Silas, Hudson, and Lorena. E-mail: mitchwalker@gfa.org

Robert J. Craddick, LW 84, after 20 years in public service as a prosecutor, has entered private practice. He has become an associate of Clayton (Mo.)-based Glassman Law Firm, which specializes in medical malpractice, personal injury, and nursing home law.

Lori I. Tenser, LA 84, after being at Brandeis University in Waltham, Mass., for 16 years, recently became the dean of first-year students at Wellesley (Mass.) College. She continues to work with outstanding undergraduate students "who will make a difference in the world." She and Alan Stern, her husband "and best friend," reside with their three children—Reuben, Jeremy, and Celia—all age 7, in Needham, Mass. Tenser, who is on the National Council for the Undergraduate Experience at Washington University, says she is looking forward to her class' 25th Reunion in 2009.

David B. Altman, LA 88, was promoted to vice president, senior counsel of Grubb & Ellis, a leading provider of integrated real estate services. Altman and his wife, Jill, reside with their children—Jesse, 11, and Jake, 9—in Deerfield, Ill.

Judith (Rabinowitz) Bernstein, LA 88, and her husband, David, announce the birth of Ariel Ilan on May 8, 2005. He joins his brother, Joshua, 8. The family resides in Gaithersburg, Md.

Nicholas A. Franke, LW 88, was elected vice president and president-elect of the Tri-States Chapter of the Turnaround Management Association on Oct. 25, 2005. A partner with the law firm of Spencer Fane Britt Browne, he practices corporate bankruptcy law in the firm's St. Louis office.

Marguerite H. Griffin, LA 88, recently was promoted to senior vice president at the Northern Trust Company in Chicago and was named its national director of philanthropic services. She is responsible for the delivery and growth of the firm's philanthropic services to personal financial services clients.

Melissa L. Wood, LW 88, is president and a co-founder of the National Association of Appellate Court Attorneys (NAACA), an organization devoted to the education and professional growth of attorneys employed by state and federal appellate courts. NAACA, a nonprofit entity headquartered at the University of Richmond (Va.)

Law School, was incorporated in July 2005; its inaugural educational conference will be held in Richmond in July 2006. Wood serves as deputy senior staff counsel for the U.S. Court of Appeals for the Fourth Circuit.

Peter Avery, LA 89, is director of education of TADA! Theater, an off-Broadway youth theater in New York City, where he also is an adjunct faculty member in theatre at New York University. Avery and his wife, Keren Ebel Avery, a pediatrician, recently moved from New York City to Highland Park, N.J.

Bernard J. Fullenkamp, GB 89, recently retired from his work in industry and government affairs for Anheuser-Busch Company in St. Louis. He was considering setting up a consulting business in grassroots political activity and Political Action Committee fundraising.

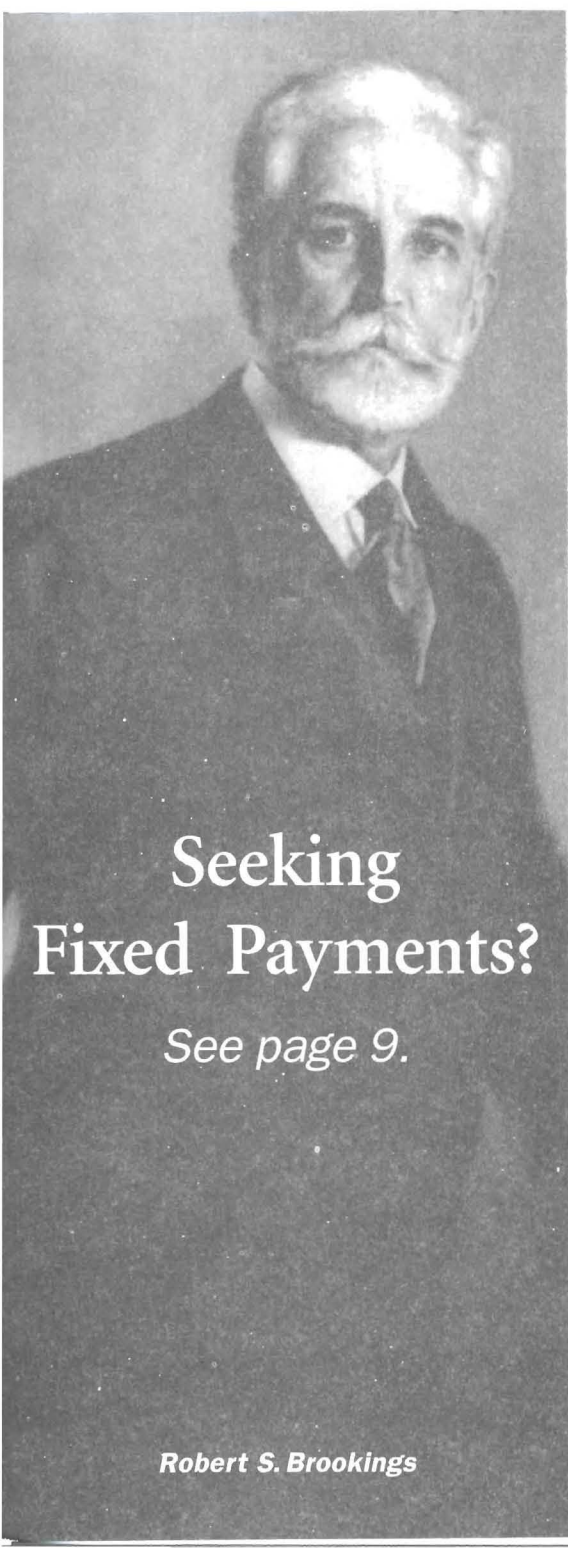
Koji Shimizu, LA 89, and Eri Inoue were married on May 16, 2005, in Nara, Japan. Afterward, they went to California for their honeymoon and a reunion with friends including several University alumni. Koji has been one of the 100 most-successful management consultants in Japan, and his recent client companies include Toyota Tsusho Co., one of the 10 biggest trading companies in the world; and Apple, which develops, makes, and sells iPods.

Janni Lee Simner, LA 89, LA 89, had her fourth middle-grade novel, *Secret of the Three Treasures*, published (Holiday House, 2006). She also recently had short stories included in the anthology *Crossroads and Other Tales of Valdemar* and in the magazine *Say ... Have You Heard This One?* Web site: www.simner.com



Laura Meckler, LA 90, and Paul Brodsky were married in July 2005 near Washington, D.C. In May 2005, Meckler joined the *Wall Street Journal* as a staff writer in the newspaper's Washington, D.C., bureau. The move came after she returned from a yearlong Nieman Fellowship at Harvard University in Cambridge, Mass., a program that brings journalists to campus for a year of study and reflection. (She says, "I did all my homework the night before it was due, just like in college.") She is involved with Washington University, serving on the board of directors of the nonprofit corporation that now publishes *Student Life*. E-mail: lmeckler@gmail.com

Christine Orich, EN 90, a partner in the Indianapolis-based law firm of Bose McKinney & Evans, was a keynote speaker at



Seeking Fixed Payments?

See page 9.

Robert S. Brookings

Fixed Payments for Life

***The Washington
University
Charitable
Gift Annuity,
see page 9***



Recognizing the Importance of Planned Gifts
Washington University in St. Louis

the fall reception of the Society of Women Engineers on Oct. 6, 2005.

Andrew L.W. Raimist, GA 90, principal of Raimist Architecture in St. Louis, authored *Architectural Ruminations*.

Libby (Roberts) Holah, LA 91, GA 96, and her husband, **Gregory "Greg" Holah**, GA 95, announce the birth of Violet, who joins her sister, Olivia, 4. The family resides in Portland, Ore., where Libby and Greg are architects. Libby works for a local architecture firm, and Greg has his own firm, Holah Design + Architecture (www.holahdesign.com). E-mail: holahfamily@msn.com

Catherine (Schorr) Ivey, GB 91, and husband, John, announce the birth of David Thomas on Aug. 15, 2005. He joins his siblings—Jessica, 5, and Alex, 2. The family resides in Henderson, Nev.

Michael J. Pfeifer, LA 91, published a book, *Rough Justice: Lynching and American Society, 1874–1947* (University of Illinois Press, 2004). The book, dedicated to the late Rowland Berthoff, a University faculty member, was cited on the floor of the U.S. Senate by Sen. Mary Landrieu, D-La., as she introduced Senate Resolution 39, "Apologizing to Lynching Victims and Their Descendants." Pfeifer is working on his next book, which analyzes the origins of lynching across regions of the United States.

Aleta (Bryant) Stampley, FA (advertising design and illustration) 91, now, as a vice president and the southwest regional market manager for Bank of America, is responsible for managing community development programs and activities in north Texas and

Oklahoma. Devoting personal time to many community groups, she recently received the She Knows Where She's Going award from Girls, Inc. Stampley, her husband, and their five children reside in McKinney, Texas, near Dallas.

Robert S. Tobias, BU 91, and his wife, Melanie, announce the birth of their second daughter, Raeyna Sadie Tobias, born July 25, 2005. She joins her sister, Sophia Ilana Rae Tobias, 3. The family resides in New Albany, Ohio, a suburb of Columbus. Robert was recently promoted to senior assistant city prosecutor in the Columbus City Attorney's Office, and Melanie is an assistant city prosecutor specializing in domestic-violence cases. E-mail: rstobias@columbus.gov

Lori Wolf, LA 91, LW 94, a partner at Cole, Schotz, Meisel,

Forman & Leonard law firm in Hackensack, N.J., was a recipient of the Bergen County Bar Foundation's 2005 Community Service Award. Wolf has co-chaired the firm's community outreach committee since its inception in 2003, and under her direction the firm's outreach efforts have grown to an ongoing initiative involving more than 10 activities per year.

Jay Byunn, EN 92, and his wife, Stella, announce the birth of Tobias Kwongsun on Sept. 11, 2005. The family resides in the Seattle area, where Jay is project planner for the Boeing Company. E-mail: jaybyunn@hotmail.com

Stephanie Erber, LA 92, and her husband, Andrew, announce the birth of Eli on April 4, 2005.

WASHINGTON PROFILE

James M. McKelvey, Jr., A.B. '87, B.S. '87

Glass Art Studio Hot in St. Louis

Jim McKelvey, A.B./B.S. '87, has a passion for glass.

"I love it," he says. "It's a very difficult medium to work with. You can't touch it. If you want it to move, you have to get it hot. Yet when it gets hot, it loses its form and starts to fall to the floor. You're constantly striking this balance between being able to shape the substance and being able to control it.

"And it's got neat mechanical properties," he continues. "It glows; it refracts light; it cracks. It has what are called dichroic properties, where it reflects a different light than it transmits. It's just really fascinating stuff."

These days McKelvey is sharing his passion for glass with the students and volunteers at Third Degree Glass Factory, the St. Louis-based glass studio he co-founded with glass artist Doug Auer in 2002. In June 2006, he will share his passion with an international audience of glass artists when Third Degree—and the St. Louis community—hosts the international Glass Art Society conference, which McKelvey characterizes as "the

largest gathering of glass artists, probably ever."

Running a studio at the forefront of the art glass world is not a straightforward path for someone whose majors at Washington University were in economics and computer science, and who spent his junior year at the London School of Economics. For McKelvey, it began when he took a class in the art school during his senior year. "I'd finished the majority of my heavy course work by then, so I spent a lot of time in the glass studio." He also worked there as a teaching assistant.

After graduating, McKelvey claims that he quickly got "very serious" about glass and became a glassblower largely "out of my need to eat." He spent several years creating glass pieces and starting a variety of business ventures, which proved lucrative.

Enter Doug Auer. Some University students invited Jim McKelvey to give a guest lecture to their glass class in 2002, and Auer was then running the University program. The day McKelvey came to the glass studio, everything was

ready, and Auer had even hired an assistant for McKelvey.

"I was struck by the fact that this man had anticipated every need I would possibly have," McKelvey recalls.

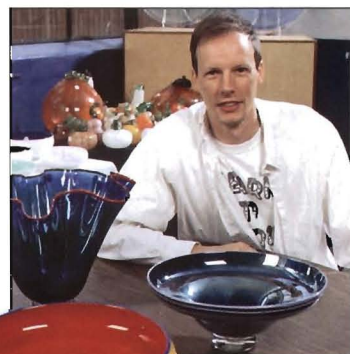
When the two had lunch after class, they talked about the lack of a decent glass school in the Midwest. Over nothing more than a handshake, they agreed to build a studio with McKelvey putting up the money and Auer putting in the time.

"So now we have neither, but we have Third Degree," McKelvey quips.

McKelvey and Auer found a vacant building in the 5200 block of Delmar with a "4 Sale" sign. The building was full of trash and, because of its former use as a service station, had underground petroleum storage tanks. McKelvey's banker, his accountant, and an environmental attorney he consulted, all advised him not to buy it.

He bought it anyway, reasoning that, "Here are three professions that know nothing about risk."

But he then realized he'd have to tell them he bought



Glass artist Jim McKelvey is the co-owner of Third Degree Glass Factory in St. Louis.

the building (after having the underground tanks removed from the property). McKelvey thought: "You know? After my banker finds out what I've done, she's going to give me the third degree," so he named the holding company that purchased the property "Third Degree."

Third Degree teaches glassblowing to about 60 Washington University students and about 200 people from the St. Louis community. Much to McKelvey and Auer's surprise, it has also become a popular venue for a variety of parties and events, including wedding receptions.

And in the spring, it will be the focus of activities for the best glass artists throughout the world. —Mary Ellen Benson

He joins his brother, Isaac, 3. The family recently relocated from New York to Cambridge, Mass., where Stephanie is a clinical psychologist in private practice.

Col. **J.A. Hall**, GR 92, HA 92, recently moved to the U.S. Air Force Surgeon General's Modernization Directorate as chief of the IM/IT Division.

Patricia Jun Hsieh, LA 92, and **Chyi-Song Hsieh**, MD 96, GM 96, announce the birth of Lillian Yue-Jin Hsieh on Oct. 11, 2005. She joins her brother, Joel, 5, and her sister, Allison, 3. After nine memorable years in Seattle, the family has moved back to St. Louis for Chyi's job. E-mail: patycake@alum.wustl.edu

Nick Santora, LA 92, is writing and producing the new hit drama *Prison Break* for FOX Broadcasting Company. He was executive producer for season two of *Beauty and the Geek*, recently finished for the WB Television Network. Santora resides in Los Angeles with his wife, Janine, and daughter, Sophie, 2. E-mail: nrsantora@earthlink.net

Jonathan Wolf, BU 92, is married to Liz Barrott Wolf and has three stepchildren—Tyler, Mackenzie, and Connor. The family resides in Cincinnati, where Jonathan is president of the Zero Company, which performs all types of roofing, roof maintenance, and architectural sheet metal work in the commercial, residential, and industrial market places. It is a division of TectaAmerica. E-mail: jwolf@zerocoroofting.com

Julia Friedman, FA 93, at her gallery in New York City, presented *Here Like Everywhere*, new drawings by Katy Fischer, in October 2005. As a special holiday exhibition in November–December 2005, the gallery presented *THE GIFT wrap/set/boutique*, by Alejandro Diaz, Feral Childe, Christine Hill, Derek Sullivan, Vexed Generation, and Judy Werthein. It was organized by Ingrid Chu for RED-I Projects. As a special component of the exhibition, the public was invited to borrow unique clothing from Feral Childe's *Holiday Lending Library*. E-mail: info@juliafriedman.com

Peter Froehlich, LA 93, LA 93, earned an M.B.A. degree from the University of Chicago through its Graduate School of Business. Now, he is a stock analyst covering the commercial bank space for Piper Jaffray & Co., in New York City. E-mail: peter.a.froehlich@pic.com

Hannah M. Gilk, LA 93, has moved back to St. Louis after residing on the East Coast and working in Asia. Now, she is program manager for the Institute for Family Medicine, a nonprofit organization providing health-care

services to the underserved of the St. Louis region.

Andrew David Kessler, LA 93, resides in Fairfax, Va., with his wife, Aimee. He is director of government relations for NAADAC, the Association for Addiction Professionals (www.naadac.org), lobbying for addiction research and support for addiction counselors.

Jackie (Hoffman) Koehler, LA 93, and her husband, Scott, announce the birth of their first child, Jenna Evelyn, on June 28, 2005. The Koehlers reside in the Philadelphia suburbs. E-mail: jhoffman526@hotmail.com

David M. Lengyel, GR 93, recently was assigned as the risk-management officer for the Exploration Systems Mission Directorate at NASA headquarters in Washington, D.C. E-mail: dlengyel@hq.nasa.gov

Chandrika "Chandu" (Yalavarthi) Patel, LA 93, MD 98, and **Mihir Patel**, LA 93, MD 98, announce the birth of their daughter, Sia Saheli Patel, on May 5, 2005. She joins her brother, Sahvan, 3. Mihir has an orthopedic surgery practice, and Chandu is a radiation oncologist. The family resides in Indianapolis.

Kelly (Hardy) Twigger, LA 93, an attorney in Milwaukee, where she resides, has been named a partner of law firm Quarles & Brady, which has offices in Milwaukee and five other U.S. cities. She focuses her practice on defending corporate clients in class-action litigation and complex litigation, and advising and defending clients in matters involving the Uniform Commercial Code.

Paul D. Anderson, EN 94, and his wife, Andrea, announce the birth of their first child, Natalie Elizabeth Anderson, on June 14, 2005. Paul is an environmental engineer and senior project manager with Camp Dresser & McKee in Kansas City, Mo., and Andrea is a family-practice physician. E-mail: pdake@yahoo.com

Arnor Bieltvedt, GF 94, a resident of Winnetka, Ill., where he is an artist, art teacher, and head of the art department at North Shore Country Day School, was featured in the winter 2005 issue of *Nordic Reach*, a nationally distributed, quarterly magazine focusing on Scandinavian life and culture. The article, "Bright Colors from a Cold Country," includes one of Bieltvedt's landscape paintings based on his childhood memories of Iceland. In addition, Bieltvedt participated in an art exhibition titled *Holiday Treasures V* at the Anne Loucks Gallery in Glencoe, Ill., from Nov. 26, 2005, through Jan. 12, 2006.

Jodi (Samitt) Bronitt, BU 94, and her husband, Marc, announce the birth of their first child, Joshua Wade, on July 25, 2005. The family

resides in Atlanta, where Jodi is manager of financial reporting and systems for Cox Enterprises.

Eve (Loren) Goldstein, LA 94, and **Cary Goldstein**, BU 95, announce the birth of Andrew Lewis on Sept. 10, 2005. He joins his sister, Sara, 2. The family resides in New Rochelle, N.Y. Cary is a vice president in prime services technology at Merrill Lynch, and Eve is a child psychologist, working part time at a private practice in Scarsdale, N.Y.

Danielle (Zeitlen) Hughes, FA 94, and her husband, Dave, announce the birth of Tyler Hughes on Aug. 19, 2005, in New York City. The family resides in Forest Hills, N.Y.

Samuel Moyn, LA 94, assistant professor of history at Columbia University in New York City, recently had his *Origins of the Other: Emmanuel Levinas between Revelation and Ethics* (Cornell University Press, 2005) published. It has been called a major contribution to the study of intellectual history.

Indhu Subramanian, LA 94, and her husband, Taft Bhuket, are finishing fellowships at the University of Michigan in Ann Arbor. They and their son, Rohan, 1, plan to move in summer 2006 to the Bay Area, where Subramanian will be an assistant professor in pulmonary and critical care medicine and Bhuket will be a gastroenterologist. E-mail: indhusx@yahoo.com

Andrea Fuhrman, GF 95, exhibited her work at Quicksilver Mine Company Gallery in Forestville, Calif., in January 2006 and at Pence Gallery in Davis, Calif., in March 2006. It will be exhibited at the Carnegie Art Center in North Tonawanda, N.Y., in August 2006 and will be featured in the May/June 2006 issue of *Somerset Studio Magazine*. Her work *Globe Trot* recently was juried into the Curt Teich Postcard Biannual Competition and Exhibition. She plans to open her own fine art gallery in 2006–07 in Abilene, Kan., which will be a live/work space. Web site: www.andreafulhrmanfineart.com

Michelle (Wilck) Goldman, LA 95, and her husband, Harris, announce the birth of Julia Lauren on June 21, 2004. The family resides in Springfield, N.J. Michelle, after practicing law at a New York City firm for five years, now is employment counsel for Verizon Wireless in Bedminster, N.J. E-mail: michelle.goldman@comcast.net

J. Nicholas Laneman, EN 95, EN 95, and his wife, Mishie, announce the birth of Nathan Cole Laneman on March 23, 2005. The family has relocated from Massachusetts to South Bend, Ind., where Nick is an assistant professor of electrical engineering at the University of Notre Dame.

Tami Z. Morrissey, LW 95, and her husband, Bill Morrissey, have opened their second restaurant in the St. Louis area. They are co-owners of Carondelet Grill in Clayton, Mo., and are owners of Morrisseys in O'Fallon, Mo. They reside in O'Fallon with their four children—Carson, 7; Kennedy, 5; Payton, 2; and Drake, 1.

Katherine "Katie" Pieper White, FA 95, and her husband, John, announce the birth of John Cooper White on Sept. 8, 2005. Cooper joins his brother, Parker, 2. E-mail: katiepwhite@tampabay.rr.com

Jill (Howell) Brown, LA 96, and her husband, David, announce the birth of their first child, Brett Arthur, on May 12, 2005. The family resides in Tampa.

Laurin K. Mayer, LA 96, is working with **Jordan (Katz) Maher**, LA 96, on a "great new business venture. We've launched two fabulous companies—www.babblingbananas.com and www.momsinthecity.ca."

Jessica (Schutzbank) Miller, LA 96, and her husband, Jason, announce the birth of Ava Hailey Miller on Aug. 18, 2005. The family resides in Houston. Jessica is an attending physician in the Department of Physical Medicine and Rehabilitation at Baylor College of Medicine in Houston, and Jason is a clinical research fellow at the University of Texas in the Department of Dermatology. E-mail: jlschutz@aol.com

Ryan Rhea, LA 96, GR 01, an editor in the University's publications office, created a documentary movie, *American Goth*, which was screened and warmly received as part of the St. Louis International Film Festival in November 2005. The film, Rhea's first, provides an in-depth examination of Goth culture, which often is typified by black clothes and an interest in macabre music, literature, and culture. The feature asks if Goth culture poses a threat to society or is simply an alternative lifestyle.

Melanie (Vail) Staus, LA 96, and her husband, Justin, announce the birth of their first child, Tanner Cohen, on March 31, 2005. The family resides in Roswell, Ga.

Elissa (Pearlman) Taub, LA 96, and **Marc Taub**, LA 97, announce the birth of their first child, Seth Alexander, on Jan. 14, 2005. Elissa is an associate in the Miami office of White & Case, a global law firm handling sophisticated corporate and financial transactions and complex dispute resolution proceedings. Marc is an instructor of optometry at Nova Southeastern University in Davie, Fla. The Taubs reside in Weston, Fla.

Jillian (Leviton) Wiseman, BU 96, and her husband, Dan,

announce the birth of Evie Rose and Zachary Jonah on Sept. 10, 2005. The family resides near Boston. E-mail: jwiseman@trinicomp.com

Marianna Kimiatek, LA 97 (architecture), and **Thomas "TJ" Silverman**, LA 97, were married March 15, 2002. Marianna, a clinical research coordinator at Massachusetts General Hospital in Boston, is applying to medical school in the New England area. TJ, who earned a Master of Business Administration degree and a Master of Science (finance) degree—both from Bentley College in Waltham, Mass.—is a research analyst at Dutchess, a private equity hedge fund in Boston. E-mail: stockcharts@gmail.com

Aimee Zaiger Sprung, LA 97, and her husband, Eric, announce

the birth of their first child, Alex Jordan Sprung, on Aug. 18, 2005. The Sprungs reside in Boston. E-mail: azaiger@hotmail.com

Elizabeth (Stolze) Adams, LA 98, recently was admitted to the Tennessee State Bar Association. She and her husband, George, who both previously practiced law in Louisiana, now reside in Nashville, Tenn.

Elizabeth Bagby, LA 98, a founding member of Sansculottes Theater Company, is the playwright and composer of *Practical Anatomy*, which premiered in the company's production at the Storefront Theater in Chicago in January and February 2006. The musical tells the story of William Burke and William Hare, who murdered some 16 persons between October 1828 and October 1829 in order to sell the

bodies to the Edinburgh College of Surgeons. It uses a combination of contemporary songs of Robert Burns, new writing, and found language, as it deals with themes of medicine, profit, class, prejudice, and ethics. Sansculottes, which aims to "catch the world with its pants down," is the youngest Chicago theater company ever to be selected by the Chicago Department of Cultural Affairs to produce in the Storefront Theater. Web site: www.sansculottes.org

Rachel (Harrison) Casiday, LA 98, and **Augustine Michael Casiday**, GR 99, announce the birth of Anthony Joseph Casiday, on June 9, 2004. He joins his sisters—Helen, 5, and Beata, 3. Rachel has submitted her dissertation for a doctoral degree in medical anthropology from Durham University in the United Kingdom.

Nancy Franklin, LA 98, and Joel Pargot, who graduated in 1997 from Grinnell (Iowa) College, were married Sept. 4, 2005, at a winery in Sonoma, Calif. The wedding party and guests included University alumni. The Pargots reside in San Francisco, where Nancy is a financial representative with Fidelity Investments and Joel works for CNET.com.

Lura DiAntonio Godfrey, GA 98, who is a licensed architect, opened her own design firm, LDG Design, in Decatur, Ga., in April 2005. She is focusing on single-family residential design.

WASHINGTON PROFILE

Amy Chan, B.S.B.A. '98

Learning Can Be Fun, in the Tub!

Amy Chan has revolutionized bath time. The old Ernie® sponge on the side of the tub and the bath blocks that have been used one too many times are outdated to Chan, who believes that bath time can provide a real, enjoyable learning experience for children. The idea for her company, Simple Memory Art (SMART), which operates by the motto "soak up some knowledge," came to Chan after spending a lot of time with her nieces and nephews. She recognized that her sister's children were the least happy and the most troublesome while in the bathtub. With the hope that she could help mothers everywhere, Chan created educationally themed shower curtains to entertain and educate children while splashing around in the tub.

"I thought the shower curtain would be a great natural canvas for design," she explains, "a place to simplify concepts to children." After conducting focus groups, Chan concluded that science themes would be the most well-received. Wanting her first design to be non-gender

specific and interesting to children and adults alike, Chan settled on the solar system.

Chan, B.S.B.A. '98, traces her influences to multiple sources. Her love for business and art emerged while attending Washington University. Earning a business degree and a minor in art, she developed many of the tools vital for starting her own company. Chan believes her entrepreneurial family, though, has been her biggest influence. "They gave me the guts to do this," Chan asserts.

Growing up, Chan's parents imported products from Asia and distributed them wholesale throughout the United States. "Through their

business, I learned a lot about globalization," she says.

Later, through a Washington University study-abroad program to Hong Kong, Chan had the opportunity to learn firsthand about globalization, and she was able to see her family's business from the other side. Having an experience in another country, especially an international capital like Hong Kong, gave Chan a huge foundation for going forward. It was this experience that has led her to outsource her own product to Asia.

Occupying many roles for her company, everything from design and manufacturing to Web-site construction, Chan muses, "I'm learning as I go."

After earning an M.B.A. from New York University and working on new product development for PriceWaterhousecoopers, Chan asserts: "For them, I was on the consulting side of business. From there, I wanted to try out the other side."

Currently Chan's curtains, which are made from environmentally friendly ethylene vinyl acetate (EVA), have five different designs—the solar

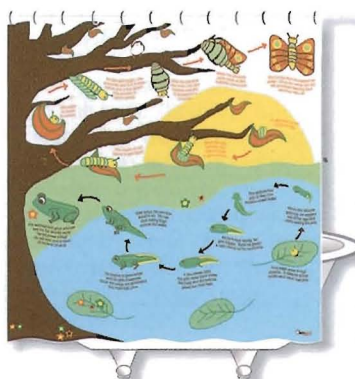
Amy Chan is founder of Simple Memory Art, which creates shower curtains with fun themes for learning.

system, the weather, dinosaurs, the periodic table, and metamorphosis (lower left). Each design, with the exception of the periodic table, features their mascot, Poppi the Penguin®. "It's fun to have a mascot; the children have fun finding Poppi on each one," Chan says. Her designs target children 7–14 years old, although the periodic table, Chan's newest design, is meant for a high school and college audience.

Her shower curtains can be found online at www.simple-memoryart.com, plus she has agreements with stores in 21 states. Over the next year, Chan hopes to expand that number to 50 and to create other bathroom accessories and possibly kitchenware.

For now, though, Chan's focus is on the curtains. Each design that she has created is meant to maximize the fun in learning. "I love feeling like I am making a small difference in a child's upbringing."

—Jeanie Zwick, Class of '06



Lindsey B. James, LA 98, graduated in May 2005 from the School of Medicine at Louisiana State University in New Orleans. She is completing a residency in internal medicine in Baton Rouge.

Robin (Einbinder) Kaplan, LA 98, and her husband, **Jason Kaplan**, LA 97, announce the birth of their first child, Benjamin William, on July 15, 2005. The family resides in San Diego, where Jason is a broker and in-house counsel for a commercial real estate investment firm and Robin manages an education program at the San Diego Museum of Art.

Heather Keintz, BU 98, and **Gregg Baillie**, BU 98, were married in New York, on Long Island's north fork, on June 25, 2005. Guests included many University alumni. The Baillies reside in Hoboken, N.J. Heather is a consultant at Interbrand, a brand consulting firm in New York City, and Gregg is a commercial real estate broker at Cushman & Wakefield in New Jersey.

Juliane (Okubo) Negron, LA 98, and her husband, **Javier Negron**, announce the birth of their first child, Sebastian Kiyoshi Ivan Negron on Oct. 31, 2003. Juliane and Javier were married on Dec. 14, 2002, in Miami, Fla. Javier, a doctoral student in pediatric neuropsychology, is completing a pre-doctoral internship at the Children's Hospital of Denver, and Juliane, a critical-care nurse, is a traveling nurse in Denver.

Gila (Marcus) Robinson, LA 98, and her husband, **Randy**, announce the birth of their second son, **Arieh Lev**, on June 10, 2005. The family continues to reside in Philadelphia. E-mail: rg_robinson@hotmail.com

Laura Weidt, LA 98, recently finished a pediatrics residency at Children's Hospital within University Hospital in Columbia, Mo., part of Missouri University Health Care. She has joined a pediatrics group in private practice in Columbia. She says, "Besides taking care of the kiddos, I enjoy spending most of my spare time with my boyfriend and best friend, Dan."

Jonté Greer, EN 99, and his wife, **Tomika**, announce the birth of their daughter, **Jayla Tamia Greer**, on Aug. 24, 2005. The Greers reside near Houston, where Tomika is an IT trainer at the University of Houston-Downtown and Jonté is a production engineer at Air Products and Chemicals. He says, "Everyone is doing well, and we feel so blessed to have Jayla in our lives."

Christina "Chrissi" Franz Harmon, LA 99, OT 01, and **Daniel Harmon**, EN 98, announce the birth of **Kaelyn Marie** on Aug. 23, 2005. Dan is a senior product marketing manager for Hill Rom Workflow Solutions, and Chrissi is an occupational therapist and ergonomic specialist at Wake Forest University Baptist Medical Center in Winston-Salem, N.C. The Harmones reside in Cary, N.C.

Heather Jagher, LA 99, and her husband, **Eric Jagher**, BU 99, announce the birth of **Zoe Maya** on Aug. 24, 2005. The family resides in Chicago, where Eric works for Deloitte and Heather works for Leo Burnett Advertising agency.

Lori A. (Thomas) Khazen, LA 99, who has been assistant coach and strength-and-conditioning coach for the University's women's soccer team for four years, recently began her own business, **Khazen AthletiKare**, in St. Louis.

The company develops and presents injury-prevention programs for youth, adult, and senior athletes. It also provides athletic training event coverage and educational programs on injury prevention and wellness topics. She and her husband, **Pete Khazen**, EN 99, reside in Maryland Heights. E-mail: lakhazen@athletickare.com

Laurin Marin, LA 99, and her husband, **Mark Kranis**, announce the birth of **Abigail Chloe Kranis** on Sept. 9, 2005. The family resides in Massachusetts, where Laurie and Mark are completing internal medicine residencies at St. Vincent Hospital in Worcester.

Julie Markwardt, EN 99, and **Jeff Miller** were married on April 9, 2005, in the University's Graham Chapel. The wedding party and guests included many University alumni. The Millers reside in St. Louis, where Julie is an environmental health and safety specialist with Bausch & Lomb and Jeff is a field service engineer with GE Fanuc. E-mail: julie@stlmiller.com

Satish N. Nadig, LA 99, earned an M.D. degree from the Medical University of South Carolina in Charleston in 2004. He completed two years of residency at Beth Israel Deaconess Medical Center, a teaching hospital of Harvard University Medical School in Boston. Now, he is conducting research at Oxford (England) University in the United Kingdom and working toward a Ph.D. degree. He plans to return to Harvard in 2008 to complete the surgery residency.

Claire E. Najim, LA 99, and **Matthew Smelley**, were married on June 4, 2005, in Wichita. Najim earned an M.D. degree from the University of Chicago through its

Pritzker School of Medicine; she is a third-year pediatrics resident at the University of Chicago Children's Hospital. Smelley is a fellow in cardiology at the University of Chicago Hospitals. The couple resides in Chicago.

Phyleccia Reed, LW 99, and **Brian A. Cole** were married in Maui, Hawaii, on July 6, 2005. The Coles and their children, **Damani** and **Sean Michael**, reside in Swansea, Ill. Phyleccia is an associate with the law firm of Tueth, Keeney, Cooper, Mohan & Jackstadt in Chesterfield, Mo., and Brian is an account executive with Johnson & Johnson.

Niazuddin "Niaz" Syed, GB 99, and **Dilnaz Bano** were married on May 21, 2005, in Toronto. Guests included several Olin School of Business classmates. The Syeds reside in Minneapolis. E-mail: niazsyed@hotmail.com



Nicholas Burkhardt, EN 00, earned a Master of Science in Electrical Engineering degree from Columbia University in New York City in December 2004. During his studies, which focused on wireless communications, he continued to work full time as a communications engineer. In summer 2005, he moved to the Boston area, where he now works as a senior satellite communications engineer for the MITRE Corporation. Recently, he and **Joan Hu**, LA (biochemistry and English) 01, eloped. Joan earned an M.D. degree from Harvard (University) Medical School in Boston in June 2005 and has started a residency in general surgery at Massachusetts General Hospital in Boston. The couple resides in Medford, Mass., near Boston.

Jennifer Campbell, LA 00, and **Sam Allison** were married on May 28, 2005, in St. Louis. The wedding party and guests included many University alumni. Campbell-Allison expects to earn a master's degree in environmental science from Indiana University in Bloomington, through its School for Public and Environmental Affairs, in 2006. Her husband is a consultant in community and economic development.

Kevin Dym, LA 00, of San Antonio, and **Dana Elise Lipp** of Dallas were married May 29, 2005, at Temple Emanu-el in Dallas. The couple resides in Dallas, where they both practice law.

Rachel K. Fedje, LA 00, began her career as a veterinarian in July 2005 in Issaquah, Wash., a suburb of Seattle. After graduating from the University, she attended and

ClassMates

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graduated from Iowa State University in Ames through its College of Veterinary Medicine in 2004. She completed an additional one-year internship in small animals in Detroit. E-mail: rkfedje@yahoo.com

Carrie Gick, LA 00, and **J. Blue Davis** were married on Aug. 27, 2005. The wedding party and guests included many University alumni. The couple resides in Indianapolis, where Carrie is a resident in the Department of Dermatology in the School of Medicine at Indiana University (IU). Blue is a recent graduate of IU's School of Dentistry.

Janis Stoll, LA 00, and **Nathan Stitzel**, LA 98, were married on Sept. 17, 2005, in Chicago's Grant Park. Guests included several alumni. Janis is a resident in internal medicine and pediatrics at the University of Chicago, and

Nathan is finishing an M.D./Ph.D. degree at the University of Illinois in Chicago.

Rupal (Lakhani) Yu, LA 00, and **Andrew Yu**, LA 99, announce the birth of their son, Aanand Lianh-Tzuh Yu, on July 24, 2005. (See photos at www.babyyu.net.) Rupal and Andrew were married on May 22, 2004, in Charlotte, N.C. Guests included several University alumni. Rupal attends medical school at the University of North Carolina in Chapel Hill, and Andrew is taking a break in his career to be a full-time daddy.

Brian Burnett, GF 01, and **Soo Sunny Park**, former adjunct lecturer for the School of Art, had their work shown in an exhibition, *Strip Minds*, at the University of Maine in Farmington Art Gallery in November 2005.

Christopher Ferguson, BU 01, recently founded the commercial real estate firm Madison-LaSalle Advisory Group. Based in Chicago, he and his partners work exclusively with small- to medium-sized office users. Ferguson formerly was employed at the Beitler Company and Shorenshtein Realty Services.

Crystal Novosel Johnson, LA 01, who earned a J.D. degree from the University of Notre Dame (Ind.) in 2005, has joined Wooden & McLaughlin, a mid-sized Indianapolis law firm. She practices in the firm's real estate and environmental practice areas.

Michelle Allen Purdy, LA 01, GR 03, has begun a Ph.D. program in educational studies at Emory University in Atlanta. For two years prior, she was associate head of the middle school at St. Andrew's Episcopal School in Jackson, Miss.,

the same school she attended at levels K-12. E-mail: mapurdy08@hotmail.com

Shulamit "Shuli" Yoskowitz, LA 01, and **Adam Herbert**, EN 01, were married on Aug. 21, 2005, in Somerset, N.J. The wedding party and guests included many friends from the University. The Herberts reside in Brookline, Mass. Adam is a mechanical engineer at Asahi-America, and Shuli attends business school at Boston College.

Amy Crystal, LA 02, and **Joseph "Joey" Regen**, LA 02, were married on Sept. 4, 2005, in Roslyn, N.Y. Amy is in her fourth year at the Harvard (University) School of Dental Medicine in Boston, and Joey, who earned a J.D. degree from Boston University law school in May 2005, is a law clerk in the Probate and Family Court in Boston. The Regens reside in Brookline, Mass.

WASHINGTON PROFILE

Barth Holohan, M.B.A. '01, M.S.W. '01

Helping Older Adults Live Independently

Almost back to when Barth Holohan was a child, he knew he had a passion for helping older adults.

Through his lawn-care business, Holohan, then 12, would visit with homeowners after he worked on their yards. Then in high school, he began volunteering at nursing homes, something he continued for years. Now as president of Home Helpers, Holohan provides seniors and those recovering from illness or injury with extra help to manage their everyday lives, so they can stay in their home.

"When I was young, some of the clients I cut grass for were older adults, and I always enjoyed spending time with them after my work was done," Holohan says. "During high school, I worked at a nursing home, and, at the time, it made me sad, because I realized that a lot of people there didn't need to be in a nursing home; they just didn't have any other option."

Holohan continued to volunteer at nursing homes throughout college, while getting his undergraduate

degree in business from the University of Kentucky. Then he continued to develop his interests by working for Ernst & Young in the Management and Health-Care Consulting divisions.

"As I pursued my health-care interest further, I realized that I wanted to get more into helping the people instead of helping the companies that help the people," Holohan says. "That is why I quit Ernst & Young and went to Washington U. to get my graduate degree."

Holohan earned dual master's degrees in business and in social work with an emphasis in gerontology in 2001, and he says his studies helped him channel his idea.

"My education at the University helped me focus on what I really wanted to do," he says. "Before, I knew I wanted to help seniors, but there are so many options. Through my classes, and through my internships and practicum, I was able to formalize an idea about what part of the market most interested me."

While there are about 300 home health-care businesses in the St. Louis area, Holohan says his company, Home Helpers, is different. He says his business is based on a social work model: one that sends a trained social worker to complete a home consultation and that offers a trained social worker to follow the progress of every client.

"We're able to help the patient and their families as care needs increase or decrease," Holohan says. "So if home care is not the best option, then we will help them find another, more suitable option. We try to provide a more holistic approach to care, because home care is not the only option."

Home Helpers offers everything from skilled nurses and nurse's aids for more advanced care, to people who act as companions and run client errands.

"We try to help people live independently for as long as they can," Holohan says. "That is the whole foundation of the company. That's our mission."



Barth Holohan is president of Home Helpers, which provides seniors and those recovering from illness or injury with extra help to manage their everyday lives.

Holohan's company, which he founded in early 2002, continues to grow and was named a finalist in the 2005 Ernst & Young Entrepreneur of the Year Awards for the Midwest Region.

And while Holohan's busy schedule does not allow him to visit with the older adults as much as he likes, he still stays in touch with them.

After all, it is not only his business, it's his passion.

—Carl Jacobs

Scott Eden, GR (writing program) '02, has published his first book, *Touchdown Jesus: Faith and Fandom at Notre Dame* (Simon & Schuster, 2005). Eden, who graduated from the University of Notre Dame (Ind.) in 1997, gives a non-fiction look at the Fighting Irish's 2004 football season, the seeming boiling point for a team and university frustrated by years without a national championship and faced with a harsh losing streak. Eden also attends to the school itself—steeped in religious tradition. The words "Touchdown Jesus" in the book's title, represent the interpretation of Christ's upraised hands in the 14-story mosaic at the school library.

Amy Beth Hill, LA '02, traveled to Guatemala for several months in late 2005.

Elise Kearns, PT '02, and Christopher Watson were married July 16, 2005, in Lexington, Ky. The couple resides in Phoenix, where Elise is a licensed physical therapist and Christopher is vice president of Succeed Corporation.

Brandi (Newson) Moses, GB '02, and her husband, Chris, announce the birth of Clarke Miller Moses on Oct. 15, 2005. After six months of maternity leave, Brandi will return to her role as brand manager for the Juicy Fruit and Hubba Bubba brands with the Wrigley Company, Pacific. The family resides in Sydney, Australia. E-mail: bcmoses@hotmail.com

Jenny Pittam, FA (print-making) '02, was promoted from lieutenant to captain in the U.S. Army in September 2005. Also in September she won two awards in an Army-wide art contest. For her *Innsbruck Train Lines*, she won the first-place prize of \$300, and, for her *Atrium Stairs*, she won the second-place prize of \$200. Pittam is based in Mannheim, Germany.

Nickole Richert, LA '02, and John Beseau were married on June 25, 2005, in St. Louis. The wedding party and guests included many alumni. The Beseaus reside in St. Louis, where Nickole teaches 5th grade and John is an attorney with Clayton law firm Klar, Izsak and Stenger. E-mail: nbeseau@yahoo.com

Joshua Shih, LA '02, began his studies in the Master of City & Regional Planning program at the University of Pennsylvania in Philadelphia in August 2005. E-mail: jshih@alum.wustl.edu

Scott Neuberger, BU '03, and **Josh Kowitz**, LA '04, took their business skills and ideas honed at UTrucking on the Washington University campus and parlayed them into Collegeboxes, a business operating on 35 campuses coast to coast. The company, which

provides college students with shipping and storage services for their belongings, is based in Boston.

Allison Oxley, LA '03, and **Mark Gister**, EN '03, were married on Sept. 4, 2005, in Des Moines, Iowa. Guests included many of their University friends. The couple resides in Los Angeles, where Allison, now Allison Oxley-Gister, is event coordinator and development associate at the Jewish Free Loan Association.

Angela Wong, LA '03, and Jackie "J.J." Kershaw Cooper, Jr., were married in Chapel Hill, N.C., on July 9, 2005. The couple met in Chapel Hill, where Angela is working on a Ph.D. degree in cognitive psychology at the University of North Carolina and J.J. is news editor for *Baseball America Magazine*. He is a 1994 graduate of the Journalism School of the University of Georgia in Athens, Ga. The Coopers reside in Durham, N.C.

Saba Choudhry, LA '04, was a finisher in the Marine Corps Marathon on Oct. 30, 2005, in Washington, D.C.

Bobbi Closser, SW '04, was chosen as one of 15 outstanding professionals nationwide to participate in the national program in the Pittsburgh Coro Center for Civic Leadership. She is completing the nine-month program, which is designed to train leaders in public affairs by providing experience in four public policy sectors.

Emily R. Reinhart, BU '04, who resides in Washington, D.C., is taking classes at Georgetown University and is working full time as a legal assistant at the law firm Skadden, Arps, Slate, Meagher & Flom.

Keegan V. Ripp, BU '04, is traveling the world.

Stephen Torri, SI '04, began study in the Ph.D. degree program in computer science at Auburn (Ala.) University in fall 2005.

Jonathan Eggert, GA '05, joined EDGE studio, an architecture firm in Pittsburgh, after his graduation in summer 2005.

Candice P. Holliday, LA '05, is working in the Student Government Office at the University of South Alabama in Mobile, while her twin sister attends that university's medical school. Holliday plans to attend law school in 2006.

Sergio Salmeron, LA '05, who moved to Washington, D.C., in summer 2004, now is program manager for the Hispanic College Fund, a national scholarship program for Hispanic students. Previously he worked on Capitol Hill for a congressman from Florida and as a project manager for a public relations company. Salmeron plans to earn a law degree and practice immigration and international law.

In Memoriam

1920s

Herman F. Easom, MD '27; Dec. '05
Mildred Meinhardt, LA '28; Feb. '05

1930s

Maurice B. Kranzberg, BU '31; Nov. '05
(Mr.) Joyce S. Pillsbury, EN '31; Dec. '05
J. Jerome Stanford, EN '31; Dec. '05
Jennell Hargate, FA '32; July '05
Anne (Ellenburg) Aron, SW '33; May '05
Elizabeth Arretta (Reel) Nicholas, LA '33; Dec. '05
James D. Simpson, Jr., BU '33; Aug. '05
Dorothy Carolyn (Herr) Gassman, LA '34; Nov. '05
James H. Guyton, EN '34; April '05
Winfield M. Homer, BU '34; Dec. '05
William G. Slonim, BU '34; Dec. '05
Virgil O. Wodicka, EN '34, GR '35; Dec. '05
Genevieve Dell (Adderly) Brackman, LA '35; Oct. '05
John E. Guignon, EN '35; Nov. '05
Pauline Hurlbut, LA '35; June '05
Kenneth A. Koerner, LA '35, MD '41; Nov. '05
Jane Ethel (Noel) Marshall, LA '35, GR '36; Nov. '05
Evert P. McKibben, LA '35; Oct. '05
Martha Siegmund, LA '35; July '05
Catherine A. Smith, LA '35, GR '48; Sept. '05
Harriet E. (Willert) Coil, LA '36; Oct. '05
Hope Lewis, NU '36; April '05
John S. Robinson, LA '36; Nov. '04
John A. Steinson, Jr., LA '36; Sept. '05
Eleanor S. Schelp, NU '37; Oct. '05
Leonard F. Vogt, BU '37; Oct. '05
Bernard Bressler, LA '38, MD '42; Nov. '05
Harold Garden, LA '38, GR '39; Nov. '05
Samuel R. Evans, EN '39; Jan. '06
John E. Helm, MD '39; Oct. '05
James H. Sido, EN '39; Dec. '05
Georgia A. Tomlinson, NU '39; Nov. '04

1940s

Elmer Cohen, LW '40; Dec. '05
Marjorie (McCarthy) Robins, OT '40; Nov. '05
Oliver W. Schneider, BU '40; Dec. '05
Walton B. Wall, Jr., MD '40; Oct. '05
Walter F. Anger, Sr., BU '41; Dec. '05
Meta Lieurance, LA '41; July '05
Carol Lindley, NU '41; Feb. '05

A. Katherine (Alberswerth) Spross, NU '41, NU '42; Dec. '05
Otto H. Fenner, LA '42; Nov. '05
Elizabeth C. Hoffman, UC '42, GR '46; Oct. '05
Samuel P. Ivins, LA '42, MD '45; Dec. '04
Ann Carter (See) Stith, LA '42; Nov. '05
Felecie Elene (Radiel) Blinn, NU '43; Sept. '05
Chris A. Lorenzen, EN '43; Dec. '05
Ethel Campbell (Voges) Hagedorn, LA '44; Nov. '05
Ralph B. McReynolds, DE '46; Sept. '05
Wanda L. (Loyd) Nicholson, NU '46; Aug. '05
Shirley Marion (Filbert) Gordon, OT '47; Dec. '05
Jack Ansehl, LA '48; Dec. '05
Donald L. Bartholic, BU '48; Dec. '05
Jean Brackney, BU '48; Jan. '05
Allen D. Broz, BU '48; Oct. '05
Louis Goldman, BU '48; Nov. '05
Andrew W. Hulme, MD '48; Jan. '05
Robert E. Kuenne, LA '48, GR '49; Nov. '05
Eleonor Woods (Bradley) Ringo, FA '48; Oct. '05
Phillip Burton Sachs, LW '48, UC '90; Oct. '05
Gladys E. Thum, LA '48, GR '50; Oct. '05
Millard F. Vance, Sr., EN '48; Oct. '05
Charles Z. Bailen, BU '49; Dec. '05
Duane E. Cozart, LA '49; Oct. '05
Eugene C. Drewes, BU '49; Dec. '05
Frances (Tinkey) Grassi, FA '49; Nov. '05
Frederick M. Kinney, EN '49; Oct. '05
Paul E. Magoon, Jr., EN '49; June '05
John H. Martin, GR '49; Oct. '05
Iva M. Maskey, GR '49; Dec. '05
Theodore F. Sauer, EN '49; June '05
Leonard C. Sharn, FA '49; Dec. '05
Elizabeth Jane (Burton) Turner, SW '49; July '05

1950s

Robert C. Cliff, GR '50; Nov. '05
Herman D. Eden, SW '50; June '05
Channing W. Godbold, EN '50, SI '64, SI '72; Sept. '05
Burton G. Schulenburg, EN '50; Nov. '05
Robert H. Cavenah, BU '51; Dec. '05
George S. Haspiel, LA '51, GR '53; Oct. '05
David R. Mace, UC '51; Nov. '05
Jack N. Morgan, MD '51; Nov. '05
Shirley Rapp, NU '51; April '05
Allan E. Sloan, LA '51; Oct. '05
William E. Bartley III, EN '52, SI '55; Feb. '05
Chonnie C. Brown, NU '52; July '05

Patricia Ann (Clark) Cahill, LA 52; Nov. '05
 Sally Estelle (Fitter) Fivel, SW 52, SW 57; Nov. '05
 Kenneth L. Gregson, LA 52; Aug. '05
 Stanley W. Harris, SW 52; Oct. '05
 John Werner Hoefert, Sr., LW 52; Oct. '05
 James H. Mason, DE 52; Nov. '05
 Wilma Witte, NU 52; June '05
 Carole Jean (Emmons) Jung, LA 53; Dec. '05
 Elizabeth (Hosmer) Kramer, LA 53; Oct. '05
 Ann (Griesedieck) Morrissey, LA 53; Oct. '05
 Marilyn Lee (Vogt) Reisel, LA 53; Dec. '05
 Betty Lou (Nelson) Sorrel, NU 53; Oct. '05
 Mark N. Baskin, BU 54; Aug. '05
 Theodor F. Buss, EN 54; Oct. '05
 Lois (Brinkman) Kemper, UC 54; Oct. '05
 Madie (Boyette) Macklin, GR 54; Oct. '05
 Edward C. Gomes, Jr., BU 55, GB 68; Oct. '05
 James C. Peden, Jr., MD 55; Dec. '05
 William A. Clark, BU 56; Sept. '05
 Stephen B. Sheldon, FA 56; Oct. '05
 Virginia Eleanor (Nolte) Harrington, OT 57; Dec. '05
 Dorothy Lee (Patrick) Harris, LA 57, GR 70; Nov. '05
 Jack Kayes, MD 57; Oct. '05
 Robert M. Mitori, EN 58; Dec. '05
 Delores (Coleman) Riley, GR 58; Oct. '05
 Elizabeth Schofield, GR 58; July '05
 Laura Ann (Crowley) Johnson, BU 59; Dec. '05
 Edward J. Ofengand, GR 59; Dec. '04

1960s

Jeremiah D. Bresnahan, EN 60; Nov. '05
 Robert W. Glenn, BU 60; Nov. '05
 Richard A. Hanebrink, UC 60; Nov. '05
 Judith Burgess, LA 61; July '05
 Mary Elizabeth Biermann, LA 62; Oct. '05
 Michael S. Sher, LA 62; Oct. '05
 Frederick R. Bokerman, UC 63; Oct. '05
 Mrs. Robert V. Friedman, UC 63, SW 66; Oct. '05
 Ernest S. Warren, GR 64; Dec. '05
 Cornelia (Floyd) Flowers, GR 65; Nov. '05
 Harry Richard Gleditsch, EN 65, UC 93; Dec. '05
 Howard J. Fradkin, LA 66; Dec. '05
 Rowland T. Goette, UC 66; Nov. '05
 Jim Renken, UC 66, UC 70; June '05

Sam Sankaran, GR 66; Nov. '05
 Anita (Lamb) Werner, UC 66; Sept. '05
 Jacqueline L. (Vincent) Foersom, FA 67; Nov. '05
 Yutaka T. Kimura, DE 67; March '05
 Donald R. Mascare, UC 67; Nov. '05
 David L. Pace, UC 67; Nov. '05
 Daniel E. Gannaway, UC 68; Sept. '05
 James M. Goforth, MD 68; Oct. '05
 Karolin Bratkowski-Cheboski, LA 69; April '05
 John F. Steinfeld, TI 69, TI 72; Dec. '05

1970s

Katherine V. (Murphy) Johnson, GB 70; Dec. '05
 Donald L. Walters, UC 70; Nov. '05
 Olympia E. Siegel, GR 71, UC 76; Dec. '05
 Charles Louis Belloli, Jr., LA 74; Oct. '05
 Judith (Gass) Shearer, PT 74; Oct. '05
 Sona (Duckham) Haydon, GR 76; Oct. '05
 Ghulam Sarwar Asad, GA 77; Oct. '05
 Simon Gregory Wall, LA 77; Nov. '05
 Ann Morrissey, LA 79; Oct. '05

1980s

Kerry S. Kuehner, GB 87; Nov. '05
 Joyce Yvonne Truitt, PT 87; Sept. '05

1990s

Marc Ervin Salak, LA 91; Aug. '05
 Madeline Rose Maxwell, SW 94; Dec. '05

2000s

Raquel Schumacher Marrah, GM 05; Aug. '05

In Remembrance

Sona A. Haydon

Sona A. Haydon, M.A. '76, longtime lecturer in piano for the Department of Music in Arts & Sciences, died of complications from leukemia on October 29, 2005. She was 73.

As a senior lecturer, Haydon gave individual lessons and taught classes in keyboard harmony and piano pedagogy. A frequent clinician and jury member for area piano exams, she inaugurated, in 2001, the Young Artist Piano Concerto Competition for pre-college musicians. Winners perform a concerto with the symphony orchestra of Washington University.

Haydon, who, as a result of a serious injury to her right hand,

conducted detailed research in therapeutic techniques to help regain strength and mobility, developed a special interest in teaching those with disabilities. Her techniques were collected in a video released in 1996: *Piano Technique: Is There Only One Way?*

Haydon earned a bachelor's degree from the New England Conservatory of Music, graduating with honors. Afterward, she earned a master's degree in piano performance in 1976 from the University.

Survivors include three sons, two stepsons, one stepdaughter, and six grandchildren.

C. Ray Holman

Carl Reyburn "Ray" Holman, Jr., University trustee, business executive, and civic leader, died November 4, 2005, from injuries sustained in a motorcycle accident in Franklin County, Missouri. He was 63.

Holman was known for passionately investing himself in all he did—whether it was developing Mallinckrodt Inc. into a focused medical products manufacturer, chairing Barnes-Jewish Hospital's board, or biking on his Harley-Davidson. He died when his bike veered off Highway K, a country road near Meramec State Park and hit a creek embankment.

Through service on various boards and generous donations, Holman enthusiastically supported various organizations, including the St. Louis Science Center, the Greater St. Louis Area Council of the Boy Scouts of America, and the Center of Creative Arts (COCA), chaired by his wife, Cheryl.

For the University, he served on the executive committee, chaired the finance committee, and formerly served as a member of the National Council for the John M. Olin School of Business.

Holman joined Mallinckrodt in 1976 as assistant controller and worked his way through the ranks before being named president and CEO in 1992 and then board chair in 1994, a title he retained until his retirement in 2002.

In addition to his wife, survivors include three sons, two stepdaughters, and a sister.

William C. Jones

William C. Jones, the Charles F. Nagel Professor Emeritus of International and Comparative Law, died September 16, 2005, after a brief illness. He was 79.

Jones, who taught at the School of Law for 40 years, was an internationally acclaimed scholar on Chinese law. He translated the last major imperial Chinese legal code—*The Great Zing Code*—and

the first precursor of the civil code of the People's Republic of China—the *General Principles of the Civil Law*. Also, Jones authored a popular legal reference book *Basic Principles of Civil Law in China*.

Jones, who joined the law school in 1955 as an assistant professor, served as a lecturer for the International Association for Teaching Comparative Law, a visiting professor or scholar at universities worldwide, and a Fulbright lecturer at Wuhan (China) University.

Prior to 1955, Jones was a research associate at the University of Chicago and an attorney for the U.S. Department of the Interior. He earned an LL.B. degree from Harvard Law School in Cambridge, Massachusetts, and an LL.M. degree and a doctorate of judicial science—both from the University of Chicago.

Survivors include his wife, Jean Engstrom Jones, a brother, a sister-in-law, and three nieces.

Alfred Seymour Schwartz

Alfred Seymour Schwartz, former clinical professor at the School of Medicine and a leader in a study that contributed to a ban on testing nuclear weapons in the atmosphere, died of prostate cancer at his home in University City, Missouri, on November 19, 2005. He was 92.

As a leader of the world-famous St. Louis Baby Tooth Survey conducted from 1959–70, Schwartz and his colleagues analyzed nearly 300,000 teeth for evidence of strontium 90, a radioactive material created in atomic- and hydrogen-bomb explosions.

The study, spearheaded by Barry Commoner, then-professor of biology in Arts & Sciences, found that the teeth absorbed nuclear material created as fallout from the bombs. The findings contributed to a ban on testing nuclear weapons in the atmosphere.

Born in New York, Schwartz earned a bachelor's degree from Amherst (Mass.) College and a medical degree from Johns Hopkins University in Baltimore before doing a residency at St. Louis Children's Hospital. He remained in the area to conduct a private practice with offices in St. Louis, Clayton, and Creve Coeur.

Schwartz was a fellow of the American Academy of Pediatrics. In addition, he was a director of the American Civil Liberties Union of Eastern Missouri. Several years ago, he was the first recipient of that group's Eugene Buder Spirit of Liberty Award for volunteerism.

His survivors include three sons, six grandchildren, and four great-grandchildren.

Schwartz's wife of 63 years, Ellen Jane Freund Schwartz, died in 2004.

Biologist Sally Elgin Lends a Hand to Improve Science Education

BY JANNI L. SIMNER

When Sarah "Sally" C.R. Elgin was in high school, her interest in science got a boost from the wide array of post-Sputnik lab courses then available. As an undergraduate, Elgin continued to seek out hands-on learning through summer lab jobs.

As a professor of biology in Arts & Sciences, she has worked tirelessly to bring hands-on learning to children and their teachers, through outreach efforts that share University science resources with the St. Louis community, and to enhance research opportunities for undergraduates. "I think hands-on learning is more convincing," says Elgin, whose research focuses on the role DNA structure plays in gene regulation. "It's about what people see, about what they hear."

Elgin's commitment to science outreach dates back to the 1980s, when her elementary-school-aged children were attending University City schools. She worked with science curriculum supervisor Jack Wiegers to bring Washington University science faculty into those schools, and to provide students with interactive environmental science and genetics projects. The pilot program was a success, and eventually Elgin expanded it and founded the University's Science Outreach program, which serves K-12 schools throughout the St. Louis area.

One of Science Outreach's best-known projects is Modern Genetics for All Students, which brings high school biology teachers to the Hilltop Campus each summer. These teachers work with University faculty on genetics lab projects that range from constructing simple paper models to performing genetic crosses in yeast and plants, spooling DNA and transforming bacteria. Come fall, the teachers choose those activities that will work best in their individual classrooms, and the University backs them up with lab materials and, if needed, a faculty or Science Outreach staff member to help on-site. "This is a partnership," Elgin says. "We have to depend upon one another if we're going to make a change for the kids."

Other Science Outreach programs include the Education 6000 courses, through which elementary and middle-grade teachers earn graduate education credit while gaining hands-on science teaching skills, a partnership between Arts & Sciences' education department and basic science departments. Science Outreach also collaborates with Tyson Research Center, the St. Louis Science Center, the Missouri Botanical Garden, and the Saint Louis Zoo.

Elgin is quick to stress that running Science Outreach, too, is a collaboration: As director, Victoria L. May manages the day-to-day operations, along with a staff of a couple dozen. Last year, they reached out to some 1,700 teachers and nearly 24,700 students.

If Elgin herself isn't in the Science Outreach office as much as she used to be, it's because she's been focusing on bringing hands-on research opportunities to University undergraduates. Elgin has always seen the opportunity for students to take part in real research as one of Washington University's strengths; she regularly hires undergraduates to work in her own lab, and she's also worked to bring selected high school graduates to labs on the Hilltop and Medical campuses the summer before their freshman year of college.

Since 2002, however, Elgin has taken undergraduate research one step further. That year, she was named a Howard Hughes Medical Institute (HHMI) professor and awarded \$1 million to bring the excitement of research into her University teaching.

Working with Elaine Mardis, co-director of the Genome Sequencing Center (GSC) at the School of Medicine, Elgin used the HHMI funds to establish the University's Genomics in Education program. At the heart of this program is an undergraduate biology course, Research Explorations in Genomics, in which students use GSC facilities to sequence a portion of a genome and to analyze the data.

The course relies on both traditional lab work and computer analysis, and it draws upon so broad a range of expertise that no one person can teach it; several




Joe Angeles



Taking undergraduate research one step further, biology Professor Sally Elgin (center) helped establish the Genomics in Education program. Here, she works with Kasia Falkowska (left), A.B. '05, and Wilson Leung, A.B. '05.

computer science and biology faculty take part, including Elgin. By the end of the course, the students know more about the whole process than any one of their professors. "The kids think that's kind of neat," Elgin says, adding that the students enjoy "being able to work on a problem where the information they generate is both novel and useful." Some of that information has been incorporated into a paper currently under submission to *Genome Biology*, one of the major journals in the field.

"It's a wonderful way to get kids engaged in research," says Elgin, who's working to expand the Genomics in Education program's reach beyond the University, allowing undergraduates throughout the country to access and analyze GSC data online.

Ultimately, Elgin says, all her outreach efforts are aimed at helping students and teachers alike to understand that real research and real hands-on learning are within their grasp. "I want them to know that they can get at it," Elgin says. "I want them to know that this is very doable." 

Janni L. Simner, A.B. '89, is a free-lance writer based in Tucson, Arizona, and former editor of *Alumni News*

Peer Review

"I don't know anyone who is more involved in education than Sally. She's passionate about improving science education at all levels, and she gets others involved and active, too. She's completely focused on the right things; she never lets me forget what's most important."

— **Edward S. Macias**, *Executive Vice Chancellor and Dean of Arts & Sciences*

"Sally has a real commitment to teaching students to think, not just to regurgitate information. I love her can-do attitude and how it inspires her students. I can't tell you the number of people at other universities who know Sally or have heard of her—she truly is held in very high regard for her research and her commitment to education."

— **Elaine Mardis**, *Co-Director of the Genome Sequencing Center and Associate Professor of Genetics*

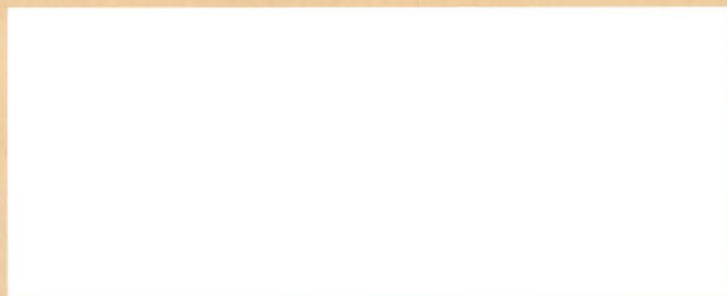
"Sally has helped faculty see that good teaching is just as valuable as good research. She has a real sense of the challenges teachers face, and she genuinely wants every student to be able to do science with real materials. If you had ever seen her bring mutant fruit flies to a first-grade class, you would understand her ability to help kids get interested in science."

— **Victoria L. May**, *Director of Science Outreach*

"Caring, committed to serving others, generous, inquisitive, and tough-minded are adjectives that describe Sally. She brings the same habits of mind [to teaching and outreach] that make her a good scientist. She is able to raise good questions, to marshal evidence to answer those questions, and to keep critiquing the answers."

— **Jack Wieggers**, *Science Outreach Instructor and former University City Science Curriculum Supervisor*

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David Kilper

Up-and-Coming Art Facility

From Steinberg Hall, which is Washington University's original Fumihiko Maki-designed building and a landmark of modern St. Louis architecture, you can see the progress being made on the newest Maki design, an integral part of the Sam Fox School of Design & Visual Arts. The Sam Fox School will include five buildings (on the southeast end of the Hilltop Campus) and will serve as a campus-wide resource for the study and promotion of the visual arts and design.