



Washington University in St. Louis

WINTER 2009 MAGAZINE



Educational Outreach University programs strive to improve public education in the St. Louis area.

A Promising Vision 10 • Bringing Back Basketball 25 • Hope as a Foundation 28



Chiura Obata, *Silent Moonlight at Tainan Relocation Center, 1942*, Private Collection



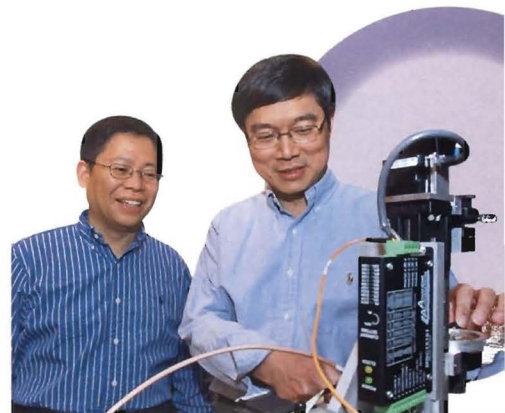
Mary Butkus

Internment's Impact Alumni Michael Adams (far left) and Gyo Obata presented "Remembering the Internment" to a standing-room-only crowd at Steinberg Hall on October 2. Their talk focused on the friendship between their famous fathers, the photographer Ansel Adams and the painter Chiura Obata (pictured), and on how both families were impacted by the U.S. government's internment of Japanese Americans during World War II. Organized by the Center for the Study of Ethics & Human Values, the event was part of the semester-long series "Ethnic Profiling: A Challenge to Democracy." Works by Ansel Adams and Chiura Obata, such as Obata's painting above, also are included in the exhibition "A Challenge to Democracy: Ethnic Profiling of Japanese Americans During World War II," on view in the Mildred Lane Kemper Art Museum through January 4, 2010.

Lung cancer survivor and advocate Lori Hope, AB '77, authored *Help Me Live: 20 Things People with Cancer Want You to Know* (pg. 28).



Biomedical engineering Professor Younan Xia (left) applies his research in nanotechnology to diverse disciplines. He also collaborates with other distinguished professors, such as Lihong Wang (pg. 10).



FEATURES

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Professor Younan Xia works with tiny elements of nanotechnology to address some of society's biggest concerns.
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Catch up on news of fellow classmates and alumni profiles, and solve the puzzle, too.
- 48** **Washington Spirit**
For some 25 years, Gary Hochberg has been building programs and attracting students to the Olin Business School.

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Cover: Audrey King, Arts & Sciences Class of '10, is one of the many talented undergraduate and graduate students who tutor area students, such as Kaneisha Whitley, as part of Each One Teach One (EOTO). EOTO and some 50 other programs at the University aim to positively impact urban education in the area (pg. 14). (Photo: Joe Angeles; collage: Donna Boyd)

Senior Joshua Malina helps middle-schoolers Robert McRath (left) and Hong Luongrath perform a physics experiment with model rockets during the Bernard Harris Summer Science Camp. The free camp, held on campus, is another Science Outreach program designed to help area students excel in math and science (pg. 14).





Archie Alford

Michael J. Carter, Arts & Sciences Class of '10, founded Strive for College, a national nonprofit organization, while a freshman at the University.

Rodriguez Scholar Finds 'Strive for College'

When Michael J. Carter, Arts & Sciences Class of '10, was a freshman at Washington University, he balanced classes with founding a nonprofit organization. Carter started the Strive for College model, a program designed to guide low-income high school students through the process of applying to, enrolling in, and paying for college, through the Annika Rodriguez Scholars Program at the University. He received great support from Julia Macias Garcia, academic coordinator for the Rodriguez Scholars Program.

Now a national nonprofit, Strive for College consists of 10 chapters at universities across the country. More than 93 percent of Strive for College students go on to four-year colleges, and Strive is serving more than 300 students this year.

Carter's passion for service led him to Washington University. "I chose to attend the University for two main reasons: I was receiving scholarship money through the Rodriguez Scholars Program, and I also was connecting with a group where everyone

"...I also was connecting with a group where **everyone was committed to service.**"

was committed to service," he says. [The Rodriguez Scholars Program is a group of leaders dedicated to academic excellence and community service.]

His scholarship allowed him to study abroad at Oxford University, study at Georgetown University, and intern at American Enterprise Institute, researching educational history and educational entrepreneurship. These experiences allowed him to network for Strive, as well.

"I one day want to provide a scholarship for socioeconomically disadvantaged students. Because of my experiences with Strive, I've seen the massive amount of talented low-income students who [may] never achieve their dreams simply because they don't have the financial means to do so," he says.

Carter plans to continue to grow Strive full time after he graduates from the University.

The Women's Society of Washington University and Chancellor Emeritus William H. Danforth have supported and donated to Strive. Carter recently spoke at a Brookings Institution panel in Washington, D.C., about Strive and the role of high schools in preparing low-income students for higher education.

For more information on Strive, visit www.striveforcollege.org or e-mail Carter at mjcarter@striveforcollege.org.

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Athletics at a Glance

4 Final ranking of Washington University in the 2008–09 Learfield Sports Directors' Cup Division III standings. The fourth-place finish is the third highest in WUSTL history and marks the Bears' seventh consecutive top-10 appearance.

22 Number of student-athletes named to the first annual University Athletic Association (UAA) Presidents Scholar-Athlete Team. This number is a conference best. To achieve this recognition, a student-athlete must earn first-team All-UAA honors and

carry a 3.50 or greater cumulative grade-point average during the playing season.

3 Freshman Leah Barsanti's finish in the junior level of the 2009 U.S. Figure Skating Association National Collegiate Championship held in Philadelphia from July 30 to August 1.

4,000 The seating capacity of Francis Field. This U.S. National Historic Landmark is in its 105th year of existence.

MRI Machine Donated to Air Force

Airmen from Scott Air Force Base in Illinois loaded an MRI machine donated by the School of Medicine onto a C-17 Globemaster III on June 12. The U.S. Air Force then flew the 36,000-pound machine to Salta, Argentina. To operate the MRI, the School of Medicine is teaming up with FULTRA, a nonprofit organization that provides neurological and psychiatric care for Argentina's indigenous population.



U.S. Air Force Photo/aman 134 Chris Weibey Farnsworth

Injury Control Research Center Established at Brown School

The Centers for Disease Control and Prevention (CDC) designated the Center for Violence and Injury Prevention (CVIP) at the George Warren Brown School of Social Work as one of its Injury Control Research Centers.

The goal of the Brown Center for Violence and Injury Prevention is to prevent child maltreatment, intimate partner violence, sexual violence, suicide, and related injuries through community-based research and educational outreach. The center will emphasize work that impacts families with young children and youth as they transition to young adulthood.

Melissa Jonson-Reid, associate professor at the Brown School, leads the center. John Constantino, the Blanche F. Ittleson Professor of Psychiatry and Pediatrics at the School of Medicine, serves as co-director.

CDC's Injury Control Research Centers reside at 11 academic health centers throughout the United States.



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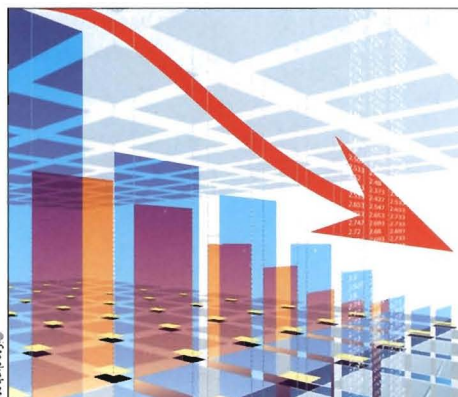
Olin Seminars Respond to Economic Crisis

In response to the challenges of business management during the current economic crisis, Olin Business School refocused its executive education seminars, lectures, and case studies to address the recession and its effects on many aspects of business.

"Olin faculty and administrators work hard to ensure that our executive education seminars are relevant to the immediate and long-term needs of St. Louis-area businesses," says Tom Conway, director of the Olin Partners' Program-Executive Education Seminars.

The following seminars, all taught by senior Olin faculty, are among the courses that made changes to address the current economic crisis:

- "Finance for Nonfinancial Managers" addressed in plain language why stock values are currently so low and what to look for as signs of "thawing" in these markets.



©iStockphoto

- "Managing Innovation in the Established Company" discussed how different companies innovate and prosper in different economic climates.

- "Growth Engine" addressed the twin challenges of maintaining profitable growth in the downturn while simultaneously preparing for continued growth as the economy improves.

- "Critical Thinking" devoted significant time to the difficulties faced by federal officials in defining the exact cause of the economic downturn and formulating effective solutions to revive the economy.

- "Risk Management in Supply Chains" placed greater emphasis on the current financial risks affecting domestic and global supply chains.

New One-year Computer Science and Engineering Master's Degree Offered

The School of Engineering & Applied Science developed a highly personalized one-year master of engineering in computer science and engineering. The degree will provide students with computing skills and a competitive edge to meet the demands of modern industry.

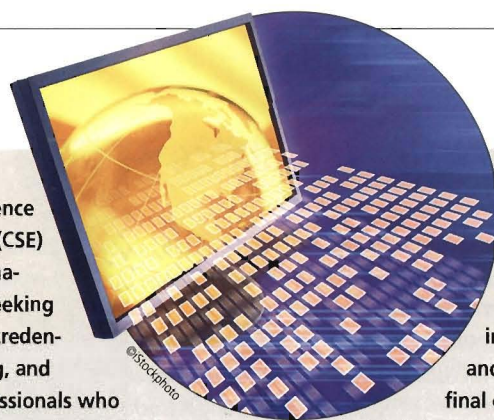
The program is specially tailored for those who plan to change careers and enter

the computer science and engineering (CSE) profession, international students seeking to establish U.S. credentials in computing, and current CSE professionals who wish to advance both their skills and their education.

"A distinctive feature of the program is the ability to customize it to specific individual needs, and to combine the best of computer science and computer engineering education with pursuits in other fields,"

says Christopher D. Gill, associate professor and director of master's programs in computer science and engineering. "A final capstone project will bring together the totality of each student's ambitions, interests, and accomplishments in the program."

The program debuted in fall 2009. For more information on the new master's degree, visit <http://cse.seas.wustl.edu/masters/engineering>.



Student Printmakers Take Top Prize

In the BFA Now International Printmaking Competition, Ian Jones, BFA '08, and Anisa Phillips, BFA '09, won two of the five awards presented.

In addition to receiving \$500 cash awards, the two showed their work during a weeklong exhibition in Los Angeles in the fall.

"I call my process 'printcrafting' since I combine printmaking's silkscreen technique with the traditional crafting techniques of sewing, stuffing, and embellishing," says Phillips. She aims to make "touchable creations that can interact with and engage people."

There were 83 entries to the competition, which was open to any undergraduate student.



Detail: Tolle Zee Zall by Anisa Phillips. Photo by Patrick Renschen

Crimes Against Humanity Initiative Addressed at The Hague

An expanded group of experts gathered at The Hague Intersessional Experts' Meeting of the Crimes Against Humanity (CAH) Initiative in summer 2009. The group included judges and practitioners from international criminal tribunals operating around the world.

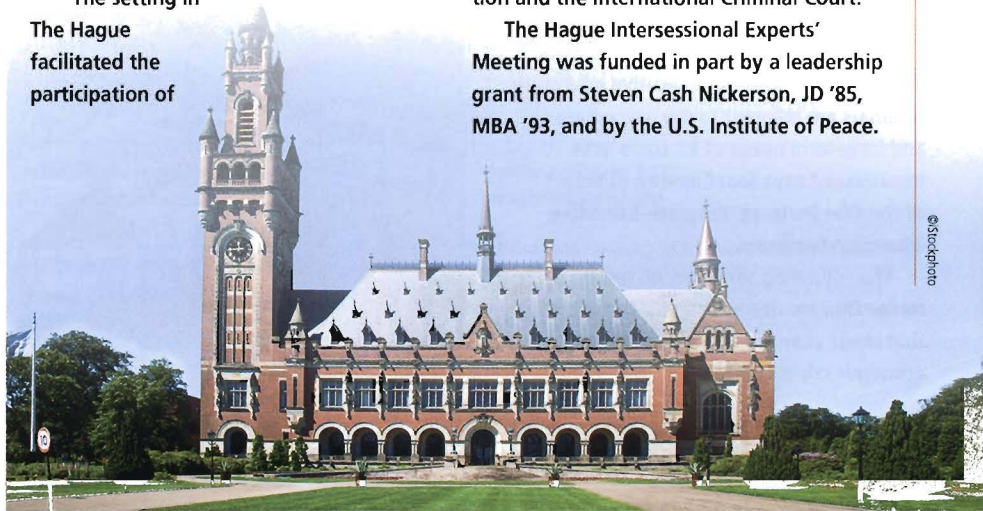
The two-year initiative will culminate with a global conference in spring 2010 to discuss the final draft of the multilateral treaty. The treaty will condemn and prohibit "crimes against humanity." The initiative is under the auspices of the School of Law's Whitney R. Harris World Law Institute and headed by Leila Nadya Sadat, the Henry H. Oberschelp Professor of Law.

"The setting in The Hague facilitated the participation of

leading judges and practitioners, including those from the International Criminal Court, International Criminal Tribunal for the former Yugoslavia, International Criminal Tribunal for Rwanda, Special Court for Sierra Leone, Khmer Rouge Tribunal, and Special Tribunal for Lebanon," says Sadat. "The CAH Initiative's steering committee benefited greatly from their counsel during our experts' meeting. Significant progress also was made at the meeting on the specific language for the treaty draft."

Panel discussions addressed the need for a crimes against humanity convention, the particular problems of enforcement, and the relationship between the proposed convention and the International Criminal Court.

The Hague Intersessional Experts' Meeting was funded in part by a leadership grant from Steven Cash Nickerson, JD '85, MBA '93, and by the U.S. Institute of Peace.



Apollo 11 Moon Rocks Still Crucial 40 Years Later

A lunar geochemist at the University says there are still many answers to be gleaned from the moon rocks collected by the *Apollo 11* astronauts on their historic moonwalk 40 years ago.

And he credits the late Robert M. Walker, Washington University's McDonnell Professor of Physics in Arts & Sciences, and a handful of other scientists for the fact that there are even moon samples to study.

Randy L. Korotev, a research professor in the Department of Earth & Planetary Sciences in Arts & Sciences, "was in the right place at the right time" in 1969 to be a part of a team to study some of the first lunar samples.

"Bringing samples back from the moon wasn't the point of the mission," says Korotev. "The mission was really about politics. It took scientists like Bob Walker to bring these samples back—to show the value of them for research.

"Bob convinced NASA to build a receiving lab for the samples and advised them on their handling and storage."

In their study of the lunar materials, Walker's laboratory led the way in deciphering records of lunar, solar system, and galactic evolution. Of special importance was the information the lunar samples gave on the history of solar radiation and cosmic rays.



Researchers in WUSTL's Laboratory for Space Sciences in Arts & Sciences have a long tradition of being among the first in the world to receive samples from a NASA mission. In this photo taken in 1969, the late Robert M. Walker (center, seated), the McDonnell Professor of Physics and first director of the University's McDonnell Center for the Space Sciences in Arts & Sciences, displays photos and lunar samples from the *Apollo 11* mission that year.

"Bob convinced NASA to build a receiving lab for the samples and advised them on their handling and storage."

Numerous WUSTL scientists have used the *Apollo 11* samples, which are housed on the fourth floor of the physics department's Compton Laboratory. The samples soon will make a return trip to Houston to NASA's moon rocks repository, the Lunar Sample Building at the Lyndon B. Johnson Space Center.

Tango Improves Balance, Mobility in Parkinson's Patients

Patients with Parkinson's disease who took regular tango dance classes for 20 sessions showed significant improvements in balance and mobility when compared to patients who did conventional exercise.

Researchers Gammon M. Earhart, assistant professor of physical therapy, and Madeleine E. Hackney, a predoctoral trainee in movement science, compared the effects of Argentine tango classes to exercise classes on functional mobility in 19 patients with Parkinson's disease. The participants in the tango program showed significant improvement in several standard tests for patients with Parkinson's disease—the Unified Parkinson's Disease Rating Scale (UP-DRS) and the Berg Balance Scale.



Parkinson's disease affects nerve cells in a part of the brain that controls muscle movement. The nerve cells that make the neurotransmitter dopamine die or do not work properly, resulting in trembling of hands, arms, legs, jaw, and face; stiffness of the arms, legs, and trunk; slowness of movement; and poor balance and coordination. Parkinson's patients also are at greater risk for falls or freezing—the slowing or stopping of movement while walking.

"Given these preliminary results, we think that tango dancing is feasible for individuals with Parkinson's disease and may be an appropriate and effective form of group exercise for these individuals," says Earhart.

Simulation Centers Provide Hands-on Medical Training

Two new state-of-the-art simulation centers at the School of Medicine provide students with hands-on clinical training.

The Saigh Foundation Pediatric Simulation Center at St. Louis Children's Hospital and the Howard and Joyce Wood Simulation Center at the Farrell Learning and Teaching Center allow medical students, interns, and residents to fine-tune diagnostic and treatment skills in a realistic situation.

Simulated events at these centers provide experiences in managing high-acuity conditions. The scenarios and feedback from instructors provide a safe yet lifelike learning environment for medical students to acquire skills essential in clinical care.

The Wood Simulation Center uses mannequins that allow instructors to program changes in the circulation or respiratory system to illustrate principles learned in the classroom, says David J. Murray, the Carol B. and Jerome T. Loeb Professor and director of the center.

A gift from University trustee Howard Wood, BSBA '61, and Joyce Wood, BSBA '76, MBA '77, made the center possible.

The Saigh Foundation Pediatric Simulation Center, developed with support from the Saigh Foundation to St. Louis Children's Hospital, is the only medical simulation center within 300 miles dedicated specifically to pediatric patients.

James Fehr, associate professor of pediatrics and director of the center, says the simulation experience will make



Robert Boston

David J. Murray (center), the Carol B. and Jerome T. Loeb Professor and director of the Howard and Joyce Wood Simulation Center, teaches medical students using a mannequin simulator.

The scenarios and feedback from instructors provide **a safe yet lifelike learning environment** for medical students to acquire

skills essential in clinical care.

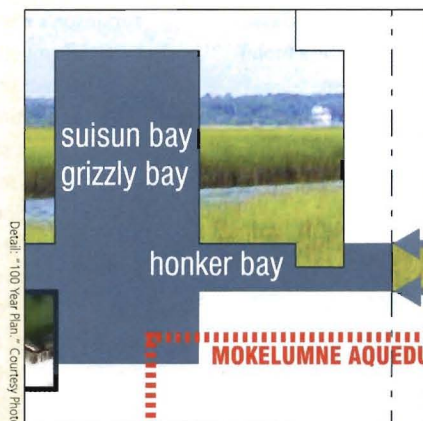
medical students better prepared to handle a patient's bedside challenges—improving responsiveness, situational awareness, and team interactions.

The center is set up to resemble an operating room, with the same tools, equipment, and workstations one would find in a typical operating environment. The simulated operating room sits next to a control room, where computer technology and robotics control the subjects' signs and symptoms.

Architecture Team Wins Rising Tides Competition

Derek Hoeflerlin and Ian Caine, adjunct lecturers in architecture, and Michael Heller, MArch '09, MBA '09, collaborated on one of the six winning proposals in the Rising Tides competition, hosted by the San Francisco Bay Conservation and Development Commission (BCDC).

The open international design competition called for ideas responding to the sea-level rise in San Francisco Bay and beyond. The "100 Year Plan" proposed by



Detail: "100 Year Plan" Courtesy Photo

Hoeflerlin, Caine, and Heller notes that rising tides are merely one symptom of a larger water crisis. They advocate for an ambitious, policy-based "toolkit" that trades the "watershed hopping" method of massive water transport for a more localized approach. They propose fresh water via sustainable desalination and water recycling programs along with tidal marsh regeneration, powered and protected by Rising Tides over the course of the next 100 years.

The selection of six winners will share a total prize of \$25,000.

Physicists Pinpoint Origin of Gamma Rays

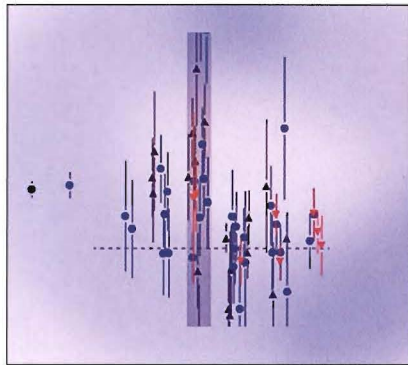
An international collaboration of 390 scientists reports the discovery of an outburst of very-high-energy (VHE) gamma radiation from the giant radio galaxy Messier 87 (M 87). A strong rise of the radio flux, measured from the direct vicinity of its supermassive black hole, accompanied this outburst.

The combined results give first experimental evidence that particles are accelerated to extremely high energies in the immediate vicinity of a supermassive black hole and then emit the observed gamma rays. The gamma rays have energies a trillion times higher than the energy of visible light.

Washington University scientists Matthias Beilicke, a postdoctoral research associate in physics in Arts & Sciences, and Henric Krawczynski, associate professor of physics, worked with the Very Energetic Radiation Imaging Telescope Array System (VERITAS) to coordinate this cooperative project.

James H. Buckley, professor of physics, is a founding member of the VERITAS

collaboration, and he works closely with Krawczynski on the VERITAS project. The Washington University group, which Buckley leads, plays a key role in a number of publications describing discoveries made by the newly commissioned VERITAS experiment.



The VERITAS Collaboration, the VLBA 43 GHz M 87 Monitoring Team, the H.E.S.S. Collaboration, and the MAGIC Collaboration

The Very Energetic Radiation Imaging Telescope Array System is a collection of four 12-meter Cherenkov telescopes used to detect astrophysical sources of very-high-energy gamma rays.

Genetic Mutation Makes Cancer Radiation Resistant

Many cancerous tumors possess a genetic mutation that disables a

tumor suppressor called PTEN. Now researchers at the School of Medicine are showing why inactivation of PTEN allows tumors to resist radiation therapy.

The PTEN gene produces a protein found in almost all tissues in the body. This protein acts as a tumor suppressor by preventing cells from growing and dividing too rapidly. Mutations in PTEN are frequently found in prostate cancer and endometrial cancer, melanoma, and certain aggressive brain tumors.

Because tumors with PTEN mutations are often resistant to radiation therapy, Tej K. Pandita, a researcher with the Siteman Cancer Center at the School of Medicine and Barnes-Jewish Hospital, and his colleagues

are probing and asking why. Their findings could enable researchers to develop drugs that overcome that resistance and increase the effectiveness of radiation treatments for cancer patients.

They demonstrate that PTEN-deficient cells have defective checkpoints. As cells grow and divide, they pass through several phases. Checkpoints operate during each phase and assess whether a cell is healthy enough to continue growing and dividing. If not, signals from checkpoints should tell the cell to wait until repairs are made or should induce the cell to die.

"The defective checkpoints contribute to radioresistance," says Pandita, associate professor of radiation oncology and of genetics. "When a cell gets damaged by radiation, normally checkpoints will make it stop growing to repair the damage. If the checkpoints are working but

Ten students received Fulbright Scholarships for the 2009–10 academic year. The winners include **Natalie Alm**, **Bobbie Bigby**, **Laurie Bonkowski**, **Courtney Caruso**, **Nicholas Efremov-Kendall**, **Anne Marie Gray**, **Jill Mead**, **Michael Raish**, **Maria Rosebury**, and **Nancy Twilley**. These students will spend a full academic year in a host country.

Two doctoral students received Fulbright-Hays grants to research abroad in the 2009–10 academic year. The winners are **Megan Ference** and **Beverly Levine**.

C. Michael Crowder, associate professor of anesthesiology, was named the Dr. Seymour and Rose T. Brown Professor in Anesthesiology at the School of Medicine.

Chancellor Emeritus **William H. Danforth** received the 2009 American Society of Plant Biologists Leadership in Science Public Service Award.

Gerald W. Dorn II, professor of internal medicine, was named the Philip and Sima K. Needleman Professor of Medicine at the School of Medicine.

Kelle H. Moley, vice chair for basic science research and director of the Division of Basic Science Research in obstetrics and gynecology, was named the first James P. Crane Professor in Obstetrics and Gynecology at the School of Medicine.

Brad W. Warner, professor of surgery and of pediatrics and pediatric surgeon-in-chief at St. Louis Children's Hospital, was named the Jessie L. Ternberg, MD, PhD, Distinguished Professor in Pediatric Surgery at the School of Medicine.

Chancellor **Mark S. Wrighton** received the John D. Levy Human Relations Award from the American Jewish Committee.

On the Web For more "Honors," see www.magazine.wustl.edu/.

the cell has a defective DNA repair system, the cell will be radiosensitive. But if the checkpoints don't operate, the cell can bypass DNA repair and continue to grow. Then the cells are radioresistant."

The results indicate that to increase radiation sensitivity in tumors with PTEN mutations, it will be necessary to develop drugs that correct for the faulty checkpoint processes, Pandita says.

Scholarship Initiative to Start

Opening Doors
to the Future

Washington University's Board of Trustees authorized a fundraising initiative to increase support for student scholarships.

Opening Doors to the Future: The Scholarship Initiative for Washington University has a goal of raising \$150 million to support scholarships and fellowships. A formal kickoff took place November 7, and the effort will continue through June 30, 2014.

"Our Scholarship Initiative will help to ensure that no deserving student ever has to turn down the opportunity for a Washington University education because he or she doesn't have the resources to afford it," says Chancellor Mark S. Wrighton.

"Scholarships transform lives—not only for students but for society," says Robert L. Virgil, executive chair of the Scholarship Initiative. Virgil is a trustee of the University, former dean of the Olin Business School, and retired partner in the St. Louis-based investment firm of Edward Jones.

"Washington University is a place where outstanding students prepare to become leaders in medicine, law, government, scientific research, education, public policy, business, and the arts," says Virgil. "Many deserving students just need the opportunity to turn their extraordinary potential into achievement. Their future is our future—and a scholarship is an investment that benefits us all for years to come."



Sijie Dai (left), Engineering Class of '11, is the recipient of an annual scholarship for engineering students with the greatest need, sponsored by Sunil Hirani (right), BSCS '88, and his wife, Blanca.

Opening Doors to the Future will help create scholarships for both undergraduate and graduate students. The Initiative will encourage contributions of both endowed and expendable scholarship funds. It also will promote support for stipends and financial aid for students pursuing internships, research opportunities, and study abroad programs.

Today, more than half of WUSTL's undergraduate students receive some kind of financial assistance, which may include grants, loans, and work-study. Almost 22 percent of those students qualified for assistance totaling more than the cost of tuition. Graduate and professional students also receive substantial financial aid, including, for example, 82 percent of law students, 89 percent of medical students, and 92 percent of social work students.

When the Initiative started, the University was investing approximately

\$70 million annually in undergraduate financial assistance. Income from the University's endowment provided only 17.6 percent of that, and the rest came from expendable gifts and other University resources.

More than 1,300 endowed scholarship and fellowship funds already have been established, but many more are needed to enable the University to continue to recruit talented students from a wide range of backgrounds.

A significant aspect of the Scholarship Initiative is a \$2 million challenge grant, intended to encourage

new and increased annual scholarships for undergraduate and graduate students from alumni, parents, and friends.

John F. McDonnell, former chairman and now vice chairman of the Board of Trustees and retired chairman of the board of McDonnell Douglas Corp., established the Scholarship Initiative's challenge grant.

"Washington University students all share extraordinary potential to make a difference in the world, and I am happy to support their efforts," says McDonnell.

Wrighton is optimistic that University supporters will rise to the McDonnell Challenge and recognize the value of investing in students and their future contributions to society.

To qualify for the match, a gift must meet certain criteria, which are available from the Office of Alumni and Development Programs.



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

Would you like more information? Return this card or call:

800-835-3503 OR 314-935-5373

- I am considering a gift for Washington University in my estate plan. I would like to discuss this with a member of the planned giving staff.
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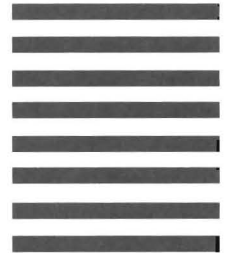
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Ray and Nancy Nadaskay

“Educating architects is beneficial to society, and Washington University’s College of Architecture is one of the best.”

—Ray Nadaskay, AR ’62

As an architect, Ray Nadaskay believes he is a steward of both the natural and built worlds, and as such he tries to help improve the quality of life for everyone. Ray credits Washington University with giving him his start, and, in return, he hopes his support of the University will help future generations of architects.

Help Shape Our World by Helping Our Students

A gift through your estate plan may:

- Provide unrestricted funds to meet the University’s greatest needs;
- Fund important University programs;
- Strengthen programs for your favorite discipline or school;
- Endow a professorship, scholarship, or other fund in your name;
- Provide you with estate tax benefits.



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

(Please consult with your advisors for tax and legal advice.)

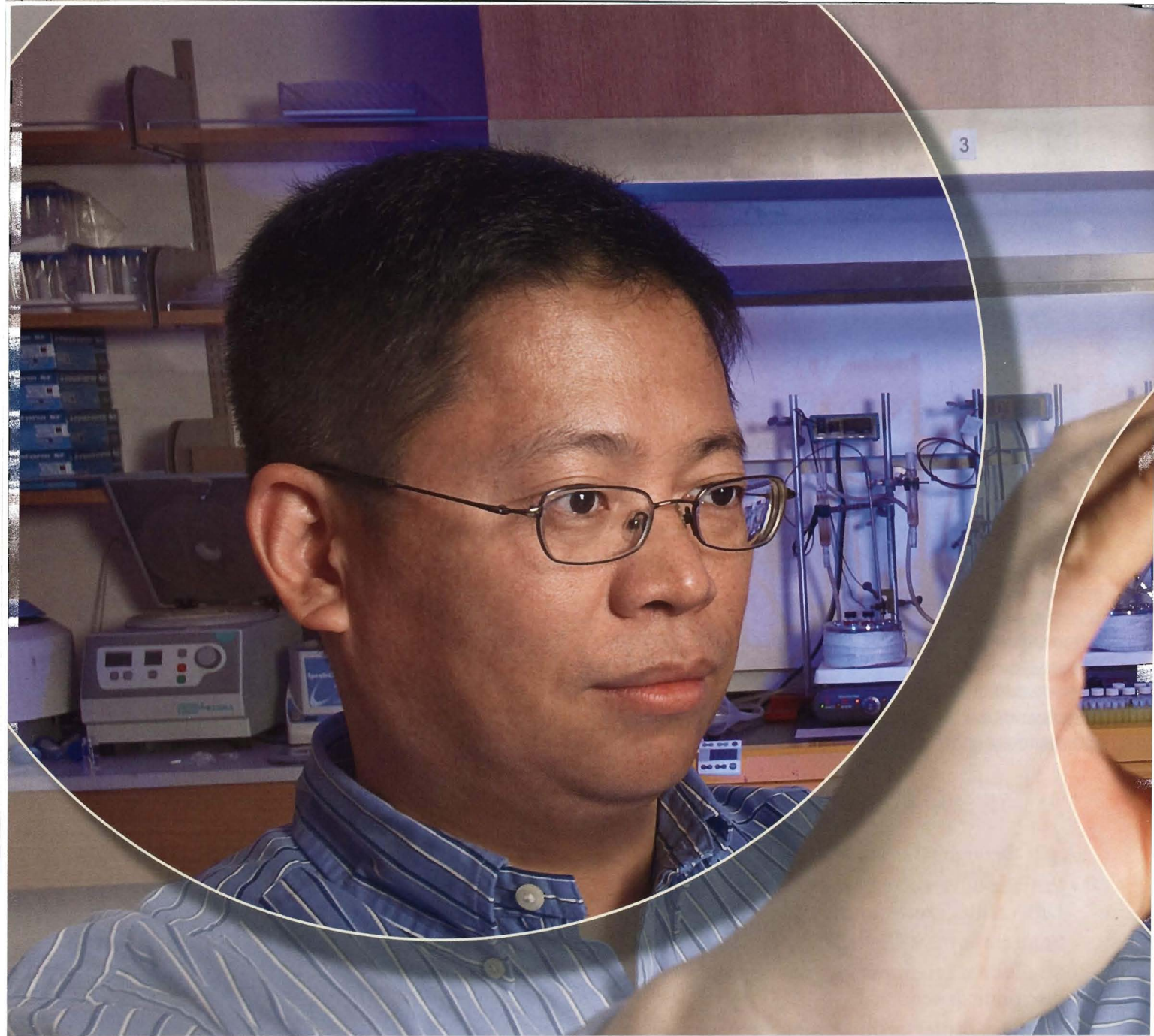


“Through their annual and future estate gifts, Ray and Nancy are helping us attract top scholars who may not otherwise be able to attend the University without such generous scholarship support. These outstanding students will help shape our world by generating meaningful responses to social and environmental challenges.”

*—Bruce Lindsey, Dean, College of Architecture,
Graduate School of Architecture & Urban Design*

To learn more about supporting Washington University through your estate plan, contact the Office of Planned Giving.

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Visions of Promise

Professor Younan Xia investigates imaginative applications of nanotechnology, and he applies keen observations to a wide range of disciplines: from fuel cell development to medical imaging and orthopedics.

BY STEVE KOHLER



Joe Angelis

Nothing is too small to know, and nothing is too big to attempt.”

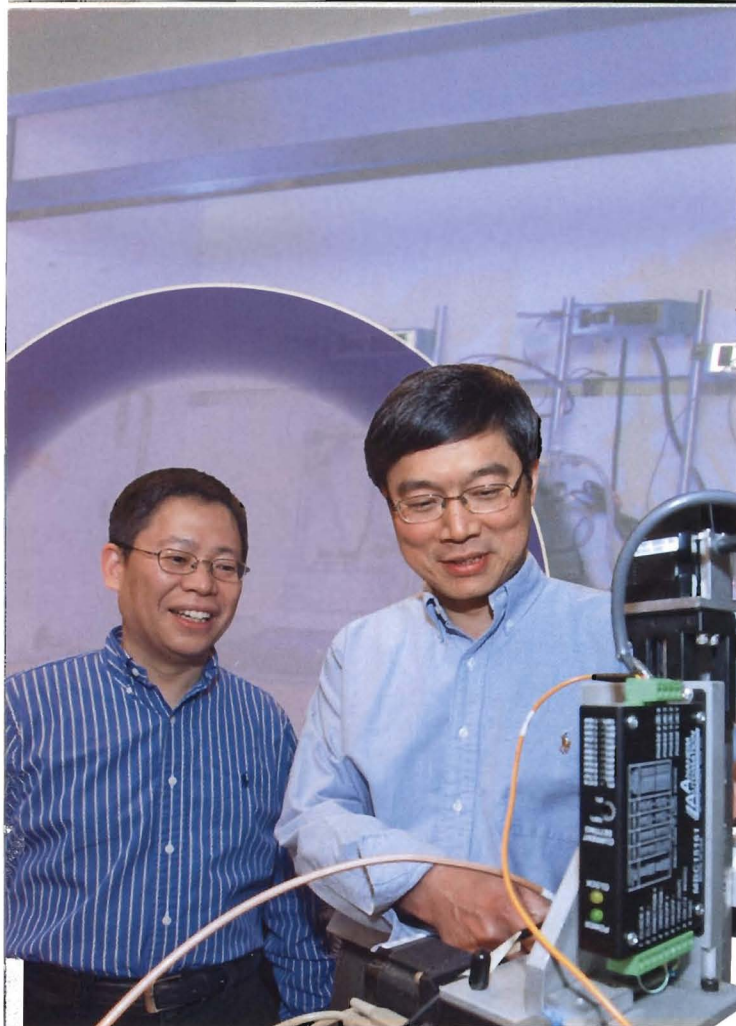
—Sir William Van Horne (circa 1900)

When Van Horne linked the two extremes of the size spectrum 100-plus years ago, he could not have envisioned how small the objects of scientific study would become nor how large society’s problems would be. Nonetheless, he provided a fitting motto for research being conducted today at Washington University. Within laboratories in Whitaker Hall, Younan Xia engineers the tiniest structures—down to one ten-thousandth the thickness of a human hair—as agents to address some of society’s biggest concerns.

Xia says that, increasingly, “technological advances in many areas will rely on nanotechnology,” as the field of miniaturized particles and devices is known. He foresees essential applications in everything from electronics to medicine. For example, a future laptop computer may require no batteries, relying instead on an onboard fuel cell to generate power. Its only requirement would be “a small supply of methanol,” Xia says.

As a student, Xia’s first interest was engineering; however, he trained in chemistry. Coming to Washington University in 2007, he established wide-ranging collaborations and, in the process, combined the two fields to create tiny, effective agents of change. Now, as the James M. McKelvey Professor in the Department of Biomedical Engineering, he follows what he calls “simple ideas” to guide his work applying nanotechnology to clean energy production, imaging, and healing.

Above: Professor Younan Xia holds an array of glass vials containing many millions of his gold nanocages, which are making possible ways to image cancer cells in lymph tissue. In his laboratory, researchers also are working on ways to use the gold nanocages to carry biomolecules as attachments that could target cancer cells.



David Krieger

Using photoacoustic tomography (PAT), Professors Younan Xia (left) and Lihong Wang for the first time used gold nanocages to map sentinel lymph nodes (SLN) in a rat noninvasively. Wang's lab is the largest PAT lab in the world, credited with the invention of super-depth photoacoustic microscopy, and Xia's lab invented the gold nanocages.

Clean energy production

First demonstrated in 1839, the fuel cell has since held promise—and not much more—as a means for generating electricity from abundantly available fuels with little or no environmental impact. Used initially in the Project Gemini space program, its broad application has been constrained by cost.

Xia explains that the chemical reaction in a fuel cell that produces electricity by freeing electrons from their native atoms requires a catalyst. And the best catalyst is platinum. “But there are perhaps only 3.5 billion ounces of platinum that could be economically mined,” he says. (Much of it is used in catalytic converters to treat gases emitted from internal combustion engines. That rarity makes platinum expensive.) “Most of the cost of a fuel cell is in the platinum,” Xia says. “To make a commercially viable cell, we need to reduce the cost by 75 percent.”

Xia and his group went beyond nanotechnology to the atomic level to re-engineer the platinum catalyst. Beginning with a platinum salt, they used ascorbic acid, or vitamin C, to reduce the precursor to platinum atoms. Then they changed the arrangement of the atoms on the surface of the catalyst to find a new, more productive pattern. The principle follows: Reduce the particles' size to expose more platinum surface area, thereby improving reactivity.

“But,” Xia says, “small particles tend to aggregate; they move during operation and lose their activity. Our catalyst also had to be stable.” So the researchers introduced

a “seed” of palladium onto which the platinum atoms grow, forming arms that are fixed in space. In a nod to the pseudo-biological process by which this growth occurs, the arms are referred to as “dendritic.”

The resulting bimetallic catalyst consists of nanoparticles comprising a nine-nanometer palladium core supporting seven-nanometer platinum arms. The catalyst proves to be robust and roughly three times more effective than those currently available. Xia also points out that the manufacturing process is environmentally benign. “This is a very important feature,” he says.

An efficient, affordable bimetallic fuel cell could one day power everything from computers to vehicles to spacecraft. Of the work, Thomas E. Mallouk, the DuPont Professor of Materials Chemistry and Physics at Penn State University, says: “Xia's ability to engineer these complex structures at the nanometer level and to imagine applications in which they might be useful distinguish him as a leader in nanotechnology. It is nice to see how his research is breathing new life into some old ideas, such as bimetallic catalysts for fuel cells.”

Seeking even more efficiency, Xia and his collaborators now are aiming for a trimetallic catalyst. By adding gold, they hope to produce a more robust and long-lasting catalyst, taking advantage of gold's ability to oxidize the carbon monoxide, which is a by-product of alcohol fuels and a poison to platinum.

Noninvasive imaging

Xia's group also engineers nanomaterials that aid in medical imaging by adapting a principle everyone has observed: Normally invisible dust motes become clearly observable when they scatter low-angle sunlight. The investigators are able to see otherwise invisible targets by using gold, because gold is “millions of times better at scattering and absorbing light than biological materials,” Xia says.

Starting with the chemical process of galvanic replacement, Xia's group deposits gold on the surface of silver nanocubes to create tiny packages that can be tuned—primarily by adjusting their size—either to reflect or absorb light. The silver core of the cube is oxidized and eliminated, leaving a hollow structure known as a gold nanocage. The cages can be used

Nano-sized

- A nanometer (nm) equals one-billionth of a meter.
- The term “nanotechnology” is widely agreed to apply to objects in sizes from one to 100 nm.
- A water molecule is less than one nm in size; visible light's wavelength ranges from 400 to 700 nm, and germs are roughly 10 to 1,000 nm in diameter.

Thomas E. Mallouk, professor of materials chemistry and physics at Penn State University, says, "Xia's ability to engineer these complex structures at the nanometer level and to imagine applications in which they might be useful distinguish him as a leader in nanotechnology."

to house antibodies that seek precise targets within the body, such as cancerous cells. Tuned to reflect or absorb radiation, the cages then act as contrast-enhancing agents that highlight a tumor.

Tuned to absorb light, the gold nanocages become effective contrast agents for noninvasive imaging. In collaboration with Lihong Wang, the Gene K. Beare Distinguished Professor in Biomedical Engineering, Xia employs the nanocages to map cancerous cells using photoacoustic tomography (PAT). Again guided by onboard targeting moieties to collect at a site of interest—the lymph nodes, for example—the nanocages efficiently generate a sound wave that results as they absorb light, warm, and expand. Used in this way, the nanocages can minimize invasive surgical biopsy procedures to determine if cancer has metastasized, reducing a patient's exposure to radioactivity.

The researchers also chemically engineer pores on the cages' surfaces, transforming them into devices for delivering therapy. Directed to a specific destination—the site of an infection, for example—the pre-loaded drugs can be released upon arrival. Gold's status as a noble metal means it is non-toxic; by adding polyethylene glycol to the surface, the researchers can shield their nanocages from the body's immune system, giving them time to arrive and deliver the therapeutic payloads.

Orthopedic applications and beyond

When tendons tear from bone, as in a rotator cuff injury, the challenge of repairing the damage and restoring strength has been likened to sticking a rope (the compliant, soft tendon) to a cement block (the stiff, hard bone). Minus the unique transitional tissue that bridged the junction, and with stress concentrated there, the point at which tendon rejoins bone often fails. But Xia and his colleagues are devising nanotechnology to recreate nature's gradual, elegant change of composition from tendon to bone.

Again, Xia says, the underlying principle is simple: "If you eject a liquid from a syringe, you get a droplet. But if you apply a voltage to the tip of the syringe, the like charges in the liquid repel one another, and the droplet is squeezed into a very thin line." If a polymer in solvent fills the syringe, when the solvent evaporates the result is called an "electrospun nanofiber."

In collaboration with Stavros Thomopoulos, assistant professor of orthopedic surgery at the School of Medicine, Xia collects such fibers and coats them with a gradient of calcium phosphate, the chemical basis of bone. The result is a scaffold that mimics tendon at one end and bone at the other, with a smooth transition between. It can be patched into a torn connection as a guide to healing. Because it is biodegradable, it disappears after cells migrate to the site and begin producing collagen.

The resulting improvement in tendon-to-bone healing may mean better outcomes for patients and the resolution of one of orthopedic medicine's persistent challenges.

Led by Xia, a core group of 10 postdoctoral students and 16 graduate students pursues these investigations and continues to expand the vision for nanotechnology.

The Fuel Cell


Batteries store electrical energy; fuel cells create it from fuel and oxidant sources that react on separate electrodes and must be replenished.

Various combinations of fuels and oxidants are possible, but the hydrogen (fuel) and oxygen (oxidant) version is perhaps best-known. The only by-product of a hydrogen/oxygen fuel cell is a small amount of water, so the process is close to being environmentally neutral.

However, the electrochemical reactions require an electrolyte that stays in the fuel cell and a catalyst to boost the current. The most effective catalyst is platinum, with its attendant cost restraints.

If the catalyst's efficiency can be improved and its costs contained, the abundance of fuel promises nearly limitless and inexpensive electrical power.

Aside from winning and maintaining the work's necessary funding—from the National Institutes of Health, the National Science Foundation, and others—Xia says that managing those researchers is the most challenging part of his job. Talking to the five subgroups into which they are organized requires at least 10 hours per week.

While he insists that the underlying ideas fueling his work are uncomplicated, the problems he addresses are complex, and the promises are far-reaching. According to Geoffrey A. Ozin, Government of Canada Research Chair in Materials Chemistry and Distinguished University Professor at the University of Toronto, the advances are of central importance. He says Xia is "without question one of today's most innovative and brilliant, imaginative and productive materials researchers," making contributions that "are now proving to have immense technological relevance in areas of electronics, magnetics, catalysis, fuel cells, and biomedicine." 

Steve Kohler is a freelance writer based in Bonne Terre, Missouri.



Washington University is the institutional sponsor of a new fifth-grade charter school, KIPP Inspire Academy, in St. Louis. KIPP (Knowledge Is Power Program) currently runs 82 free public schools throughout the country, preparing children from underserved communities for success both in college and in life.



Inspired to Teach & to Learn

Young people in the St. Louis area strive to reach their educational potential with the help of some 50 University initiatives, featuring undergraduate and graduate students, faculty, and administrators.

BY JUDY H. WATTS

It's a mild and sunny August morning in South St. Louis, where a roomful of fifth-graders at the KIPP (Knowledge Is Power Program) charter school are upbeat in spite of being indoors—and in math class at that. In fact, given this school, they're probably smiling *because* of it.

Wearing T-shirts (earned through performance) declaring "Knowledge Is Power," the boys and girls are seated and making noise. A *lot* of noise. Their teacher is egging them on, hollering questions and motioning cheerleader-style as 35 voices shout out answers as one. Suddenly she zings a question to a boy in the third row; when he hesitates, she points to another: "Can a team member help?" And the second boy does.

Another classroom, as disciplined and exuberant as the first, is ringed with signs such as "We Are a Team and a Family," "All of Us *Will* Learn," and "Climb the Mountain to College." When a visitor entered recently, teacher and students were volleying vocabulary words at top volume. Then, 9-year-old De'Ja Wood stepped up to ask, with consummate courtesy and poise, whether she could be of help. Like 80 percent of her

schoolmates, De'Ja lives in North St. Louis. The class, she explained, was learning "words and how to pronounce them better." (School leader Jeremy Esposito later explained that the all-fifth-grade school, called KIPP Inspire Academy, focuses on literacy: "We figure there's a one-million- to three-million-word gap for the majority of our students.") Asked what she thought of her new school, De'Ja's intent expression gave way to a grin: "Fantastic!"

An opportunity for all involved

KIPP Inspire's institutional sponsor is Washington University. Several years ago, civic leaders approached the University about supporting a charter school. After extensive study, the University made a formal commitment to sponsor a KIPP school in a highly active way.

And so it was that De'Ja Wood's charter school opened on July 13, 2009, in the former St. Francis de Sales High School building. KIPP Inspire requires high-intensity parental involvement, extended classroom hours (longer days, alternate Saturday mornings, and three weeks in the summer), and increased access to teachers. Parents, students, and teachers signed contracts outlining the details of their participation before classes began.

The KIPP school is part of a national nonprofit network of 82 free public schools in 19 states and the District of Columbia. An emphasis on academics and character development prepares children from underserved communities for success both in college and in life. Fully 80 percent of KIPP alumni enroll in college.

In St. Louis, KIPP Inspire will expand by one grade each year as the founding cadre of fifth-graders advance. (And advance they will. Says Esposito, a kind, open, and calmly purposive young man who with his teachers went door-to-door in the city to recruit the first class: "On average, our entering students are reading at a first- to second-grade level. We expect them to reach the fifth-grade level in one year.") Eventually the city of St. Louis expects to have a KIPP cluster of two middle schools, two elementary schools, and a high school.

What's more, says Henry S. Webber, executive vice chancellor for administration at the University: "As time goes on, we expect the KIPP school to include social services for the children. Equally important, we anticipate a considerable level of community involvement, so the school's success becomes the success of the larger community." Webber, along with Edward F. Lawlor, dean of the George Warren Brown School of Social Work, played a major role in the University-KIPP partnership from the beginning.

And according to the SLPS District, nearly one-quarter of high school students dropped out in the 2007–08 school year. The majority of these students were African-American males. In well-meant attempts to address the tragedy, the SLPS District over the decades has been, in the words of *St. Louis Post-Dispatch* columnist Sylvester Brown, "segregated, desegregated, integrated, chopped up, bused out, decertified, and magnetized" (October 2008).

Following the state's mid-2007 takeover of the district, a new SLPS superintendent is in place. Kelvin Adams, former staff chief of the Recovery School District of New Orleans, is implementing a range of reforms and rapidly building strong additional partnerships with Washington University and others in the community.

Sharing intellectual capital

"Washington University students, faculty, and alumni have long been known for their contributions to public, K–12 education in St. Louis and in their own communities," says Chancellor Mark S. Wrighton. "Ensuring high-quality educational opportunities for all children is the key to strengthening the future of our region, our country, and the world. I am grateful for the commitment that many members of the Washington University family have made to improving public education."

Working with multiple school districts, agencies, and organizations, the University contributes powerful human and intellectual capital. Faculty members—including some of the most distinguished senior professors on the campus—have been volunteering for years, in ways ranging from opening their labs to area teachers and students, to instructing principals and overseeing internships.

At the same time, droves of Washington University students volunteer in the schools and for campus education efforts. Many are so galvanized by the experience that they apply to Teach For America (TFA), a nonprofit program that recruits outstanding recent college graduates to teach for two years in high-need urban and rural schools. "We are one of the top universities in the nation in terms of the number of undergraduates who go on to Teach For America," says Robert M. Wild, AB '93 (black studies), AB '93 (biology), assistant to the chancellor, and a TFA alumnus who taught science in the Bronx for two years. "Many are teaching here in St. Louis through the TFA corps." (For more information, visit: <http://www.teachforamerica.org>.)

Three major partnerships in particular serve both the KIPP school and the broader goal of sustainable high-quality education in St. Louis schools: Science Outreach, initiatives through the Brown School, and Each One Teach One. These programs and scores of others (see sidebar, pg. 21) in every school and college respond to public school needs, provide valuable information and perspectives, and generate evidence-based innovative strategies.

Helping teachers teach math and science • In 2007–08 alone, faculty members from across campus worked with the Science Outreach office in 45 different school districts. They impacted approximately 1,500 teachers and more than 35,000 students. Since biologist

"If educational inequity ... is solvable, it is the moral responsibility of those of us who have been given so much to do everything in our power to realize that change."

—Wendy Kopp, founder of Teach For America; 2009 Commencement speaker

Target ripe for change

KIPP Inspire and scores of other initiatives at Washington University address educational conditions that are similar to what many important urban centers face. In her 2009 Washington University Commencement address, honorary degree recipient and Teach For America CEO Wendy Kopp said: "Here in the St. Louis Public Schools, where 80 percent of students are living below the poverty line and 84 percent are kids of color, would you believe that 16 percent ... are meeting state standards in math [and] 19 percent in reading and writing?"

As a decades-long exodus of many city residents continues, the St. Louis Public School District (SLPS), like some others in the area, confronts the far-reaching societal effects of multigenerational poverty. The district also contains high concentrations of impoverished people in discrete areas where crime and violence are common.



Los Angeles



David Krieger

Using hands-on investigative methods, Science Outreach encourages students of all ages to achieve in the study of math and science. At St. Louis Metro High School, for example, Kori Strother (left) and Bria Jones learn how to assemble hydrogen fuel cells to power model cars.

Sarah C.R. Elgin, the Viktor Hamburger Professor in Arts & Sciences, founded Science Outreach two decades ago, it has become one of the nation's largest efforts to improve the quality of science and math education in the public schools.

Science Outreach (<http://www.so.wustl.edu>) connects faculty, students, programs, research findings, and community resources with areas of K-12 educational need. It also partners with faculty and educators at the Saint Louis Science Center, the Saint Louis Zoo, and the Missouri Botanical Garden. The National Science Foundation (NSF) and the Howard Hughes Medical Institute, among others, sponsor and rigorously evaluate many Science Outreach programs. Victoria L. May, an assistant dean of Arts & Sciences, directs the program.

A popular effort begun through May's outreach to the SLPS District is the Principals Academy. In June 2009, the Olin Business School hosted the weeklong professional-development program on campus. Samuel S. Chun, lecturer in marketing and director of Olin's Custom Executive Programs, designed the program; faculty members taught in it; the SLPS District, the University, and Boeing Corporation funded it. In winter 2009, May and her colleagues will meet with the participating principals to discuss their schools' first 100 days.

Still another partnership is a makeover now under way at Brittany Woods Middle School in adjacent University City. Faculty and student architects from the Sam Fox School of Design & Visual Arts are helping the district put a new physical face on the school, while Science Outreach is consulting on instructional changes. With the goal of interesting middle-school students in studying science and mathematics on through high school, the teachers have come together in Professional Learning Communities. Within these small, interdisciplinary groups, math and science teachers meet daily and weekly to plan, discuss, and share strategies to improve teaching and learning.

As KIPP Inspire moves through its first year and adds sixth and seventh grades, Science Outreach will be its bridge to University resources, working with the school's math and science teachers on professional development.

Science Outreach fields numerous other programs—many already models for teacher professional development and curriculum innovation. Initiatives include the St. Louis Math and Science Partnership and Life Sciences for a Global Community; the latter offers a master's degree in biology, with a leadership component, for

Training Tomorrow's Community Leaders

From a sustainable systematic viewpoint, you can't fix education problems without well-developed communities," says Joe Jovanovich, a graduate student at the Brown School. For his social-work practicum, Jovanovich is spending the 2009–10 academic year at KIPP Inspire. He works with school leader Jeremy Esposito on developing and implementing a program in character education that centers on KIPP's core values—honor, excellence, absolute determination, respect, and teamwork.

"A critical part of character development is leadership," Jovanovich explains, "and KIPP is training students to be leaders in their communities and in academe. We hope developing character skills, such as leadership, will help the students thrive in their schoolwork."

A native of St. Louis' Dogtown, Jovanovich brings to his graduate work four years' experience with City Year, an AmeriCorps program in Chicago, where he became interested in working with children in struggling urban schools and in policymaking and communities. His adviser is Amanda Moore McBride, assistant professor of social work and director of the Gephardt Institute for Public Service, with whom he created an individualized curriculum in urban education and community development that he hopes will contribute to St. Louis after he graduates.

any biology teacher from the SLPS District—for free. Teachers from across the country take part as well, and approximately 30 are enrolled. (The importance of this effort is illustrated by the work of William F. Tate IV, the Edward Mallinckrodt Distinguished University Professor in Arts & Sciences and chair of the Department of Education, and the departmental research statistician, Mark Hoglebe. Working with 2002 data from 423 Missouri 10th-graders, Tate and Hoglebe found that "higher science scores were associated with a greater percentage of master's degree teachers, especially in largely minority schools." *Teachers College Record*, 2009)

Next, May plans to target physical science with a grant proposal that will incorporate the University's advances in physics, chemistry, materials science, nanotechnology, and energy.

Supporting public education and its community context • "At the Brown School, we have a critical mass of faculty and students already connected to community organizations and schools," says Brown School Dean Lawlor, "and we're having many conversations to help support and develop or deepen relationships with the SLPS District, U. City schools, and districts in the suburban ring. We're looking ahead to what I think will be our best and most important work. It's an important chance to influence schools' development and their success."

Lawlor brings to the moment both knowledge and experience in working with schools in great urban centers. Before moving to St. Louis, he had a role in a major initiative that brought community schools—which provide health services and strong academic and relevant recreational planning—to Chicago. U.S. Secretary of Education Arne Duncan was CEO of the Chicago Public Schools at the time. Ultimately, the aggressive educational reform plan raised educational standards and performance, increased the quality of principals and teachers, and more. Lawlor also has worked with implementers of successful reform in New York City.

Part of the profession's history since its inception, social work in the schools is a major component of the Brown School's mission and of its academic concentration "Children, Youth, and Families." The School's partnership with KIPP Inspire provides training for graduate students (see sidebar, upper left) and opportunities for faculty and students to gather data that the KIPP school, the Brown School, and others can use. Many social work students, a healthy number who are Teach For America alumni, want to work in youth-development programs and community organizations that interact with schools. "And for our alumni, some of the biggest challenges and biggest opportunities will be working in urban schools," Lawlor says.

"We're interested in kids' social and emotional development, in parental and family support for their children's education, in building strong and positive community relationships, and in developing sound ways to support children, families, and communities," he continues. "We're in this for the long haul."

Changing lives on both sides of the book • "Each One Teach One inspired me," says Glenn Davis, BSBA '03, who coordinated the large student-tutoring program when he was an undergraduate and tutored in the public schools twice each week. "Seeing the children's struggles, their joy in learning, and helping them do well showed me how



David Kliper





Science Outreach supports K–12 teachers in investigation and inquiry teaching methods. In the Life Sciences for a Global Community degree program, Tiffany Knight (right), assistant professor of biology in Arts & Sciences, identifies an invasive plant to a group of high school teachers at Tyson Research Center. For more information, visit http://www.so.wustl.edu/life_sciences/index.htm.

Each One Teach One (EOTO) is the University tutoring initiative, sponsored by the Community Service Office. EOTO connects University mentors with students with the greatest need of support. (Below) University tutor Gloria Osei enjoys time with area youth during an on-campus holiday celebration.



Curci, AB '04 (political science), became a TFA corps member, taught in Philadelphia, and is now a doctoral candidate in urban education at Temple University. She also co-chairs the recently launched Gephardt Alumni Service Council. Like Davis, she found her EOTO experiences life-changing. "When I do student interviews for APAP [Alumni & Parents Admission Program] and am asked what undergraduate experiences were formative, I always speak of Each One Teach One," she says. "Through this extracurricular activity, I found my career path in urban education. It was that powerful for me."

Organized in January 2000, Each One Teach One is now part of the University's Gephardt Institute for Public Service. The tutoring initiative partners directly with the SLPS District as well as College Bound and KIPP Inspire Academy to recruit, train, and support undergraduate and graduate tutors who are eager to mentor K–12 students. Stephanie

Kurtzman, director, Community Service Office, and associate director, Gephardt Institute, explains EOTO's four components (<http://www.communityservice.wustl.edu/eoto>):

- *EOTO Jump Start* buses 45 to 55 WU volunteers a day, four days a week, to Hamilton and Ford elementary schools;
- *EOTO College Bound* brings promising high school students from University City, Clyde C. Miller, Roosevelt, and Maplewood-Richmond Heights high schools to the Danforth Campus to meet regularly in Lopata House, so they'll become comfortable and inspired in a college setting;
- *EOTO AP Prep* emphasizes math, calculus, and test-taking skills for high school seniors at Gateway and Soldan high schools;
- And the *EOTO KIPP* program is new this year.

Responding to a request from KIPP Inspire's leader Esposito for two University tutors a day, five days a week, EOTO recently placed 10 highly motivated students. They underwent a rigorous selection and training process, and

I wanted to spend my life," he says. After graduating, Davis joined Teach For America; went on to become the founding mathematics teacher at KIPP Lead in Gary, Indiana; and recently received the KIPP Fisher Fellowship that is preparing him to establish and lead a high school in 2010. "I know a ton of Washington U. graduates who are now teaching on behalf of social justice because of Each One Teach One and other Washington University service organizations," Davis says.

Another alum, former Each One Teach One (EOTO) coordinator and Stevens Middle School tutor Juliet DiLeo



Joe Angeles

Susan Carter, MA '01, is the recipient of multiple teaching awards, including the 2008 Presidential Award for Excellence in Math and Science Teaching. She says: "My graduate work at Washington U. gave me a sense of responsibility to seek excellence. The focus on action research and teaching social justice in addition to academics certainly has shaped my journey."

committed to tutoring at the school for at least one year—so the fifth-graders will have stable, sustained working relationships with these role models.

Education in the public interest

"Urban education represents one of the most pressing social opportunities of our time," says William Tate, chair of the education department (a department whose graduate program *U.S. News & World Report* ranked among the best for the 2010 academic year). Tate's research showed that in 2008 nearly 72 percent of students in the city's public schools qualified for free or reduced-price lunches—an indication of poverty. "Great universities

should be working on the most important opportunities to advance humankind," he adds.

Within the great university of ideas that is Washington University, the Department of Education itself does not support charter-school policy. "Rather, we seek to provide our students and the community with rigorous empirical evidence related to effectiveness," Tate explains. "Our goal is to inform civic dialogue about what is best for students."

In keeping with the education department's research-based mission and the University's historical commitment to St. Louis, the recently established interdisciplinary Center for the Study of Regional Competitiveness in Science and Technology (CSRCST), which Tate leads, examines how people, policies, and partnerships affect scientific and technological growth and production in the metro area. At a time when St. Louis and the state of Missouri have turned to the education and business communities to build a more competitive environment for the life sciences, informational technology, and advanced manufacturing, the center's work will be critical (<http://artsci.wustl.edu/scienceandtechnology>).

Now subsumed under CSRCST, the St. Louis Center for Inquiry in Science Teaching and Learning (CISTL),

under Tate's direction, created an extensive database that is a rich resource for researchers and the public schools. In one study, for example, statistician Hogrebe and colleagues gathered data from 30 public school districts in St. Louis city, St. Louis County, Jefferson County, and St. Charles County. Then with GIS-produced maps, they showed the relationships between variables that differentiated the schools, teachers, and science achievement among districts (for example, instructional expenditures per student, teachers' salary and experience)—all within the region's social and cultural context. One finding depicts a situation demanding major improvement: Taken overall, "even in districts with the highest percentage of science-proficient students in the 10th grade, only 16.2 percent of students are proficient" (*Education and Urban Society*, vol. 40, no. 5, Sage Publications, July 2008). Such geospatial maps and related graphics are valuable tools to help inform and promote sustained civic dialogue about solutions.

Of overwhelming importance, of course, are the men and women the department certifies to instruct America's students. Hundreds of education alumni teach at all levels (including the Central Institute for the Deaf) and serve as principals and superintendents, including Charles R. Brown, MA '78, who holds a PhD from Iowa State University, and who oversees the Wellston School District.

The effects of a rigorous education that instills a passion for teaching are obvious in alumna Susan Carter's young career. Already the recipient of multiple awards and the author of published articles for colleagues in her profession, Carter, MA '01, most recently received the 2008 Presidential Award for Excellence in Math and Science Teaching. Presented at the White House each fall, the awards recognize the best pre-college-level teachers in the nation. Formerly a teacher at Jackson Elementary School in University City, Missouri, Carter now teaches at Glenridge Elementary School in Clayton, Missouri.

"She's the archetype!" Tate says.

Curriculum redesign in the Department of Education also supports the imperatives of the times and fits with recruitment efforts that have added significant urban-education expertise to its outstanding faculty.

University Expands Its Outreach

According to Amanda Moore McBride, director of the Gephardt Institute for Public Service and assistant professor of social work, more than 50 educational initiatives on the Danforth Campus alone are specific to public schools in the St. Louis area. They focus on literacy and success, teachers and administration, college readiness, and neighborhood development. Distinguished faculty and students from every school and college engage in these voluntary programs, of which only a very few are indicated below. More than 1,000 freshmen participate in Service First, painting and assisting with school facilities for a day over Labor Day weekend, and for many, this leads to further involvement through educationally based service projects advised by the Community Service Office, Campus Y, Greek Life, and more.

For more information about these partnerships and others with public schools, visit the noted Web addresses, as well as <http://www.gephardt.institute.wustl.edu>, <http://www.communityservice.wustl.edu>, and the academic units' Web sites at www.wustl.edu.

- Alberti Program—Architecture for Young People (http://samfoxschool.wustl.edu/alberti_program), Sam Fox School of Design & Visual Arts
- "Rediscovering the Child: Interdisciplinary Workshops in an Urban Elementary School" (<http://impact.wustl.edu/k12.html>),



In the Alberti Program—Architecture for Young People, selected fourth- through ninth-graders learn about architecture from University students. One highlight is sharing projects with parents and grandparents.

American Culture Studies Program in Arts & Sciences

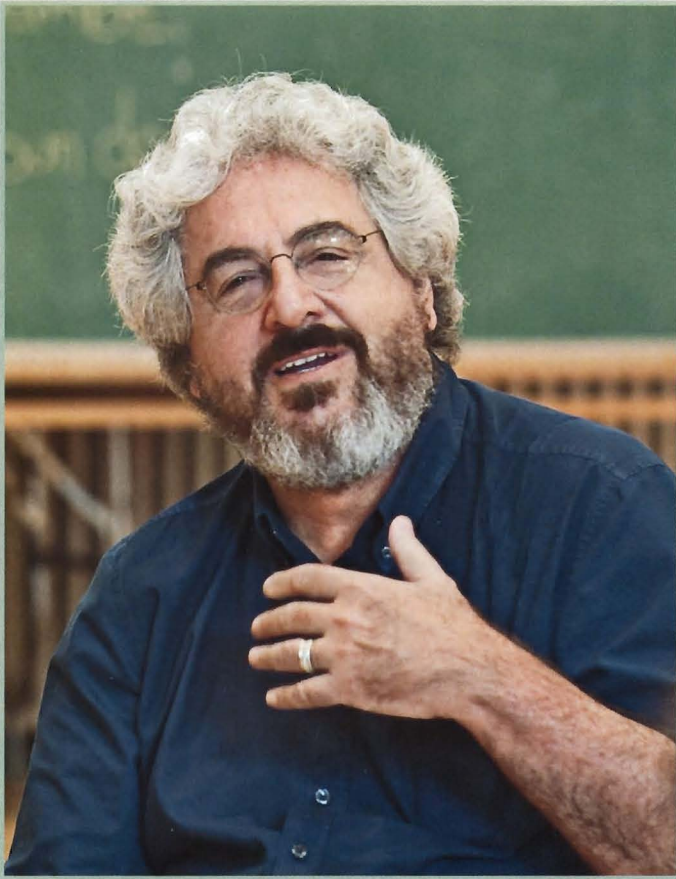
- Junior Achievement Program, where MBA students teach public school students basic business skills
- NSF GK-12 Fellowship (<http://www.engineering.wustl.edu/gk12>), School of Engineering & Applied Science
- Law-Related Education Initiative (<http://impact.wustl.edu/k12.html>), School of Law
- Students and Teachers as Research Scientists (STARS) (<http://impact.wustl.edu/k12.html>), Pfizer-Solutia Partnerships of Universities
- Young Scientist Program (<http://ysp.wustl.edu>), School of Medicine

Coming together for the children

In sum, helping all young people in the St. Louis area reach their educational and lifelong potential is an obligation, as well as an undertaking critical to the St. Louis region's best future. As the University and its community partners move forward on all fronts to accomplish that goal, work in the days and years ahead will be both rewarding and challenging. But as Lawlor says: "The biggest enemy of all endeavors to improve public school education is cynicism and skepticism about whether schools can get better. They can get better." 📖

Judy H. Watts is a freelance writer based in St. Louis and a former editor of this magazine.

For more information, visit: <http://impact.wustl.edu/k12.html>.



Whitney Curtis

Harold Ramis, AB '66,
screenwriter, director, actor

Wit & Wisdom of Washington University

The editor of *The Yale Book of Quotations* shares famous sayings expressed by Washington University faculty and alumni.

BY FRED R. SHAPIRO

Quotations are the backbone of much of literature, and of the transmission of art and thought more generally. Texts refer to other texts. Today, the World Wide Web links documents through hypertext connections, but such connections have always been pivotal to human discourse. Ralph Waldo Emerson wrote, "By necessity, by proclivity, and by delight, we all quote." Delight is our natural response to the monuments of creativity and wisdom, kept alive by quotations—a communal bond uniting us with past culture and with other lovers of words and ideas.

Compiling *The Yale Book of Quotations* put me in a unique position to assess the contributions of Washington University in St. Louis to our discourse and culture, our politics and science. One of the ways a great university leaves its mark is through quotations written or uttered by its faculty and alumni. In this article, I examine Washington University's quotational legacy, by citing sayings that appear in *The Yale Book of Quotations* or that I identified through research after the publication of my book.

The most quotable Washington U. person appears to be playwright Tennessee Williams, who attended the University in 1936 and 1937. The following are his most celebrated lines:

They told me to take a streetcar named Desire, and transfer to one called Cemeteries, and ride six blocks and get off at—Elysian Fields!

—Tennessee Williams (1911–83), *A Streetcar Named Desire* (1947)

Turn that off! I won't be looked at in this merciless glare!

—Tennessee Williams, *A Streetcar Named Desire*

STELL-LAHHHHH!

—Tennessee Williams, *A Streetcar Named Desire*

I don't want realism, I want magic!

—Tennessee Williams, *A Streetcar Named Desire*

I have always depended on the kindness of strangers.

—Tennessee Williams, *A Streetcar Named Desire*

Make voyages!—Attempt them!—there's nothing else.

—Tennessee Williams, *Camino Real* (1953)

What is the victory of a cat on a hot tin roof?—I wish I knew. ... Just staying on it, I guess, as long as she can...

—Tennessee Williams, *Cat on a Hot Tin Roof* (1955)

I'm not living with you. We occupy the same cage.

—Tennessee Williams, *Cat on a Hot Tin Roof*



WUSTL Archives

Tennessee Williams,
alumnus & playwright

*We're all of us
sentenced to solitary confinement inside our own skins,
for life!*

—Tennessee Williams, *Orpheus Descending* (1958)

The University nurtured many notable writers besides Williams, including John Gardner, William H. Gass, A.E. Hotchner, Howard Nemerov, and Mona Van Duyn, the first woman to be named Poet Laureate of the United States:

*And I speak to you now with the land's voice,
It is the cold, wild land that says to you
A knowledge glimmers in the sleep of things:
The old hills hunch before the north wind blows.*

—Howard Nemerov (1939–91), University faculty member (1965–91), including the Edward Mallinckrodt Distinguished Professor of English, *"A Spell Before Winter"* (1962)

*In the spring of 1948 I was dispatched to Cuba to make
a horse's ass out of myself by asking Ernest Hemingway
to write an article on "The Future of Literature."*

—A.E. Hotchner, AB '40, JD '40, *Papa Hemingway: A Personal Memoir* (1966)

YOU HAVE FALLEN INTO ART—RETURN TO LIFE.

—William H. Gass, the David May Distinguished University Professor Emeritus in Humanities, *Willie Masters' Lonesome Wife* (1968)

*"Poor Grendel's had an accident," I whisper. "So may
you all."*

—John Gardner (1933–82), AB '55, *Grendel* (1971)

*For what is story if not
relief from the pain/ of the
inconclusive, from dread of
the meaningless?*

—Mona Van Duyn (1921–2004), University faculty member (1950–90) and Poet Laureate of the United States, *"Endings"* (1992)



WUSTL Archives

Mona Van Duyn, University
faculty & Poet Laureate of
the United States

Washington University alumni also have excelled in the realm of more popular literature, such as Irma S. Rombauer (1877–1962), who wrote *The Joy of Cooking* (1931); and Shepherd Mead (1914–1994), AB '36, who authored *How to Succeed in Business Without Really Trying* (1952), which was adapted into a hit Broadway show. Screenwriter/director/actor Harold Ramis, AB '66, though, may be the creator of some of the most classic film lines:

*Over? Did you say "over"? Nothing is over until we
decide it is! Was it over when the Germans bombed
Pearl Harbor?*

—Harold Ramis, AB '66, *Animal House* (1978)
[with Douglas Kenney and Chris Miller]

Toga! Toga!

—Harold Ramis, *Animal House*

He slimed me.

—Harold Ramis, *Ghost Busters* (1984)
[with Dan Aykroyd]

This chick is toast!

—Harold Ramis, *Ghost Busters*

An interesting nexus of activism, business, government, law, journalism, politics, and social science exist where many of Washington University's most prominent alumni and professors may be found:

*I have drawn my four square checker. Now won't
you take a sheet of paper and draw yours? Make all
sides equal. Write "Physical" on the left-hand side,
"Mental" at the top and "Social" on the right-hand
side, "Religious" under the base. ... There you have the
picture of the Magic Square—the symbol of the richer,
fuller life, the emblem that you are to follow.*

—William H. Danforth (1870–1956), Class of 1892, founder of Ralston Purina Company and author, *I Dare You!* (1941)

*A President is best judged by the enemies he makes
when he has really hit his stride.*

—Max Lerner (1902–92), AM '25, journalist and author, *New York Star* (January 4, 1949)

*[I am] not conscious of falling under any of
those ornithological divisions.*

—Clark M. Clifford (1906–98), LLB '28, secretary of defense, key presidential advisor, and "super lawyer," quoted in *New York Times* when asked whether he was a hawk or a dove on the Vietnam War (January 20, 1968)

We need to reduce that massive array of government laws, rules, and regulations that give an inflationary bias to the economy and often also reduce job opportunities in the process. To turn an old phrase, my advice to the Congress is "Don't just stand there, undo something."

—Murray L. Weidenbaum, the Edward Mallinckrodt Distinguished University Professor, economist, and former chairman of Council of Economic Advisors, *Chicago Tribune* (September 5, 1977)

Women may think like men, act like men, live the rules of the male world, and think they live in the male world until something happens that shows how wide the chasm really is.

—Jessie Bernard (1903–96), PhD '35, sociologist and feminist, *The Female World* (1981)

It was very important to me to establish myself as a journalist. I had been famous at nineteen for something that should ordinarily have required no effort other than, you know, getting good grades and getting into college. I was famous because I had walked onto the campus of the University of Georgia. I was famous for being black. ... But I wanted to be famous for something that I could do, that rested really on my abilities.

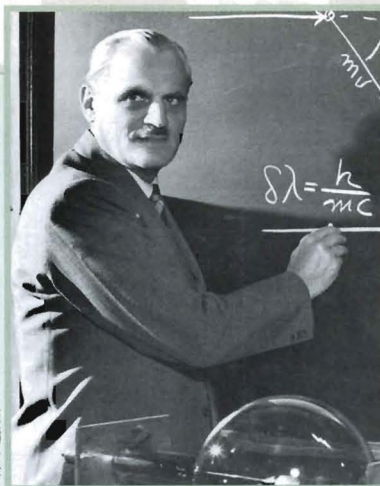
—Charlayne Hunter-Gault, Russell Sage Fellow c. 1967–68, journalist, quoted in *Contemporary Heroes and Heroines* (2000)

Security is always seen as too much until the day it's not enough.

—William H. Webster, JD '49, director of the CIA, director of the FBI, and federal judge, from debate at University of California, Santa Barbara (March 3, 2002)

A Labor of Love

Fred R. Shapiro published *The Yale Book of Quotations* (Yale University Press) in fall 2006. According to Shapiro, the book is the first major collection of quotations to emphasize modern and American sources, as well as the first quotation book of any kind to use state-of-the-art research methods to collect the most famous quotations and trace them to their accurate origins. The book has attracted considerable worldwide attention, including coverage by the *New York Times*, *Washington Post*, *Wall Street Journal*, *Times* (London), *New Yorker*, *National Public Radio*, *Today* show, and many other media outlets. *The Wall Street Journal* recently named *The Yale Book of Quotations* as the No. 2 most-essential reference book (behind only *The World Almanac*). For more information, visit: <http://yalepress.yale.edu/yupbooks>.



Arthur H. Compton, University chancellor (1945–53) & Nobel Prize-winning physicist

Finally, Washington University in St. Louis has been home to pathfinders in science, technology, and medicine, ranging from physics to computers to human sexuality:

The Italian navigator [Enrico Fermi] has landed in the New World.

—Arthur H. Compton (1892–1962), University chancellor (1945–53) and Nobel Prize-winning physicist, coded telephone message to James B. Conant after first controlled nuclear chain reaction, December 2, 1942, quoted in *Corbin Allardic*

and Edward R. Trapnell, *The First Pile* (1946)

A network of such [computers], connected to one another by wide-band communication lines [will provide] the functions of present-day libraries together with anticipated advances in information storage and retrieval and [other] symbiotic functions.

—J. C. R. Licklider (1915–90), AB '37, AM '38, computer scientist, speaking to his pioneering vision of a future global computer network in "Man-Computer Symbiosis" (1960)

A more concise picture of the physiologic reaction to sexual stimuli may be presented by dividing the human male's and female's cycles of sexual response into four separate phases. Progressively, the four phases are: (1) the excitement phase; (2) the plateau phase; (3) the orgasmic phase; and (4) the resolution phase.

—William H. Masters (1915–2001), physician, faculty member (1943–2001), and co-director of the Masters & Johnson Institute, along with Virginia E. Johnson, *Human Sexual Response* (1966)

...in a democratic society we must put our trust ultimately in the good sense of an informed people; that we—the scientists—must communicate more fully our knowledge, our judgments, and, yes, our human qualities to the public and its elected representatives; and that the press bears responsibility for mature and accurate reporting.

From some quarters has come fear of new knowledge. In our view, however, the future well-being of the human family depends on continuous creativity and new discovery. This is the faith we share with Alfred Nobel.

—Daniel Nathans (1928–99), MD '54, 1978 Nobel laureate in Physiology or Medicine, *Les Prix Nobel, The Nobel Prizes 1978* (Stockholm 1979)

Fred R. Shapiro, editor of *The Yale Book of Quotations* (Yale University Press, October 2006), is associate librarian for collections and access and lecturer in legal research at Yale Law School.



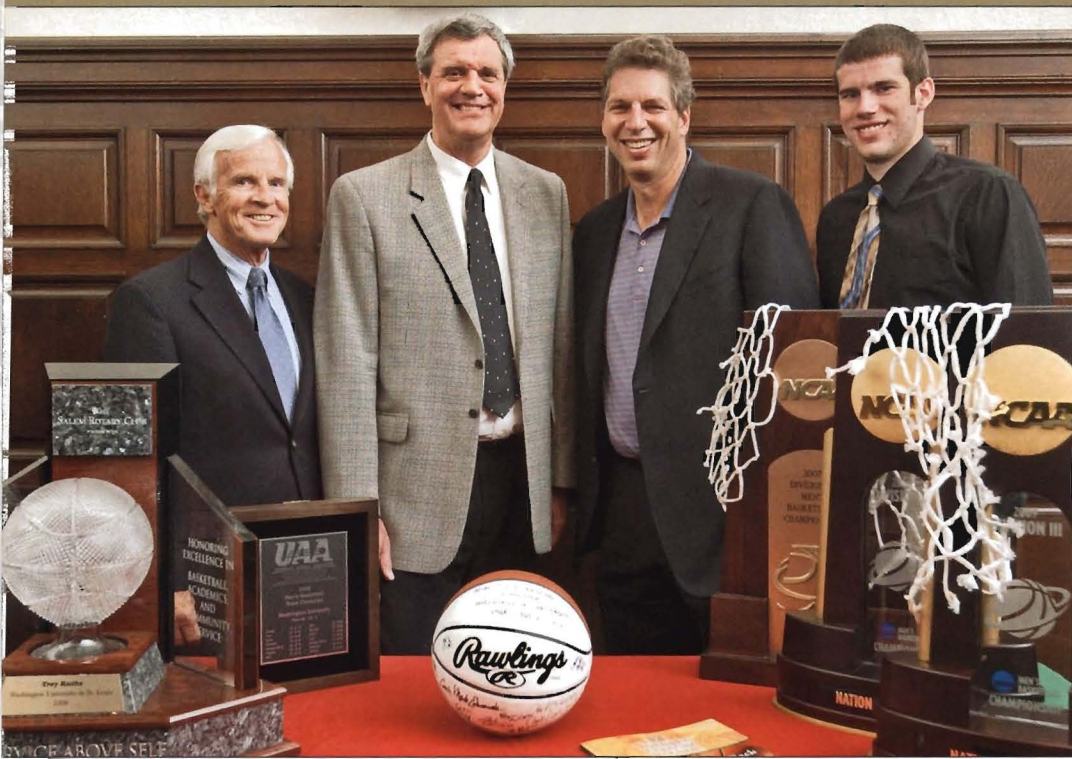
Alumnus and former beer executive Don Blaustein showed marketing acumen early, helping bring men's basketball back to Washington University nearly 30 years ago.

BY RICK SKWIOT

A Thirst for Basketball and Business



Jennifer Weibord, BFA '92



John Schael (left), athletics director; Mark Edwards (second, left), men's basketball coach; and basketball player Aaron Thompson (right) presented Don Blaustein with a basketball autographed by the 2009 men's championship team. Blaustein was on campus for his 30th Reunion when he received this recognition for his advocacy for basketball's reinstatement.

But, at first, not as much fun as he thought. "Little did I know, the government was changing the drinking laws. The 18-year-old limit I had in New York was becoming 21 nationwide," Blaustein says. "Yes, even then I had some interest in beer."

He also was surprised to learn that Washington University had intercollegiate teams in football, baseball, and other sports, but no men's varsity basketball. Basketball had been discontinued in 1970. "I did not do my due diligence," Blaustein says.

Bringing back men's basketball

Blaustein fed his thirst for basketball by leading intramural teams to campus championships. Yet he still believed a varsity men's basketball team would contribute immensely to campus life. After connecting with other students interested in reviving intercollegiate basketball, Blaustein started the BBB—Bring Back Basketball. He promoted the organization from his post as *Student Life* sports editor.

"I had a personal desire to bring back basketball for the benefit of the school," says Blaustein, who found an ally in John Schael, the newly appointed director of athletics.

"As the 'new man' sitting in the athletic director's chair, I was impressed with Don's maturity and positive approach to reaching such a lofty goal," Schael says.

Blaustein started a basketball club that played games against local schools, such as Concordia Seminary and Lindenwood College. "We filled up the old field house for club games," says Blaustein, who served as player-coach.

He wrote articles, orchestrated events, and helped create a campus "buzz" for basketball.

"With his enthusiasm and focus, Don established trust within the University's administration, cooperation within athletics, momentum with his fellow students,

Don Blaustein scored a dream career, traveling the globe and drinking beer. As past CEO of Heineken USA and former executive for Guinness LTD in Asia, Australia, Latin America, the Caribbean, and Canada, Blaustein mixed beer and business to build an enviable résumé.

"I got to see the world and meet people, to experience cultures, and to market beer where it is a part of a city, a region, a country," says Blaustein, BSBA '79. "I saw it all visiting restaurants and bars, retailers and consumers. It was extraordinarily special."

Blaustein values his business successes and takes pride in numerous civic contributions. One achievement, however, stands out: helping bring back Bears basketball to Washington University. "It's one accomplishment of which I feel particularly proud," he says.

An early interest in basketball and beer

At Bellmore Kennedy High School in Long Island, New York, Blaustein played "pretty serious" basketball. But in 1975 he eschewed basketball-scholarship offers to come to Washington University, which his brother, then at Northwestern University, recommended.

"I hadn't heard of Washington U., but I visited on a spring day and fell in love with the people and the campus," Blaustein says. "I thought to myself: 'This is where I want to go to school.'"

He recalls arriving in St. Louis, "seeing the Arch and the Anheuser-Busch signs. I remember thinking, 'Gosh, this is going to be an interesting and fun place.'"

and renewed hope among alumni looking in from the outside," Schael says.

Blaustein's work finally paid off, but not until two years after he graduated. And another three decades nearly passed before he was honored for his pivotal role in resurrecting men's basketball.

While on campus this past spring for his 30th class Reunion, Blaustein received a basketball autographed by the 2009 men's basketball championship team. Schael and Mark Edwards, head coach since men's basketball was reinstated in 1981, presented Blaustein with the keepsake. Blaustein also received a bound book of *Student Life* articles from his BBB days from Alumni & Development Programs.

"It was one of the more special days in my life," Blaustein says. "I was so delighted and so touched."

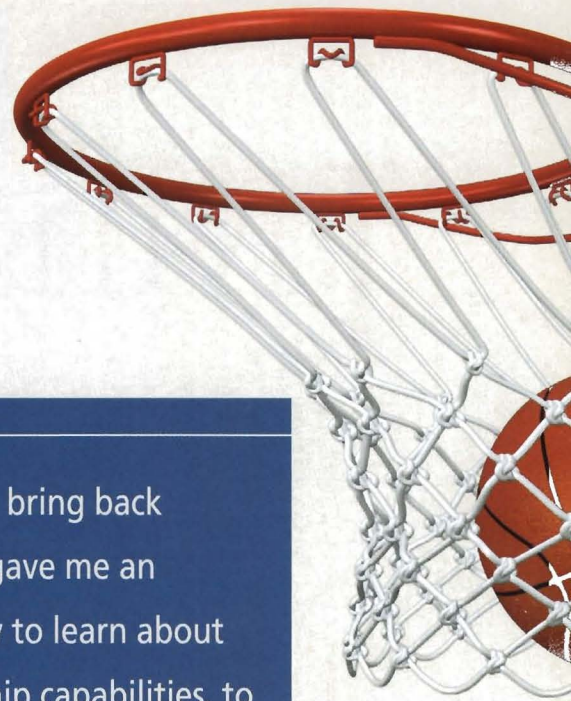
Blaustein's "renewed connections" with Washington University may bring him back more often. He hopes to help the team, speak to the community, and recruit for the University. "Washington University was and continues to be a special place," he says. "I was reminded of that during my Reunion." He also was reminded of the many wonderful friendships he still has from his University days, as many buddies also attended the Reunion.

His return came in the midst of a distinguished business career. After earning an MBA from Northwestern in 1980, Blaustein joined Kraft/General Foods, working to help market Kool-Aid, Tang, Country Time Lemonade, and other beverages. After five years, he was recruited by Diageo/Guinness PLC's marketing and sales arm. Over the next 16 years, he held numerous positions for the company, including managing director of Guinness Australia, president of Guinness Caribbean & Latin America, president of Guinness Canada, and vice president sales & marketing in the United States, selling Guinness Stout and Bass Ale to the world.

Blaustein left Guinness in 2001 to start his own consulting business, working with Molson and other brewers and beverage marketers. In 2005, he got a call—and an offer he could not refuse—from Heineken USA. There he served on the company's management committee as senior vice president of sales prior to becoming, in 2007, president and CEO. He subsequently led the successful launch of Heineken Light in America and built market share for the company's Dos Equis and Tecate Mexican beer imports.

University "like the beer business"

He credits much of his success to lessons he learned at Washington University—which he likens to the brewing industry.



"Working to bring back basketball gave me an opportunity to learn about my leadership capabilities, to be a part of a special team, and to participate in many social opportunities," he says. "I learned a ton, and it was a perfect setup for going into the beer business."

"One of the great things about the University is that it has a great group of people who are really smart but who also enjoy life—like the beer business," Blaustein says.

Experience gained as a basketball coach, sports editor, and campus community activist helped him develop skills he later parlayed into a successful business career. "Working to bring back basketball gave me an opportunity to learn about my leadership capabilities, to be a part of a special team, and to participate in many social opportunities," he says. "I learned a ton, and it was a perfect setup for going into the beer business."

Beyond his professional life, Blaustein is involved with major charities, including serving on the boards of both Give Kids the World and Family Services of Westchester, New York. He and his wife, art historian Roni Feinstein, have two children in college.

And with regard to his future, Blaustein, who left Heineken in August, is sure to be brewing something good.

Rick Skwiot is a freelance writer based in Key West, Florida.

Living in Hope

After being diagnosed with lung cancer, alumna Lori Hope used her skills as a journalist to write an affirmative book on how to approach and talk with those battling cancer.

BY STEVE GIVENS

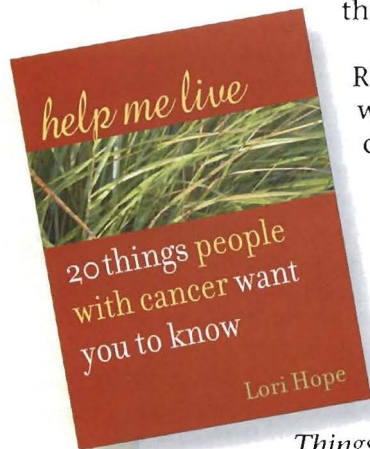
Lori Hope, AB '77, was diagnosed with lung cancer in 2002. Her innate openness and background as a journalist and documentary filmmaker naturally led her to start sharing her experience—with just about anyone. “Somebody at a grocery store would ask me how I was, and I’d say, ‘OK ... but I was just diagnosed with cancer,’” says Hope, who graduated with a bachelor’s degree in philosophy.

Most people, she says, would respond compassionately—but sometimes inappropriately—saying things like “Oh, no, you have cancer? My aunt died of cancer!” Or “What’s your prognosis?” She knew they meant well and didn’t mean to dash her hope, but that’s what happened during many of these conversations. As an antidote, her creative juices began to bubble.

Not long after her diagnosis, Hope, a resident of the San Francisco Bay area, went on a vacation planned months earlier with family and friends. Although excited about the getaway to a Northern California resort area, she nevertheless worried about her upcoming surgery and prognosis. Yet, she felt certain there must be something to be gained from her situation.

“I went outside and sat on the deck, listening to the roaring Russian River below,” she recalls, “and I wrote in my journal, ‘Somebody ought to write a book or make a documentary about how to support people with cancer, what to say and what to do.’”

At her doctor’s urging, she shelved the idea until the cancer was behind her. Then one day, months after treatment ended, while Hope was teaching a class on documentary production, one of her students noted that making documentaries and writing books were similar in terms of organizational principles and required skills, such as researching, planning, and thinking critically. The student asked Hope if she had ever considered writing a book. And so the idea, dormant for nine months, resurged. The result was *Help Me Live: 20 Things People with Cancer Want You to Know*, published in 2005 by Celestial Arts, an imprint of Random House. Ironically, the student who asked that question was the publisher.





Previous page: A backer of lung cancer advocacy groups, Lori Hope supports the third annual Kites for Awareness fundraiser at the Marina Green in San Francisco, on August 8, 2009. At left, Hope is with Tracy Sestilli, event organizer and founder of the nonprofit Beverly Fund.



Max Morse

"I think it's important, however, to start with asking such questions of a person suffering cancer: 'What is it that you need from me?'"

"It was a natural culmination of my career up until that point as a writer, filmmaker, and commentator," says Hope, a former smoker who quit almost 20 years before her diagnosis. "I love listening to stories, and although the cancer experience is different for every person, the feeling of fear and the need for hope and compassion are universal. They connect us across ethnicities, social class, and age. That's what I enjoyed most about writing the book—finding that connection, that commonality, and sharing it."

The book is an intimate guide for families, partners, and friends of individuals diagnosed with cancer, detailing 20 messages to help loved ones show how much they care and avoid inadvertently adding insult to injury. Because of all the diverse stories she collected, Hope realized that her book should not provide rigid advice.

"No easy solutions exist here," says Hope, who prefers the term "punched by cancer" to the euphemistic and less accurate "touched by cancer." "I think it's important, however, to start with asking such questions of a person suffering cancer: 'What is it that you need from me? Would you like my advice, or do you just want me to listen? Do you want me to be here with you, or would you rather be alone?' Asking permission is huge."

An award-winning producer of more than 20 documentaries, a professional blogger, and a former medical reporter and newspaper editor, Hope loves using her skill and passion as a communicator to inspire others to find the pleasure in supporting those who are suffering, she says.

Following stints as a general assignment reporter, news anchor, and medical correspondent, Hope became a staff producer at the NBC television affiliate in Portland, Oregon, making documentaries about those on the edges of society, including the mentally ill, drug-addicted mothers, homeless families, and teenaged parents.

"I've always been interested in people and cultures, and I think that's what drew me to journalism, and in particular to making documentaries," says Hope, a self-described social activist since her high school days in St. Louis. "My initial impulse when almost anything happens to me is, 'I should write about it' or 'This is a documentary.' Ben Franklin once said, 'The greatest question in life is what good will I do with it?' And I interpret that to mean, 'How will I use whatever experience, whatever suffering, that happens to me?' So rather than just accept the suffering that comes along, I need to use it to help others to create something."


Hope says the basic principles for helping those who have cancer are simple and universal, and all stem from the concept of "being there."

"When you know somebody who's been struck by cancer, you need to be there," she says. "Yeah, you need to stop at the grocery store, and you need to feed your family. But when somebody you know has cancer and he or she needs your ear for half an hour, you should put that first, I believe. I think you establish yourself as a positive role model with your family when you show that as a priority."

Perhaps the most crucial thing Hope learned as a philosophy student at Washington University was to think critically and analyze and synthesize ideas. But she also learned compassion, she says. She recalls the class she took from famed writer and teacher Stanley Elkin and reading his book, *The Franchiser*, in which the main character—as did Elkin—struggles with the onset of multiple sclerosis.

"That was a very powerful influence, because it put me in the skin of somebody who was experiencing something that was just completely foreign to me. I think it taught me a certain kind of compassion," says Hope, who has been featured nationally in the media since her book came out, including *The Wall Street Journal* and NBC's *Today* show.

Tongue firmly planted in cheek, she says, Hope calls herself a "compassion evangelist." But in reality, that description seems fairly apt. She spends much of her time these days traveling and speaking to groups large and small about the book's message of hope and compassion, preaching "not to the choir, but to the masses," she says. She also volunteers with several lung cancer organizations, including serving on the executive board of the Bonnie J. Addario Lung Cancer Foundation. In the end, she says, the idea of hope outweighs all else for those battling cancer.

"Even when people do not survive cancer, they can be healed," Hope says. "Obviously, survival is key, but so is healing. My focus is on helping people heal and live well, however much time they have left in their lives." 

Steve Givens is associate vice chancellor and executive director of the University News Service.

For more information, visit: <http://www.lorihope.com>.

His Life Is a Circus

Alumnus Joel Emery, executive director of Circus Flora, helps bring big joy to families near and far.

BY TERRI NAPPIER

Whitney Curtis



"There is work that is work, and there is play that is play; there is play that is work, and work that is play. And in only one of these lies happiness."

—Gelett Burgess

Joel Emery found author Burgess' secret to happiness when he took the reins of Circus Flora nearly three years ago. As executive director of St. Louis' resident circus, Emery, AB '97, juggles many acts. He finds great pleasure sharing Circus Flora's magic with as many people as possible and helping preserve the historical, cultural practices of the circus.

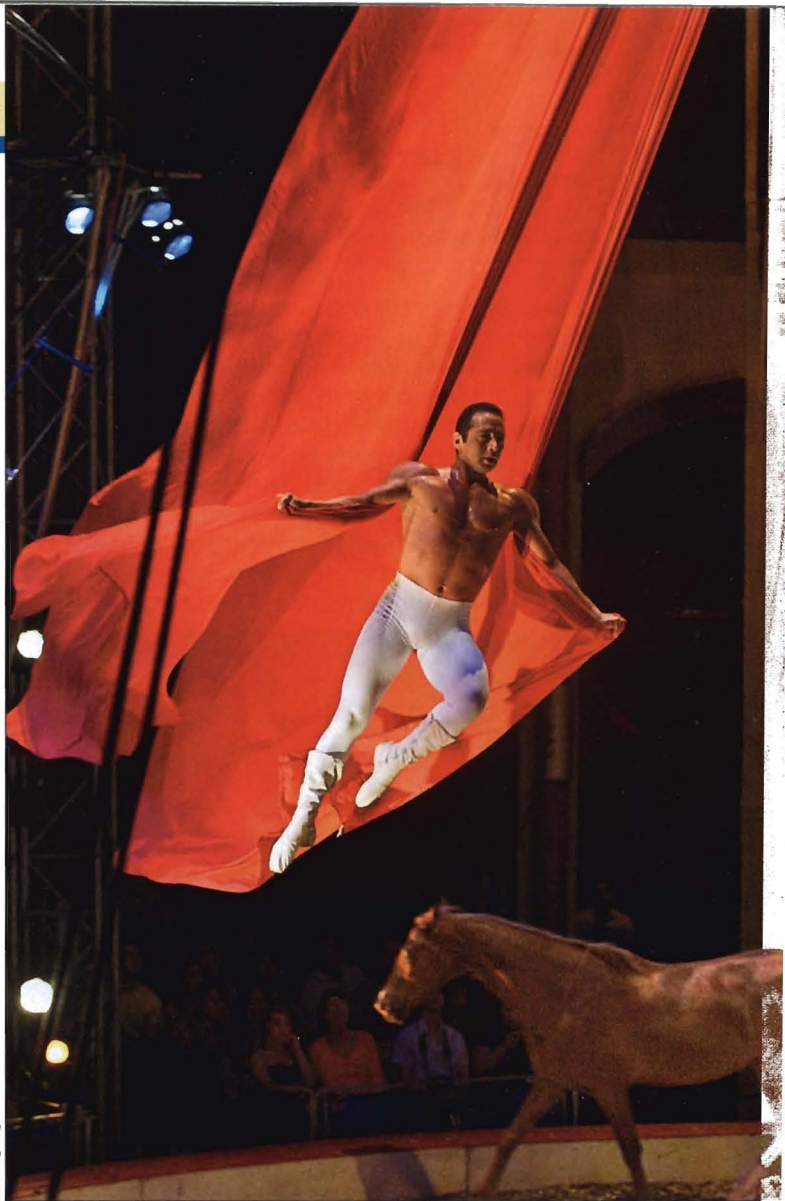
Circus Flora is one of only three resident professional circuses in the country. Much to Emery's delight, the burgeoning circus performed for its largest number of attendees in its 23-year history in June 2009. Some 23,000 people packed the Big Top tent during the 2½-week run. For each show, nearly 1,150 beheld trapeze artists, high-wire acts, acrobats, animals performing tricks, clowns, a hula-hoop artist, and more.

With its single sawdust ring, Circus Flora blends old-world traditions with contemporary production techniques. Every year, the circus performs around a theme. Recently audiences witnessed "Medrano"—a look at the mystery and intrigue of the French circus in the late 1880s. In 2008, Circus Flora brought Robin Hood and his Merry Men back to life in "Sherwood Forest."

"We integrate contemporary production practices, with our lighting and sound and theater techniques," says Emery, who studied cultural anthropology and political economy at the University. "At the same time, we keep one foot planted firmly in the past. We have the sawdust ring, which is traditional, and we have animals in the show, because the circus actually originated with horses."

One of Circus Flora's finest horses is Mammot, a 13-year-old American Saddlebred, ridden by Sasha Nevidonski, an equestrian-aerial-ballet artist (see above). Other animals include dogs both large and small, a miniature donkey, an African pygmy goat, a paint pony, and a Romany rooster.

Prior to 2000, the show featured Flora, an African elephant for whom the circus is named. One of the founders, Ivor David Balding, adopted Flora in 1984 after



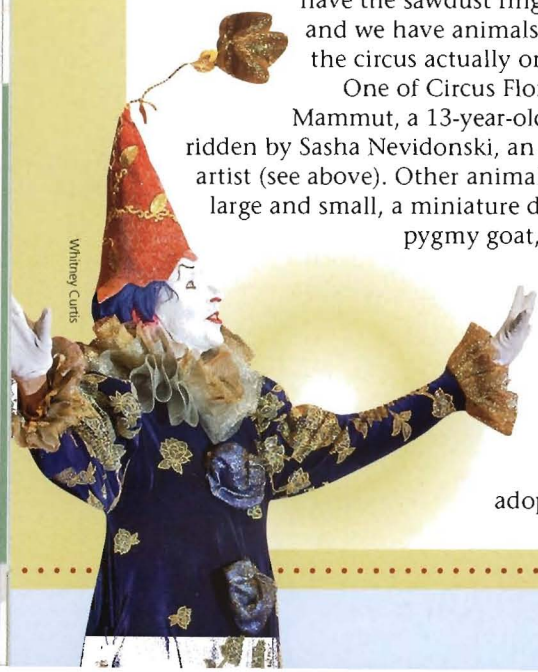
Dan Donovon

poachers killed her mother. She now lives at an animal sanctuary in Hohenwald, Tennessee. According to Emery, Circus Flora—for practical and philosophical reasons—will continue to feature only domestic animals.

The human performers often come from multi-generational circus families. "We have fifth-, sixth-, seventh-generation circus performers," Emery says. "We have the Flying Wallendas high-wire act, for example. Last year, they had their eighth generation, Little Ysabella, walk on the wire in our circus."

Emery values the family environment. "It's in the back lot; it's in the audience; it's part of the whole Circus Flora experience," he says.

Emery appreciates the intimacy of the circus as well. No one sits farther than 40 feet from the ring, so the audience watches human and animal feats of grace and agility up close. "We offer no computer-generated special effects here; this is real performance," he says. "Occasionally a safety harness appears, although the Flying Wallendas don't use a harness or a net. They are up there, and if something were to go wrong, something would."



Whitney Curtis

Left: Sasha Alexandre Nevidonski, an equestrian-aerial-ballet artist, and his American Saddlebred, Mammut, are one of the finest human-animal acts of the circus.

Below left: Circus Flora's theater director, Cecil MacKinnon, aka "Yo-Yo the Clown," narrates each show.

Emery conducts his own tasks, however, with feet planted firmly on the ground. He collaborates with two other full-time employees—the artistic director, Balding, and the development director, Kate Poss—on best marketing practices. (Together, they work with 60 seasonal employees: artists, crew, technical staff, etc.) Emery brings to the task several years' experience as vice president of operations for a title insurance company and in development for nonprofits—Support Dogs, Inc., and Boys and Girls Town of Missouri.

"At Circus Flora, I manage the business functions of the organization, as well as fundraising and development," Emery says. "Yet there is an artistic component as well."

One big challenge Emery faces is growing the nonprofit's contributor base, which is especially hard in the current down economy.

Operating what is basically a once-a-year event presents him with another complexity. When he worked in the title insurance industry, Emery says, monthly, quarterly, and annual cycles emerged. After launching a sales initiative, he could assess results and make changes fairly quickly. With the circus performing in St. Louis annually, if he makes a change, he cannot assess, adapt, or recover for another year.

The circus allows for innovation, though. Last summer, Emery added a "barbecue with the performers" on the second Sunday between the matinee and evening performance, which had low turnout in 2008.

"The barbecue sold too well," Emery says jokingly. "We had several hundred people there and not enough tables and chairs. Fortunately, because service was a little slow, tables turned over. We sold a lot more tickets for the second show as a result."

A peanut-free preview and Friday afternoon matinees at a discounted price were other 2009 additions. "We worried about getting people to the Friday matinees at all, and both shows sold out."

Emery says Circus Flora welcomes opportunities to partner with area organizations: with businesses on corporate outings and with other nonprofits on innovative fundraising events. "We offer a 25-percent nonprofit discount," he says. "Last year, we partnered with churches and a children's day camp that sold tickets at full price. Circus Flora then gave back about 25 percent to each organization."

The circus also reaches out to the community and builds brand recognition through summer service programs. "Share the Circus" gives tickets to families from underserved communities to encourage family bonding. "Community Circus Camps" allow underserved children to learn circus skills, trust, and teamwork, all under the Big Top. "Tumbling and Teamwork" partners a Circus Flora performer with children from an area nonprofit, whereby students receive weeks of acrobatic lessons culminating in a performance during the circus' summer run. And

the "Ianna Spirit Riders" preserve the oldest circus art form of human-and-horse exhibition.

"We try to create more than the annual circus that is visual and public," Emery says. "Connecting to the community is vital."

Connecting to a permanent locale has been central to the circus's growth as well. Thanks to the efforts of Vince Shoemehl, Jr. and others in 2001, Grand Center is now Circus Flora's home. Before 2001, Circus Flora roved various St. Louis parks and performed at different times of the year. Now the Big Top goes up every June behind Powell Symphony Hall.



Dan Donohue

Above: Artist Alesya Gulevich dazzled circus-goers with her high-powered hula-hoop act. She also dazzled her way into the Guinness Book of World Records by performing with the most hula hoops at one time—107 hoops for five rotations—on Monday, June 15, 2009.

"We've had between 5 and 10 percent increases in attendance every year since then," Emery says.

Emery stresses, however, that the nature of the circus is to move. Over the years, Circus Flora has performed at the Spoleto Festival in Charleston, South Carolina, and the Kennedy Center in Washington, D.C.; it spent five summers performing on Nantucket Island. The Nantucket Athenaeum lost funding in 2009, so Emery is seeking other touring opportunities.

"The reasons to tour are multiple," he says. "Obviously one is financial, but another is to provide our artists with more work," leading ultimately to more magical live performances for families. ☐

Terri Nappier is editor of this magazine.

For more information, visit: <http://www.circusflora.org>.



William B. Pollard III, AB '70

Jennifer Weisbord, BR '02

Bill Pollard clearly recalls the moment he decided to become a lawyer. “Senior year at Washington University, I took a walk across campus one cold afternoon in February. I was trying to decide between law school and graduate study in economics. From my reading about Thurgood Marshall and other distinguished lawyers, I had learned something about the law and what it could accomplish, and I decided that being a lawyer would be a better fit for my interests.”

Pollard went on to a legal career that has included leading roles in complex commercial disputes, white-collar criminal cases, and grand jury and regulatory investigations. Today he is a Manhattan attorney and partner in the litigation boutique firm Kornstein Veisz Wexler & Pollard. He has twice been named a New York Super Lawyer.

Student leader

Pollard grew up in St. Louis and graduated from Saint Louis University High School. At Washington University he majored in political science in Arts & Sciences, but it was an economics professor, Marshall Hall, who really engaged his interest. “Professor Hall was the kind of great teacher who would sit down with students and debate ideas. He injected facts into the discussion that really made you step back and think.”

Pollard credits both Hall and the late Steven Schwarzschild, professor of philosophy, for inspiring students to strive for excellence. “Professor Schwarzschild taught us to think rigorously. He insisted that we do the work and do it well, and he set standards that still serve me today. And his wife made the best coffee I’ve ever had.”

Pollard thrived academically, but he recalls: “There were only three black students in my class. While the classes behind me had more students of color, there still was a sense of isolation on campus.” Pollard became an officer in the Association of Black Collegians. “There were many professors and administrators I came to respect and admire as teachers, educators, and individuals—particularly Chancellor Thomas Eliot, Vice Chancellor Lattie Coor, and others who believed that the University needed to grow and lead.”

Pollard in turn earned the respect of faculty, administrators, and his classmates, and he was

A
Distinguished Graduate
Remembers Where
He Got His Start

chosen as the Commencement speaker in the spring of 1970. He finds the student body very different today. "Not only is there much greater diversity, but the students show amazing breadth and depth of intellectual curiosity. My father used to say that knowledge is cumulative and generational—we know more than our parents did, and students today are building on what we learned. One of the constants at Washington University is the intense involvement with students as individuals. The University is dedicated to helping students succeed, and that hasn't changed in 40 years."

Legal career

After graduation Pollard headed for New York City, where he earned both a JD and an MBA from Columbia University in 1974. During law school he had a summer job at the New York law firm Paul, Weiss, Rifkind, Wharton & Garrison. There he met his mentor, Arthur L. Liman, the acclaimed litigator who later served as chief counsel to the Senate's Iran-Contra investigation. Pollard recalls Liman's encouragement. "Arthur took me to dinner one evening, and he said, 'Do whatever you want to do after you graduate, but first come back to the firm and learn how to be a lawyer.'"

Pollard followed that advice, and he returned to the Paul, Weiss firm after finishing law school. "Arthur had a large role in shaping my early career," Pollard says. "At that time, young associates were taught the art and craft of practicing law. I had opportunities to write, go to court, take depositions, and help plan strategy. Not too many young lawyers at large law firms have that opportunity today."

In 1981, Pollard was appointed a federal prosecutor at the United States Attorney's Office for the Southern District of New York, consistently the venue for many of the country's most important cases. "I became a prosecutor to learn to try cases," he says. "Many lawyers serve for just a few years, but I stayed for 11. One interesting thing after another came up."

In 1988, Rudolph Giuliani, then the U.S. attorney, promoted Pollard to deputy chief of the criminal division. The office was aggressively prosecuting cases against organized crime, economic crime, and public corruption, and Pollard became an expert on asset forfeiture law and the effects of money laundering on financial institutions. He received the Postal Inspection Service's highest award for determining how the Medellin and Cali drug cartels

were using the Postal Service and airborne couriers to smuggle millions of dollars to South America, and for prosecuting those involved.

In 1993, Pollard joined three of his old friends from Paul, Weiss in a firm now known as Kornstein Veisz Wexler & Pollard, LLP. The firm represents corporations and individuals in a wide range of civil and commercial cases, dispute resolutions, government and corporate investigations, and white-collar criminal matters.

Giving back

"I've had a very interesting life, and Washington University is one of the institutions that helped make it possible," Pollard says. "I'm grateful for the opportunity to contribute."

Among Pollard's many contributions to the University is serving as a member of the Arts & Sciences National Council for 13 years. He continues to serve as a member of the Black Alumni Council and the New York Regional Cabinet. Since 2006, he has chaired *The Tie That Binds*, a scholarship giving initiative of African-American alumni. In 2005, Arts & Sciences honored him with a Distinguished Alumni Award, and the University recognized him with a Distinguished Alumni Award at Founders Day in 2007.

Chancellor Mark S. Wrighton says: "Bill Pollard is one of our most distinguished graduates and a wonderful friend of Washington University. His professional achievements have significantly benefited society, and his generosity gives today's students the opportunity to achieve their aspirations."

Pollard and his wife, Renée, have sponsored an annual scholarship in Arts & Sciences since 2001. They recently established the William and Renée Pollard Endowed Scholarship in Arts & Sciences. In 2007, they established the William B. Pollard, Jr. and Helen Proctor Pollard Endowed Scholarship at Saint Louis University High School in honor of his parents, both of whom were educators in the St. Louis Public Schools. The Pollards are Fellows and Life Members of the William Greenleaf Eliot Society.

Pollard says, "What I learned as an undergraduate at Washington University, inside and outside the classroom, is one of the cornerstones in my foundation of life experiences that have allowed me to have professional success and live an interesting and blessed life. Washington University truly is a special place, one made by special people, past and present." 📖

—Susan Wooleyhan Caine

2010 Travel Program Offers Exciting, Educational Excursions

The Travel Program offers you the opportunity to explore other cultures and experience firsthand places you may have only read about. It is open to alumni, parents, and friends of Washington University. The 2010 program includes destinations that will appeal to various ages and interests. Washington University faculty members will lead four of the trips, lending their expertise.

Please contact the Alumni Association Travel Program Office to request a 2010 Travel Program brochure at 314-935-7378 or 866-WUTRIPS, or send an e-mail to alumni.travel@wustl.edu. For more information, visit the Alumni Association Web site at travel.wustl.edu.

2010 Travel Program Schedule

January 22–30

Voyage of Discovery:
Wonders of the Galapagos
Islands

January 26–February 6

Legends of the Nile

January 31–February 8

Island Life in Tahiti and
French Polynesia

February 3–14

Cruise the Panama Canal

March 12–21

Amazon River Expedition

April 13–27

Treasures of South Africa

May 22–June 2

Fabled Islands of the
Mediterranean: Stepping
Stones of Civilizations

June 2–10

Tuscany-Cortona

June 23–July 3

The Great Journey Through
Europe: Switzerland/France/
Germany/Holland

July 5–13

The Baltic's Amber Coast:
St. Petersburg to Stockholm

August 15–24

Canadian Maritimes
Travel Leader: T.R. Kidder

August 29–September 6

Scotland
Travel Leader:
Elizabeth Childs

September 2–12

Waterways of Russia

September 5–13

Island Life in Ancient Greece
Travel Leader: Constantine E.
Michaelides

September 19–30

Bavaria Discovery, featuring
Oberammergau

September 22–October 1

Treasures of Morocco

October 7–15

Village Life in Dordogne

October 7–19

Grand Journey Spain
Travel Leader: Jim Davis

October 9–19

Ancient & Modern
Architecture of China

October 20–28

Amalfi: The Divine Coast



Travel Leaders



ELIZABETH CHILDS

*Associate Professor of Art History and
Archaeology*

*Chair, Department of Art History and
Archaeology, Arts & Sciences*

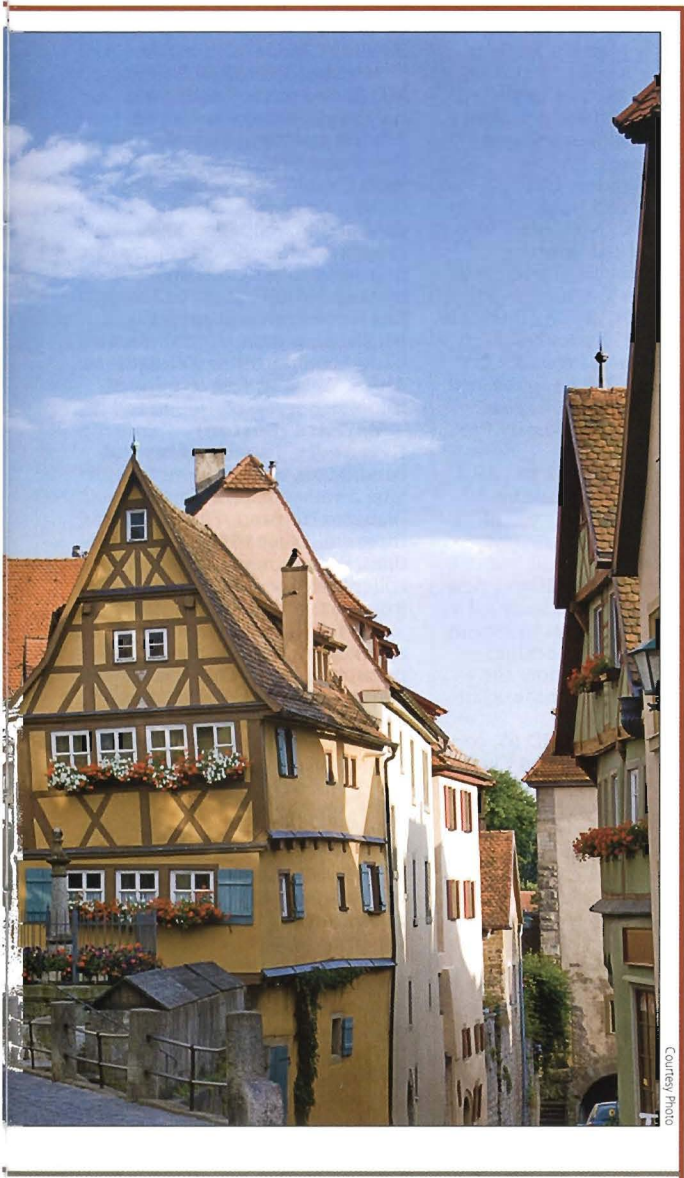
An international authority on modern
European art, Childs once served as a
consultant at the National Gallery of
Scotland. She leads "Scotland" in August.



JIM DAVIS

*Professor Emeritus of Political Science,
Arts & Sciences*

Although Davis' career focused largely
on American politics and public policy,
he has spent some of his "most memo-
rable" times in Spain. He leads "Grand
Journey Spain" in October.



Courtesy Photo

Alumnus Volunteer Spotlight

Steve Green, MBA '83

Chair, Alumni Board of Governors



Why do you volunteer for Washington University in St. Louis?

Washington University represents the future of our country and the world. We have the finest students, faculty, staff, and facilities. That combination should lead to global leadership and innovation in the years ahead, and I would like to participate in that process. As an alumnus, I am part of the University's history, but as a volunteer, I am also part of the future of Washington University.

What volunteer positions have you held at the University?

As a 1983 graduate of the Olin Business School, I have served in several roles over the years, including president of the Olin Alumni Association Executive Committee, chair of the Olin Eliot Society Membership Committee, and chair of the Olin Distinguished Alumni Awards Dinner. At the University level, I served as vice chair for Annual Giving.

What do you enjoy most about your current role as chair of the Alumni Board of Governors?

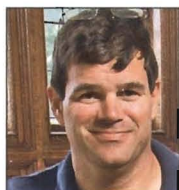
It is a joy to work with such a dedicated and

talented staff. They create an experience that is enjoyable, productive, and rewarding. I also have the opportunity to meet and connect with a broad base of exceptional alumni and parents, who are engaging and motivating. Their deep dedication, creative ideas, and sincere generosity of time and resources continue to inspire me.

What advice would you give to alumni who are considering volunteering at the University?

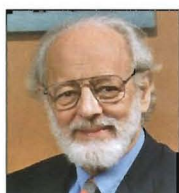
My advice would be to do it. Your involvement will help the University, and the relationships you develop will also help you achieve your personal and professional goals. Your time will be well spent, and you will have an impact on the future of Washington University. In my mind, you owe it to yourself to get involved. You will be glad you did!

To learn more about how you can volunteer, contact the Alumni Association at 314-935-7378 or 800-867-ALUM (toll-free), or e-mail alumniassociation@wustl.edu.



TRISTRAM R. KIDDER
Professor of Anthropology, Arts & Sciences

In the last decade, Kidder has focused his research on the archaeology of climate change, examining the influences of global change on the Mississippi River basin and subsequent influences on human cultures through time. He leads "Canadian Maritimes" in August.



CONSTANTINE E. MICHAELIDES
Dean Emeritus and Professor Emeritus of Architecture

Born in Athens, Michaelides focuses his scholarly work on the vernacular architecture of the Aegean islands. He leads "Island Life in Ancient Greece" in September.



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.

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

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E-mail wustlimgclassmates@wustl.edu

Washington University Magazine publishes ClassMates in print as well as online at: <http://magazine.wustl.edu>.

30_s

John "Jack" Pickering, LA 38, was honored on his 93rd birthday for serving 14 years as senior mentor in an environmental education program in New Mexico schools.

40_s

Elizabeth (O'Neal) Haskins, NU 45, became a great-grandmother for the first time with the birth of Maddox Bishop Blaha. Haskins resides in Fairview Heights, Ill.

Mary Rieser Davidson, LA 47, GR 49, and her husband, **Jack P. Davidson**, GR 51, GR 52, celebrated their 60th wedding anniversary in September 2009. Both have retired from the University of Kansas and are active in local Democratic Party politics.

50_s

William Tao, SI 50, SI 97, was named to the 2009 class of Ageless-Remarkable St. Louisans by St. Andrew's Resources for Seniors.

Nicola (Campbell) James, LA 57, and her husband, Rufus, perform living history presentations at re-enactments, schools, historic sites, etc. They still perform "Black Lyric Forms" (programs of songs, poetry, and stories) in concerts internationally. The couple has a granddaughter, Christa Akilah

James, born on July 3, 2009, to their son, Dabe, and their daughter-in-law, Annika.

Gloria (Bohm) Geiger, LA 58, retired in 2006 and enjoys spending time with her children and grandchildren, traveling abroad, and ballroom dancing.

60_s

Marilynne (Gersten) Bradley, FA 60, published *St. Louis in Watercolor* (Reedy Press, 2008), a book that features her paintings of historic buildings. Her award-winning watercolors have been accepted in many exhibits across the nation.

Jack Eggmann, BU 62, has made book-signing and promotional appearances in Florida, Rhode Island, and New York at the U.S. Open Tennis Championships. His book, *The Roots of Tennis: Blue Bloods to Blue Collars*, was named a book of the year in 2008 by the *St. Louis Post-Dispatch* in the sports category by local authors.

H. Kenneth Fisher, MD 62, is board certified in internal, pulmonary, and sleep medicine. He was named among Southern California's Best Physicians and Consumer Research Council's List of America's Best Physicians. Fisher joined a group of cardiology consultants as an in-house consultant for pulmonary and sleep medicine.

Lawrence K. Pettit, GR 62, is a retired university president. He is currently writing two books. Pettit serves as a senior

consultant for an executive search firm, EFL Associates, and is vice chair of the board for Humanities Montana. He is on the Registry of Retired University Presidents, meaning that he is interested in an occasional interim presidency. He has four children and five grandchildren.

John L. Roeder, LA 62, published his first book, *Teaching About Energy*, in November 2008. The resource book contains activities for teachers developed for the Physics Teaching Resource Agents program of the American Association of Physics Teachers (AAPT). Web site: www.aapt.org
Uldis Roze, GR 64, published *The North American Porcupine*, 2nd Ed. (Cornell University Press, 2009).

C. Alan Beeler, GR 65, GR 73, is a composer and continues to work at creating music for all serious media. His orchestral works will be released in late 2009 by Parma Records on a new label. The works were recorded by professional orchestras in Prague; Bratislava, Slovakia; London; and New York City under the auspices of the Master Musicians Collective.

Josh Grossman, MD 65, continues to teach Advanced Cardiac Life Support (ACLS); mentor/tutor for the U.S. Medical Licensure Examination; write book reviews for *Tennessee Medicine*; and speak to allied health-care provider professions and civic clubs on topics such as "Children with Cancer I Have Referred to Make-A-Wish." He received the American Heart Training Center Instructor Award for "the most knowledgeable ACLS instructor" voted by the ACLS students. E-mail: drjosh@embarqmail.com

Harvey M. Jones, MD 66, is a physician and a professor of pathology at University of North Carolina Hospitals and School of Medicine. He is pursuing a degree in history. Jones has five sons and 10 grandchildren. His wife, Becky, is a nurse in the critical care units at UNC Hospitals.

Perci Chester, FA 67, has a three-part stainless steel sculpture, "Gyr Family Cycle," installed in the new Promenade Sculpture Park, an extension of Centennial Lakes Park in Edina, Minn. Her glass "Tzedakah Box" is on display through May 2010 as part of *Beyond Charity: Tzedakah Boxes and the Jewish Tradition* in the Judaica Gallery of Jewish Arts and Culture at the Minneapolis Institute of Art.

Bela Denes, LA 69, MD 73, heads up drug development for Spectrum Pharmaceuticals in Irvine, Calif., after practicing urology for 23 years. Residing in Laguna Beach, Denes runs

a free clinic in Orange on the weekends and is vice president of the Laguna Beach Lawn Bowling Club.

Michael F. Finkel, LA 69, MD 73, is involved with advocacy work with the American Academy of Neurology, the World Federation of Neurology, and the World Neurology Foundation (WNF). He has served as president of the WNF since 2006. The foundation has many projects to improve neurological care—the most successful being the Tool Kits for Neurologists program, which sends basic clinical examination equipment to colleagues in Africa. Web site: www.worldneurology.org

Barbara (Barton) Greenberg, LA 69, and her husband, Mark, reside in New Orleans after a two-year, post-Katrina hiatus to Houston. The couple has three children and four grandchildren. Barbara is an independent college advisor, and Mark sells insurance and investments.

Earl O. Henry, GB 69, is retired from banking and now promotes prints of his late father's paintings of birds. Henry is an S-scale model railroader. He and his wife, Marilyn, are active ballroom dancers.

70_s

Sheldon H. Smith, LA 70, received the 2009 Law Stars Award as the outstanding attorney from the University of Denver Sturm College of Law. He earned a JD and an LLM from the University of Denver and has taught there in both the law school and graduate tax program. Smith is a partner at Holme Roberts & Owen, LLP. He concentrates his practice in the area of employee benefits/ERISA.

Joe Madison, LA 71, interviewed Hall of Fame running back, activist, and actor Jim Brown. The interviews were broadcast on SIRIUS XM Radio. Madison is recognized as a human and civil rights activist, abolitionist against slavery in Africa, television commentator, columnist, lecturer, labor and corporate spokesman, musician, and athlete.

James J. Marx, EN 71, and his wife, **Cynthia (Lowrey) Marx**, LA 71, announce that their daughter, Bethany, was chosen to be a tenure-track assistant professor of theater at the University of Alaska, Fairbanks. She is an honors scholar alumna of the University of Evansville and holds a graduate degree from the University of Massachusetts-Amherst.

Sanford V. Teplitzky, LA 71, was selected for inclusion in the 2010 edition of *The Best Lawyers*

Student-Athletes

ANSWERS ON PAGE 44

in *America* in the area of health-care law.

Gail Milissa Grant, LA 72, received first prize at the Benjamin Franklin Book of the Year 2009 awards ceremony in the category of autobiography/memoirs for her book, *At the Elbows of My Elders: One Family's Journey Toward Civil Rights* (Missouri History Museum Press, 2008). Benjamin Franklin awards are part of the Independent Book Publishers Association. Grant was featured in the spring 2009 magazine: <http://magazine.wustl.edu/Spring09/GailMilissaGrant.html>

Shirley A. Kennett, EN 72, has published seven thriller novels.

Robert Steinberg, LA 72, received the Maryland State Bar Association's Anselm Sodaro Judicial Civility Award. The award is presented to a judge who has demonstrated exceptional judicial temperament, patience, civility, and courtesy.

Steven C. Kohl, LA 73, LW 77, was named to *The Best Lawyers in America 2010* list. He is a partner with Warner Norcross & Judd, LLP in Michigan and specializes in environmental law.

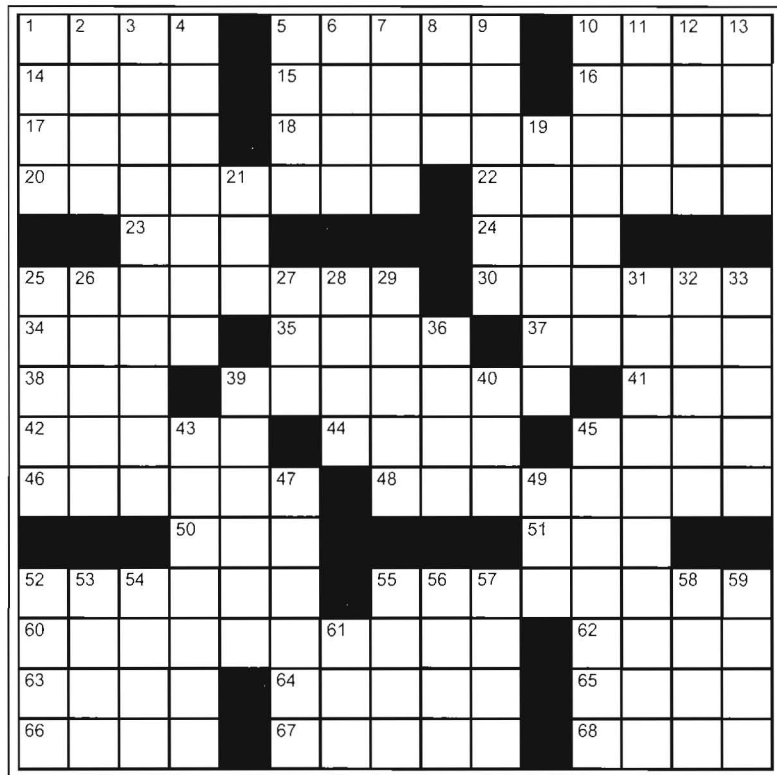
Maurice L. Shevin, LA 73, was selected for inclusion in the 2010 edition of *The Best Lawyers in America* in the areas of banking law and corporate law. He is an attorney with the law firm of Sirote & Permutt in Birmingham.

John Jines, LA 74, recently celebrated his 25th anniversary of marriage and ownership of his own insurance agency. His daughter completed her first year at the University of Missouri where she is studying journalism.

Barry Tilson, FA 74, was awarded winning status in the 2009 American Graphic Design Awards competition. Tilson is the president of Stan Gellman Graphic Design, Inc. This is the ninth consecutive year that Tilson and the firm have been recognized by this annual national design competition.

Valerie Lemmie, GR 75, was inaugurated as the second Inclusive Management Fellow of the coast-to-coast inclusive management initiative within the Center for Public Administration and Policy and the School for Public and International Affairs at Virginia Tech, National Capital Region. She is commissioner of the Public Utilities Commission of Ohio and a leading scholar on the subject of public management in enhancing democracy.

Paul Tang, GR 75, GR 82, is professor emeritus of philosophy at California State University, Long Beach.



ACROSS

1. Practice in the ring
5. "You ___ kidding!"
10. Inferior vena ___
14. Saga
15. Cuban dance
16. Line on a graph
17. Novelist Ambler
18. Men's basketball star and coach who led the Bears to three post-season tournaments (full name)
20. Elected Roman magistrates
22. Like a hit ball in baseball
23. Coniferous tree
24. Kabuki kin
25. Naval facility
30. Raisinet alternative
34. Brewer's kiln
35. Cat cry
37. ___ donna
38. Government agency: abbr.
39. Tasha who led the women's basketball Bears to back-to-back undefeated season in 1998-99 and 1999-2000
41. Pen point
42. Varnish resin
44. "Peter Pan" role
45. Wrinkly fruit
46. Type of killer
48. Teemed
50. Pub quaff
51. "Norma ___"

52. Cascades peak

55. Amy who was a two-time volleyball All-American for the Bears
60. Dominating Bears center in the late '30s who later endowed a professorship for community collaboration
62. Puerto ___
63. Song for a diva
64. "A Confederacy of Dunces" author
65. ___'acte
66. Actor Olin and others
67. Curved moldings
68. Consider

DOWN

1. Dance component
2. Henry VIII's last wife
3. Three-time NCAA Division III Player of the Year who led the women's basketball team to three consecutive national titles (1998-2000) (full name)
4. Proof of purchase
5. Big oil company
6. German industrial valley
7. Outback birds
8. SNL's network
9. "The ___ of Pelham 123"
10. Liniment ingredient
11. Plant part
12. Ars longa, ___ brevis

13. Like a used fireplace
19. Pries, looks for clues
21. Attempt
25. Loudness units
26. ___ Selassie
27. I love: Lat.
28. Beaujolais and Cabernet
29. Words to live by
31. Long-time VP and GM of the St. Louis Cardinals (full name)
32. Actor Hirsch
33. Fanatical
36. Ewbank whose first head coaching job was with the Bears and later coached the Jets to a Super Bowl win
39. Theater district
40. Stutz Bearcat contemporary
43. Bad atmospheres
45. Like a canceled TV show
47. Shed
49. Web browser entry
52. Neb. neighbor
53. Roll call reply
54. Z ___ zebra
55. ___ gin fizz
56. Congo river
57. Spike and Robert E.
58. Molière play part
59. Tomlinson who was a three-sport star at Washington University in St. Louis
61. Beagle or Doberman

Stephen Yablon, LA 75, recently completed the Betances Community Center & Boxing Gym in New York City. The center includes a dramatic, light-filled boxing arena, and is home to a legendary youth boxing program in the South Bronx. Yablon is the founder of Stephen Yablon Architect in New York. Web site: www.syarch.com

Robert Ansehl, LA 76, is a partner at Nixon Peabody LLP. He concentrates his practice in the area of insurance and reinsurance. Ansehl is based in the firm's New York City office.

Valri (Weir) Bieniek, LA 76, recently returned from a trip to Europe with her husband, Ron. They have four daughters and two

grandsons. Valri develops online environments that promote problem solving. Ron is professor of physics, and director of new faculty programs and Learning Enhancement Across Disciplines Program at Missouri University of Science and Technology.

Terry J. Martin, UC 76, SW 77, published *Journeys Through Life: Tales of Change* (JMT Publications, 2009). The book aims to demystify the therapeutic process and remove the stigma that often accompanies an individual's pursuit of emotional health through therapy.

James S. Mendelson, LA 76, is an investment advisor representative at Forest Hills Financial Group in New York. He

helps firms build capital and cut expenses. He shows people how to turn their taxes and liabilities into assets and income to achieve financial security.

David A. Sherbow, LW 76, has been in the music business for 35 years and just launched a user-generated music booking Web site at www.LiveMusicMachine.com. He has 1,500 followers on Twitter at MusicBizGuy, and he has a blog at www.musicbizguy.com.

Gregory W. Kleffner, BU 77, is the chief financial officer of Stein Mart, Inc.

Robert Kulesher, HA 77, is the director of the Bachelor of Science in health services management program at the College of Allied Health Sciences at East Carolina University in Greenville. Kulesher, an associate professor, received tenure on July 1, 2009. He is a health policy specialist and an experienced hospital and nursing home administrator.

Edward P. Syron, HA 77, received a PhD in human development/health promotion from Marywood University in Scranton, Pa. He relocated to Dayton, Ohio, where he is director of the cardiovascular service line at the Miami Valley Hospital.

Janice Levy, LA 78, is a professor of photography in the Park School of Communications at Ithaca College. Fifteen of her photographs are being featured at Photo-Eye, an online gallery based in Santa Fe, N.M. The images are from Levy's *Out of Place* series made in Madagascar. Her photographs will be exhibited through summer 2010 and can be viewed at www.photo-eye.com.

Stephen R. Woodley, LA 78, DE 82, was listed in *The Best Lawyers in America 2010* in the personal injury litigation category. He is a principal in the law firm of Gray, Ritter & Graham, PC in St. Louis.

Joan (Sosnowitz) Wyner, LA 78, SW 79, is a licensed clinical social worker. She has two children: Zac, a senior at Northeastern, and Emily, a freshman at Tufts University. In her free time, Wyner is an actress/singer in community theater.

80s

Scott A. Barton, FA 80, is the founder of Gravy, LLC and an executive chef and culinary consultant. He is pursuing his PhD at the New York University Steinhart School of Education in the department of food studies.

Randal S. Farber, BU 80, GB 81, was named to the State Bar of Texas Disability Issues Committee. He is a partner at Jackson Walker,

where he practices primarily in the real estate, finance, and corporate areas.

Dennis J. Hall, GA 80, is president-elect of the Construction Specifications Institute. He will assume the role of president on July 1, 2010. Hall is the founder of Hall Architects, an architectural design firm, and HALL Building Information Group, a consulting firm specializing in specifications, legal support, and building technology. He has offices in Charlotte, N.C., and Dallas.

Randall S. Rich, LW 80, joined the energy practice of Pierce Atwood, LLP as a partner. In addition to helping Pierce Atwood build its Washington, D.C., office, he will continue his representation of energy companies before the Federal Energy Regulatory Commission, the U.S. Department of Energy, and state regulatory commissions in natural gas and oil pipeline regulatory and compliance matters and related business issues. Rich and his wife, Debra, reside in McLean, Va., with their sons, Adam and Cory, and their dog, Puffin.

Anwar Basha, SW 81, is the general manager of an Australian-based company. He has a son, Arman. E-mail: anwarb@gmail.com

Michele Berman, MD 81, HS 84, is the founder and managing partner of CelebrityDiagnosis.com. The site offers background information on health conditions in the news. Berman is a pediatrician.

Gladys Caines Coggsell, UC 81, published *Stories from the Heart: Missouri's African American Heritage* (University of Missouri Press, 2009). Coggsell was the first black president of the Missouri Folklore Society and is founder of the By Word of Mouth Storytelling Guild.

Michael Moedritzer, LA 81, lives in a 100-year-old fixer-upper house in the Central District of Seattle. He works for a small architecture and urban design firm on the HOPE VI-funded redevelopment of public-housing projects into new mixed-use and mixed-income communities. Moedritzer also works on other subsidized low-income housing projects in Seattle and surrounding communities. He has three sons: Chris, Lukas, and Stefan.

Margaret (Klein) Kitzmiller, LA 82, and **John Kitzmiller**, EN 83, have four teenage children. Their daughter, Anne, is a freshman at Washington University.

Sylvia (Kugelman) Manewith, LA 82, and her husband, **Stuart Manewith**,



Jack Hubbard

Recognized with Marconi Award

On October 9, 2009, research partners Andrew R. Chraplyvy (left), AB '72, and Robert W. Tkach (not pictured) received the Marconi Fellowship and Prize from Bob Lucky (right), president of the Marconi Society at Columbia University. The annual award honors the leading figures in telecommunications and information technologies whose achievements have contributed significantly to human progress. Chraplyvy and Tkach were recognized for their development of techniques that greatly increase the transmission capacity of communications systems.

"We invented an optical fiber, Non-Zero Dispersion Fiber (NZDF), that has become an industry standard and has enabled the explosive growth in communications bandwidth," says Chraplyvy. The pair went on to develop the concept of dispersion management, based on NZDF, which dramatically increased fiber-optic capacity and is now used in all high-speed, high-capacity fiber-optic communications systems throughout the world.

Chraplyvy manages a Bell Labs research organization whose mission is to invent future optical communications systems and innovative optical networking concepts.



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

(See page 9.)

Robert S. Brookings

Help shape
our world
by helping
our students.

(See page 9.)



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

ALUMNUS PROFILE

Jason G. Green, AB '03

Young Lawyer Lands at the White House

BU 81, have been married almost 27 years and have lived in St. Louis since they graduated from Washington University. They have two children: Aaron, a sophomore at the University of Kansas, and Julia, a junior in high school. Stuart works for Blackbaud, Inc., a software company that specializes in not-for-profit software. Sylvia works for Missouri Baptist Medical Center in development.

John Berendzen, LA 84, GA 87, presented at the DatacenterDynamics' Technology Conference in Chicago on Oct. 20, 2009. His presentation focused on the architectural design of Green Data Centers. Berendzen also presented at The Broad Group's conference in London on Oct. 22, 2009. His presentation discussed innovative power and cooling solutions for major data centers. A partner with St. Louis-based Fox Architects, Berendzen has designed award-winning LEED certified data centers for Monsanto and the recently dedicated Emerson Data Center with the anticipation of achieving LEED Gold Certification.

David P. Blake, LA 84, completed his fellowship in surgical critical care and trauma at Eastern Virginia Medical School in Norfolk. He and his wife, **Miriam (Rosen) Blake**, EN 85, are relocating to Dayton, Ohio, with their children: Benjamin, 16, and Alexandra, 14. David is commander, 88th Surgical Operations Squadron, Wright-Patterson AFB in Dayton. During his fellowship, he completed board certification in surgical critical care, became certified as a physician executive by the American College of Physician Executives, and was selected as the first alumni inductee to the Rho Chapter (University of Massachusetts) of the prestigious Delta Omega Honorary Society for Public Health. During their time in Norfolk, Miriam garnered accolades as a project leader for Parsons, an international engineering and services corporation. She has overseen the completion of several hundred basic facility requirements for Navy units under a multi-million dollar U.S. contract. Miriam will continue her work for Parsons as the quality control officer on this worldwide Navy project.

Gary Gelfman, LA 84, LA 84, formed a new law practice, Gelfman & Ghezzi, PLLC, in The Woodlands, Texas. The firm specializes in business and civil litigation; construction

After President Barack Obama named Jason G. Green, AB '03, a deputy associate counsel in late January, the young lawyer headed to the White House. A month later, Green took the bar exam and was admitted to the Maryland Bar in June. All that time and since, he has been working in the Old Executive Office Building next to the White House, scrutinizing domestic legislation and writing briefs.

Green landed the White House job after performing a range of duties for Obama's presidential campaign, winding up as director of its voter registration drive. In the fall of 2007, he joined what then looked like a long-shot campaign while still a third-year law student at Yale University.

Studying law in the early morning before hunting for votes all day, Green tirelessly worked for Obama in six states stretching from Nevada to North Carolina. "I did the tour," says Green.

The dual major in political science and finance started off in North Las Vegas, directing field operations to drum up support for Obama in the Nevada caucus. Then, successively, he served as the state political director in Connecticut, deputy field director in Maryland, regional get-out-the-vote director in Milwaukee and Houston, and finally he worked as the regional field director in Charlotte, North Carolina.

After stopping at Yale to take his final exams and collect his law degree, Green took over the drive to sign up voters.

"We were the only campaign in recent history to have an in-house voter registration campaign," instead of leaving it to independent groups, he notes.

Through the summer and into the early fall, Green collaborated with field operatives and campaign volunteers to register voters in battleground states.

The campaign's novel effort also was waged in cyberspace. Close to a million people, he says, started the registration process on a special campaign Web site, voteforchange.com. "We needed additional server space to handle that kind of traffic," says Green.

After Obama's victory, Green, like thousands of others, applied for a job in the new administration. Uncertain of what—if



Andres Alonzo

Formerly director of voter registration for Barack Obama's presidential campaign, Jason G. Green is now deputy associate counsel at the White House.

anything—he might be offered, Green applied through another Web site established for the presidential transition.

First, he researched, on the Internet and in the library, different government jobs available. On his application, he expressed interest in a half-dozen jobs in the White House Counsel's Office, Justice Department, and State Department. Rounds of interviews followed. "My first choice was always to be here," says Green.

A week before his appointment, Green found out he would get his first choice from an e-mail from White House Counsel Gregory B. Craig. The message arrived on Martin Luther King Day, which also was the day before Obama's inauguration.

Pennsylvania Avenue is a long way from Washington University, but Green says he learned pertinent lessons from serving as a senator and vice president in Student Union and as senior class president. His campaign slate, named "true." (meaning: true period), he says, was "very interested in fomenting change." As a candidate, he made the rounds listening to various student groups and, once in office, worked to reconcile opposing viewpoints and to reach consensus. "Running for student government is very similar to a presidential campaign," he says.

Green's campus service and strong academic performance were widely recognized. Among other honors, he was a John B. Ervin Scholar, an Erich and Barbara Sippel Arts & Sciences Scholar, and a recipient of the Ethan A.H. Shepley Leadership Award.

The young White House lawyer is unsure what lies ahead for him, professionally, but he is likely to remain in Washington, D.C. Since the 1860s, his father's family has lived along a single street in suburban Gaithersburg, Maryland, as he does now.

"Once I got back to Washington, I felt I was never going to leave," says Green. "It might be hard to get away."

—Kenneth J. Cooper, AB '77

CLASSMATES

defects and law; contracts and contract disputes; corporate law; insurance law and coverage; business formation; labor and employment law; and transportation law.

Stephen Alpart, BU 85, is a managing director at Prudential Real Estate Investors in New York City. He is responsible for growing a high yield debt funds platform for institutional investors.

Daniel Waksman, LA 85, recently began a new emergency medicine position in North Carolina. His wife, Jane, passed away suddenly in May 2009.

Timothy Emerson, EN 86, received the 2009 Woodie Flowers Award for outstanding mentoring of a FIRST robotics team at the St. Louis FIRST Regional Competition.

Randi V. Morrison, LA 86, LW 89, was appointed senior vice president, legal, secretary, and general counsel of DineEquity, Inc., the parent company of Applebee's and IHOP restaurants. She previously served as senior vice president, general counsel, and secretary of CSK Auto Corporation until its sale in July 2008 to O'Reilly Automotive, Inc.

Jennifer (Field) Bowhill, BU 87, works as a CPA. She has two kids and a dog.

Cindy (Pomeroy) Krueger, PT 87, and her husband, **Ronald Krueger II**, GB 91, moved to New Orleans in March. Ron is the COO for Southern Theatres. They have a 15-year-old son.

Carol L. Rogers, GB 87, was named one of the top-100 wealth advisers in America by *Barron's* in June 2009. Her firm was named as one of the top wealth-management firms by *Barron's* in February 2009. Rogers also was named one of the top-25 women certified wealth advisers in America in 2009.

90

Adam E. Miller, LW 90, was a panelist at the Missouri Bar's Judicial Conference annual meeting in September 2009. He spoke on the topics of environmental law and future regulatory policies.

Kirk D. Minkus, LA 90, is an interventional radiologist at Medical Diagnostic Imaging Group. Minkus also is a community developer (MINX Entertainment Complex), aircraft pilot, and semi-professional drummer.

Christine (Mayewski) Orich, EN 90, was selected for inclusion in *The Best Lawyers in America 2010*. She is a counsel member of Barnes & Thornburg, LLP in the firm's Indianapolis office. She specializes in the areas of information technology law, intellectual

property law, and technology law.

Vicki (Phon) Caplan, LA 91, and her husband, **Andrew Caplan**, BU 91, announce the birth of Marley Alexis on Feb. 2, 2009. She joins big brother, Jeremy, 6, and big sister, Simone, 3. The family resides in Zurich, Switzerland, where Andrew works for the Glencore Group.

Rachelle (Brandt) Roe, LA 91, is the director of public relations for the Chicago Symphony Orchestra. She resides in the Chicago area with her husband, Andrew, and their son, Jackson, 4.

Evan A. Friedel, LA 92, SW 94, serves as a North Carolina children's program representative working with child welfare and protective services in several counties. **Erika Queen Friedel**, SW 92, is a major gifts officer at Wake Forest University School of Medicine. The couple has two children: Xavier, 9, and Zoe, 5.

David A. Harris, LA 92, is president of the National Jewish Democratic Council. Harris previously served as NJDC's deputy executive director for seven years and most recently served as executive director of the Israel on Campus Coalition for three years.

Trevena Moore, LA 92, and her husband, Warren Briscoe, announce the birth of Ajhi Japheth Moore Briscoe on Dec. 3, 2008.

Laura (Regan) Recer, BU 92, and her husband, Charles, announce the birth of Catherine Ellington on July 29, 2009.

Elizabeth Williams, FA 92, is a freelance courtroom artist in New York City.

Gayle L. Brosnan-Watters, GR 93, GR 96, retired from Slippery Rock University in May 2008. She moved to Chandler, Ariz., where she teaches psychology part time at Chandler Gilbert Community College. She enjoys making "hope quilts" for cancer patients with Crossroads Comfort Quilters at her church. She tries to spend as much of the summer as possible in upstate New York, her original home.

Michael Erdman, BU 93, launched a new Web site that helps buyers and sellers make more informed decisions when selecting a real estate agent. He practices law in Chicago and resides in Deerfield, Ill., with his wife, **Rachel Margolis Erdman**, LA 93, and their two children. Web site: www.AgentsCompared.com

Tom Grayson, MD 93, recently examined his oldest patient—a mummy of the Third Intermediate Period, which resides at the Wayne County History Museum. His wife, **Kristen (Gilloly) Grayson**, OT 90,

serves on the board of directors for the museum.

Spencer Greene, LA 93, LA 93, is an assistant professor of clinical emergency medicine in the section of clinical toxicology at the University of Arizona College of Medicine. He lives with his children, Cami, 6, and Riley, 4; their cats, Abner, Kaitlin, and Blade; and a corn snake named Plissken. E-mail: SGreene@aemrc.arizona.edu

Andrew Kessler, LA 93, opened his own consulting firm, Slingshot Solutions, LLC. The firm specializes in behavioral health policy and communications. Kessler resides in Annandale, Va., with his wife, Aimee, and their daughter, Leia. Web site: www.slingshotsolutions.net

Shana Lewinger, LA 93, LA 93, and Jacob Russo were married on Sept. 14, 2008, in Miami. The couple resides in Miami, where Shana owns The Yarn Shoppe, a retail knitting store. Jacob owns Imaging 101, a document imaging software company.

Chardial A. Samuel, SW 93, is the HIV prevention program manager at Project ARK (a Washington University School of Medicine program).

Arnor Bieltvedt, GF 94, displayed his paintings at the Open Art Fair in Utrecht, the Netherlands, in September 2009. His paintings are based on his childhood memories of the spectacular Icelandic landscape. Web site: www.artistarnor.com

Richard Chua, Jr., BU 94, and his wife, Cheryl, announce the birth of Owen Caleb on July 31, 2009. Web site: <http://www.facebook.com/richard.chua.jr>

Karen Fiumano, LA 95, and Dennis Yun were married in December 2008 in New Hyde Park on Long Island, N.Y. The couple resides in Seattle.

Andrea Fuhrman, GF 95, included her artwork in a group exhibit, *Artist Exchange*, in fall 2009 at the Salina Art Center in Salina, Kan. The exhibit was the culmination of a 10-month artist-exchange program. The program enables local and regional artists to teach and learn together while engaging in challenging, innovative work.

Robyn Hunter, LA 95, LA 95, and **David Belchick**, LA 95, announce the birth of William Kennedy Hunter on April 7, 2009. He joins big sisters, Isabel Leighton and Gabrielle Eve. The family resides in Boston.

Doug Kenner, BU 95, and Amy Friedman were married on June 13, 2009, in Plainview, N.Y. The wedding party and guests included many University alumni. The couple resides in New York

City, where Doug is a mortgage banker with Wells Fargo and Amy is a specialty sales rep with Sanofi-Aventis.

Helaine (Denenberg) Klawans, LA 95, and her husband, Jonathan, announce the birth of Elijah Israel on May 26, 2009. He joins big brothers, Ari, 6, and Gabriel, 3. The family resides in Natick, Mass. E-mail: Helaine1@aol.com

Melanie Lorenzo Krueger, LA 95, OT 98, and her husband, **Jeff Krueger**, LA 93, LW 96, GL 99, announce the birth of Karina on July 21, 2009. She joins big brother, Michael. The family resides in Portland, Ore.

Cynthia B. Lovinger, LA 95, was married on July 26, 2009, and resides in Springfield, N.J., with her husband. She works at Kramer Levin Naftalis and Frankel, LLP, in New York City.

Amanda (Locke) Abar, LA 96, and her husband, Jeff, announce the birth of Vivian Locke Abar on June 22, 2009. She joins big brother, Emmett, and big sister, Lily. The family resides in Chicago.

Jill (Howell) Brown, LA 96, and her husband, David, announce the birth of Jacob Carl on Feb. 25, 2009. He joins big brothers, Brett, 4, and Owen, 1. The family resides in Lakeland, Fla.

Patti Bubash, GR 96, is the second-place local winner in the Jones New York National Back to School, Back to Style makeover competition. She is a special education teacher at Neuwoeher School, which is one of five special education schools operated by the Special School District of St. Louis County. Bubash will receive a personal back-to-school wardrobe makeover by Jones New York at Macy's and funds for materials and supplies for her classroom through Adopt-A-Classroom.

Cheryl Rubenstein Drazin, LA 96, and her husband, Aaron, announce the birth of Naomi Alyse on April 16, 2009. She joins big brother, Evan, 2. The family resides in Dallas. E-mail: cdrazin@sbcglobal.net

Julia (Lynch) Eckstein, GB 96, is the Missouri project director with the Gingrich Group. She works with Newt Gingrich on solutions to improve health and health care.

Debra Mayers Hollander, LA 96, and her husband, **Jason Hollander**, LA 96, announce the birth of Noa Bessie on Feb. 12, 2009. She joins big sister, Maya, 7, and big brother, Adam, 5. The family resides in Shaker Heights, Ohio, where Jason is an attorney for Progressive Insurance and Debra is a freelance marketing and communications consultant.

ALUMNA PROFILE

Deanne Bell, BSME '02

Engineering a Creative Career in Television

Carla (Loon) Leader, LA 96, and her husband, Greg, announce the birth of Evan Arthur on Jan. 10, 2009. He joins big brother, Matthew, 4. The family resides in Cincinnati, where Carla is a staff attorney at the Legal Aid Society. She works to assist low-income clients facing foreclosure, eviction, and education challenges.

Michelle (Putney) Seliner, SW 96, is chief operating officer for S.A.F.E. Alternatives, a treatment center in Richmond Heights, Mo., dedicated to helping others end self-injurious behavior.

Diane (Barnes) Smith, OT 96, was named to the roster of fellows for the American Occupational Therapy Association for her contributions to the organization in the areas of disability policy.

Randy Kurtz, BU 97, and Lauren Frei were married in July 2008 in New York. The wedding party and guests included many University alumni. The couple resides in New York, where Randy is chief investment officer of RK Investment Advisors, a pioneer in the field of shareholder-friendly investing.

Amy Tucker Ryan, LW 97, and her husband, Andy, announce the birth of Joseph Delaney on June 5, 2009. The family resides in St. Louis. Amy is an attorney at Martin, Leigh, Laws and Fritzen, PC, where she practices bankruptcy law. E-mail: atr@mllfpc.com

Matthew Stein, FA 97, and his wife, Nicole, announce the birth of Jackson Gabriel on Aug. 29, 2009. The family resides in Hoboken, N.J.

Manjali (Gupta) Vican, LA 97, and her husband, **Steve Vican**, EN 97, EN 97, announce the birth of Riya Natalie on April 14, 2009. She joins big sister, Shalini, 4. The family resides in Alexandria, Va., where Manjali works in the water program at EPA and Steve works in the biometrics and identity management fields for Unisys Corp. E-mail: vlcans@earthlink.net

Alex Galifianakis, LA 98, and his wife, Amy, announce the birth of George Paul on June 28, 2009. The family resides in Rockville, Md., where Alex is a radiology resident at Walter Reed Army Medical Center and Amy is a health researcher at Social and Scientific Systems.

Lauren Hermele, LA 98, received a 2009–10 Fulbright U.S. Student Scholarship to Romania to study photography.

Elizabeth (Marcus) Levenberg, LA 98, and her husband, Jeff, announce the birth of Charles Daniel on March 13,

A sense of adventure runs in the family for Deanne Bell, BSME '02. When she was growing up, her father would exclaim, "Let's go find Passamaquoddy!" He was referring to the fictitious city from the movie *Pete's Dragon*. (He told his family it was somewhere in Maine.) The Bells would then pile into the family van and make the drive from Florida to every national park imaginable.

"That's the kind of adventurous spirit I grew up with," recalls Bell, now an engineer and former host of Discovery Channel's two-season TV series *Smash Lab*. "I don't always know where I want to go, but it doesn't matter because the journey is usually more important than the destination anyway."

In addition to being a world traveler, she describes herself as a TV dinner of "a mechanical engineer patty with two side dishes of creativity and athleticism." She further developed these qualities while attending Washington University. Bell chose to study at the University not only for its engineering program, but also for its well-rounded, personalized education.

"I had great relationships with our deans, with professors, and with students both in and outside of the engineering school. Even five years after I graduated, one of my professors e-mailed me to make sure I was still chasing the dream job I had always talked about," says Bell.

She also used her time at the University to study architecture, get involved with her community, and play soccer. "I am so fortunate that I chose to attend a university that both nurtured me as an individual and gave me the confidence to be the kind of engineer I always wanted to be."

Right now, the kind she wants to be is an engineer television host—two things that are not necessarily exclusive.

She got her start on television with PBS' Peabody Award-winning children's series *Design Squad*. Bell's most recent television series was Discovery Channel's *Smash Lab*, a show based on breaking down technology to figure out how it works and then reconstructing it for a new purpose.

The show offered Bell the unique opportunity to test her engineering skills on camera. On one of the episodes, she and



Rob Brown

Through her work on television shows, engineer Deanne Bell works to promote and enhance the image of women in science.

other *Smash Lab* crew members were tasked with pressurizing an airplane cabin as if it were flying at 30,000 feet and then bursting it with a handful of C4 explosive.

"We were told, 'The plane we rented is riddled with holes from the Navy Seals who borrowed it last week. And you have two days. And you have to be on camera the whole time—go! And that's just the beginning,'" she says. "Then we had to engineer a solution to attempt to make it safer."

Even with the demands of her busy schedule, Bell still finds time to stay connected with Washington University. During the production of *Smash Lab*, she passed through St. Louis and hosted an egg drop challenge for students at the School of Engineering & Applied Science with Guy Genin, associate professor of mechanical, aerospace, and structural engineering. Participating students used paper plates and one piece of duct tape to create a protective apparatus for their parachuting eggs in the competition.

When she is not involved with television, Bell speaks to schools and corporations about being a woman in the field of engineering, nurturing creativity within a technical environment, and what it's like to blow things up on television.

"You can't pick out engineers by their pocket protectors anymore. We don't look a certain way, and we don't conform to any stereotypes," says Bell. "No one can take the weight of representing all women in science. I just do my job and do it well. With time, people's stereotypes change, and it starts to sink in."

With the conclusion of the *Smash Lab* series, the creative and adventurous alumna is pitching her own ideas for science television shows to various networks while continuing to promote the image of women in science, especially in engineering.

—Laura Miller, Arts & Sciences Class of '10

2009. He joins big sister, Hailey, 3. The family resides in New Jersey. E-mail: lizzybeane@gmail.com

Kerry Dierberg, LA 99, was awarded the 2009–10 Massachusetts General Hospital Thomas S. Durant Fellowship in Refugee Medicine. As a fellow, she will travel to Liberia for a year to work as the medical director of Tiyatien Health and serve as a doctor at a local hospital.

Sapna Ravi Kudchadkar, LA 99, and her husband, Raj, announce the birth of Asha on Nov. 28, 2008. She joins big brother, Kishen, 3. The family resides in Columbia, Md. Sapna is in her fourth year of a combined fellowship in pediatric anesthesiology and critical care at Johns Hopkins, and Raj is an attorney.

Khara (Coleman) Washington, LA 99, LW 03, lives in Davenport, Iowa, with her husband, Blaine. She is a litigation associate at Lane & Waterman, LLP, and Blaine is an attending physician at Genesis Medical Center. E-mail: kharawashington@gmail.com



Rick H. Darnell, GB 00, was recognized as one of the top associate athletic directors in the NCAA. He was selected to attend the NCAA DIA Athletic Directors Institute in July 2009. This elite leadership opportunity is granted

by nomination, and selection is based on future potential impact in the college athletics industry. Darnell works at Baylor University.

Tracee (Orlove) Fruman, LA 00, and her husband, Kevin, announce the birth of Leo Gabriel on May 7, 2009. He joins big brother, Jacob, 3. Tracee works part time as an assistant attorney general prosecuting cases before the health occupation licensing boards of Maryland.

Joshua Levitt, LA 00, started UsedCisco.com in 2007. The company sells pre-owned network hardware and helps the environment by recycling used computer parts.

Sharron (DeLay) Magyar, FA 00, recently completed a book and is in the process of getting it marketed.

Katy Fahrback Malhame, BU 00, and her husband, **Kevin Malhame**, LA 00, announce the birth of James Ellis on July 26, 2009. The family resides in Columbus, Ohio, where they operate a small restaurant company. Web site: www.thenorthstarcafe.com

Kimberly A. Masker, OT 00, presented a poster titled "The Use of Artificial Dermal Substitute Integra as a Bridge to Complex Finger Reconstruction." It was one of 12 accepted for the joint meeting of the American Society for Surgery of the Hand and the American Society of Hand

Therapists in San Francisco in September 2009. Masker is a certified hand therapist/occupational therapist at Bristol Regional Medical Center.

Julie Riley, LA 00, is in her fifth year of residency in urology at the University of Missouri. She plans to pursue a fellowship in endourology. E-mail: julmarriely@hotmail.com

Jason B. Robinson, LW 00, is an associate attorney in the litigation department at Fairfield and Woods, PC, in Denver. He focuses his practice on complex commercial and environmental litigation.

Elizabeth (England) Siela, LA 00, and her husband, Anthony, announce the birth of William Vincent on Sept. 27, 2008. He joins big sister, Madolyn, 3.

Linsey Barker, EN 01, received a PhD in industrial and systems engineering from Virginia Tech in 2009. She is an assistant professor in industrial and manufacturing systems engineering at the University of Missouri.

Karyn Kim, LA 01, and her husband, Brian, announce the birth of Wesley on Aug. 9, 2009.

Melissa Marglous Merlin, LW 01, was selected to participate in the 2009–10 Leadership St. Louis class, an initiative of FOCUS St. Louis. Those selected for the prestigious program must possess strong leadership skills and dedication to improving the quality of life in their region. Students spend nine concentrated months being educated on critical regional issues and meeting with key area decision makers. In 2009, Merlin was one of 176 attorneys nationwide to receive the prestigious BTI Client Service All-Star award, given to attorneys determined to give superior client service to Fortune 1000 clients. She also has received the ABA-BNA Award for Excellence and the CALI Excellence for the Future Award for Labor Law, Alternative Dispute Resolution, and Trusts and Estates. Merlin is a partner at Husch Blackwell Sanders in St. Louis, where she concentrates her practice in the areas of business litigation and product liability and toxic tort.

Sara Taksler, LA 01, is touring with Michael McDonald in 2009 as assistant to his head roadie. She is responsible for managing equipment inventory, specifically wind instruments, and overseeing the craft services tables.

Donna Armistead, GR 02, is an independent director and choreographer. She recently produced and directed *1776* at the Calumet Theatre in Michigan. Armistead joined the

staff at Michigan Technological University in the international programs & services office.

Melissa (Sherman) Bass, LA 02, opened an office for her new business, Prep Corps, in Brentwood Village in Los Angeles. She offers exclusively private tutoring for standardized tests, including the ISEE, PSAT, SAT, SAT Math Subject tests, ACT, GRE, and GMAT, and all areas of math through the high school level. Web site: www.prepcorps.com

Julia Dewey, LA 02, and **Mark Chaney**, LA 02, announce the birth of Gram and Elliot Chaney on June 4, 2009. The family resides in Madison, Wis.

Dara (Kestenbaum) Freling, LA 02, and her husband, **Scott Freling**, LA 02, announce the birth of Rachel Johanna on Sept. 12, 2009.

Katie (Kunkel) Kamholz, FA 02, and her husband, **Cory Kamholz**, LA 01, announce the birth of Elise Marie on Sept. 9, 2009. The family resides in Oak Park, Ill. Katie is an art therapist at Maryville Academy in Des Plaines, and Cory is a project architect at Holabird & Root in Chicago.

Julia Sybalsky, FA 02, LA 02, and John K. Norris were married on May 25, 2009, in Niantic, Conn. Their family also includes John's three children: Maricel, Will, and Ezra. Julia spent three months in summer 2009 in Turkey working as a junior conservator for the Archaeological Exploration of Sardis, an excavation sponsored by Harvard and Cornell. She is a graduate student and Stout Fellow at the Institute of Fine Arts' Conservation Center at NYU, where she is specializing in object/sculpture conservation.

Nicole Blicher, LA 03, and **Miriam White**, LA 03, are co-founders and co-artistic directors of Nice People Theatre, in Philadelphia. Their production, *Have a Nice Life*, garnered eight rave reviews in August 2009 at the Edinburgh Fringe Festival in Scotland, and the show received the only four-star musical theatre review from *The Scotsman*.

Kristin R. Duvall, LA 03, is a recruiter at the corporate office for Starbucks in Seattle.

Alison M. McCann, LA 03, and **T. Joseph Malbrough**, LA 03, GR 05, were married in June 2009 in St. Louis. The wedding party and guests included several University alumni. The couple resides in New Orleans, where Joey is a fourth-year medical student at LSU and Alison continues to work in admissions for the university.

Kevin Rompala, EN 03, is an assistant professor of mathematics

Student-Athletes

ANSWERS TO PUZZLE ON PAGE 39

1	S	P	A	R		5	A	R	E	N	T		10	C	A	V	A	
14	T	A	L	E		15	R	U	M	B	A		16	A	X	I	S	
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25	S	H	I	P	Y	27	A	R	D		30	G	O	O	B	E	R	
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38	N	I	H		39	R	O	D	G	E	R	S		41	N	I	B	
42	E	L	E	M	I		44	S	M	E	E		45	U	G	L	I	
46	S	E	R	I	A	L		48	A	B	O		49	U	N	D	E	D
		50	A	L	E					51	R	A	E					
52	S	H	A	S	T	A		55	S	U	L	L	I	V	A	N		
60	D	E	S	M	O	N		61	D	L	E	E		62	R	I	C	O
63	A	R	I	A		64	T	O	O	L	E		65	E	N	T	R	
66	K	E	N	S		67	O	G	E	E	S		68	D	E	E	M	

ALUMNUS PROFILE

David Nakayama, BFA '01

From Comics to Games, Artist Lives Dream

As a small child, David Nakayama, BFA '01, was obsessed with dinosaurs, heavy construction equipment, and Transformers®. Inspired by comic artist Jim Lee's work in *Uncanny X-Men*, he dreamed of drawing comic books for a living someday and practiced on 6-foot-long sheets of butcher paper measured out by his mom.

"If I wanted Transformer A to shoot at Transformer B, I would just draw a long, curving line between the two, rambling all over the piece of paper and conveniently curving around other characters who happened to be in the way," says Nakayama. "It makes me cringe, looking at it now, but I still enjoy the kid logic of it."

Nakayama kept drawing and majored in illustration in the Sam Fox School of Design & Visual Arts at Washington University. For three years, he worked for *Student Life*, the University's independent student newspaper, drawing editorial, feature, and political cartoons; creating a regular comic strip; and writing the occasional article.

"In most of my school work, I tried to explore styles and techniques that would be relevant in the comics field, and for the most part, my instructors gave me the freedom to do that," says Nakayama. "Also, people seemed to enjoy the work that I did for *Student Life*, and operating under regular deadlines turned out to be excellent training for the job I'd eventually get."

After graduating from the University, he attended the Joe Kubert School of Cartoon and Graphic Art, Inc., a three-year residential college in Dover, New Jersey, with classes such as figure drawing and sequential storytelling. Nakayama published his first professional comic while a student there. But after winning *Wizard Magazine's* contest to "Be The Next Top Cow Superstar," he left school a year early and became an art intern at Top Cow Productions in Los Angeles.

"I started getting both internship and work offers, and after talking it over with the founder of the school and industry legend Joe Kubert, I decided it was an appropriate time to go," says Nakayama.

Being a comic artist at Top Cow presented an endless stream of deadlines, and Nakayama worked weekends and holidays trying to draw each page better than the previous one.

at the University of Montana Western in Dillon, Mont.

Ann Wilkins, UC 03, received a Master of Education and certification in special education from the University of Missouri-St. Louis. She is a special education teacher with Special School District in St. Louis County. She teaches in an autism classroom at Hazelwood East High School. She and her husband, Matthew, have three children and reside in Godfrey, Ill.

Jonathan H. Chung, MD 04, completed a residency in radiology at the University of Washington. He received the 2009 Roentgen Resident/Fellow Research Award by the Radiological Society of North America.

Ellen Clapp, LA 04, and **Wesley Tunnell**, LA 05, were married on Aug. 1, 2009, in Detroit Lakes, Minn. The wedding party and guests included many University alumni. The couple resides in Dallas, where Ellen is a journalist and Wesley is a graduate student in architecture at the University of Texas-Arlington.

Scott M. Flaherty, EN 04, was appointed to a three-year term on the Minneapolis Civil Rights Commission. He is an attorney at Robins, Kaplan, Miller & Ciresi LLP.

Kamaria N. Holt, LA 04, graduated with honors from the University of Miami with a doctor of physical therapy degree. She works with the Traveling Physical Therapy Program.

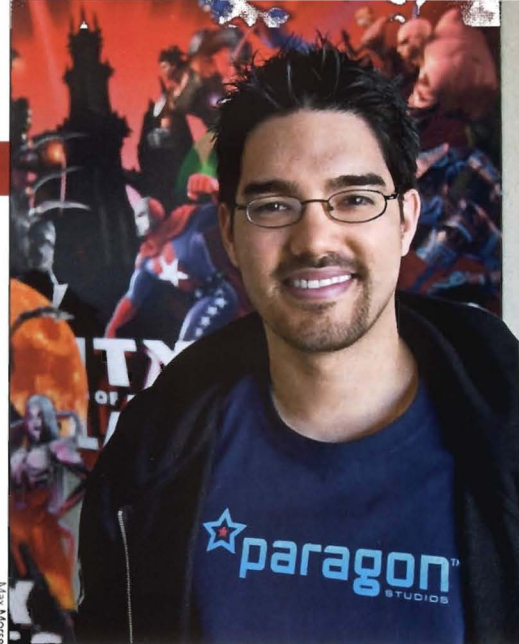
Ana (Munda) Meade, GB 04, and her husband, **Jeffrey Meade**, GB 04, announce the birth of Joseph and Mark on Aug. 4, 2009. The family resides in Southern California.

Jordan H. Polak, GB 04, and his wife, Sabine, have a daughter, Grace, 2. Jordan is a senior account manager at Epocrates, Inc.

Kaoru Sperry, EN 04, and **Patrick McCullough**, LA 05, were married on July 11, 2009, in Palos Verdes, Calif. The wedding party and guests included many University alumni. The couple resides in Los Angeles.

Brendan Watson, LA 04, was selected as a Roy H. Park Fellow at the University of North Carolina at Chapel Hill's School of Journalism and Mass Communication. He began a doctoral program at the school in fall 2009.

Jared Joiner, LA 05, teaches science and mathematics at the Next Step Public Charter School in Washington, D.C. He recently completed a 10-day expedition with the Earthwatch Institute studying climate change and caterpillars in the foothills of the Chiricahua Mountains of



David Nakayama is a concept artist for Paragon Studios, NCSoft's internal development studio that produces the online game *City of Heroes*®.

Though the finished comic could be seen as a reflection of the frantic schedule, the act of drawing itself is actually quite mellow.

"Finished superhero art is typically pretty bombastic, colorful, in-your-face stuff, but producing it is a much quieter affair," he says. "It can take days of focused effort to create the best pieces. I think people might be interested to know that comic artists listen to a lot of music, radio, podcasts—whatever helps us get into the 'zone,'" he says.

Nakayama currently works as a concept artist for Paragon Studios, NCSoft's internal development studio that produces the online game *City of Heroes*®.

"I keep much more regular hours, which makes it a better fit for my family, particularly with a new baby in the picture," says Nakayama. "I'm fortunate to work in the video game industry as a concept artist, which allows me to make up all kinds of cool stuff for *City of Heroes*. It's a blast to watch my 2D art turned into living, breathing characters and environments in the game world, and I still do comic covers on the side as well, which means I get to have my cake and eat it, too."

"In addition to being a comic fan, I'm a huge gamer, so it's truly a dream come true for me to work at Paragon. I actually drew the *City of Heroes* comic book series a few years back and often wondered what it would be like to work on the actual game. I didn't think I would ever get the chance, so I'm feeling pretty lucky right now," he says.

Recently, Nakayama had the opportunity to draw a set of five covers for Disney's release of *X-Men: The Animated Series*.

"I was so flattered to be asked to do that work, given that the television show is based on those Jim Lee comics," he says, referencing his childhood inspiration.

To view Nakayama's work, visit www.davidnakayama.com.

—Laura Miller, Arts & Sciences Class of '10

southwestern Arizona. The expedition was sponsored by The MARPAT Foundation.

Zachary I. Norman, LA 05, passed level III of the Chartered Financial Analyst program in June 2009. He is now a CFA charterholder.

David Rogier, LA 05, helped Tesco, the world's third-largest retailer, launch a new chain of grocery stores in the United States called Fresh & Easy Neighborhood Market. The stores were launched to sell healthy food at affordable prices. Rogier left Fresh & Easy in May 2009 to pursue a Master of Business Administration at Stanford University.

Kevin S. Rollag, LA 05, completed his first year at Harvard Business School and spent summer 2009 in San Francisco working for JPMorgan's technology/media/telecom and mergers & acquisitions investment banking groups as a summer associate.

Audrey Ting, LA 05, and **Zachary Schموok**, LW 07, were married in August 2009 in St. Louis. The couple resides in University City, Mo. Audrey is the coordinator of volunteers and community outreach at St. Louis Arc, an organization that supports people with developmental disabilities. Zack is the staff attorney at Metropolitan St. Louis Equal Housing Opportunity Council.

Benjamin J. Carey, LA 06, works at the Harlem Children's Zone (HCZ) in New York. He has been a mentor and tutor for Harlem's high school students who want to graduate and go on to college. Carey is currently creating a student-run radio program for HCZ. He was recently published in *Wax Poetics* magazine, volume 35.

Kevwe Eferakorho, SW 06, is a qualified social worker with Calderdale Health and Social Care in the United Kingdom. She serves older adults with physical disabilities and is working to provide a holistic range of care.

Cawas B. Engineer, GM 06, is doing a postdoc at the University of California, San Diego. Engineer works on carbon dioxide signaling in plants with the objective of generating high-yield, drought-resistant crops.

Rachel E. Gearhart, SW 06, became a licensed clinical social worker in November 2008. She works with Good Samaritan Counseling Center, one of the oldest outpatient mental health facilities in Anchorage.

Megan Houck, LA 06, and **Joshua Henry**, EN 06, EN 06, GB 07, were married on Aug. 2,

2008, in St. Louis. The couple resides in Houston. Megan is a first-grade teacher at River Oaks in the Houston Independent School District, and Josh is a research analyst at Koch Industries.

Katrina M. Marshall, LA 06, is the vice chair of Catalyst, Birmingham's premiere group for young professionals. She also is a member of the Birmingham Urban League Young Professionals and the Birmingham Change Fund, a group of African-American philanthropists under the age of 40. Marshall is a major gifts officer and alumni specialist at the University of Alabama at Birmingham.

Lynnette B. McRae, LA 06, is completing the Presidential Management Fellowship program in Washington, D.C.

David M. Ricaud, LA 06, is pursuing a master's degree in marketing communication at Boston University's College of Communication. He is president of AdLab, the university's student-run advertising agency. AdLab has real clients, both local and national, and is one of the largest ad agencies in New England.

Curtis R. Wilgosh, GB 06, works at Spartech Corporation on a company-wide enterprise resource planning project. He trains and supports Spartech's manufacturing plants in forecasting, planning, and scheduling.

Beth L. Wolfson, LA 06, graduated from Boston University School of Law with honors in the intellectual property concentration. While a law student, she founded the Boston University Art Law Society and organized academic lectures on the topic of art law, as well as creative arts events for students (museum trips, drawing sessions, writing workshops, an annual student art exhibition, and open mic night). She is interested in practicing intellectual property, entertainment, and art law.

Hannah A. Draper, LA 07, GR 07, is a foreign service officer with the Department of State. She has served one tour in Riyadh, Saudi Arabia, and will be heading to Istanbul, Turkey, on her next assignment.

Mary K. Meyer, LA 07, teaches German at Soldan International Studies High School in St. Louis, where she also coaches. She is involved with her local church, the Journey, and is volunteering at Urbana09, a missions conference. Meyer also plays with Filthy Gorgeous, a women's club ultimate frisbee team.

Christopher R. Albin, LA 08, is studying to be a winemaker in California.

Nancy Mueller, LA 08, recently graduated from AmeriCorps National Civilian Community Corps Pacific Region, wrapping up 10 months of community service nationwide.

Linden Weiswerda, LA 08, worked for the Obama for America Campaign in St. Louis after graduation. He ran a field office and directed activities in South St. Louis. He is now enrolled in the Master of Urban and Regional Planning Program at the University of Minnesota's Hubert H. Humphrey Institute of Public Affairs. Weiswerda expects to graduate in May 2011.

Carolina Fojo, LA 09, received a one-year fellowship in sustainable agriculture with Bon Appétit. She will work directly with farmers on the East Coast to assess overall sustainability.

In Memoriam

1930s

Doris (Wehmeier) Weber, LA 32; July '09 • Rowena (Mann) Baldwin, NU 33; March '08 • Barbara (Deibel) Pauley, LA 33; Aug. '09 • August S. Erspamer, EN 34, SI 35; Jan. '08 • Maxine (Wells) Hansen, LA 34; Jan. '09 • August H. Lamack, EN 34; Sept. '09 • Morris D. Marcus, MD 34; Aug. '09 • Natalie (Simon) Weil, UC 34; Sept. '08 • Alice (Parker) Wilson, LA 34; Jan. '08 • Gilbert F. Craig, BU 35; March '09 • Myra (Friedman) Dubinsky, LA 35; Aug. '09 • Morris M. Fine, EN 35; April '09 • Mae A. Cella, LA 36; June '08 • Lois (Lange) Chesterson, SW 36; April '09 • J. William McCrackin, EN 36; Oct. '08 • Elinor (Levis) Strassner, LA 36; Aug. '09 • Leota Janke, GR 37; Feb. '08 • Hortense (Cornitius) Lincors, FA 37; Oct. '08 • John W. Losse, Jr., BU 37; June '08 • Hope (Barnard) McKeehan, FA 37; Sept. '08 • Louis Pechersky, DE 37; Aug. '09 • Jane (Overly) Risk, LA 37; Aug. '08 • Bea (Backer) Ziegler, UC 37; July '08 • Everett B. Best, BU 38; Jan. '09 • John D. Covington, BU 38; April '08 • U. L. Dubois, BU 38; Jan. '09 • Leo M. Hendrix, BU 38; Oct. '08 • Edith (Greiderer) Kaufman, LA 38, GR 39; July '08 • Frances (Borgsteadt) Littleton, LA 38; June '09 • Dorothy (Simpson) Palmer, SW 38; March '09 • William J. Vogler, LA 38, GR 40; July '09 • Adele (Helmkamp) Weicker, LA 38; July '09 • Elizabeth H. Wright, NU 38; Feb. '09 • Robert F. Baumgartner,

BU 39; June '09 • Mary (Filsinger) Kessler, FA 39; May '09 • Elizabeth C. Schwinn, LA 39; Oct. '08 • Mildred Bush Cook, FA; Sept. '09

1940s

Ella (Pfeiffenberger) Anschuetz, GR 40; June '09 • Harry W. Fulbright, LA 40, GR 42, GR 44; May '09 • Silas G. Ramsey, Jr., EN 40; Dec. '08 • Sue (Rubin) Wolverson, BU 40; Sept. '09 • Mary (Wilson) Skinner, LA 41; Aug. '09 • Marjorie (Snyder) Dunlap, NU 42; July '09 • Suzanne (Sobel) Hoffman, LA 42; July '09 • Robert A. McCarthy, EN 42, SI 47; March '09 • E. LeVerl Barrett, MD 43; Aug. '09 • Richard D. Korn, DE 43; March '09 • Mary (Farrell) Schultz, LA 43; July '09 • Vernon G. Becker, DE 44; Aug. '08 • Woodrow D. East, LA 44; Feb. '09 • Ralph Fargotstein, MD 44; July '09 • Warren L. Vammen, DE 44; Aug. '08 • Carol (Cohen) Frank, LA 45; April '09 • Miriam (Wetteroth) Marsh, FA 45; Aug. '09 • George K. Shimizu, LA 45, DE 49; July '09 • Mark Adolphus, BU 46; Aug. '09 • Roland "Jack" Fowler, DE 46; July '09 • Mary (Kiyomura) Hamaji, LA 46; May '09 • Mary (Waters) Lord, LA 46; May '09 • Samuel Feldman, EN 47; Sept. '09 • Wanda (Ray) Frazee, NU 47; July '08 • Elvera C. Guebert, PT 47, NU 51; July '09 • Mona (Shuttleworth) Mattingly, LA 47; Jan. '08 • John A. Nuetzel, MD 47; July '09 • Robert L. Quigley, LA 47, BU 48; April '09 • Rosemary (Hubbard) Reagan, PT 47; Sept. '09 • Elmer H. Wohlschlaeger, BU 47; Aug. '09 • Robert M. Davis, EN 48; July '09 • Robert J. Herschler, LA 48; March '09 • Alfred S. Jennings, EN 48, SI 49, SI 51; May '09 • Richard P. Knapp, BU 48; Nov. '08 • Eugene L. McMurtry, EN 48; Feb. '09 • Marvin L. Molasky, BU 48; Aug. '09 • Dorothy (Morgan) Ramsay, GR 48; June '09 • Edward E. Schmitt, LA 48; July '08 • John P. Schuette, EN 48, SI 61; June '09 • Philomen (Kelly) Severance, UC 48; July '09 • Harold B. Bamburg, LW 49; July '09 • Betty (Lentz) Barron, BU 49, LA 69; Sept. '09 • Jack B. Geaslin, BU 49; July '09 • Paul W. Gericke, EN 49; July '09 • George F. Gillette, LA 49; Sept. '09 • Robert E. Kane, EN 49; Sept. '09 • Arthur J. Reimers, Jr., BU 49; July '09 • Jerome J. Wieselmann, EN 49; Jan. '08

1950s

Charles E. Brady, DE 50; Feb. '09 • David G. Christianson, BU 50; Aug. '09 • H. Milton Gehlert, BU 50; Aug. '09 • William R. Harrington, EN 50; July '09 • Arthur J. James, LA 50; June '09 •

Alexander S. Mezines, EN 50; Sept. '09 • Victoria M. Olds, SW 50; Nov. '08 • Neal J. Schmelzel, GR 50; April '09 • Albert E. Stevenson, Jr., EN 50; April '08 • Leonard C. Vogel, EN 50; July '09 • Gerald Weathers, GR 50; Feb. '08 • Anita Weis, GR 50; April '09 • Samuel S. Zebelman, LA 50; June '09 • Mrs. Jack Zuckner, UC 50; July '09 • Benjamin F. Bush II, BU 51; July '09 • Robert A. Hagen, BU 51; March '08 • Gene E. Hempe, AR 51; Aug. '09 • Peter A. Morrell, LA 51; March '09 • Charles E. Dierker, LA 52; Sept. '08 • Bobby D. Fritz, DE 52; March '08 • Charles H. Kirkpatrick, BU 52; March '08 • Robert R. Rademaker, EN 52; Aug. '09 • Brockman Schumacher, Sr., GR 52, GR 69; Aug. '09 • Betty (Schickedanz) Seppi, LA 52; Feb. '09 • Arnold C. Siedschlag, AR 52; May '09 • Allan N. Zacher, Jr., LW 52, GR 71; April '09 • James E. Case, Jr., EN 53; Aug. '09 • A. Paul Mueller, EN 53; Sept. '09 • John B. Spaulding, MD 53; Oct. '08 • Rhys A. Williams, MD 53; April '09 • Clement B. Fox, GR 54; March '09 • Melvin A. Hoey, BU 54; Feb. '09 • Claude H. Zwart, Jr., BU 54, GB 60; Feb. '09 • John G. Durham, DE 56; Aug. '09 • Theodore A. Kaminski, UC 56; July '09 • Frances E. Sanders, LA 56; July '09 • James G. Becker, EN 57; July '09 • George W. Billinyer III, EN 57; March '09 • Richard L. McKay, DE 57; Jan. '08 • Millicent R. Roworth, GR 57; May '09 • Vernon R. Debus, DE 58; July '08 • Robert R. Eckert, BU 58; Oct. '08 • Kenneth W. Gentsch, MD 58; July '09 • Thomas A. Littmann, EN 58; June '09 • Virgil M. Marti, Sr., SI 58; Aug. '09 • Henry C. Mellone, GB 58; Aug. '09 • Carl E. Roth, LA 58; Aug. '09 • Vergil H. Fletcher, GR 59; June '09 • Sue (Steiner) Gallop, LA 59; Sept. '09 • Walter W. Hamilton, SW 59; Aug. '09 • Michael J. Melburn, BU 59; June '09 • Edwin R. Muehlemann, EN 59; Dec. '08 • Karleen G. Redle, LA 59; Feb. '09 • Anita D. Riddle, LA 59; Sept. '09

1960s

Nettie E. Cook-Dove, GR 60; Oct. '08 • Anna (West) Daniels, UC 60; Aug. '09 • George W. Finch, EN 60, EN 62, LW 67; April '09 • Charles M. Fleming, EN 60; Aug. '09 • Robert M. Forman, BU 60; Feb. '09 • Alexander Kaczmarczyk, GR 60; Feb. '09 • Eugene D. Levin, BU 61; Aug. '09 • Ethel Ransdell, UC 61; May '08 • Henry R. Etter, LA 62; March '09 • Joseph P. Hudson, GR 62; Sept. '08 • Guy D. Hughes, GR 62; April '09 • Virgil R. Koch, UC 62; July

'09 • Ellen E. Morrical, LA 62; Jan. '08 • Andrew F. Tegethoff, Jr., LW 62; Aug. '09 • Gloria A. Wallace, UC 62; Nov. '08 • Gerard Wolf, EN 62; Jan. '09 • William M. Yen, GR 62; Jan. '08 • Lorraine E. Galle, SW 63; April '09 • Mary (Hagemeister) Goodley, LA 63; March '09 • William J. Hoetker, GR 63, GR 67; March '09 • Tamea L. Petersen, GR 63; Feb. '09 • Homer W. Potts, Jr., UC 63; July '09 • William G. Tamalis, UC 63; July '09 • Mrs. Joseph Goldstein, LA 64; July '09 • Eugene Gross, UC 64; Nov. '08 • Joseph P. Hopkins, UC 64; Aug. '08 • Fred Rosen, UC 64; Sept. '09 • Henriette (Baer) Ackerman, GR 65; Aug. '09 • Marsha (Gale) Bohm, LA 65; Feb. '09 • Earl P. French, UC 65; March '09 • Marlin L. Funk, EN 65; March '08 • Eleanor M. Henderson, UC 65; Sept. '08 • King Hardin, UC 66, UC 72; Sept. '08 • John D. Griffith, UC 67; Feb. '09 • Mary Tobias Hagan, GR 67, GR 71; April '09 • Jon E. Ferner, TI 68, UC 72; Feb. '09 • Franklin E. Perkins, GR 68; Aug. '09 • David A. Cain, GR 69; July '09 • Rachel Melechen, GR 69; June '09 • Robert E. Schaefer, UC 69; May '09

1970s

Joel B. Goldsteen, GA 70; May '09 • Thomas D. Lustig, LA 70; May '08 • David R. Tredrea, SI 70, SI 70; Aug. '09 • Clarence F. Buckley, SI 71; June '08 • Gloria J. Luecking, UC 71, UC 80; Nov. '08 • Gary A. Tobin, LA 71; July '09 • Brenda J. Buchanan, GR 72; April '09 • Alan P. Sloma, LA 73; May '09 • Patrick F. Stranahan, DE 73; Nov. '08 • Cleart C. Jones, UC 74; Jan. '09 • Howard E. Rosenbaum, LA 74; Sept. '08 • Vernon L. Trevathan, Jr., SI 74; May '09 • Dane W. Garrett, LW 75; Aug. '08 • Brian D. Gilbert, HA 76; March '09 • William H. Baird, LA 77; Sept. '09 • Thomas E. Knox, TI 77; Sept. '08 • Jeanne (Donnelly) Doll, UC 78; Aug. '09 • Leslie D. Edwards, LW 78; July '09 • G. Russell Stanton, Jr., GL 79; Feb. '09

1980s

John J. Dwyer, GR 80; April '09 • Jacqueline (Goodman) Levine, GR 80; July '09 • Terry J. King, UC 81, TI 82; Jan. '09 • William D. Stephenson, LA 81; Sept. '09 • Eduardo Jaramillo, GR 83, GR 86; Dec. '08 • Thomas P. McBride, TI 85; July '09 • Patrick J. Abegg, LA 86; April '09 • Michael T. Milliano, LA 86; Aug. '09 • Lawrence F. Swann, GR 88; Aug. '09

1990s

Lynn (Stockman) Imergoot, UC

90; July '09 • John Jennings, TI 93; Aug. '08 • Kara Aya-Welland, BU 95, LA 95; July '09 • Mark N. Detrich, UC 97; June '09

In Remembrance

Elizabeth High Baker

Elizabeth High Baker, AB '40, a generous University supporter, died Saturday, March 14, 2009.

Baker was active in her community. She belonged to Allegro, the Forest Club, and the Houston Country Club. She also was a member of the altar guild of St. Francis Episcopal Church and Palmer Episcopal Church.

In 2001, she established the Burke and Elizabeth High Baker Chair of Child Developmental Psychology at the University.

Phyllis J. Bigpond

Phyllis J. Bigpond, MSW

'72, executive director of the Denver Indian Family Resource Center (DIFRC), died Saturday, September 26, 2009.

Bigpond, a member of the Yuchi Tribe of Oklahoma, became the founding executive director of DIFRC in 2000.

In 2007, she received the Swanee Hunt Award for excellence in nonprofit work. She was named Outstanding Native American Leader by the Association of American Indian Social Work and earned the Distinguished Alumna Award from the George Warren Brown School of Social Work.

Philip R. Dodge

Philip R. Dodge, professor emeritus of pediatrics and of neurology, died Sunday, August 30, 2009.

He was a founder of pediatric neurology and head of the Department of Pediatrics for 21 years. He was substantially responsible for the creation of St. Louis Children's Hospital.

His daughter, Judy Speck, is a senior research technician in the Department of Otolaryngology.

Bernie Fuchs

Bernie Fuchs, an illustrator and graduate of the School of Art, died Thursday, September 17, 2009.

Beginning in the mid-1950s, Fuchs' work appeared in several magazines—ranging from *Cosmopolitan* and *McCall's* to *The New Yorker* and *Sports Illustrated*.

Fuchs received more than 100 awards. In 1975, he became the youngest illustrator ever elected to the Society of Illustrators Hall of Fame.

Leonard B. Gulbransen

Leonard B. Gulbransen, professor emeritus of metallurgy, died Wednesday, May 27, 2009.

Gulbransen joined the University as associate professor of metallurgy in 1954. In 1958, he was promoted to professor, and then became emeritus in 1991.

He served as vice chairman of the American Society for Metals from 1961 to 1962.

Lynn Imergoot

Lynn Imergoot, associate director of intramurals and club sports and former women's tennis coach, died Friday, July 24, 2009.

A four-time University Athletic Association (UAA) Coach of the Year, Imergoot built the Bears' program from the ground level up to a national contender. In 30 seasons as head coach of the Bears, she tabulated a career record of 435-164. Imergoot guided the University to seven NCAA Division III Tournament appearances.

Lee Robins

Lee Robins, professor emerita of social science in psychiatry, died Friday, September 25, 2009.

A world leader in psychiatric epidemiology research, Robins had worked in the Department of Psychiatry for more than 50 years. Robins wrote the *Diagnostic Interview Schedule* and was one of the principal investigators for the landmark Epidemiologic Catchment Area study in the 1980s.

She was a Fellow of the American Academy of Arts and Sciences and the Society for the Study of Addiction to Alcohol and Other Drugs.

Her husband, Hugh Chaplin, Jr., is professor emeritus of medicine.

Margaret Bush Wilson

Margaret Bush Wilson, trustee emerita of Washington University, died Tuesday, August 11, 2009.

Wilson was a prominent civil rights attorney in the 1960s and the first woman of color to chair the board of directors of the National Association for the Advancement of Colored People (NAACP).

The second woman of color admitted to practice law in Missouri, Wilson served on the University's Board of Trustees from 1978 until her death. She was a charter member of the Arts & Sciences National Council and a member of the advisory board for the American Culture Studies Program in Arts & Sciences.

Wilson served as U.S. attorney for the legal division of the rural electrification administration of the U.S. Department of Agriculture and assistant attorney general of Missouri. She managed a St. Louis law firm for more than 40 years.

In 1978, she received an honorary doctor of laws degree from Washington University.



He Builds Programs, and They Come

BY LISA CARY

For 25 years, Gary Hochberg supported and encouraged Olin Business School undergraduates. He maintained contact with them through the admission process until they were ready to graduate and leave the University “nest” for new challenges. Two years ago, Hochberg himself “graduated and left his post” for a fresh challenge.

After serving as assistant dean, then associate dean, for Olin’s undergraduate program since 1982, Hochberg announced in 2007 that he was ready to move into a different role at the School. He now directs three specialized master’s programs that he helped develop in recent years: Master of Science in Finance (MSF); Master of Accounting (MACC); and—beginning this year—Master of Science in Supply Chain Management (MS/SCM).

“It’s a bit like running start-up businesses—hectic, but lots of fun,” says Hochberg. “I’m responsible for curriculum development, student recruitment, and all of the services needed to help students make their way through the programs.”

The Master of Science in Finance program, developed in 2005, illustrates Olin’s responsiveness to students’ needs. The program provides a rigorous, comprehensive curriculum that prepares students for financial careers in just 10 months—half the time it takes to earn a Master of Business Administration (MBA) degree.

“Enrollment is beyond our wildest expectations,” says Hochberg. “The students are outstanding and committed to their areas of study, so they are a delight to work with.”

Hochberg relishes the chance to use his entrepreneurial abilities as director of these new programs. It’s not unlike the challenge he faced in 1982 when then-dean Robert L. Virgil, MBA ’60, DBA ’67, JD ’09 (honorary), now dean emeritus of Olin Business School and trustee emeritus of Washington University, hired him for the newly created position of assistant dean for the undergraduate program.

“Interest in the undergraduate program lagged behind the MBA program in the 1960s and ’70s,” says Virgil. “When interest in undergraduate studies began to grow again in the early ’80s, we conducted a nationwide search for an individual who could revitalize the program. Gary fit the bill perfectly.”

At the time, Hochberg taught philosophy at Bucknell University in Pennsylvania. His attention turned toward university administration, however, while teaching courses in accounting and business ethics.

When he arrived at Olin, the BSBA program attracted only around 400 freshman applicants. Only one student enrolled from outside the United States. Today, the program receives almost 3,000 freshman applications from students here and around the world.

Hochberg quickly credits the three deans under whom he served for his success in building the program: Robert Virgil (until 1993); Stuart Greenbaum (1993–2005); and Mahendra Gupta, current dean and the Geraldine J. and Robert L. Virgil Professor of Accounting and Management.

“Gary’s imprint is on every facet of the program today,” says Virgil, crediting Hochberg instead. “He is responsible, more than anyone, for the fact that Olin now has one of the highest-quality undergraduate programs in the country.”

The program Hochberg built is distinctive among business schools. Undergraduates are able to customize their course work by integrating their business studies with non-business classes (many earn minors or majors in other disciplines) and a wide variety of opportunities outside the classroom. Students receive academic advising and career counseling jointly, so they learn early on how to tailor their educational experience to their interests, strengths, and eventual careers.

“Gary embodies the best of Washington University. He connected our business program and its students to every part of the University and to opportunities beyond the campus,” says John Berg, associate vice chancellor of undergraduate admissions.

Providing students with opportunities abroad was foremost on Hochberg’s agenda when he arrived at Olin. Unfortunately, at the time there were no study-abroad programs for business undergraduates. “Between my undergraduate and graduate years, I studied for a year in Germany, and it was an incredibly important experience,” he says. “Study abroad teaches students how to deal with cultural differences, which makes them flexible and adaptable to new situations.”



Gary Hochberg,
Director, Specialized
Master's Programs,
Olin Business School

"Gary is responsible, more than anyone, for the fact that Olin now has one of the highest-quality undergraduate programs in the country," says Robert Virgil, former business school dean.

Today, thanks to Hochberg and other members of the Olin team, undergraduates can choose from a variety of study-abroad programs, including international internships in London; Paris; and Koblenz, Germany. Students also can attend universities in Hong Kong; Melbourne and Queensland, Australia; and Madrid on academic exchanges. Approximately one-third of Olin undergraduates now take advantage of these programs.

Over the years, Hochberg also urged Olin students to take interesting elective classes and to get involved in extracurricular activities on and off campus. He advised them to make connections through student clubs and to perform hands-on service work in the St. Louis community—all to enrich their college experience.

"Nothing is more important to Gary than the education and success of his students," says Gupta. "Over his 25 years as associate dean of our BSBA program, he connected with every student and their parents on a personal level. No wonder his students love him and continue to do so as alums."

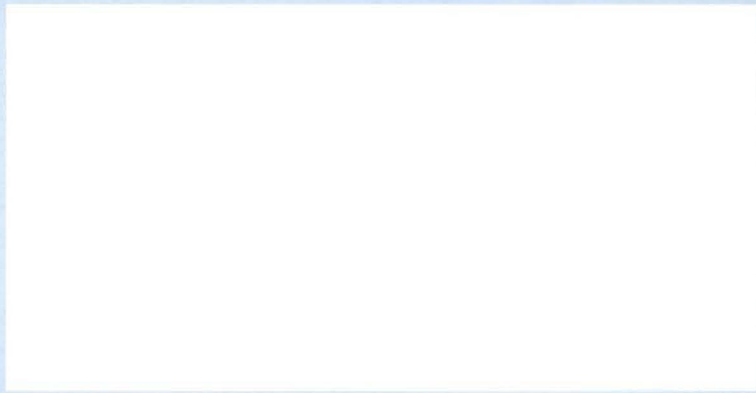
One reason Hochberg feels so comfortable around young adults is because he and his wife, June, raised three

of their own: Mark, Amy, and Aaron. All are serious musicians who love to "jam" with their dad, an avid folk musician. June, an elementary school teacher, now serves as a parent educator with St. Louis' Parents as Teachers program.

Hochberg dished out some tough love over the years to his own children and to Olin students. They confess, however, to being better people because of his watchfulness. As former student Trina (Williams) Shanks, BSBA '92, MSW '00, PhD '03, relates: "Whether I was starting my undergraduate career as a freshman or finishing my PhD, Gary always asked what I planned to do next and challenged me to dream big. He never forgot that a university is first and foremost about educating students and preparing them for excellence." Shanks was a 1996 Rhodes Scholar and is now an assistant professor of social work at the University of Michigan.

"It's been an incredible privilege to work at such an extraordinary place for such a long period of time," says Hochberg. "I'm glad to have known so many bright, hard-working, and appreciative students over the years. I now count many of them among my dearest friends." 📧

Lisa Cary is a freelance writer based in St. Louis.



Sweet Victory The No. 4-ranked Washington University volleyball team upset No. 1-ranked Juniata College, 3-1 (18-25, 26-24, 25-17, 25-21), to capture the 2009 NCAA Division III National Championship on Saturday, November 21, at the DeCarlo Varsity Center in University Heights, Ohio. Sophomore middle hitter Lauren Budde was named the Most Outstanding Player of the championship, as she led the Bears with 15 kills and five total blocks in the victory over Juniata. "A majority of the girls on the court were freshmen and sophomores," says senior captain Laura Brazeal. "And for them to come out and play at this level was amazing." Washington University now holds 17 team national championships in school history (10 volleyball, four women's basketball, two men's basketball, and one men's tennis). At press time, the women's soccer team had advanced to the Final Four, its second in school history. Check out <http://bearsports.wustl.edu> for the latest sports news.