

 Washington University in St. Louis

Washington

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JUNE 2013



COMMITTED TO THE WORLD

Washington University hosted the Clinton Global Initiative University and 1,200 student leaders committed to solving global challenges, pg. 12.

COSMIC RESEARCH IN ANTARCTICA 20 • ROAD LESS TRAVELED 26 • ROCKIN' CAMPUS 49

ARRIVING IN ANTARCTICA Washington University researchers conduct balloon borne astronomy experiments in Antarctica to study cosmic rays. These rays tell us about the violent processes that forged most of the atoms in the galaxy the stuff that makes up everything: toasters and teacups, planets and people. But mystery still surrounds where they come from, how they're made, and how they're boosted to such high energies. (See pp. 20–25.)



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Antarctica serves as a perfect research laboratory for balloon-borne astronomy experiments that gather data on cosmic rays, which tell us about the violent processes that forged most of the atoms in the galaxy.
- 26 **THE ROAD LESS TRAVELED**
Washington University grads have the confidence to pursue their dreams – even if they're different from their majors.

On the
COVER:

President Bill Clinton moderated the Clinton Global Initiative University's opening plenary session April 5 in WUSTL's Athletic Complex. The inspiring session featured new and veteran entrepreneurs sharing their stories, setbacks and key lessons from their own experiences. (Photo: Mark Katzman)



Jennifer Weisbord, BFA '92



Political science major turned actress and model, Pooja Kumar, AB '01, is one of the alumni featured in *The Road Less Traveled*, where career paths diverge far from fields of study. (See pp. 26–35.)

Richard Bose

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Joe Angeles



Since conducting a research project on hog farming in high school, Madeleine Daupp, AB '13, has had a passion for food production and agricultural policy. (See pg. 8 for "Three Questions for Madeleine Daupp.")

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AMAZING PLACES

IN THE LOOP

Washington University is moving forward with an \$80 million mixed use development of student apartments and retail spaces in the Delmar Loop (see rendering below). Through this major investment in University City and the city of St. Louis, the university aims to provide a model of sustainable urban living. See magazine.wustl.edu for more.





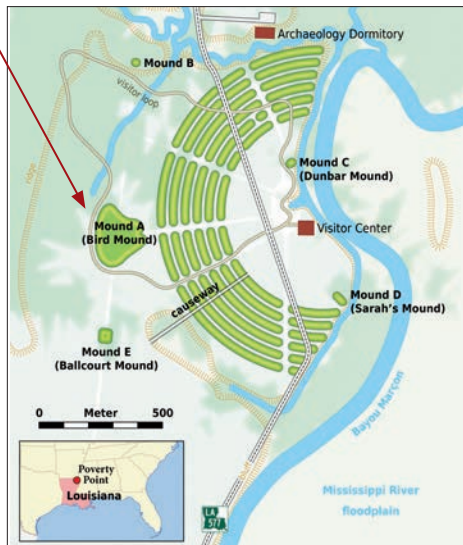
James Brand

Poverty Point's Ancient Mounds

MORE THAN 3 MILLENNIA AGO, along a Mississippi River bayou in northeastern Louisiana, as many as 3,000 laborers constructed a massive earthen mound. At the Poverty Point archaeological site, nominated early this year for recognition

POVERTY POINT:

Mound A, the largest North American earth work of its time, is believed to be the final addition to the sprawling 700 acre site, which includes five smaller mounds and a series of six concentric C shaped embankments that rise in parallel formation.



on the UNESCO World Heritage List, Mound A covers about 538,000 square feet [roughly 50,000 square meters] at its base and rises 72 feet above the river. Its construction required an estimated 238,500 cubic meters – about 8 million bushel baskets – of soil to be brought in from various locations near the site.

“The Poverty Point mounds were built by people who had no access to domesticated draft animals, no wheelbarrows, no sophisticated tools for moving earth,” says T.R. Kidder, PhD, professor and chair of the Department

of Anthropology in Arts & Sciences. “It’s likely that these mounds were built using a simple ‘bucket brigade’ system, with thousands of people passing soil along from one to another using some form of crude container, such as a woven basket, a hide sack or a wooden platter.”

Kidder figures it would take a modern, 10-wheel dump truck about 31,217 loads to move that much dirt today.

Further, Kidder’s research offers compelling evidence – the finding that no erosion due to rain occurred during construction – that Mound A was constructed in less than 90 days, and perhaps as quickly as 30 days. That’s an incredible accomplishment for what was thought to be a loosely organized society consisting of small, widely scattered bands of foragers.

“We’ve come to realize that the social fabric of these societies must have been much stronger and more complex than we might previously have given them credit,” Kidder says. “The prevailing model of hunter-gatherers living a life ‘nasty, brutish and short’ is contradicted, and our work indicates these people were practicing a sophisticated ritual/religious life that involved building these monumental mounds.”

Bee Venom: A New Weapon Against AIDS

NANOPARTICLES CARRYING A TOXIN found in bee venom can destroy the human immunodeficiency virus (HIV) while leaving surrounding cells unharmed, researchers at the Washington University School of Medicine have shown. The finding is an important step toward developing a vaginal gel that may prevent the spread of HIV, the virus that causes AIDS.

“Our hope is that in places where HIV is running rampant, people could use this gel as a preventive measure to stop the initial infection,” says Joshua L. Hood, MD, PhD, a research instructor in medicine.

Bee venom contains a potent toxin called melittin that can poke holes in the protective envelope that surrounds HIV, and other viruses. The particles simply bounce off the larger normal cells.

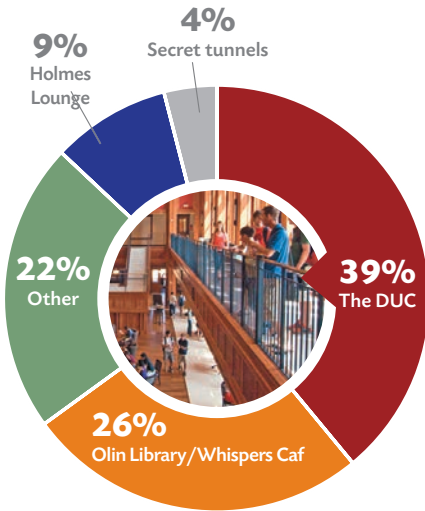
“We are attacking an inherent physical property of HIV,” Hood says. “Theoretically, there isn’t any way for the virus to adapt to that.”



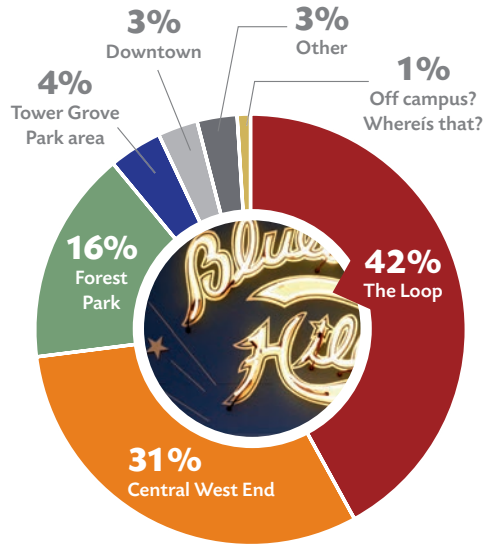
Survey Says

350 surveyed seniors share favorites and future plans. Take our alumni survey at <http://studentvoice.com/wustl/13june>.

FAVORITE ON CAMPUS SPOT



FAVORITE OFF CAMPUS DESTINATION



WHAT SONG SUMS UP YOUR WASH. U. EXPERIENCE?

- 3%** 22 Taylor Swift
- 3%** Peace of Mind Boston
- 3%** We Are Young fun.

Other write in votes:

- Feelini Good** Michael Bubl
- Margaritaville** Jimmy Buffett
- Tight Pants (Body Rolls)** Leslie Hall
- Better Together** Jack Johnson
- Call Me Maybe** Carly Rae Jepsen
- Eye of the Tiger** Survivor
- Fearless** Taylor Swift
- Friday** Rebecca Black
- Good Life** One Republic
- Good Riddance** Green Day
- How Far We've Come** Matchbox 20
- I Will Survive** Gloria Gaynor
- Move Your Feet** Junior Senior
- Long and Winding Road** The Beatles
- No Sleep** Kid Cudi
- Radioactive** Imagine Dragons
- Ruin** Cat Power
- Shots** LMFAO
- Thrift Shop** Macklemore
- Time of Your Life** Green Day
- Tubthumping** Chumbawamba
- Work Hard, Play Hard** Wiz Khalifa



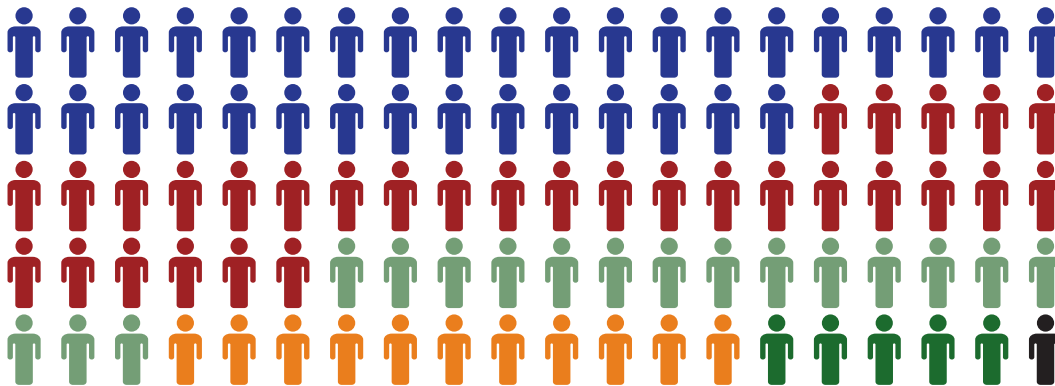
WHAT WILL DRAW YOU BACK TO CAMPUS?

37% Thurtene/
Alumni Weekend

Other answers include:

- 11%** Commencement
- 9%** WILD
- 8%** I'm not leaving.
- 6%** Friends

LIFE AFTER GRADUATION



35% Looking for a job **31%** Grad school **17%** I already have a job waiting for me.
11% Professional school **5%** Other **1%** Parents' basement is looking pretty good.



Young Lives, Full of Stress

DO ALL TYPES OF STRESS EQUALLY increase the risk of suffering from depressive symptoms among African Americans transitioning into young adulthood? That's one question asked in a new study by Lorena Estrada-Martínez, assistant

professor of social work in the Brown School, and her colleagues at the University of Michigan School of Public Health.

Estrada-Martínez, who is also a faculty scholar in WUSTL's Institute for Public Health, and her colleagues looked at data from a long-running survey of African Americans aged 19–25 (a period called emerging adulthood) in the Flint, Mich., area. They found higher levels of depressive symptoms – such as feeling hopeless, lacking interest in things, and thinking about suicide during the previous week – with exposure to perceived daily stress (life's everyday hassles), financial stress, neighborhood stress (e.g., fear of crime), and racial discrimination stress.

Further, participants who reported any accumulation of stressors over time had a higher risk for depressive symptoms than those who reported no stressors.

The findings suggest that members of this group are ineffectively coping with the stressors they're facing; findings will also provide useful information for developing interventions to reduce risk factors and increase support for their successful transition into adulthood.

Men married to women with higher incomes are more likely to use erectile dysfunction medication.

Money, Sex and Marriage

EYEBROW RAISING NEWS for the 22 percent of American households where wives equal or outearn their husbands: According to new research by Lamar Pierce, PhD, professor of strategy at Olin Business School, and his colleagues in Denmark, men married to women with higher incomes are more likely to use erectile dysfunction medication than their male breadwinner counterparts.

The researchers looked at more than 200,000 married couples from 1997–2006. They did not find these effects for unmarried couples or for men earning less than their wives prior to marriage, suggesting that the social construct of marriage plays a critical role in how men view wage comparison.

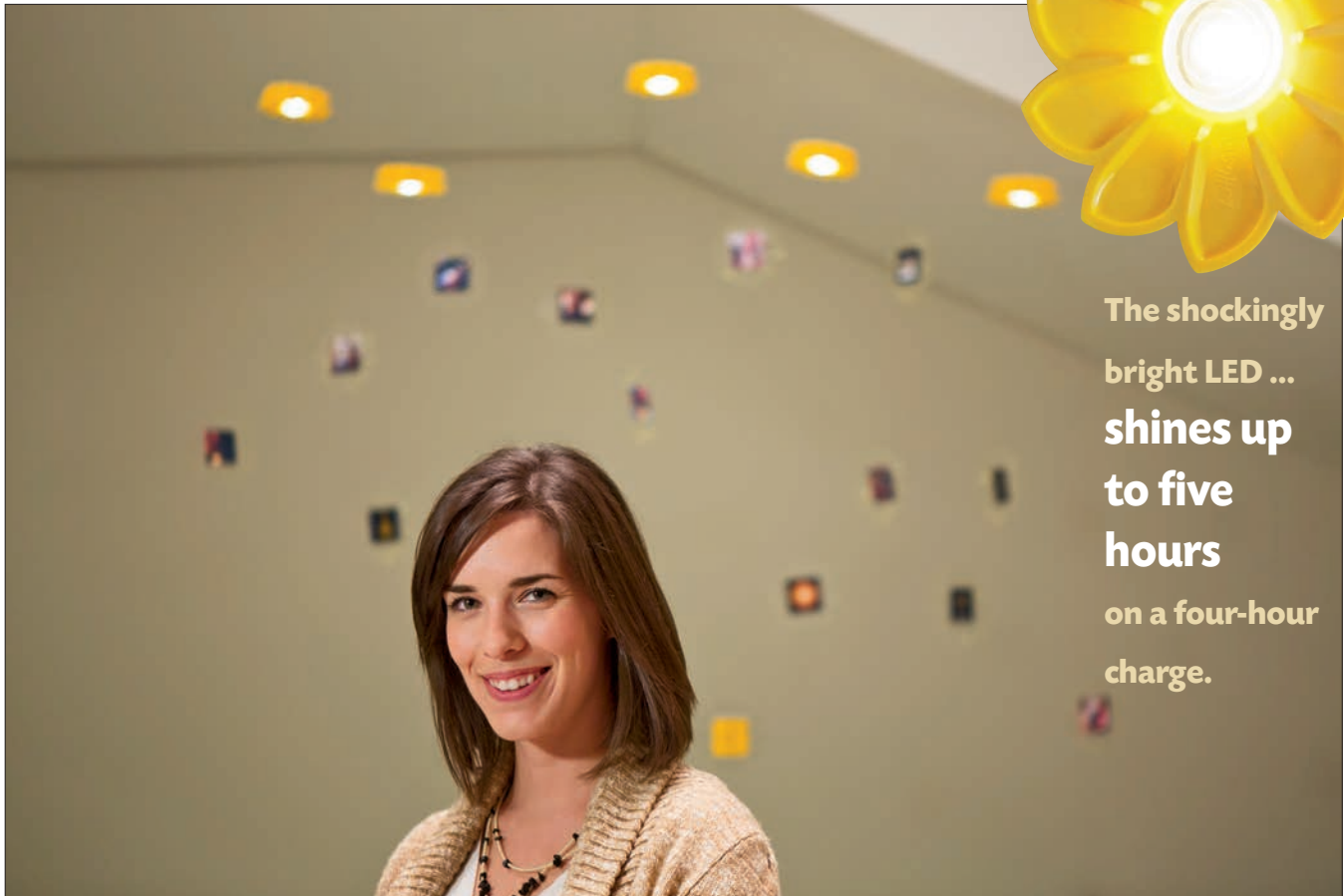
They also found that breadwinner wives were more likely to suffer from insomnia and to use an anti-anxiety medication.

WASHINGTON UNIVERSITY RANKED

11th
GREENEST CAMPUS

A Deeper Shade of Green

Washington University is ranked as the world's 11th greenest campus in the 2012 annual report of UI GreenMetric, a worldwide university ranking system that lists 215 of the world's most sustainable and eco-friendly campuses. Schools were ranked in several categories including infrastructure, energy use and waste.



The shockingly bright LED ... shines up to five hours on a four-hour charge.

Whitney Curtis

Bright Night

FOR MUCH OF THE DEVELOPING WORLD, access to electrical lighting is uncertain. Many rural farming villages exist “off the grid.” Major cities from Nairobi to Kolkata are subject to regular blackouts. The effect is that people aren’t as productive as they could be; they have to spend scarce money on candles; or sometimes they develop respiratory problems from the kerosene fumes.

To draw attention to this problem – and a solution – Sarah Moore, a master’s candidate in architecture, recently worked with Peter MacKeith, associate dean and associate professor of architecture in the Sam Fox School of Design & Visual Arts, to design and construct an installation at the Mildred Lane Kemper Art Museum that features a powerful and inexpensive solar-powered lamp, Little Sun. A shockingly bright LED, it is encased in tough, cheerful yellow plastic and shines up to

five hours on a four-hour charge. “The idea is to transform centers of cultural production, such as museums and universities, into points of contact, where visitors come to understand and engage with the issues,” MacKeith says.

For her Calderesque mobile, Moore suspended Little Sun lamps and photos of owners with transparent filament and framed with laser-cut Plexiglas discs that catch the light and echo the lamp’s distinctive silhouette.

Next spring, students in “Sustainable Development and Conservation: Madagascar” – offered by University College in conjunction with the Skandalaris Center for Entrepreneurial Studies and the Missouri Botanical Garden – will, among other projects, track the usage of Little Sun while exploring their larger economic and environmental potentials.

Sarah Moore’s Kemper installation brings attention to the need for off-the-grid lighting.

20%
of food served
by WUSTL
Dining Services
comes from
within 150
miles of the
university.



Joe Angeles

Three Questions for Madeleine Daupp

FOR A CLASS ASSIGNMENT from her central Pennsylvania high school, Madeleine Daupp – the recipient of competitive scholarships from the Truman and Udall foundations and a Rhodes scholarship finalist – conducted a research project on hog farming.

“What surprised me wasn’t the conditions of the farm. I had heard of confinement farming – the rows and rows of hogs,” says Daupp, a recent Arts & Sciences graduate. “I was surprised by the conditions of the farmer. He had had to start a second business, and he didn’t want his children to go into the business, because there wasn’t enough money and the conditions were too bad. He had to carry syringes of antibiotics and penicillin with him in case one of the hogs looked unhealthy... I started to see that farmers, who are doing some of the most important work in our country, were facing such economic and health conditions.”

The experience stirred in Daupp a passion for food production and agricultural policy. At the university, she met a group of like minds running

the Burning Kumquat, a student-run farm operating on campus, where she has served as president.

We asked Daupp for her thoughts on food.

1. I WISH PEOPLE KNEW just how much work goes into the food we eat every day, all along the supply chain. We kind of take it for granted. We don’t really think about the care and effort and attention to weather, and disease, and labor restraints. There’s an idea from Slow Food St. Louis that we should all be eating good, clean, fair food... Child-labor deaths, migrant laborers: There are real human beings in the fields out there, getting cancer and not earning enough to take care of their families. Maybe if we knew all that, we would pay more attention.

2. I’M MOST PROUD OF the Burning Kumquat and its changing my view of success. Before, I thought success was about how other people saw you: a good career or getting A’s. But really it’s about how you impact other people. One of my favorite things I’ve done is cook for Kids’ Place [an after-school program]. To me, delivering a plate of fresh spaghetti with homemade pasta sauce to a kid who’s never had it before – that’s success.

3. MY DREAM JOB: Secretary of Agriculture.

T REX Training

WASHINGTON UNIVERSITY'S BUSINESS, ENGINEERING AND LAW SCHOOLS are collaborating on a new course that embeds students in the center of the thriving entrepreneur community in downtown St. Louis.

The assignment: Execute consulting projects for eight resident entrepreneurs at T-REX, a technology business incubator, to better understand the inner workings of startups.

Student projects include identifying and quantifying customer value propositions, sizing the market, and analyzing the competition, says Ron King, senior associate dean and the Myron Northrop Professor of Accounting at Olin Business School. "This course is unique at Washington University and nationwide," he says.

Nick Benassi, associate dean at the School of Engineering & Applied Science, collaborated on the design of the new course. He sees the convergence of multiple disciplines around innovation



and entrepreneurship as part of a larger and necessary trend of interfacing talents to meet the challenges of the 21st century.

Nelson Nolte, a professional MBA student who is also a patent attorney, worked with the startup Graematter, which consolidates FDA-related regulatory information and provides a web-based system for retrieval and analysis. He surveyed its potential clients to determine their interest and understanding of the product. "The results were very interesting," Nolte says, "and it was a good lesson that you can't assume potential customers will view the product exactly the same way that you would expect." That's a good place to start(up).

T-REX, a technology business incubator, places WUSTL students in its startups to learn their inner workings.

Right to Vote*

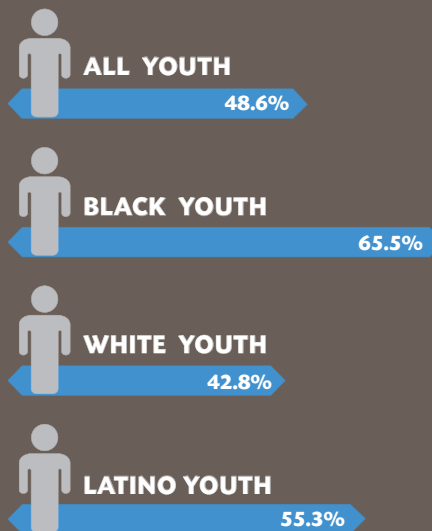
AT POLLING PLACES across America in November 2012, Latinos and African Americans under age 30 were disproportionately asked for identification, even in states that do not have voter ID laws, according to a post-election analysis by researchers at Washington University and the University of Chicago.

"Our study shows that voter ID laws have disproportionately severe consequences for youth of color," says co-author Jon Rogowski, PhD, assistant professor of political science in Arts & Sciences.

"Whether the biases are conscious or unconscious, the result of these laws is that people of color are effectively being disenfranchised. Our nation has an obligation to ensure that everyone has equal access to the voting booth."

* *Constitutionally guaranteed but unequally accessible*

Voters aged 18–29 asked for ID in states with no ID required



Source: Black Youth Project Quarterly Survey, November 2012

CHANGING OF THE GUARD

Top academic officer Macias steps down, will focus on educational technologies.

EDWARD S. MACIAS, PHD, the chief academic officer at Washington University for the past 25 years, will step down from his position as provost and executive vice chancellor at the end of the academic year, on June 30, 2013.

“Ed has led many important efforts that have strengthened the quality of our faculty, expanded our academic programs, enhanced the diversity of our community, and enriched the overall academic experience of our students,” Chancellor Mark S. Wrighton says. “He has been a trusted adviser and friend, and I am grateful for the guidance he has provided to my colleagues and me during his impressive career.”

Macias, the Barbara and David Thomas Distinguished Professor in Arts & Sciences, joined the university in 1970 as assistant professor of chemistry in Arts & Sciences. He served in various positions including professor and chair of the Department of Chemistry, director of the summer school, and dean of Arts & Sciences.

During a year’s sabbatical, Chancellor Wrighton has tapped Macias to lead an effort to explore the university’s approach to online education and seek to better leverage advances in educational technologies to enhance Washington University’s reach and impact.

PROFESSOR OF CHEMISTRY



WUSTL Archives

Edward S. Macias earned his PhD from MIT and joined Washington University in 1970 as assistant professor of chemistry. In 1984, he became chair of the department. His research interests included environmental and nuclear chemistry, focusing on the chemistry and physics of atmospheric particles and the effect of these particles on haze and air pollution.

DEAN OF ARTS & SCIENCES



WUSTL Archives

From 1994–2008, Macias was dean of Arts & Sciences (he was also concurrently provost from 1988–95; he maintained the duties of chief academic officer as the executive vice chancellor from 1995–2008). Macias strengthened Arts & Sciences by recruiting superb faculty and students and by fostering interdisciplinary programs. In the process, Arts & Sciences advanced to the first tier of the nation’s best undergraduate and graduate liberal arts programs.

Here, we celebrate Macias’ university career with a look at some of the changes the campus has seen since his arrival.

NUMBER OF DANFORTH CAMPUS FACULTY MEMBERS

1970	2013
531	658

(tenured/tenure-track)

NUMBER OF DANFORTH CAMPUS FULL TIME STUDENTS

1970	2013
6,682	11,700



PROVOST

In 2009, Macias was again appointed provost, the chief academic officer of the university, responsible for working with the deans to enhance the quality and impact of the university's academic mission. He was especially involved in cross school collaborations, efforts to promote diversity among the university community, internationalization and online education. His office coordinates work in areas such as enrollment, campus life, teaching and learning, and interdisciplinary research centers.

James Beard

NUMBER OF UNDERGRADUATE MAJORS

1970	2013
47	82

NUMBER OF DANFORTH CAMPUS BUILDINGS (PROGRAM GROWTH)

1970	2013
44	118

LIBRARY VOLUME HOLDINGS

1970	2013
100,000+	4,484,590

Committed to Action

The final question from the audience during the opening plenary session of the Clinton Global Initiative University (CGI U) was, “If constraint inspires creativity (according to Jack Dorsey, founder of Twitter and session panelist), then what one word describes what drives you?”

“The one word that drives me is 99½,” answered Bill Clinton.

The 42nd president and founding chairman of the Clinton Global Initiative continued his answer by proclaiming that one of his proudest accomplishments as president was approving the \$3 billion of taxpayers’ money that supported the Human Genome Project. One result of the multi-year, multi-institutional project (of which the Washington University School of Medicine played a pivotal role), he said, was finding “that all of us on planet Earth are 99½ percent the same.”

Standing on stage in the darkened Athletic Complex, under a bright spotlight, Clinton challenged the 1,200 transfixed CGI U students to spend their lives thinking of what makes us similar, not different. “If you want to build a future of shared prosperity and shared community,” Clinton said, “you can never forget that the 99½ percent has to count more with you than the half percent.”

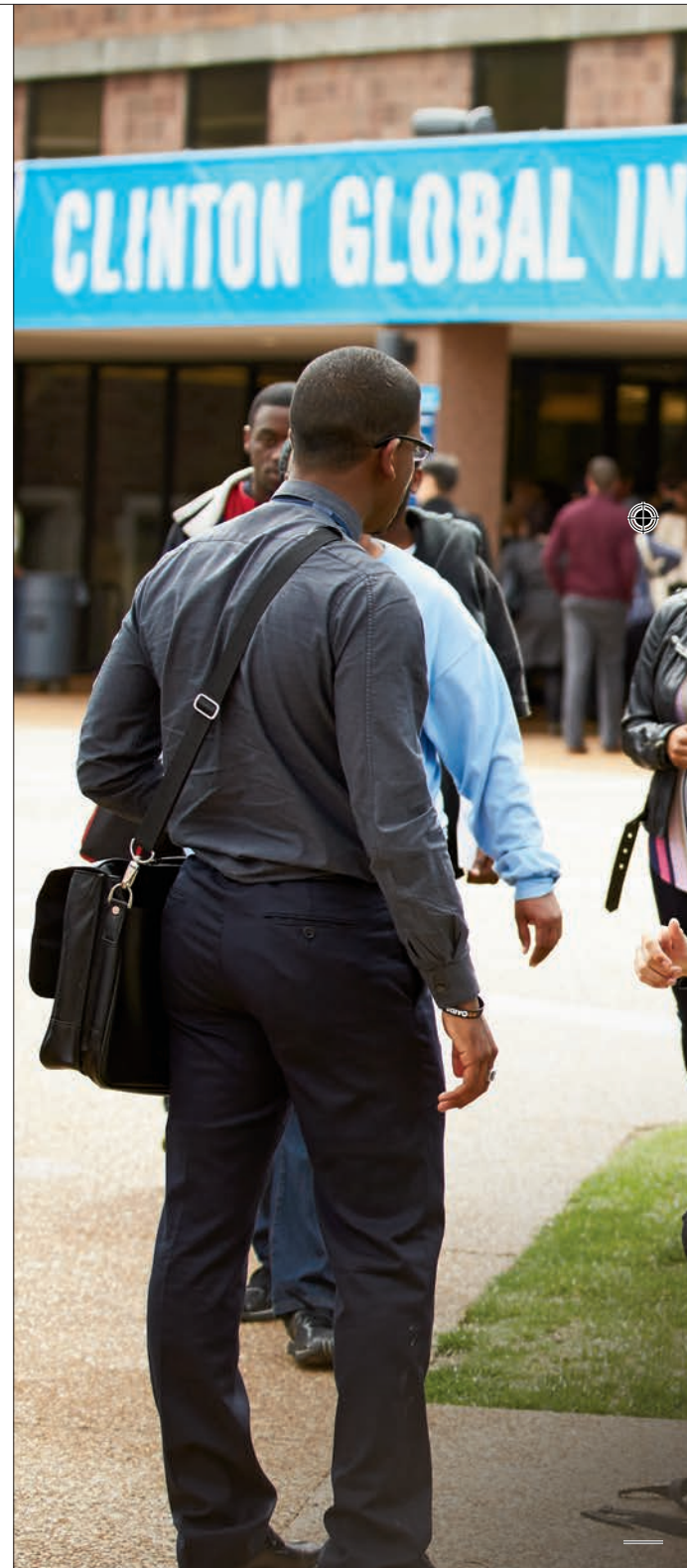
Selected based on the merits of pre-submitted commitments, these students, including 201 from Washington University, already embody this sentiment. They traveled to WUSTL from 75 countries and all 50 states, representing some 300 colleges and universities, to hear President Clinton’s inspiring words — and to learn from other experts and one another how to turn their ideas for improving the world into actions.

The feature-packed weekend included plenary, working and skill sessions with experts and celebrities, with a bonus conversation between comedian Stephen Colbert and President Clinton; networking events, exchanges and dinners; and a service project at Gateway STEM High School in the city of St. Louis.

CGI U chose Washington University to host its sixth annual conference because of the university’s long history of civic engagement, and because of the two organizations’ overlapping mission of developing and preparing young global leaders.

“Wash. U. really embodies not only the driving ethos of CGI U — of being committed to turning intentions into actions,” Chelsea Clinton said in her opening remarks, “but also in the motivating purpose of CGI U — empowering what is too frequently called the next generation of leaders, but who really are currently the leaders we need to have in every important conversation.”

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Action



CLINTON GLOBAL INITIATIVE
UNIVERSITY

2013 ★  Washington University in St. Louis



Mark Katzman

Clinton Global Initiative University students gathered at Washington University April 5-7 to fine-tune their plans for tackling some of society's most urgent challenges.

Photos, except 3, Mark Katzman, 3 Whitney Curtis



1. 1,200 CGI U students at WUSTL 2. Muhammad Yunus on a better future for girls 3. Chelsea Clinton on the importance of service, Gateway STEM High School 4.

Words of wisdom: inspiration & encouragement central

“

IN A FEW MONTHS, I'll be going to my 45th college reunion, from Georgetown and next year, I'll have my 50th high school reunion, and here is what I want you to know: The saddest people in my class are not those who failed, including repeatedly; the saddest ones are those who never chased their dreams.

– Bill Clinton, 42nd president of the United States; founding chairman, Clinton Global Initiative

I HOPE ALL OF YOU know how committed all of us [at CGI U] are to helping you make good on your commitments, because we do not have any time to waste in our world. I am a firm believer that those of us who can do things, should do things. And we need to learn from each other's skills, talents and experiences how to start something, how to build something, how to reorient some thing, and how to always be relentlessly focused on the how.

– Chelsea Clinton, board member, The Clinton Foundation

IF YOU WANT TO make a lot of money, that's OK, but do it while you're performing, creating and providing some kind of social good.

– Kenneth Cole, chairman & CEO, Kenneth Cole Productions; chairman of the board, amfAR

IF YOU REMEMBER your purpose, if you remember the why, and if you remember how precious and short life is, then you can do anything. Really focus, really push, and look at a mistake as a learning opportunity as something you can rebound from, not react to.

– Jack Dorsey, co-founder & executive chairman, Twitter; co-founder & CEO, Square Inc.



4. Students from 300 universities 5. Jada Pinkett Smith on ending human trafficking 6. Students from 75 countries 7. Add Stephen Colbert for comic relief

central to CGI U sessions

TECHNOLOGY HAS truly leveled the playing field. So women can access anyone any market, any supply chain, any customer anywhere around the world, whereas before they were limited to their local community. And, for women, I think there is another great benefit of social media, and that is enabling self expression.

– Stephen J. Felice, president & chief commercial officer, Dell Inc.

ONCE I SAW THAT picture in the book (of a windmill pumping water), I said to myself that this windmill exists somewhere else, somebody built it, so there is nothing that can stop me from doing the same thing. Regardless of what people were saying, I didn't stop from doing what I wanted to do; I trusted myself to do it.

– William Kamkwamba, inventor & co-author, *The Boy Who Harnessed the Wind*; student, Dartmouth College

I KNEW NOTHING about Bosnia, and I knew nothing of these people, their language, their culture. I had no connection to them, but I knew there was an injustice. And I was living in a country [the United States] that allowed me to act and I had a responsibility to act and that's how it started.

– Zainab Salbi, founder, *Women for Women International*; writer & producer, *Nida'a Alnissa Productions*

YOUNG PEOPLE SAY there are not many jobs in my country. What are we to do after we get an education? I say forget about the old fashioned idea about getting a job. You make a pledge to yourself and repeat it every day. The pledge is: I am not a job seeker; I'm a job creator. Creating a job is my mission.

– Muhammad Yunus, chairman, *Yunus Centre*; author of numerous books, including *Banker to the Poor* and *Creating a World Without Poverty*



D*Serve (Design Serves) inspires youth to become design based entrepreneurs to revitalize their community.

Turning ideas into action: ingenuity & creativity key to s

CGI U annually sets aside 200 of the 1,200 spots for students from the host institution. Knowing that civic engagement is such an integral part of the mission of Washington University, CGI U knew there would be a competitive base of applicants from which to choose. More than 400 WUSTL undergraduate and graduate students applied. The 201 students accepted collaborated on 116 enterprising commitments to action, aimed at solving a challenge in one or more of CGI U's five focus areas: education, environment and climate change, peace and human rights, poverty alleviation, and public health. The following two examples highlight the creativity involved; see magazine.wustl.edu for more.

D*Serve (Design Serves)

De Andrea Nichols (above), Brown School

De Andrea Nichols seeks to inspire youth who live in under-resourced areas to become design-based entrepreneurs. Germinating in St. Louis' Hyde Park neighborhood, D*Serve aims to help teens foster innovative, sustainable ideas and to guide them toward revitalizing the culture, physical spaces and socio-economy of their community.

"Within the larger design movement, there is a growing interest in human-centered design," says Nichols, who is a candidate for an MSW with a concentration in social and economic development. "This project allows us to work in the best of both worlds — serving the community and being as creative as possible in order to do that."

D*Serve is a partnership with the Rebuild Foundation and was highlighted by Chelsea Clinton during an April 6 press conference.



Interactive Living Landscape rejuvenates vacant urban lots into usable green space.

key to student commitments

Interactive Living Landscape

Andrea Godshalk (left), Sam Fox School of Design & Visual Arts; Ginny Spernoga (not pictured), Brown School; Maria Stoica (center), School of Engineering & Applied Science; Jason West (right), University College

This team intends to demonstrate that vacant, contaminated urban lots can be productively landscaped not only to heal the soil, but also to help improve the health of the wider community.

Working at the McPherson Community Garden in St. Louis, these four students, representing a range of disciplines, hope to promote healthy soil by removing hazards, conserving site resources, and fostering a native habitat. The use of phytoremediation techniques, for example, allows contaminants to be removed in a non-intrusive, sustainable way.

The team also sees their commitment as a way to engage the community, as they work together to restore an aesthetic and useful green space.

Visit cgu.wustl.edu for student commitment videos.



Faces of Hope



Team LumaCure



Barbershop based Health Education Study



Promoting Women's Health in Immigrant & Refugee Community



Missouri Regional Science Bowl



Addressing Civic Education in St. Louis





Joe Angeles

Q&A: Clinton and Wrighton

PRESIDENT BILL CLINTON

Washington University has a long, strong commitment to public service and civic engagement. That's one of the main reasons that we decided to have the meeting there this year. They've been a terrific partner. I'm very grateful. And I want to say a special thanks for their long-standing commitment to prepare students to be public service-oriented through the Gephardt Institute for Public Service and other on-campus organizations.

Q: These kids obviously aren't short on ideas. But what do they usually lack in order to get their projects going?

CLINTON

Normally when they make a commitment like this, they don't have enough resources to get started. But one of the things that I've been working on is trying to find CGI U a crowd-funding partner. More and more projects like this are being funded in a very transparent way by large numbers of smaller donors.

When the Haiti earthquake hit, a billion dollars was given. The median contribution was [approximately] \$25, because you could donate through text. You could type in "Haiti" on your cell phone, and it would direct you to a charity. So what I'm trying to do is figure out if there's some way to connect these ideas to the crowd-funding marketplace, so at least a fair number of them could get funding in that way.

WRIGHTON

Mr. President, I think you can also take some pride in having also nurtured the development of the Clinton Global Initiative University network. We're proud to be a part of it, but there are 32 other colleges and universities in it. And these institutions can provide some of the infrastructure to execute what's needed to implement these ideas.

A few days before 1,200 service-oriented students descended enthusiastically on the Danforth Campus, President Bill Clinton and Washington University Chancellor Mark S. Wrighton hosted a free-ranging question-and-answer teleconference with local and national reporters. After introducing the CGI U concept and background, they fielded questions on funding for student projects, how role models inspire young people to dream big, and the challenge of STEM education.

An excerpt of the conversation follows, edited for length and clarity.

CHANCELLOR MARK S. WRIGHTON

We're thrilled to be hosting the Clinton Global Initiative University this weekend. This is an exciting and important opportunity for us because our students and our faculty are very engaged in issues that the Clinton Global Initiative University has addressed, and we look forward to being partnered with this important organization. This conference not only stimulates great ideas about how to address the world's problems but, perhaps most important, provides a venue to learn how to implement these great ideas. I believe it will heighten interest and expand the impact of the Clinton Global Initiative.

Wrighton talk service, funding, impact

CLINTON

Thank you, Chancellor, for saying that. We have more of a commitment from schools in our network to support some of these ideas off the ground, at least giving them seed capital, than ever before.

Most of the time, the young people have great ideas — but no money at all. And sometimes, what they do really makes a difference. I'll give you one example.

Several years ago, one of our teams of students from South Asia pointed out that the nutritional substance given to babies born with HIV, so they could be given medicine, was based off a peanut. African kids liked it and South Asian kids couldn't stand it. So this team developed an alternative — something that has the potential to affect literally millions of people and save tens of thousands of lives. But they needed to start in order to prove that they could do it.

That's the sort of thing that I hope will happen with these start-up commitments that the university network has committed to provide.

Q: I was thinking about [President Clinton's] meeting with President Kennedy when you weren't much younger than the people who are convening this week. How did a meeting like that influence you in becoming a leader?

CLINTON

It had a big impact on me. Once you're around anything that you might want to do, you can imagine doing it. All these young people attending CGI U — I think it may be more inspiring for them to be with each other than for it is to have me there.

But I think the principle is the same. I want them to be able to imagine that they can actually have an impact, that their ideas count, that their deepest concerns are things that they can actually act on, that they can live a life that has integrity and impact.

And that may be the most lasting benefit — how deeply these kids believe when they leave that this is not some idle exercise. It should be integrated into their way of living for the rest of their lives. That's one of the things that I always hope will come out of this.


Q: I'm very interested in why you chose Gateway STEM for the service project. Will you have a continuing relationship after this weekend?

CLINTON

I especially like doing things in and around schools that have a community impact. And I liked Gateway STEM because it's committed to raising the level of STEM knowledge and involvement among kids that often get left out and left behind. They were doing it in an area that was economically challenging, and so they needed our support. And the things that we needed to do could be done in a day. If there's any way they would like ongoing involvement, then I think the best way to do it is through people at Washington University.

One of the things we've done through CGI itself was to make a commitment to help [President Barack Obama] meet the goal of 100,000 more STEM teachers in our schools nationwide. And we put together a partnership with more than two dozen companies and other partners. And we already have assured that we can account for almost 30,000 of that 100,000 goal with no expenditure of tax money.

WRIGHTON

Some time ago, we at Washington University formed the Institute for School Partnership, led by Vicky May, and a heavy component of STEM education is included in our initiative. We have outreach programs to science teachers and math teachers in public schools in the region. And we'll certainly be following up with Gateway STEM. 

I want them to be able to imagine that they can actually have an impact, that their ideas count, that their deepest concerns are things that they can actually act on, that they can live a life that has integrity and impact.

President Bill Clinton

This conference not only stimulates great ideas about how to address the world's problems but provides a venue to learn how to implement these great ideas.

Chancellor Mark S. Wrighton

Cosmic R



Ryan Murphy

ABOVE: (From left) Richard Bose, Dana Braun and John E. Ward, Super TIGER team members, lined up at the edge of Williams Field, the balloon launch area near McMurdo Station in Antarctica, waiting for team leader Bob Binnis' plane to land on the nearby Ice Runway.

RIGHT: Great blocks of ice are heaved upward where sea ice, shoved against rock, buckles and breaks. Tours of the pressure ridges, off Scott Base, are led by specially trained guides carrying rescue equipment. In the background are Castle Rock and Mount Erebus, the most active volcano in Antarctica.

Richard Bose



Cosmic Research in Antarctica

WUSTL researchers travel to remote, isolated, hostile Antarctica to conduct balloon borne astronomy experiments. Their ultimate goal is to solve the mysteries of cosmic rays — the rain of charged particles from space falling continuously on Earth.

BY DIANA LUTZ

Antarctica's climate is the most hostile of any place on Earth, so why would anyone choose to go there to study the stars?

Improbable though it might seem, the frozen continent is an ideal observatory because a persistent current of air, called the polar vortex, circles the continent at high altitudes. A balloon launched into the vortex will make great leisurely circuits of the continent at the very edge of the atmosphere.

In fall 2012, NASA launched three balloon-borne astronomy experiments from Williams (or Willy) Field in Antarctica, but the star of the season was Super-TIGER (see pp. 24–25), a two-ton detector the size of a billiard table designed by a consortium of institutions led by the university.

Ballooning sounds so sedate, so zen, but physicist and principal investigator Robert Binns, PhD, who has been part of 14 balloon missions, knew only too well that things could easily go wrong.

On one earlier mission, the squib that separates the parachute from the payload on landing failed, and the wind caught the parachute and dragged the payload 70 miles over the ice, straight toward the “Barrier” (edge of the Ross Ice Shelf) and the ocean.

On another mission, the balloon, instead of circling the continent, went off on a tangent and headed to the Southern Ocean. The flight was terminated over East Antarctica, in an area so remote that the scientists weren't able to recover the instrument, which remains there today.

But Super-TIGER launched on a nearly windless day, Dec. 9, 2012, rising majestically into brilliant blue skies, and then described nearly perfect circles over the continent — although it was mysteriously hung up for a nail-biting week over the mountains during its second circuit of the continent.

It didn't make it back to Willy Field, but instead had to be brought down near a remote field station, when time ran out as it neared the



Kyristine Lewis

Richard Bose

Transantarctic Mountains. If it had been downed in the mountains, it would have been irretrievable.

Hoping for 30 days aloft, Binns was ecstatic when Super-TIGER stayed up for 55 days, a record for heavy-lift scientific balloons.

The longer the better, as far as Binns was concerned, because he was after not just your average cosmic ray but instead heavy ones, less than one in a million, which provide the best clues to the stellar origins of the cosmic rays.

Cosmic rays aren't really rays but rather the naked cores of atoms cooked from lighter atoms in the bellies of giant stars and strewn across the galaxy when the stars explode — only to later coalesce into dust, asteroids, planets and people. Nearly every atom in our bodies was once a bit of dust like those that rained down on Super-TIGER during its majestic sky voyage.

We came out of Africa, it is true, but long before that, we came out of the stars.

Diana Lutz is senior science editor in Public Affairs.



Richard Bose

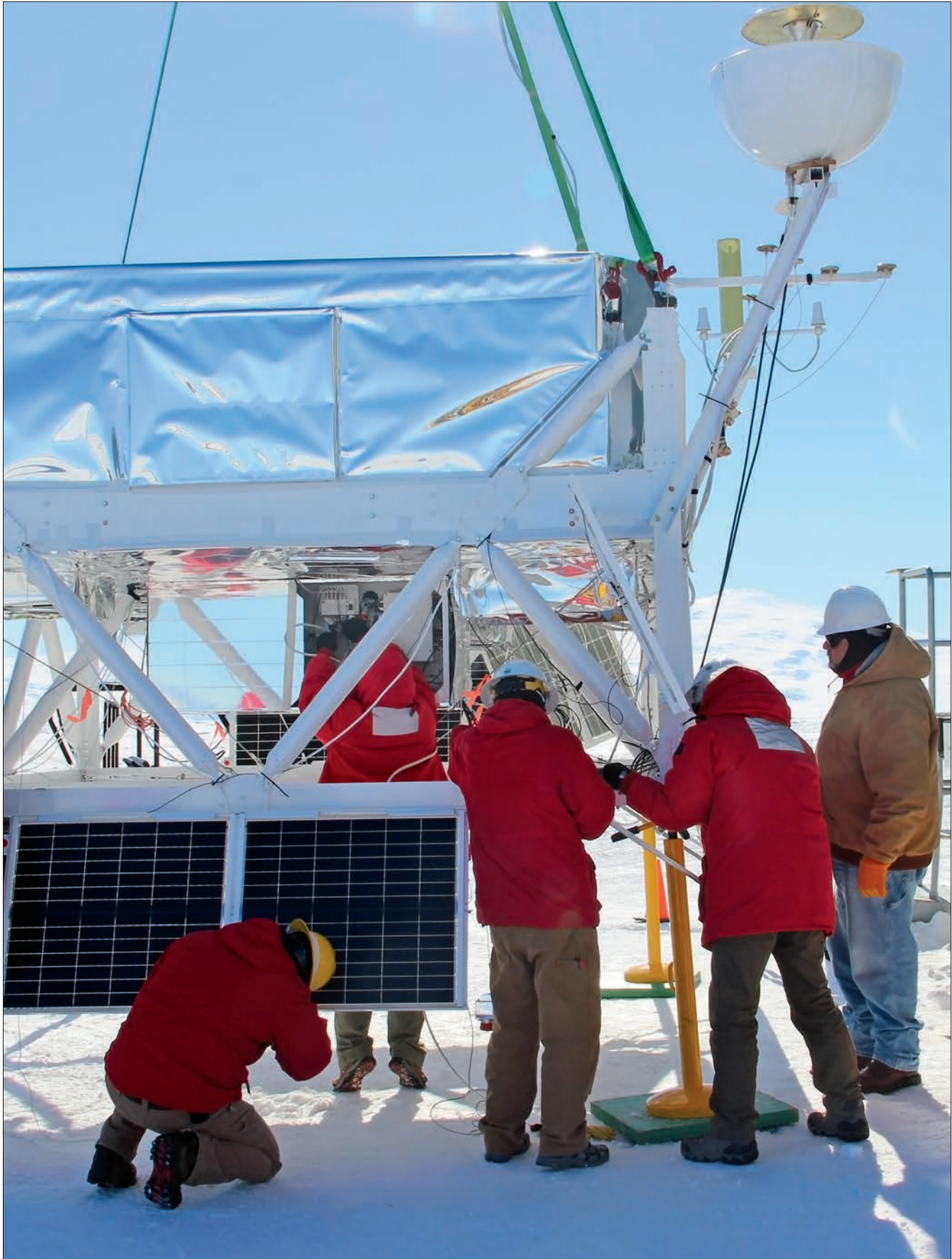


Richard Bose

BOTTOM LEFT: All personnel going off station in Antarctica must complete a field safety course called Snowcraft, or Happy Camper School. Campers spend the night outside, sleeping in snow trenches or in tents shielded from the wind by a wall of self made snow blocks.

TOP: Dana Braun makes carpets of scintillating optical fibers. Cosmic rays pass through the carpets, which are layered with other materials in the detector, and leave trails of light.

BOTTOM RIGHT: The Boss, a massive launch vehicle named for revered polar explorer Ernest Shackleton, picks up the two ton experiment for transport to the launch site. The hangar in the background is on skis, so it can be moved and avoid sinking into the snow.

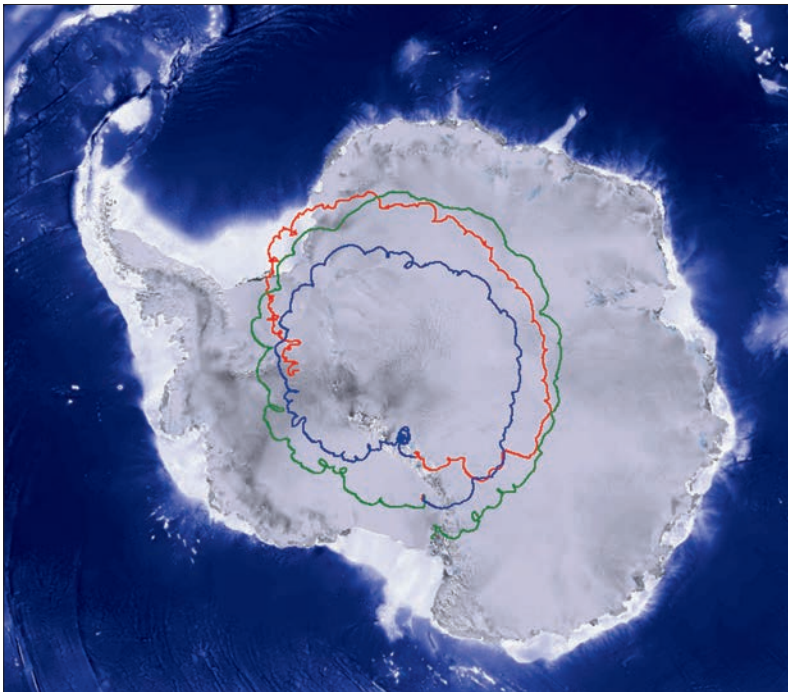


Richard Bose

Columbia Scientific Balloon Facility



Ryan Murphy



Columbia Scientific Balloon Facility

FACING PAGE: The crew makes final adjustments to Super TIGER. Once the balloon is aloft, they can converse with it via satellite links, but it is otherwise on its own.

ABOVE: Super TIGER's launch, Dec. 9, 2012, is seen from a distance. The volume of the balloon on the ground is less than 1 percent of its volume at the float altitude of 120,000 feet. Personnel not considered mission critical are required to stand well back during a launch. This requirement ensures that they will be out of harm's

way if the wind catches the balloon and begins to drag the two-ton payload. If the wind direction dictates the balloon rise over the field's hangars, all personnel must be inside.

LEFT: Super TIGER made almost three complete circuits of the continent. After several deathbed reprieves, the flight was terminated Feb. 1, 2013, after 55 days aloft, when the balloon kept turning toward mountainous terrain.



THE Road LESS TRAVELED

Washington University
grads have the confidence to
pursue their dreams – even
if those dreams don't quite
mesh with their majors.

BY ROSALIND EARLY

*M*ost college students have a plan. Sometimes it's as sure and straight as a highway. Other times it's a mere adumbration. But students know something of what they want to become and study what will help them on their way. Then life intervenes, and they don't get into medical school; or after four years of study, they realize that they don't like their field or they always wanted to do something else less practical. These five graduates prove that even if your best-laid plans do go astray, a WUSTL education is about more than career training. At Washington University, students learn who they are and develop the courage to walk their own paths, no matter how little traveled they may be.

26 magazine.wustl.edu



Dean Shulman, AB i77, studied biology while at the university. Yet, he now leads the sewing and embroidery division of Brother International and is considered a major player in the garment decorating industry. See pg. 35 for more on Shulman's career.

Jennifer Weisbord, BFA '92

In 2008, she saw a pile of cassette tapes on top of a blank canvas. That's when the idea struck me: What ghosts could be hiding in those machines? Simmons says.

The Russian literature major who became an artist

ERIKA SIMMONS, AB '06, pulled the brown cassette tape out of its plastic casing. The spools whirred as the tape puddled on the floor in a curly pile. She knew she wanted to create a piece of art, but she wasn't sure what. When she saw the brown curls, she thought of rock guitarist Jimi Hendrix. From there, everything fell into place.

Simmons grew up in Orlando, Fla. Her father was a professional motorcycle racer, and her mother was a costume designer for Universal Studios. Simmons moved to St. Louis when she was 18, and since Washington University was the best school in the area, she applied and was accepted.

At the university, she majored in Russian, which she had started teaching herself when she was 13. "I wanted to be a mafia princess," Simmons jokes. In her spare time, she waited tables to put herself through school.

After graduating in 2006, Simmons moved to Atlanta to take care of her father. A year later, she saw the coffee-table book *Masters of Deception: Escher, Dali & the Artists of Optical Illusion*, which included pictures from artist Ken Knowlton.

"When I saw Knowlton's artwork, suddenly, everything clicked. Art wasn't just for decoration," Simmons told CNN in 2010.

She particularly loved his portrait of Albert Einstein made entirely from dice. "He's referencing not only the famous quote, 'God does not play dice with the universe,' but also making a subtle statement about the meaning that arises out of the system of empty data," Simmons says.

"We see a face in the dice because our minds make sense of the patterns."

Simmons started experimenting with her own metaphorical images, and she tore up whatever she could find around the house, but nothing resonated. Finally, in 2008, she saw a pile of cassette tapes she had placed on top of a blank canvas. "That's when the idea struck me: 'What ghosts could be hiding in those machines?'"

As Simmons worked on the Hendrix portrait, she knew she was onto something. Online, she asked for old media: VHS tapes, film reels and more cassettes. She began creating portraits of everyone from Audrey Hepburn to The Beatles out of the material that made them famous.

Her image of Beethoven made from his sheet music was featured on "The Huffington Post." Ripley's Believe It or Not! bought several of her pieces, and she has been featured in magazines such as *British GQ*, *Details*, *Wired* and *The New York Times Magazine*.

In 2010, just two years after creating her first portrait, Simmons' work inspired pop artist Bruno Mars' video "Just the Way You Are," which features animated images made from cassette tape. More recently, Simmons created the official artwork for the 2013 Grammy Awards — the iconic Grammy phonograph, spun from a spool of half-inch studio recording tape.

"In a sense," Simmons says, "it is totally improbable that a waitress with no art training can make an impact. But, on the other hand, I think you don't have to leave home to have a good idea. If you have something of value to offer, success will find you."



Erika Simmons, AB 06, majored in Russian but is now a successful mixed media portrait artist who uses old media, such as film and cassette tape, as material.

Jennifer Weisbord, BFA '92

The chemical engineer turned restaurateur

In 1952, **MARVIN GIBBS, BScE '56, DSc '60**, had it all figured out. The St. Louis native had gotten scholarships to Princeton and MIT, and though he still wasn't sure where he'd go, he knew that if he went to Princeton, he'd study business or law; if MIT, he'd study engineering.



Marvin Gibbs, BScE '56, DSc '60, turned a successful chemical engineering career into co-founding a popular roast beef sandwich chain.

All that changed when one of his father's service stations burned down. He knew then that his family could no longer afford to send him away to school. Yet, Gibbs had not applied to any area universities. So a few weeks before classes were scheduled to begin, he walked into Washington University's admissions office and asked for admission — and a scholarship.



Joe Angeles

It worked, though the scholarship was contingent on his ability to earn good grades.

At the university, Gibbs decided on chemical engineering as a major, giving up sports to buckle down and study. To save money, Gibbs lived in the maid's quarters of a mansion near campus, which had "more windows to wash than Carter had liver pills," he says. He stayed there rent-free in exchange for doing odd jobs around the property.

Gibbs earned a bachelor's degree in 1956 but stayed on for his graduate work. During summers he worked for Monsanto, and when he graduated from Washington University with a doctorate in 1960, the company offered him a job.

Gibbs liked Monsanto, but "my thinking was that large blue-chip companies can, at some point in time, fall into a deep hole," he says. Plus, his brother-in-law, Clint Tobias, was looking for a job. "So we decided to start something together," along with a third partner whom they later bought out.

The partners opened a roast-beef-sandwich shop in Ballwin, Mo., and named it Red Lion Beef House. They quickly realized they couldn't trademark the name since Red Lion was already a motel chain. So, they changed the name to Lion's Choice.

"Back then there weren't as many burger stores as today," Gibbs says. "But there was McDonald's, Wendy's, Burger King. Trying to compete against the big boys, who had a lot more money, didn't seem the way to go." While there was some competition in roast beef, notably Arby's, Gibbs and Tobias were convinced they could make a standout sandwich.

"To this day, all of our beef is whole-muscle top round. We get it fresh. It's not frozen," Gibbs says proudly. Subsequently Lion's Choice caught on, and within two years the co-founders opened a second location in Creve Coeur, Mo.

During the early years, Gibbs occasionally worked the fryer on weekends or did landscaping. Tobias acted as general manager. And while Gibbs also served as company CEO, he never left Monsanto. He went on to a satisfying career there, working until his retirement in 1991. As Monsanto began exiting the chemical business in deference to agricultural and pharmaceutical products, Gibbs segued full time to Lion's Choice, where he helped grow the company to where it is today.

Lion's Choice now has 8 franchise and 15 corporate stores, and it is a highly recognized brand across St. Louis. But, according to Gibbs, none of it would have been possible without the university.

"I've always appreciated that Washington University gave me the opportunity — I was going to say at the 11th hour, but it was more like 5 minutes to midnight — to obtain the education that enabled me to go forward."

There was McDonald's, Wendy's, Burger King. Trying to compete against the big boys, who had a lot more money, didn't seem the way to go, Gibbs says.



The architect who went to Hollywood

As NEIL WADE, BArch '02, finished his junior year in architecture, he noticed a difference between himself and his Givens Hall classmates. "It was obvious that everyone around me loved what he or she was doing," Wade says, "but I wasn't in love with it."

Growing up in Tulsa, Okla., Wade had always enjoyed drawing. His art teacher encouraged him to pursue architecture, a practical application for his talent. He followed his teacher's advice, but Wade actually loved comic books and Japanese animation.

While at Washington University, though, he heard about the Japan Exchange and Teaching Program, which sent native English speakers to Japan to teach. Wade applied during his senior year and was accepted; he figured he'd spend his first year after college away from architecture to determine what he wanted to do long term.

After graduating in 2002, Wade went to Fukui, the third least populated prefecture in Japan. While there, he fell in love with the culture, the language and the country. He applied to stay two more years and then realized what he wanted to do. "I remember looking at a billboard for one of the animated films there and saying to myself: 'That's what I want to do,'" Wade says.

When he returned to the United States from Japan in 2005, Wade researched his options and applied to three art programs in Los Angeles. Then, without knowing if he was accepted, he packed up his car and moved to Hollywood.

It was in L.A. that Wade found out he'd been rejected by all three schools. At the time, his roommate moved out; he lost one of the three jobs he'd cobbled together to make ends meet; and he ran out of money.

"I was about to leave, but one of my best friends said, 'You can go back to Oklahoma and never do animation, or you can stay here and figure out another way,'" Wade recalls. "It had never occurred to me that there was another way."

Wade enrolled in a graphic design program at Pasadena Community College to be eligible for internships and applied to Nickelodeon for one in cartooning. In January 2009, he started as a production intern at *Dora the Explorer*.

"I found out there that I actually enjoy production," Wade says. "And then my first job made me love production over the artwork." A friend knew someone at *Family Guy* and passed Wade's résumé along. In October 2009, Wade started there on the production team, responsible for assigning tasks to animators and making sure design elements meshed.

"It was very hectic and very challenging," Wade says. "But I wouldn't give it back for the world." He also remained on good terms with Nickelodeon; in fact, they called him whenever a job opened up.

"At Wash. U., I learned how to manage relationships and how to have a voice for myself," Wade says. "Now, in the world of entertainment, those skills have kept me moving forward."

Thanks to his connections at Nickelodeon, Wade now works at *Fairly Odd Parents*, overseeing production from script to final design. And he gives back by mentoring interns as well.

"From the time I arrived in L.A., I knew that animation and entertainment were my world," Wade says. "I just wasn't exactly sure where I fit into it. But the idea of moving backward was more terrifying than anything, so I just kept moving forward."

From the time I arrived in L.A., I knew that animation and entertainment were my world, Wade says. I just wasn't exactly sure where I fit into it.



Architecture alumnus Neil Wade, BArch 02, oversees production from script to final design for Nickelodeon's *Fairly Odd Parents*.

Rob Brown



Pooja Kumar, AB '01, who studied political science, is now an accomplished actress and model.

Jennifer Weisbord/BFA '92

The university gave me a sense of myself. It did actually create my voice, Kumar says.

The poli sci major who flourished as an actress

In fifth grade, **POOJA KUMAR, AB '01**, played Petruchio in *The Taming of the Shrew*. "I played the guy role," she says, "and that's when I knew I had to go into acting."

Her mother introduced Kumar to Indian classical dance at an early age, and Kumar enjoyed performing. While growing up in St. Louis, she acted in musicals such as *Oliver*, *Grease* and *Annie* at the Muny, a well-regarded summer theater company.

When she was 18, Kumar auditioned to dance during show interludes at Miss India Illinois, a regional beauty pageant. The organizers wanted her to be a contestant, and, though she'd never done a beauty pageant before, Kumar agreed. "I thought it'd be great to meet other women who were interested in education and doing something for their community," she says.

Then she won. She went on to the national Miss India USA competition and won that too.

"Doors opened up in India after that," Kumar says. "But coming from a South Asian family, entertainment was not the field that one was supposed to aspire to."

So Kumar enrolled at Washington University, where she studied political science. And, as long as she was getting a good education that offered other career possibilities, her parents also supported her acting pursuits.

Kumar entered a competition sponsored by Amitabh Bachchan Corp., an Indian entertainment company looking for up-and-coming stars to launch. Sixty thousand people applied, and Kumar was one of only 10 winners.

"That gave me a sense of credibility and the drive," says Kumar, who then took a year and a half off of school to pursue acting opportunities in commercials and TV. In 1997, she landed her first leading role in the feature film *Kadhal Rojavae*, a movie in Tamil. While Kumar is fluent in Hindi, she doesn't know Tamil; therefore, her lines had to be written out phonetically.

“Basically it was memorizing gibberish,” recalled Kumar in an interview.

Afterward, she returned to Washington University and finished her studies, even interning for U.S. Rep. Jim Talent in Washington, D.C. In 2001, she moved to New York and studied at the American Academy of Dramatic Arts to hone her craft. She also wanted to work in the United States, where she saw a dearth of South Asian actors.

Her first American movie, *Flavors*, netted her the Screen Actors Guild Award for Best Emerging Actor at the St. Louis International Film Festival. “I was on cloud nine when I got that award,” she says.

Kumar has since been in more than a dozen films in India and the United States and has done television work, such as *Law & Order: SVU* and *Bollywood Hero*, a 2009 miniseries on IFC, in which she plays the love interest of Chris Kattan. This year, Kumar was in the film *Vishwaroopam*, an action caper released across South Asia that has become one of India’s top movies, grossing more than \$30 million.

Though she didn’t go into politics, Kumar says Washington University still prepared her for her career. “The university gave me a sense of myself. It did actually create my voice,” Kumar says. “I wouldn’t have had one if I hadn’t gone to college.”

The biologist who grew into a businessman

Growing up in New York, **DEAN SHULMAN, AB '77**, spent hours in his basement making models of balsa wood, ignoring his mother’s calls for him to come up for dinner. “I was always interested in science and always kind of a tech guy,” Shulman says.

When he enrolled at Washington University in 1973, he wanted to become a doctor. So he followed the pre-med track and majored in biology but was subsequently rejected from medical school. He stayed in St. Louis, however, and worked at Barnes Hospital as a research assistant. But when he got waitlisted for med school the following year, he headed back home to New York.

“I ended up doing what a lot of people did back then,” Shulman says, “I took a sales job.” He worked for Savin Corp., a copy-machine business. Over his seven-year stint there, Shulman rose through the ranks, eventually heading up Savin’s information systems division.

In 1986, after earning a master’s degree in marketing from Baruch College in New York

City, Shulman was asked to be the first director of marketing for Brother International, a Japanese company known for its sewing machines and typewriters.

The first device Shulman had to market was the P-Touch, a hand-held label maker. Thinking that the device’s market wasn’t organized types but guys and baby boomers, Shulman bought time on the new, incendiary Howard Stern radio program.

“We got hate mail all the time,” Shulman recalls. “But that’s what put P-Touch on the map.”

Under Shulman’s guidance, Brother also became an early advertiser on CNN. Shulman bought two weeks of airtime starting Jan. 14, 1991, because the United States was threatening to go to war with Iraq if it didn’t withdraw from Kuwait by Jan. 15.

Iraq didn’t withdraw. “Everybody was glued to their TV,” Shulman says. “Every advertiser wanted to jump in, but, of course, they got pre-empted, and literally all you saw on CNN for two weeks was a P-Touch commercial.”

In 2009, when the head of Brother’s oldest division stepped down, Shulman took it over. The division was sewing and embroidery, “about which I knew nothing,” he says. “But I knew I wanted to turn this from a hardware business into a fashion business.” Shulman, who is now senior vice president and a member of Brother International’s board, partnered Brother with Heidi Klum’s reality TV show *Project Runway*, which proved a prescient move. Not only are all the show’s sewing machines made by Brother, but Brother also sells the only *Project Runway* sewing-machine line.

The *Project Runway* pairing and other Brother sewing-machine innovations have made Shulman the seventh most influential person in the garment-decorating industry, according to *Stitches* magazine’s 2012 Power 75 list. They also earned him a spot in the Sewing Hall of Fame in 2012.

Shulman says it was his time outside of the classroom at Washington University that helped prepare him for his future. He managed Fat Albert’s, a coffeehouse on the South 40 for three years. “At Wash. U. the classes were great, and all the teachers were great, but for me it was the South 40 experience that really made me love the university. It was intramural football, Thurtene Carnival, Walk In Lay Down Theater showing movies at night, and doing a raid on Fontbonne. It was,” he says, “a wonderful time.”

Rosalind Early, AB '03, is a freelance writer based in St. Louis as well as assistant editor for *St. Louis Magazine*.

In 2009, Shulman took over Brother’s sewing and embroidery division, about which I knew nothing, he says. But I knew I wanted to turn this from a hardware business into a fashion business.

Entrepreneurial Ripple Effect

BY CYNTHIA GEORGES

There is nothing more powerful than an idea whose time and place have come.

This was the case when Detroit businessman and entrepreneur Robert Skandalaris sat down to breakfast with James McLeod one morning in 1999. McLeod, then vice chancellor for students and College of Arts & Sciences dean, was visiting Detroit and called on Skandalaris to ask how his daughter, Kristin, was enjoying Washington University.

"During our conversation, I mentioned that I wanted to start an entrepreneurship program within a university," Skandalaris recalls. "I had already presented my idea to the dean at a leading business school, but when I said I wanted an entrepreneur to run the program, he told me it was not possible. I explained that the program would be a startup and who better to lead it than someone who had started companies. The answer was still no."

McLeod responded: "If you want a place to house your program, you should consider Washington University."

Soon after, Skandalaris met with members of the university administration. Discussions ensued. Ideas flew. And Washington University said yes.

"Chancellor Wrighton found an entrepreneur, Ken Harrington, to run the program," adds

Skandalaris, who recently began a second term as a Washington University trustee.

What has transpired since has been nothing short of phenomenal. The Skandalaris Center for Entrepreneurial Studies has powered its way into the nation's top 10 programs in entrepreneurship education, putting Washington University on the map of high-innovation, high-impact universities and pegging St. Louis as one of the best cities in which to start a business.

Says Skandalaris, "Whenever you bring smart people and innovation together, you create an environment that cultivates entrepreneurs."

THE POWER OF INNOVATION

Julie and Bob Skandalaris came to know Washington University through their daughter, Kristin, who earned a bachelor's degree in philosophy in 2001 and a law degree in 2004. "I had little knowledge about the university beforehand," Bob says. "However, we found Kristin's enthusiasm for the school after her first visit very interesting."

True to her instincts, Kristin flourished. "She enjoyed campus life, the variety of courses and



Julie and Robert Skandalaris

extracurricular activities, and intelligent, interesting students," Julie Skandalaris says. "She went on to attend the university's law school, where she met her husband, David."

Julie adds: "Bob saw the potential for establishing an entrepreneurship program early on. Through the guidance and motivation of the chancellor, Ken Harrington and the school deans, this vision became a reality."

Julie and Bob Skandalaris established the Skandalaris Entrepreneurship Program in 2001. Two years later, inspired by WUSTL's selection as a Kauffman Foundation Campus charged with promoting entrepreneurship education university-wide, the Skandalarises made another gift to establish the Skandalaris Center for Entrepreneurial Studies.

The center has thrived, developing an entrepreneurship curriculum, special programs and business competitions that have become part of a campus-wide framework for teaching and experiencing entrepreneurship.

To further develop students as entrepreneurs while helping early stage St. Louis ventures grow, in 2008 the couple established the Skandalaris Entrepreneurial Summer Internship Program.

Chancellor Mark S. Wrighton says: "Through their extraordinary vision and deep belief in the power of innovation as key to the growth and impact of universities and organizations, Julie and Bob Skandalaris have helped create one of the country's very best entrepreneurship programs. Their exemplary leadership and continuing generosity inspire Washington University to work harder to help meet society's challenges."

FOLLOW YOUR DREAMS!

Bob Skandalaris traveled a circuitous path to his current position of chairman and chief executive officer of Quantum Ventures of Michigan, LLC, a privately held corporate investment company specializing in the acquisition and development of middle-market firms.

"When I graduated from high school, my parents wanted me to follow in my father's footsteps," says Skandalaris, who attended Michigan State University, where he and Julie met.

"After two years of college, it was apparent that engineering was not my interest. Frankly, at that point I was lost. I tried pre-med, then business. I ended up getting a degree in finance because that was the quickest way to graduate."

He went on to earn a master's degree in accounting at Eastern Michigan University. That led him to the corporate tax department of Touche Ross & Co., where he liked the work but not the structure of the accounting industry. "Yet, I was competitive," he says, "so I worked hard to make partner."

A month after his promotion, Bob told Julie, "This is not what I want to do for the rest of my life." She replied, "Follow your dreams." So, he began a career in investment banking.


In each industry he served, he says, the individuals he found most interesting were the entrepreneurs. In 1987, he left his position as senior vice president at Prudential-Bache Securities to become an entrepreneur himself.

He bought Acorn Asset Management and became a shareholder of the Oxford Investment Group, Inc. He grew Acorn to more than \$2.5 billion in assets and saw Oxford complete more than 20 acquisitions before selling his interests in both companies to found Noble International, Ltd. in 1993. Under his leadership, Noble became the world's largest supplier of auto manufacturing tools called laser-weld blanks.

As philanthropists and champions of the university, the Skandalarises have touched many lives. They co-chaired the Parents Council, served on the Detroit Regional Cabinet, and hosted prospective students and their families. They also sponsor scholarships in the Olin Business School, where Bob serves on the national council. In 2002, at Founders Day, they were honored with the Robert S. Brookings Award.

Julie has served in leadership roles at Detroit Country Day School and at the alma maters of the couple's two sons, Andrew and Lee.

As one might expect, Bob Skandalaris speaks and writes about entrepreneurship with unabashed enthusiasm. He is the author of *Rebuilding the American Dream*, with Ken Harrington (2005), and *The Evolution of the American Dream*, with Amber Clark (2011).

"Creating a culture of innovation, education and risk-taking is the only way we can create future jobs and rebuild cities like Detroit," he says. "Washington University is a fantastic place where students learn this. I have never seen an institution of higher education with so many outstanding characteristics. Julie, our family and I are proud to be involved." 

Cynthia Georges is senior associate director of development communications for Alumni & Development Programs.

Through their extraordinary vision and deep belief in the power of innovation as key to the growth and impact of universities and organizations, Julie and Bob Skandalaris have helped create one of the country's very best entrepreneurship programs, Chancellor Mark S. Wrighton says.

CLASSNOTES

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

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

Please send news to:

Classnotes, Washington Magazine, Washington University in St. Louis, Campus Box 1070, One Brookings Drive, St. Louis, MO 63130-4899

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Email wustlmagclassnotes@wustl.edu

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ALUMNI CODES

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

50s

Wayne F. Schlosser, FA 58, was presented the Rotary International Service Above Self Award. The award recognizes individual Rotarians who have demonstrated exemplary humanitarian service with an emphasis on personal volunteer efforts and active involvement in helping others through Rotary.

Del Schwinke, BU 59, has been inducted into the St. Louis Media Hall of Fame. Schwinke is a longtime advertising executive with the *St. Louis Post-Dispatch* and Geile-Leon Marketing Communications. He is an adjunct professor at Washington University.

Gene Spilker, UC 59, GR 94, has enjoyed learning at the Lifelong Learning Institute at Washington University for the past seven years. He also won eight medals at the 2012 St. Louis Senior Olympics, including five gold.

60s

Gene Markowski, FA 60, and the Second Street Gallery he founded celebrated 14 years of operation. Located in Charlottesville, Va., it is the oldest nonprofit fine art gallery in the United States. Contemporary living artists are featured on a rotating monthly exhibition schedule. Markowski will publish a second book of poetry this year and will put on a one-man exhibition of his current paintings/sculpture at the Studio Gallery in Washington, D.C., from October to November.

Donald Giesen, HA 64, has released a new book, *The Mushrooms of Autumn*. It is available at FriesenPress.com, amazon.com and barnesandnoble.com. The book is a fictional tale about a woman's struggles growing up in the 1950s and '60s, and her effort to reconcile herself from the shame and guilt

that arose from the Catholic fidelity instilled during her childhood. The tale describes her journey in search of happiness, only to realize it was there all along. The settings include St. Louis and references to Washington University.

Kenneth W. Keller, LA 65, professor of history emeritus at Mary Baldwin College, has retired after 43 years as a college history teacher. He has published extensively in the field of American history before 1877 with special emphasis on Virginia and Pennsylvania and the Scots-Irish and German settlements. In retirement he is serving as a hospice volunteer and as archivist for the Augusta County (Virginia) Historical Society.

Michael W. Kiss, LA 66, a Union League Club Boys & Girls Club trustee, has received the Jeremiah Milbank Gold Medallion presented by Boys & Girls Club of America for his outstanding and extraordinary service on a national level. Kiss, of Deerfield, Ill., is chairman of the Illinois Area Council for the Boys & Girls Club, and he also recently served on the Midwest Leadership Planning Committee. The clubs provide a positive alternative to help young people become responsible citizens.

Frederic Siskind, LA 66, retired from the U.S. Department of Labor in 2009 but continues as a part-time consultant for several agencies. He won a bronze medal in table tennis at the U.S. Nationals in his skill category and continues his wildlife photography. His photos appear in the new book *Face Bug*, which also uses line drawings, scientific facts, and poetry by children's poet laureate J. Patrick Lewis to teach children about insects.

Charles "Chuck" Ortner, LA 67, received an award from the Grammy Foundation during Grammy Week in Los Angeles for his lifetime service as a lawyer to the music industry. Ortner, a partner

at the Proskauer Rose law firm, serves as the national legal counsel for The Recording Academy, and was appointed by President Barack Obama to the board of trustees of the John F. Kennedy Center for the Performing Arts. He has represented record companies and recording artists including Lady Gaga, Madonna, Michael Jackson and U2. He was married to the late **Jane Gold Ortner**, LA 67. Their daughter, **Amy Ortner Mandell**, also is a WUSTL graduate, LA 94.

Lawrence Millman, LA 68, has published his 15th book, a collection of travel essays, titled *Hiking to Siberia: Curious Tales of Travel & Travelers*. The title essay concerns a Russian woman named Lillian Alling, who in 1927 decided to hike to Siberia because she couldn't afford any type of transportation that would take her there. Millman is currently working on a collection of mycological essays, to be titled *Giant Polypores & Stoned Reindeer: Rambles in Kingdom Fungi*.

David Miller, FA 69, has written *FMM*, a mystery about an inspector named James Tweedsmouth who tries to solve a case of murders of famous food manufacturers who are being prepared as their products. With the help of culinary historian Marge Liebenstein, Tweedsmouth cracks the symbolism of the ancient meals and the murders. The book is available at amazon.com. Miller has also worked on the award-winning book *The Chef's Companion* and has written on culinary history.

70s

Rohini (Ellen) Ralby, LA 70, has released a new book, *Walking Home with Baba: The Heart of Spiritual Practice* (Bancroft Press). The book combines autobiographical

vignettes, some of which involve Washington University professors, with chapters explaining the reality of spiritual practice and retracing one's way back to God.

Jane H. (Tedrick) Davis, LA 75, was selected as the 2012 Alabama Citizen Diplomat of the Year. She was chosen due to her work with state department programs sponsored by the Huntsville International Services Council. Davis is a retired college professor who still works with distinguished foreign guests, scholars, workers and refugees. She also continues her work with interfaith groups. Her husband, John, LA 74, retired from government service in October. Their three sons live in Alabama.

Kenneth F. Berg, LA 76, has been recognized by Illinois Super Lawyers for 2013. An attorney with Ulmer & Berne LLP, Berg was recognized by his peers for professional accomplishments. Illinois Super Lawyers showcase outstanding lawyers in Illinois and only 5 percent of lawyers are chosen.

James Mendelson, LA 76, recently moved his insurance and financial advisory business to Empire Wealth Strategies in New York City, where after 31 years he continues to help people and businesses arrange their wealth accumulation and estate plans. He also started a classical music program for the New York City alumni club. He hopes to incorporate more classical and jazz venues for the club.

Patricia Purcell, LA 76, was named to the United States Tennis Association team to compete at the 33rd ITF Seniors World Team Championships that was held in March. In the team event, the United States defeated Great Britain to win the Connolly Cup, with Purcell and Tina Karwasky undefeated in doubles. In the Individual World Championships, Purcell and partner Carolyn Nichols took silver, losing in the finals to the first seeds

and USA Cup teammates. Purcell also holds the national 2012 Clay Court 55 Doubles title with teammate Susan Wright.

Steven R. Rothman, LA 77, has joined the law firm Sills Cummins & Gross, chairing the firm's newly formed interdisciplinary defense industry group and practicing in its existing litigation and government relations/public policy practice groups. He will represent clients from industry sectors in their dealings with officials from the federal, state, county and local governments. Previously, he was a member of the U.S. House of Representatives from New Jersey for 16 years.

Mary Ann Lazarus, GA 78, has been named as the American Institute of Architects (AIA) Resident Fellow. Lazarus will provide a practice-relevant perspective on sustainability and health as the AIA implements the Decade of Design: The Global Urban Solutions

Challenge, the AIA's Clinton Global Initiative commitment. In addition, she will add to the knowledge on sustainability and health by identifying and mentoring authors and speakers among the AIA membership. In 2001, she founded the sustainable design initiative at the architecture firm Hellmuth, Obata & Kassabaum and is director of sustainable design there.

Karen (Samuelson) Weltzin, PT 79, is a physical therapist for AEA 267 in Cedar Falls, Iowa. Her husband farms and has cattle. They have three children: One is working in Madison, Wis.; one is a senior at Wartburg College in Waverly, Iowa; and one is a junior in high school in Jesup, Iowa.

Mark Williams, EN 79, has joined Innovate Calgary as an entrepreneur-in-residence and his wife, **Marsha (Merkadeau)**, EN 80, has joined Invensys as a senior project manager.

80s

Thomas H. Mug, GL 80, an attorney, has been elected an officer of the law firm Greensfelder, Hemker & Gale PC. Mug serves in the employee benefits and trusts and estates practice groups.

Christopher Knapp, LA 81, was promoted to brigadier general in the Missouri Air National Guard. He was assigned as the Air National Guard assistant to the command surgeon, Air Combat Command, Langley Air Force Base, Va. He also serves as the medical director for Gateway Occupational Health Service in Granite City, Ill.

George Ellis, LA 83, retired from Delta Air Lines after 25 years and is joining Check Point Software Technologies. He enjoys lapidary arts, and his samples can be seen at www.faceting.biz.

ALUMNI ACTIVITIES

VOLUNTEER SPOTLIGHT

Lars Etzkorn, AB '87
Chair, Washington University Pride Alumni Network

Why do you volunteer for Washington University?

My Washington University years define who I am today. Nearly every day something from those four years impacts my life. My interests are directly related to my studies and the lifelong friendships I forged while at the university. From the moment I was accepted, I have relished being part of the university community. And I like being able to give back. I certainly hope my contributions help someone else have a good experience on campus.

What do you enjoy most about volunteering?

It is truly enjoyable to work with the smart and talented students, alumni, faculty and staff. It is also rewarding to help make a difference for a university that so shaped me. With so many others, I'm pleased to help create a better connection for LGBT alumni to the university. We're building something of lasting service for LGBT alumni and students, and we welcome anyone who is interested to join us.

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

You can have a meaningful experience regardless of how much time you are able to commit. In fact, you can tailor your volunteer activities to your schedule. The university presents meaningful opportunities to feel engaged and to know you are making a difference.

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



David D. Levine, AR 83, has released an ebook of his short-story collection *Space Magic* (Wheatland Press, 2008). It contains science fiction and fantasy stories that take readers from a technicolor cartoon realm to an ancient China that never was, and it includes the Hugo Award-winning "Tk'Tk'Tk" (www.daviddlevine.com/space-magic/). He has also released a video on YouTube about his short story "Letter to the Editor" from *The Mad Scientist's Guide to World Domination* (available at amazon.com and barnesandnoble.com).

Jeffrey Reed, GB 83, has taken a position of senior vice president and wealth management consultant at the Commerce Trust Co. He will provide solutions for investment management, professional trust services, and financial advice and guidance to help investors preserve and grow their wealth. Prior to that, Reed was a corporate investment banker involved in business development, business execution, middle-market mergers and acquisitions.

Meftah Erwemi, SI 84, returned to Libya and is a retired engineer and has a private consulting engineering office.

Julie (Grossman)

Compton, LA 85, LW 88, released her third novel, *Keep No Secrets*, the sequel to her debut legal thriller, *Tell No Lies*, both set in St. Louis. She is also the author of *Rescuing Olivia*, a

contemporary thriller. Her novels have been published in the U.S. and internationally. She practiced law in St. Louis before moving to the East Coast, where she worked for the U.S. Department of Justice before turning to writing full time. She now lives in Florida with husband, Rick, BU 85, and their two daughters. Website: www.julie-compton.com.

David Cosby, GB 85, has been named to the SSM Health Care board of directors. Cosby is director of development for Niños de Mexico in Union, Mo., an organization that cares for orphaned children in the Mexico City area and operates four children's homes, two student dormitories, a school and a medical clinic with community outreach services. He previously served as vice president of United Missouri Bank and on the board of SSM Health Care—St. Louis.

David L. Pohl, MD 85, a radiologist, has been elected 2013 president of the St. Louis Metropolitan Medical Society, the association representing physicians in the St. Louis area. Pohl is in private practice with Radiologic Imaging Consultants LLC, and he is director of radiology at SSM St. Joseph Hospital West. He also is a board member of the Missouri Radiological Society and is a member of the Greater St. Louis Society of Radiologists.

Jonathan Cheris, EN 86, is a senior vice president at Citigroup. For the past four years he has been

sharing his story about his long battle with Crohn's disease. He has completed five half-marathons while raising \$45,000. He says that part of his volunteer spirit began as a dorm president and as an on-campus leader during the mid-'80s. To learn more, visit www.LeadingWithGuts.com.

Alexander "Alex" S.

Douglas II, LA 86, has been named a partner in the firm of ShuffieldLowman. Formerly with the law firm of Pohl & Short, Douglas recently joined the ShuffieldLowman litigation department, providing knowledge in all areas of litigation with extensive experience in the areas of trust and probate litigation. Douglas has practiced law for 23 years.

Steven Recht, LA 86, has released his first novel, *Sandy Cove*, a love story set in the Outer Banks and is working on his next book.

Robert "Bob" Berlin, LW 87, was elected DuPage County State's Attorney in November 2012. He leads an office of 87 prosecutors, the second largest prosecutor's office in Illinois.

Frederic J. Frommer, LA 89, is the author of the new book *You Gotta Have Heart: A History of Washington Baseball from 1859 to the 2012 National League East Champions*, with a foreword by CBS News chief Washington correspondent Bob Schieffer. Frommer lives in Washington with his wife and two sons, and covers the D.C. federal court for the Associated Press.

Bradley Gould, LA 89, joined the GrayRobinson PA Miami office as a shareholder. Gould brings more than 19 years of experience to the firm, specifically in eminent-domain and property-rights practice. He represents clients in matters involving government takings, condemnation, inverse condemnation, regulatory takings, land use and zoning, and land-use litigation.

Doug Green, BU 89, and his wife, Tatiana, announced the birth of their first child, Isabella, in Chicago on March 7, 2013.

Jennifer Holmes

(Gladsky) Sterling, LA 91, is student teaching at Bradford School in Montclair, N.J. She will be certified to teach kindergarten through fifth grade as well as middle-school language arts when she completes the certificate program at Montclair State University.

90s

Thomas G. Velek, LW 91, GR 91, was named National Soccer Coach of the Year by USA Soccer in January 2013. He had previously been named Southeastern Coach of the Year and Mississippi State Coach of the Year in 2012. He serves as director of coaching and director of competitive soccer for Columbus United Soccer Club in Columbus, Miss. He coaches the club's U15/U16 boys team and serves as assistant coach for the U12 boys. His teams have won two state championships.

Carol Anne Costabile-

Heming, GR 92, received the Outstanding German Educator, Post-Secondary, from the American Association of Teachers of German. She was given the award at the association's annual conference held in Philadelphia in November 2012.

Eric Riess, LW 92, of Greensfelder, Hemker & Gale PC, has been named Trainer of the Year by the Franchise Brokers Association, a national organization that helps franchise brokers build thriving practices and helps franchisors grow globally. Riess earned the honor for the legal, business and sales training he provided to franchisors and franchise consultants throughout 2012.

Gene Van Buren, EN 93, EN 93, and his wife, Marie,

ALUMNI ACTIVITIES

SAVE THE DATE

Founders Day

Saturday, Nov. 2, 2013
6:30 p.m.

St. Louis Union Station
Hotel

Jon Huntsman Jr., former U.S. ambassador to China, will be the guest speaker, and the university will honor the 2013 recipients of the Distinguished Alumni and Faculty Awards and the Robert S. Brookings Awards.

Visit foundersday.wustl.edu
for more information on Founders Day 2013.

Together, We Lead

Washington University offered me a great education and a framework for making business decisions that I still use today. I want to help make that experience available to more students as a way of giving back to the university that helped make me financially secure.

Ed deZevallos Jr., GB 67
Chair, Planned Giving
*Leading Together: The Campaign
for Washington University*

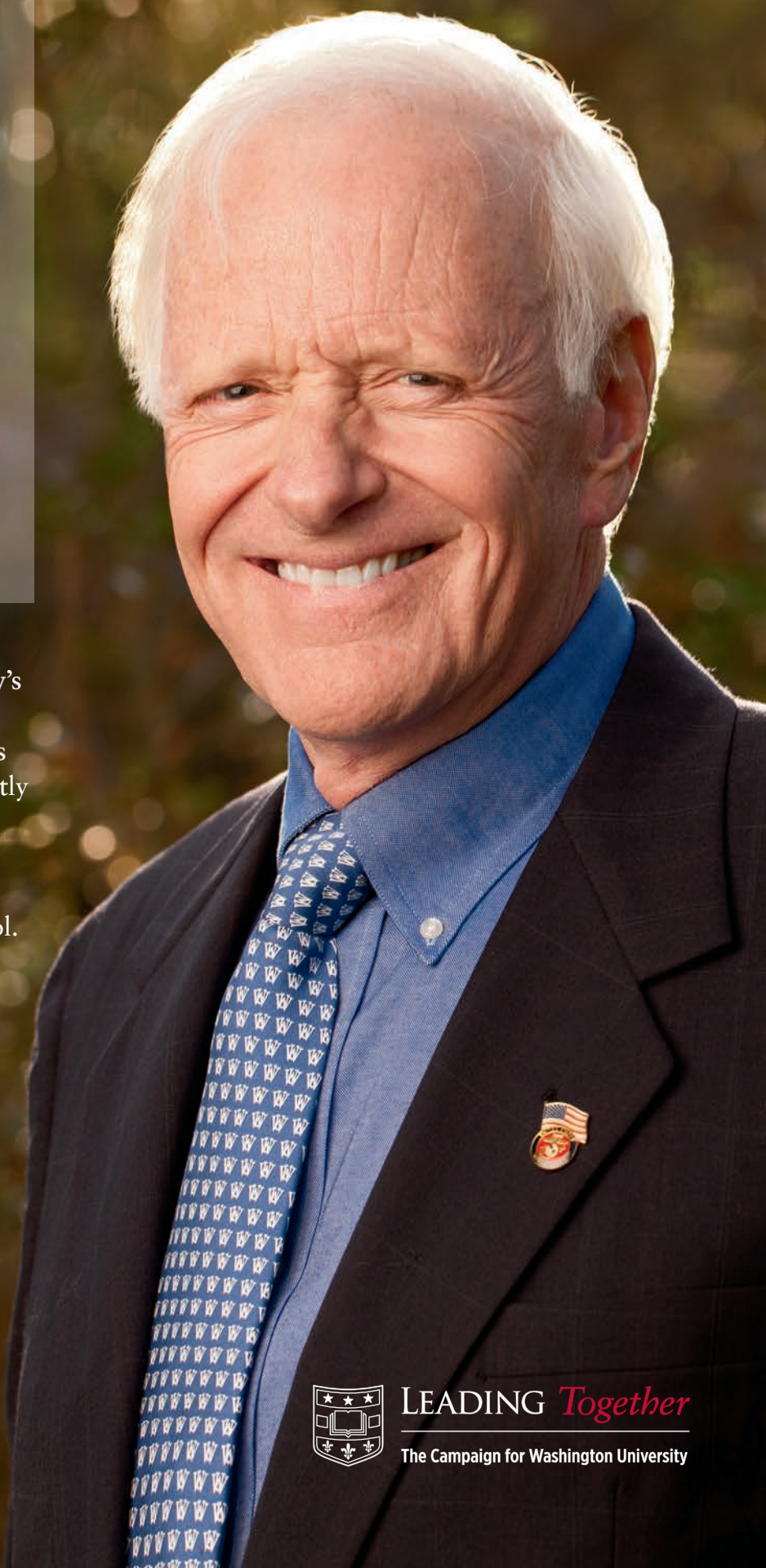
Ed and Pam deZevallos are helping prepare students to become tomorrow's leaders. Their decision to name the university as beneficiary of Ed's IRA is a tax-wise strategy that will significantly reduce their income taxes and estate taxes. The distribution will add to the endowment of the scholarship they established in the Olin Business School.

An estate gift through your will or trust, or beneficiary designation on life insurance or qualified retirement plan, is a simple, yet significant, way to support students and *Leading Together: The Campaign for Washington University*.

Learn more
800-835-3503
plannedgiving.wustl.edu

Tax-free charitable IRA gifts have been extended through 2013.

Please consult with your tax and legal advisors before making a charitable gift.



LEADING *Together*

The Campaign for Washington University

announce the birth of their son, Reed, on Jan. 9, 2013. Van Buren is a physicist at Brookhaven National Laboratory and co-leader

of the computing group for the STAR Experiment.

Shannon Collier-Tenison, SW 94, SW 02, is director of the

Bachelor of Social Work program at the University of Arkansas at Little Rock.

Jared Littmann, EN 94, has been elected alderman for City Council Ward 5, for the city of Annapolis, Md. Littmann and his wife also own K&B True Value hardware store in Annapolis, where they live with their two children.

Leslie (Freeman)

Aaronson, LA 95, was named Los Angeles Unified School District's Teacher of the Year for 2012–13. She runs a state-recognized technology academy for 10th to 12th graders at Foshay Learning Center, a school in South Los Angeles.

Ruben Aya, EN 95, SI 96, GA 13, is completing a master of architecture degree at the Sam Fox School of Design & Visual Arts. He married Stephanie Sommer, a Crossfit coach and personal trainer from St. Louis.

Michelle Landau Brooks, LA 95, recently joined the staff of the American Parkinson Disease Association – Greater St. Louis Chapter as a program coordinator/fundraising associate, responsible for planning the organization's major fundraisers: an annual golf tournament in the spring and a fashion show/luncheon in the fall. Brooks resides in Ballwin, Mo., with her husband, Gary, and their two daughters, Olivia and Sophia.

Michael Burns, LA 95, is president and CEO of Surefoot Communications, an integrated marketing consultancy. His team provides social media and general business-communications strategy, consulting, writing, editing, and print and web design services. He also accepted an offer in January to serve as chief marketing officer of the Raiser Group, which connects innovative startups in such fields as life sciences, biotech and animal health. He and his wife, Kerstin, live in Johnson County, Kan., with their two children.

Amy DuVall, EN 95, married Jeff Campagna at Washington, D.C.'s National Museum of Women in the Arts, Nov. 16, 2012. **Simma (White) Weiss**, EN 95, was a bridesmaid; her husband, **Shelley Weiss**, LA95, was a reader; and **Jeff Tomaneng**, BU 92, was the vocalist. Also in attendance were **Keri (Lopatin) Berger**, LA 94; **Jason Berger**, LA 96; and **Jodi Sweed**, LA 94.

Joshua Linder, LA 96, is an assistant professor of anthropology at James Madison University in Harrisonburg, Va.

Laurel Duncan, LA 97, joined the Peace Corps as a volunteer in Albania. She will work in a health program for the next two years.

Tara Fromkin Thompson, BU 97, married Stephen Thompson, whom she met in the MBA program of Columbia Business School. They are moving from Long Island, N.Y., to Fairfield County, Conn., with their three children, Logan, 8; Chloe, 6; and Pierce, 4. Tara recently published her first novel, *Meltdown*, a funny look at a romantic love triangle against the tumultuous backdrop of the mortgage meltdown fiasco.

Christine (Galofre) Allen, BU 98, and her husband, Dana, are proud to announce the birth of their second child, Asher James. Asher joins big sister Reese Elizabeth, in Dallas, Texas, where Christine works for Frito-Lay, leading the innovation group for Lays, Doritos and Cheetos.

Nivedita Engineer, SI 98, has published her first book, *The Indian Girl's Definitive Guide to Staying Single*. The book is a funny, tongue-in-cheek, self-help guide that provides insight into Indian culture. She lives in Cleveland, Ohio, with her husband, Rakesh, and her three sons.

Maria Munguia Wellman, SW 98, successfully defended her dissertation titled "The

ALUMNI ACTIVITIES



ReUNION 2014



April 11–13, 2014

**Classes of
1969, 1974, 1979, 1984, 1989,
1994, 1999, 2004, 2009 & 2013**

All alumni are invited to come back to campus April 11–13, 2014, during Thurtene Carnival. The weekend will also commemorate the 1st, 5th, 10th, 15th, 20th, 25th, 30th, 35th, 40th and 45th Reunions for undergraduate alumni of Arts & Sciences, Business, Engineering, Art and Architecture.

May 15–18, 2014

**Classes of
1944, 1949, 1954, 1959 & 1964**

Undergraduate, Nursing, Occupational Therapy and Physical Therapy alumni from the 50th and Emeritus (beyond 50th Reunion) classes will celebrate their Reunion in conjunction with Commencement Weekend, May 15–18, 2014.

**For more information about Reunion 2014,
visit reunions.wustl.edu.**

Borderpsychosocial Project" and was awarded her PhD in December 2012 from the University of New Mexico (UNM), Department of American Studies. She continues her clinical social work at UNM's Children's Psychiatric Center in Albuquerque.

Kamila (Kowalczyk) Nelson, BU 99, GB 10, and her husband, **John Nelson**, LW 00, welcomed their daughter, Milena, in August 2012. She joins her big brother, Adam.

James Stamatis, GB 99, accepted a new position as senior director, corporate development at Onyx Pharmaceuticals in San Francisco. He and his wife, Jean, and sons Jack, Luke and Nicholas moved to San Mateo, Calif.

00s

Jenny Austin, BU 00, LA 00, LW 03, has been named a partner in tax practice at Baker & McKenzie LLP, based in Chicago. She represents multinational companies in transfer pricing and other tax litigation matters. She helps clients with all stages of tax disputes, from audit and administrative appeals to alternative dispute resolution proceedings and litigation.

Jovita Foster, LW 00, a partner in Armstrong Teasdale's litigation practice group, was given the Outstanding Achievement in Practice Award to honor her successful career by WUSTL's Black Law Students Association (BLSA). Foster focuses her practice on employment and labor matters and serves on a diversity committee. She is an Urban League board member and has been recognized by Sister Salute, an organization that celebrates women of color. BLSA also recognized Armstrong Teasdale with the Legal Employer Diversity

PROFILE

Elizabeth Beltrán Martí, BSBA '04

Stuffed Animal Ambassador

Across the world, kids agree on one thing: a stuffed animal makes a pretty good best friend. At St. Louis-based Build-A-Bear Workshop, it's Elizabeth "SiSi" Beltrán Martí's job, as senior manager of international bear marketing, to make the introductions.

Build-A-Bear Workshop stores in Australia, Martí, BSBA '04, explains, sell unique animals, such as kangaroos and koalas. In Mexico, kids flock to the animal costume clothing (Spiderman, Batman, the Avengers). And in Japan, the Chinese zodiac animals are very popular (2013 is the Year of the Snake).

But in most countries, teddy bears are tops. After all, she says, "Who doesn't love a bear hug?"

Build-A-Bear Workshop is a retail toy giant founded by businesswoman Maxine Clark, a Washington University trustee, in 1997. At its stores, children create and customize teddy bears and other stuffed animals in a fun retail setting. They can further personalize their animals in a massive variety of outfits. Worldwide, the company has sold more than 100 million stuffed toys.

Martí started her career at Build-A-Bear Workshop in 2004 after graduating with a degree in international business and marketing. She had met Clark at a meeting of the university's Board of Trustees, for which she was the student representative her senior year. Clark connected her with members of the Build-A-Bear Workshop international team, who eventually offered her a newly created position developing the company's growth into international markets through marketing.

Today, Martí is responsible for brand marketing in more than 150 stores outside the United States and Canada, including corporately held locations in the United Kingdom and Ireland, and franchised locations in Denmark, Sweden, Norway, Germany, United Arab Emirates, Bahrain, Kuwait, South Africa, Japan, Singapore, Thailand, Australia, Mexico and Brazil.

A native of Puerto Rico, Martí speaks English, Spanish, French and Italian, and she has traveled to every continent except for Antarctica. "Our biggest challenge is in bridging cultural differences and managing the brand's different stages of development in various countries," she says. "I might work with people in the U.K., which opened its first store eight years ago and now has 50 stores, and one hour later work with Brazil, which opened in 2011 and has just two stores."



Joe Angeles

A global perspective prepared the peripatetic polyglot SiSi Beltrán Martí for her career in international marketing for Build A Bear Workshop.

Martí's accomplishments extend outside of her Build-A-Bear Workshop work. In 2007, at age 24, she was named one of the *St. Louis Business Journal's* "Top 30 Under 30," a recognition honoring young professionals who achieve excellence at work and in the community. She has given her time and talent to the United Way, FOCUS St. Louis, the Regional Business Council Young Professionals Network, and the Olin Alumni Board.

Martí showed the same level of commitment as a Washington University student. An Annika Rodriguez Scholar, she served as Association of Latin American Students president, Student Union sophomore class president, Delta Sigma Pi business fraternity chancellor, Chimes Honorary member, and co-founder and president of ITALO, the campus Italian club.

She cites the importance of her summer study-abroad program in Arezzo, Italy, and spring semester in Madrid, Spain, in helping to shape her life's work. "These experiences helped me prepare for my career by seeing how brands can change and adapt to reach their target market," she says. "I learned how to work with people who were different from me and the importance of not being ethnocentric."

Her work at Build-A-Bear Workshop has been an expression of that philosophy. "No matter how many late-night or early-morning international phone calls I'm on," she says, "my reward is in knowing that our work leads to kids of all ages having an incredible time in our stores." — Lisa Cary

Recognition Award for achieving diversity in the workplace.

Erin Marnocha, LA 00, is now the program coordinator for science and education for the University of California Natural Reserve System. She earned her PhD in biology from UCLA in 2008.

Jeffrey B. Johnson, GB 01, has joined Collaborative Strategies Inc. (CSI) as a consultant. He will focus his consulting in the areas of strategic planning, business valuations, financial analysis and modeling, and competitive analysis. CSI is a St. Louis-based firm providing strategic planning for nonprofit and for-profit organizations nationwide. Previously, Johnson was a finance manager focused on wholesaler business development for Anheuser-Busch InBev for 11 years.

Benjamin Kiel, FA 01, and Ida McCall moved back to St. Louis after six years in Wilmington, Del. Kiel started a typeface design and production company called Typefounding, and McCall took a position as the marketing/public relations coordinator for the Contemporary Art Museum.

Kristi (Kleiboeker) Lush, LA 01, LW 06, has been made a partner at the law firm of Zupkus & Angell PC in Denver.

Rachael (Krakoff) Narcisi, LA 01, and **Scott Narcisi**, LA 01, welcomed their second child, Makenzie Leilani, on Dec. 16, 2012. They reside in Aurora, Colo.

Pragati Singh, LA 01, GB 06, co-hosted the annual WU Club of D.C. Toys for Tots fundraiser with fellow alums **Mark Mitchell**, LA 03, and **Ori Weisz**, BU 07. The happy-hour event, where participants brought a new toy for admittance, had more than 75 people in attendance.

Justin Evan Tobin, SW 01, received the 2013 Social Worker of the Year for the National Association of Social Workers

Illinois (NASW IL) Northeastern District. The award recognizes his contributions to the social work profession as well as to the lives of the people that social workers help to serve.

Liz (Connolly) Zimmerly, EN 01, and her husband, Mark, announce the birth of Caleb James Zimmerly on Sept. 26, 2012. Caleb joins big brother Elijah, 5. The family resides in Seattle, where Liz is a strategic adviser with one of the nation's greenest electric utilities, Seattle City Light.

Shannon L. (Whelan) Haney, LW 02, an attorney, has been elected an officer of Greensfelder, Hemker & Gale PC. Haney serves in the environmental and litigation practice groups.

Nancy (Stokley) Martin, LW 02, began her own practice in 2009 representing individuals and small-business owners in consumer bankruptcy law. Previously, she worked at a firm in Creve Coeur, Mo.

Jeremy Raphael, BU 02, joined Orrick, Herrington & Sutcliffe, where he represents emerging technology startups, entrepreneurs and venture capital investors.

Jennifer M. (Weber) Horrom, LW 03, an attorney, has been elected an officer of the law firm Greensfelder, Hemker & Gale PC. Horrom serves in the corporate practice group.

Megan Burke, SW 04, a senior policy analyst in the Public Policy and Advocacy Department at Paraquad, was named the 2012 Social Worker of the Year by the Social Work Leaders in Health Care of Metro St. Louis. Burke was honored for her dedication to providing the most appropriate services to Paraquad's participants, her ability to help colleagues' and peers' joint efforts to create change, and for the training she provided. Burke, an advocate for people with disabilities and older adults for more

than 17 years, currently oversees strategic planning and maintains an up-to-date awareness of administrative, legislative and regulatory activity relating to participants in Paraquad's programs. Paraquad is a disability services provider in the St. Louis region.

Jacqueline Martsoff Dunlap, LA 04, is the teen librarian at the East Regional Library in Knightdale, N.C.

Christopher T. Feldmeir, LW 04, GL 05, an attorney, has been elected an officer of Greensfelder, Hemker & Gale PC. Feldmeir serves in the corporate and franchising and distribution practice groups.

Rachel Flynn, LA 04, graduated from George Washington University in Washington, D.C., with a master's degree in international development in 2010 and returned to San Francisco, where she is working for Omidyar Network, an investing firm that gives grants and such to early stage social entrepreneurs.

Jason Cannon, GR 05, moved to Sarasota, Fla., to join the staff of Florida Studio Theatre as an associate artist. He will continue as producing artistic director of Ozark Actors Theatre, residing in Rolla, Mo., for the summer season.

Amanda Doreson, LA 05, recently move to Atlanta and is working as a policy evaluation fellow at the Center for Disease Control and Prevention.

Jonathan Eggert, GA 05, relocated from Pittsburgh to Washington, D.C., in 2011 and is an architect for the design firm Gensler. He works on corporate interiors and other building projects.

Jason P. Reinsch, LW 05, has been named a partner at the law firm Jackson Walker LLP and was selected to the Super Lawyers – Rising Stars list by Thomson Reuters. His clients are in a wide variety of industries in state and federal litigation and arbitration and range from multinational corporations to family

owned businesses and individuals. His experience includes complex commercial litigation, securities litigation and arbitration, and intellectual property litigation.

Kelly Schoenbeck, LA 05, and **Joel Davis**, EN 05, were married on May 26, 2012, in Portland, Ore. Schoenbeck earned an MD from Oregon Health and Science University in June 2012 and started her medical residency in New York. Davis graduated with his MBA and MPH from the Haas School of Business, University of California, Berkeley, in December 2012.

Josh Morton, EN 06, and **Elle (Stewart) Morton**, LA 05, announce the birth of their second daughter, Olive Viola, on Jan. 7, 2013. They reside in Oak Park, Ill., with big sister Penelope.

Anne H. Putnam, LA 07, recently released her debut novel, *Navel Gazing: One Woman's Quest for a Size Normal*, published by Faber and Faber. The book is a passionate, no-holds-barred memoir of one woman's quest to accept her own body and to feel normal.

Leana S. Wen, MD 07, released a new book with Joshua Kosowsky, *When Doctors Don't Listen: How to Avoid Misdiagnoses and Unnecessary Tests* (St. Martin's Press). The book looks at the doctor-patient relationship and how a diagnosis, once the cornerstone of medicine, is fast becoming a lost art with grave consequences. Using real-life stories, the book illustrates how patient participation can help prevent mistakes, and it offers follow-up questions patients can easily incorporate into every doctor's visit to avoid counterproductive and even potentially harmful tests.

Corinne Pascale, EN 08, took a new position as program manager at Caradigm in Bellevue, Wash., after working for more than two years at Microsoft. She works

on the eHealth applications team, where she focuses on software for population health management. She also received the Nachshon Leadership Award from the University of Washington Hillel. The award honors her dedication, initiative and community action with Jconnect Seattle, the young adults group.

Deanna J. Atchley, LW 09, SW 09, has joined Husch Blackwell's labor and employment group in Kansas City, Mo., as an associate. Previously, Atchley spent more than three years at a Kansas City-based AmLaw 200 firm, where she practiced labor and employment and business litigation law. Atchley's experience includes drafting responses to discrimination charges filed with the state and the Equal Employment Opportunity Commission; drafting and revising employee handbooks and policies; and litigating cases involving the Family and Medical Leave Act.

Brandon Harper, LA 09, was part of the University of Pennsylvania's law mock trial team that won the national championship in the ninth annual American Bar Association's Labor & Employment Trial Advocacy Competition. There were 98 teams from across the country that competed at eight regional tournaments. At the national finals, Penn Law advanced through two preliminary rounds and the semifinals before defeating Quinnipiac Law School in the final round.

Kayla Dalle Molle, LA 09, has returned to the United States after working at Perimeter Art & Design in Paris and the Peggy Guggenheim Collection in Venice. She is currently working at Sotheby's York Avenue location in New York, where she was in the jewelry and valuations departments before becoming in July a permanent member of the trusts

PROFILE

David Herman, BSCE '04

Engineering a Recovery

For fifteen months in 2010–11, a series of earthquakes and aftershocks reaching as high as magnitude 7.1 rocked the city of Christchurch, New Zealand. The February 2011 earthquake alone killed nearly 200 people and destroyed the landmark Christchurch Cathedral.

After the rescue and recovery efforts concluded and the damage was assessed, the Kiwi government urgently appealed to engineers worldwide to help restore the country.

David Herman, BSCE '04, answered that call. Following the lead of a graduate school classmate, he took a job with Holmes Consulting Group, a company of engineers working to put the city back together after the quakes. "I thought it would be an interesting opportunity to be a part of the rebuilding and restoration," Herman says. "They ended up demolishing about 60–70 percent of the central business district. Typically you don't design a building to be usable after an earthquake — as you're more interested in human safety — and they had a lot of historical unreinforced masonry buildings." Unreinforced masonry buildings are notorious for poor performance during earthquakes.

His services were in great demand, but the decision to relocate was a difficult one. He'd grown content in Seattle, where he had earned a master's degree in civil engineering at the University of Washington. But the Cleveland native had always wanted to work abroad, so in June 2012 he made the 24-hour flight to his new home. An outdoors enthusiast, he quickly became enamored of Christchurch's proximity to the Pacific Ocean and the mountains. "In some ways it's like a wilder Seattle," he notes.

Herman's first task was to design the retrofit of a significant 100-year-old building, named on local and national historic registers, located on the campus of a prep school called Christ's College. Original structural notes naturally couldn't be located for the two-story edifice — which through the years had served as variously as a library and a career center — so Herman's task has been to strengthen it while also preserving what he calls the "heritage fabric."

"We want it to look as much like the original as possible," he says. Thus, they're building behind veneers and facades while improving the black-and-gray stone structure to better



Frances Oliver

At his new home in New Zealand, civil engineer David Herman helps restore the country's earthquake damaged buildings.

withstand another earthquake. Upon completion, its upper level will house the school's performing arts department.

Herman's next project is at the Christchurch Arts Centre, an enormous neo-Gothic cultural hub that once housed galleries and theaters but has been closed since the earthquakes. It's all been an arduous challenge, but Herman says his employer has been particularly supportive. "There's a big focus on the work-life balance. They'll tell you to take time off if you're working too many hours. It's not as cutthroat as the States."

Sure, the metric system and driving on the "wrong" side of the road have taken some getting used to, and he sometimes has a hard time understanding the local diction. "Some people here mumble quite a bit and talk really fast. South of here there's a pretty thick, almost Scottish accent," he says. But he enjoys backpacking, skiing and rock climbing nearby and has made the most of cultural opportunities, such as a bicycle tour of a local wine region and a rugby tournament in Wellington accompanied by wild parties — an atmosphere he compares to Mardi Gras in New Orleans.

He has no plans to go home anytime soon, and he remains excited to observe the urban planning debate over how to recreate the downtown core. "The city has been slow to come back, but things have been popping up," he says, noting with a slight smile that the craft brewery scene has adequately rebounded. "It feels good to be a part of all this." — Ben Westhoff, AB '99

and estates department, where she assists the executive director and head of the department.

Tim O'Connell, LW 09, has been elected secretary of the Young Friends of Legal Services of Eastern Missouri Board for 2013. Young Friends is a group of nearly 200 legal professionals under 40 who are dedicated to high-quality legal assistance in civil cases to the low-income community. O'Connell is an associate at Bryan Cave LLP and has also served as a board member.

Madalyn Rothman, LA 09, married **Aaron Sidorov**, FA 09 on Oct. 13, 2012, in New York City. Rothman is a visual associate at Barneys New York and Sidorov is a senior art director at the CementBloc advertising agency.

Jaclyn Stephens, OT 09, is an occupational therapist and is working on her PhD in cognitive neuroscience at the University of Nevada, Reno.

Drew H. Yaeger, LW 09, has been elected president of the Young Friends of Legal Services of Eastern Missouri Board for 2013. Young Friends is a group of nearly 200 legal professionals under 40 who are dedicated to high-quality legal assistance in civil cases to the low-income community. Yaeger is an associate at Thompson Coburn LLP and previously served as a Young Friends board member.

10s

Jessie Atkin, LA 11, recently received an honorable mention from the New England Book Festival for her self-published novel *We Are Savages*.

William Martin, LA 11, is completing his second year of teaching at Newark Charter School with Teach For America, as well as his master's degree in teaching through Relay Graduate School of

Education. He continues his music training and played Frederick in the *Pirates of Penzance* last summer with the Theatre Company in Hoboken, N.J.

Shih-Yu Yang, GL 11, is a prosecutor in Taiwan and hopes to visit St. Louis soon.

Maxwell Eisenberg, LA 12, is a member of the inaugural class of Venture for America (VFA). The mission of VFA is to recruit college graduates to work for two years at emerging startups and early-stage companies. Modeled after Teach for America, Venture for America provides a path for entrepreneurship for those who want to learn how to build companies and create jobs.

Monirath Siv, LA 12, is serving Teach for America as a biology teacher at Camden's Academy Charter High School, in Camden, N.J. She is also pursuing a master's degree at the University of Pennsylvania Graduate School of Education.

In Memoriam

1930s

Robert Hurwitz, SW 36; March '13 • **Harold E. Dessau**, EN 37; Jan. '13 • **Jane A. Erganian**, LA 37, MD 41; March '13 • **Jack E. Percival**, LA 37; Feb. '13 • **Harold C. Fudenberg**, BU 38; Dec. '12 • **John J. Gainer**, LW 38; Dec. '12 • **Edwine (Schmid) Mill**, LA 38; Dec. '12 • **Marianne (Wobus) Klein**, BU 39; Dec. '12

1940s

Patricia (Peele) Schaum, BU 40; Jan. '13 • **Albert E. Schoenbeck**, LA 40, LW 40; Dec. '12 • **Mary (Dooley) Conzelman**, UC 41; March '13 • **Marvin M. Feldman**, BU 41, GB 59; Feb. '13 • **Charles A. Hodgson**, BU 41; March '13 • **Shirley (Conrad) Hood**, LA 41; March '13 • **Nancy (Moessmer) Pool**, LA 41; March '13 • **Norman M. Rubenstein**, LW 42,

BU 42; Feb. '13 • **Robert H. Stahlheber**, LA 42, LW 48; Dec. '12 • **Norval Sherman**, FA 43; Feb. '13 • **James C. Vest**, MD 43; Jan. '13 • **Elsie (Lantz) St. Cyr**, LA 44; Dec. '12 • **Betty (Osborne) Wessel**, LA 44; Jan. '13 • **Frances (Ingram) Anstett**, LA 45, GR 69; March '13 • **Esther (Moore) Black**, FA 45; Jan. '13 • **Paul R. Brendel**, EN 45; Dec. '12 • **Olive (Sears) Vollmar**, LA 45; March '13 • **Virginia (Traeger) Baird**, LA 46; Dec. '12 • **Mary (Wahlert) Thomasson**, LA 46, MD 51; Feb. '13 • **Myron Dmytryszyn**, EN 47, SI 49, SI 57; March '13 • **Norman F. Mueller**, SI 47, SI 50; Dec. '12 • **John O. Perkins**, BU 47; Feb. '13 • **George Sato**, MD 47, LA 96; Feb. '13 • **Milton Sheinbein**, MD 47; Dec. '12 • **Edward Votoupal**, LA 47, GR 58; Jan. '13 • **Robert S. Allen**, LA 48, LW 50; March '13 • **Wilma (Fischer) Aumock**, LA 48; Feb. '13 • **Helen (Graefe) Bauer**, LA 48, LW 51; Jan. '13 • **Taylor S. Desloge**, LW 48; Feb. '13 • **Marion (Buck) King**, LA 48; March '13 • **Raymond F. Krobot**, EN 48; March '13 • **Donna (Testerman) Love**, SW 48; Dec. '12 • **Themis C. Pailas**, EN 48; Jan. '13 • **Sherman O. Schachter**, LA 48, MD 52; Jan. '13 • **Donald E. Stocker**, BU 48; Feb. '13 • **George H. Streiff**, BU 48; Feb. '13 • **Raymond E. Brandes**, EN 49; Jan. '13 • **Llewellyn F. Brennecke**, EN 49, SI 50, SI 55; May '12 • **Oscar H. Brennecke**, EN 49; March '13 • **Robert F. Cortinovic**, EN 49; Dec. '12 • **William E. Duncan**, AR 49; March '13 • **Barbara (Ingold) Entzeroth**, LA 49; Dec. '12 • **William R. Gregg**, UC 49; Feb. '13 • **Richard N. Hartig**, EN 49; Jan. '13 • **David J. Lehleitner**, BU 49; Dec. '12 • **John L. Lenzen**, MD 49; Dec. '12 • **Ervin Lipschitz**, LA 49, MD 49; March '13 • **Wayne E. Northway**, BU 49; Dec. '12

1950s

Jeanne (Schatzman) Allen, FA 50; Feb. '13 • **Martin J. Borrok**, EN 50; Jan. '13 • **Ruth (Seibert) Deuser**, FA 50; Jan. '13 • **Norma (Nickles) Graham**, NU 50; Dec. '12 • **William L. Hoeman**, BU 50; Feb. '13 • **Roland G. Jonas**, EN 50; Jan. '13 • **Roland A. Rohlfing**, EN 50; Feb. '13 • **Bernice (Schramm) Cooper**, LA 51; Jan. '13 • **Paul L. Fultz**, BU 51; Feb. '13 • **Mildred (Shepard) Hines**, NU 51; Feb. '13 • **Robert H. Miller**, LW 51; Feb. '13 • **Dorothy (Stroh) Ransom**, SW 51; Feb. '13 • **Eugene R. Siebold**, EN 51; Jan. '13 • **Roger A. Chastonay**, LA 52, GR 56; Jan. '13 • **Mitchell E. Goldenberg**, LA 52, MD 55; Jan. '13 • **Walter H. Heinecke**, LW 52; Jan. '13 • **Frederick J. Marshall**, HA 52; Dec. '12 • **George W. McPheters**, EN 52; Jan. '13 • **Eugene E. Trunnell**, MD 52; Dec. '12 • **Charles W. Wilson III**, GR 52; Nov. '11 • **Denise Karcher**, LA '53; March '12 • **Earl J. Lischer**, EN 53, GR 61; Feb. '13 • **Lawrence E. Milhouse**, BU 53; Dec. '12 • **Beyer V. Parker**, LA 53; Dec. '12 • **Marjorie K. Balazs**, LA 54; March '13 • **Rodney D. Dannehl**, GR 54; Feb. '13 • **Nalini (Nirodi) Dhawan**, GR 54; March '12 • **Robert L. Skrainka**, GB 54, GR 60; Jan. '13 • **Frederick J. Wagner**, GR 54; Feb. '13 • **Richard C. Braun**, MD 55; Dec. '12 • **Elna (Ferguson) Frazier**, GR 55; Dec. '12 • **Gordon I. Herzog**, LA 55, LW 58; Jan. '13 • **Sylvia (Glickstein) Merckadeau**, LA 55; July '12 • **Frances R. Robbins**, MD 55; Feb. '13 • **Walter E. Caesar**, EN 56; Jan. '13 • **Suk C. Chang**, HS, GR 56; March '13 • **Laverne E. Hubenschmidt**, NU 56, GN 58; Feb. '13 • **Martha (Bass) Kohn**, LA 56, SW 76; Jan. '13 • **Edwin Nies**, BU 56; Feb. '13 • **Richard L. Aversa**, LA 57; Dec. '12 • **Stanley**

J. Bryer, LA 57, GR 63; March '13 • Beverly (Jack) Darrow, PT 57; Jan. '13 • Alice (Williamson) Jones, GR 57; Feb. '13 • Alzada B. Ferris, UC 58; Feb. '13 • Donald E. Kliros, EN 58; March '13 • Richard C. Massey, EN 58; Dec. '12 • Charlton B. Rogers, GB 58; Dec. '12 • Virginia (Clare) Von Bastian, GR 58; Dec. '12

1960s

Marjorie A. Bandy, LA 60, GR 66; Dec. '12 • Gordon L. Davis, EN 60; Feb. '13 • Raymond T. Wagner, SI 60; Jan. '13 • Michael Colvin, MD 61; March '13 • Robert R. Sandcork, LW 61; Jan. '13 • Bruce S. Erlich, LA 62, GR 64, GR 72; March '13 • Vito Maniaci, UC 62; Jan. '13 • Robert M. Shaw, EN 62; Feb. '13 • Clifford C. Ebert, TI 63; Dec. '12 • Gary E. Keithly, TI 63; Dec. '12 • Mary (Braun) Reeg, UC 63, GR 67; Jan. '13 • Susan (Warner) Gettle, LA 64, GR 65; Dec. '12 • Thomas C. Muldoon, LW 64; Feb. '13 • Fred Werner, UC 64; Dec. '12 • Phyllis (Sydnor) Johnson, GR 65; Dec. '12 • George D. Neilson, AR 65; Jan. '12 • Adreanne (Puls) Pieber, FA 65; Feb. '13 • Jane G. Widdin, LA 65, UC 73; Dec. '12 • Mary (Billingsley) Garth, GR 66; Feb. '13 • Rochonne (Weintraub) Abrams, GR 67; Feb. '13 • Betty (Pierlow) Simpson, UC 67; Dec. '12 • Hubert C. Debo, TI 68; Feb. '13 • Gregory C. Kowert, BU 68; Dec. '12 • Mary (Miller) Ott, GN 68; Jan. '13 • John R. Short, LW 68; March '13 • Leslie A. Davis, LA 69; Jan. '13 • Stephen H. Stillerman, LA 69; Jan. '13

1970s

Nancy (Stone) De Guire, FA 70; Feb. '13 • Stephen T. Hunsicker, UC 70, UC 76; March '13 •

PROFILE

Carol Barton, BFA '76

Paint, Page, Pop Up: Books as Art

Pop-up books — that centuries-old form of storytelling that transforms flat surfaces into three-dimensional forms with the turn of a page — has found new life in the 21st century through the work of Carol Barton, BFA '76.

Barton, whose limited-edition pop-up books are in the collections of 37 colleges and 73 libraries and art museums, has also over the past decade written and self-published three how-to books to teach a new generation of paper engineers the wonders of an art form that dates back to medieval times. She has sold 30,000 copies of volume 1 of *The Pocket Paper Engineer: How to Make Pop-Ups Step-by-Step*. Volume 3, which focuses on V-fold pop-ups, was published in 2012 and provides artists with material and instructions for 10 projects, including pop-up invitations.

She's currently working with educators at the University of Virginia to develop pop-up projects for elementary and middle-school students that use digital die-cutters to create precise shapes. Making pop-ups requires skills in geometry, trial-and-error problem solving, dimensional visualizations and mechanics.

"The books are quite popular among artists, graphic designers and art teachers," says Barton, who lives in Glen Echo, Md., with her husband, Henry Barrow, a furniture designer. "We learn through our hands. So it becomes a great way to teach 3-D design."

Barton grew up in St. Louis, the daughter of a diesel-engine mechanic whose home workshop she would frequent in order to learn how things worked by taking apart machines and then reassembling them. After earning a BFA in painting, she turned to pop-up art and embarked on an exploration of this multi-dimensional media that combines graphics with sculpture in a decidedly low-tech process requiring precise cutting, exact folds and just the right glue. Her work is in the collections of the Library of Congress, the Museum of Modern Art and the Smithsonian.

One of Barton's pop-up books, *Loom*, incorporates Oriental rug patterns with images of landscapes in what's called a "tunnel book," with images that collapse and expand in layers of scenery. In *Five Luminous Towers*, she created a book inspired by historic buildings in Italy, with pop-ups illuminated by a battery-powered flashlight bulb.



Jennifer Weisbord, BFA '92

Fine artist and educator Carol Barton constructs limited edition books that are as impressively mechanical as they are sculptural.

"There was such simplicity and grace in her *Towers* book," says Ann Montanero, director of the Movable Book Society in Salt Lake City. "And with the light source, she made a wonderful addition to the whole field of limited-edition pop-ups."

Pop-ups are part of the expanding field in fine arts called book arts, in which artists explore new ways of storytelling through limited-edition books. The rise of the offset press has helped, as artists obtained older letterpresses deemed obsolete by the technological advances in the printing world and incorporated them into their expressive repertoire. When she was an undergraduate, Barton says there were no classes in book arts. Today, classes are offered at universities across the country, including Washington University and the University of the Arts in Philadelphia, where she teaches.

With volume 3 of *The Pocket Paper Engineer* how-to series completed, Barton has returned to painting. She intends to incorporate floating pop-up elements into a series of abstract watercolor landscapes for an upcoming artist book. To transfer the pop-up images from paper to print, she'll scan them into a computer, then use a digital die-cutter to precisely cut the outlines.

Returning to painting has brought her full circle to her college days, when she focused on painting as the prime avenue for her creative expression.

"I really wanted to get back to painting; it's my first love," she says. "While some of my books incorporate painting, this is pure painting. And it feels so satisfying to get back to it." 📖

— David McKay Wilson

Kristina M. Bamvakais, LA 71, GR 72, GR 81, Dec. '12 • **Stephen Kleiman**, LA 71; Feb. '12 • **Charles E. Hogan**, UC 72; Jan. '13 • **Joseph G. Steel**, FA 72; March '13 • **Robert R. Henrich**, DE 73; Feb. '13 • **George F. Keyser**, SI 73; Feb. '13 • **Charlotte B. Lerner**, UC 73; Feb. '13 • **Richard P. Reinherz**, LA 73; Jan. '13 • **John S. Yun**, SI 73; March '13 • **Michael M. May**, EN 75, SI 76, TI 89; Nov. '12 • **Lois (Benson) Rosenfeld**, SW 76; Feb. '13 • **Priscilla (Morison) Allen**, SW 78; Feb. '13 • **Maureen (Cullen) Salamone**, UC 78; Jan. '13

1980s

Ronald E. Bradley, TI 80; March '13 • **Arlene (Randle) Ackerman**, GR 81; Feb. '13 • **Dale R. Lankford**, TI 81, TI 83; March '13 • **Thomas W. Lane Jr.**, LA 83; Dec. '12 • **Andrew A. Zupan**, LA 84, GM 92, MD 92; Feb. '13 • **John Charles Simon**, UC 85; Nov. '11

1990s

Scot C. Allen, LA 91; Jan. '13 • **Stanley F. Musial**, GR 91; Jan. '13 • **David S. Guard**, SI 94, LW 02; Feb. '13

In Remembrance

Arlene C. Ackerman

St. Louis native Arlene C. Ackerman, MA '81, was an education reformer who served as superintendent of schools for three large urban districts. She died Feb. 2, 2013, in Albuquerque from pancreatic cancer. She was 66.

After earning a bachelor's degree from Harris Stowe State Teachers College, she went on to earn a master's degree in education from Washington University and a doctorate from Harvard University.

She called herself a "warrior for children," and took leadership of the troubled school districts of Washington, D.C.; San Francisco

(as its first female superintendent); and Philadelphia. Test scores in her districts, particularly in the most underperforming schools, consistently improved.

With Ackerman at the helm of San Francisco's district, the city was a finalist for the Broad Prize for Urban Education, given annually to the best urban school district in the nation. In 2010 she won the Richard R. Green Award, given by the Council of Great City Schools to the nation's top urban school leader.

Marvin Jay Cummins

Marvin Jay Cummins, PhD, a long-time member of the Washington University Arts & Sciences faculty in sociology and political science, died March 1, 2013. He was 77.

Cummins was chair of the WUSTL Department of Sociology when it was closed in 1991.

Cummins joined WUSTL in 1967 as a postdoctoral fellow in the Community Mental Health Research Training Program in the university's Social Science Institute.

His early research focused on drug abuse, addiction and alcoholism.

In 1991, with the closure of the sociology department, Cummins became an associate professor of sociology in political science.

Rabbi James S. Diamond

Rabbi James S. Diamond, former executive director of Hillel at Washington University, died March 28, 2013, in a traffic accident in Princeton, N.J., where he lived. He was 74.

Diamond was director of Hillel at WUSTL from 1972 until 1995, when he left to become director of Princeton University's Hillel.

Diamond's tragic death was a shock to many on campus who recall his tenure at WUSTL.

Ira C. Gall

Ira C. Gall, MD, professor emeritus of clinical obstetrics and gynecology in the School of Medicine, died March 29, 2013, from complications of pancreatic cancer. He was 84.

After earning his medical degree from the University of Cincinnati in 1951, Gall completed a residency and a fellowship at the Washington University School of Medicine and Barnes Hospital (now Barnes-Jewish Hospital).

He then practiced medicine at Barnes Hospital with the late William Masters, MD, of Masters and Johnson. Later, Gall co-created one of the first physician corporations in Missouri, Obstetrics and Gynecology Inc. He also co-founded Medicine Shoppe International, a chain of community-oriented pharmacies.

Gall joined the School of Medicine's clinical faculty in 1957 and was named professor of clinical obstetrics and gynecology in 2001; that same year, he and his wife, Judith, established the Ira C. and Judith Gall Professor of Obstetrics and Gynecology.

Marilyn Krukowski

Marilyn Krukowski, PhD, professor emerita of biology in Arts & Sciences, died April 7, 2013, in St. Louis from complications of multiple sclerosis. She was 80.

She earned a bachelor of arts degree from Brooklyn College in New York in 1954 and a PhD from New York University in 1962. She joined the Washington University faculty at in 1969, eventually retiring as professor emerita in 2002.

Krukowski taught vertebrate structure (anatomy) for more than 30 years. She began her academic career as assistant professor of physiology and pharmacology at New York Medical College. After she came to WUSTL, she worked variously for the Department of Biology in Arts & Sciences, the now-closed School of Dental Medicine, and the Division of Bone and Mineral Diseases in the School of Medicine.

Krukowski worked closely with fellow biologist Florence Moog establishing and overseeing the university's Florence Moog Scholarship program.

Udo Kultermann

Renowned author and art historian Udo Kultermann, who taught architecture at Washington University for nearly 30 years, died Feb. 9, 2013, in New York City, following a long illness. He was 85.

A specialist in 20th-century architecture, Kultermann, the Ruth and Norman Moore Professor Emeritus of Architecture in the Sam Fox School of Design & Visual Arts, was the author of more than 35 books on a wide range of subjects. Among Kultermann's scholarly contributions were groundbreaking studies of contemporary architecture in Africa and the Middle East.

Born in Germany in 1927, Kultermann studied art history, archaeology and German literature at the University of Greifswald. He earned a doctorate from the University of Muenster in 1953 and served as the director of the City Art Museum in Leverkusen before joining the WUSTL faculty in 1967.

Rita Levi-Montalcini

Rita Levi-Montalcini, PhD, a Nobel Prize-winning neurobiologist who performed the majority of her research at Washington University, died Dec. 30, 2012, at her home in Rome. She was 103.

Levi-Montalcini discovered nerve growth factor, a cellular "factor" that the body uses to direct the growth of nerve networks. In 1986, Levi-Montalcini shared the Nobel Prize in physiology or medicine with biochemist Stanley Cohen, PhD, also of Washington University, who helped her identify the factor.

She graduated summa cum laude from the Turin School of Medicine in 1936. In 1946, Viktor Hamburger, PhD, considered the father of developmental neuroscience, invited Levi-Montalcini to come to WUSTL for a semester to work together on the problem of nerve growth factor. Instead of staying for a semester, she remained with the university for 30 years.

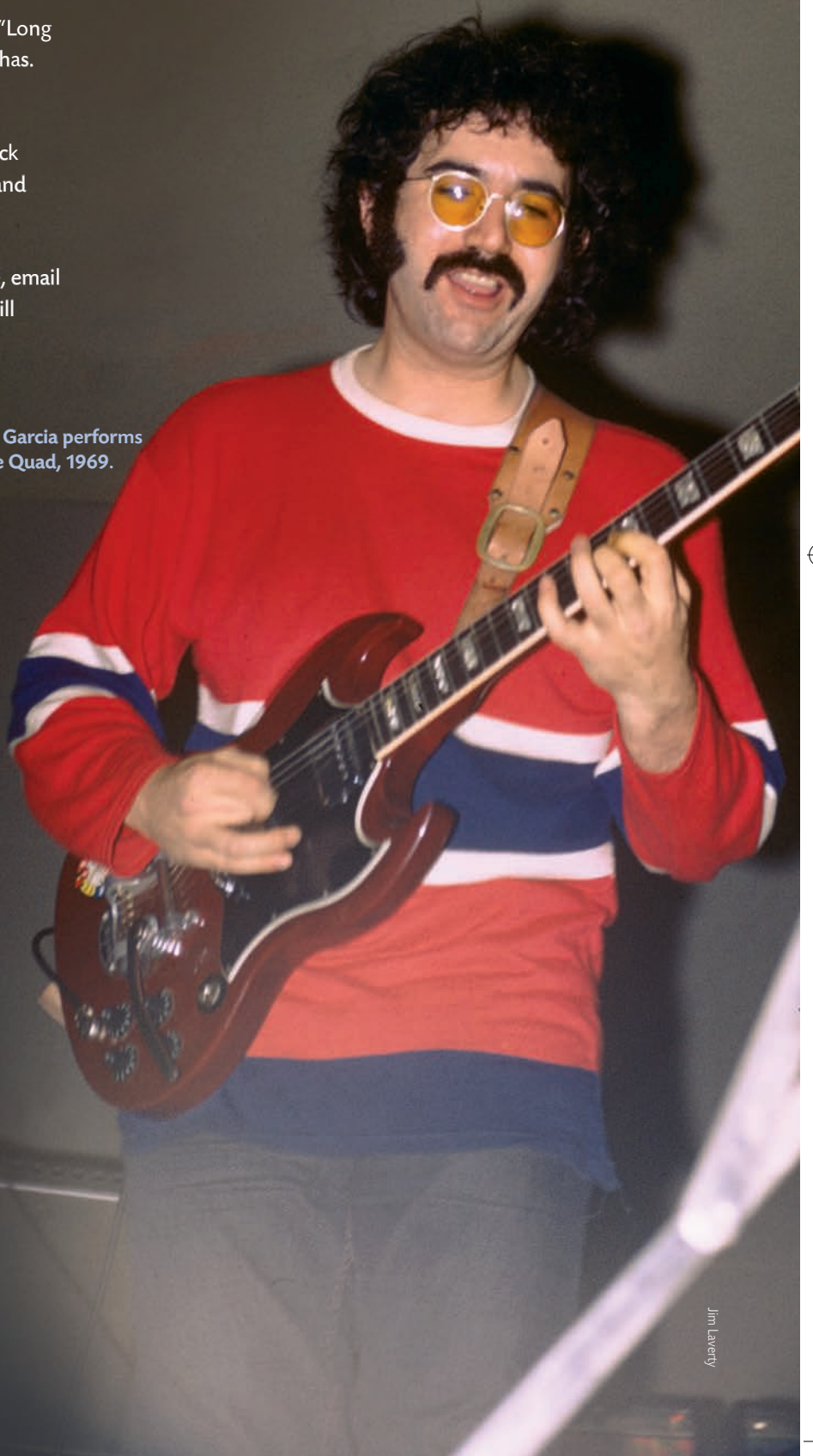
Rockin' Campus

In the song "School Days," Chuck Berry proclaimed, "Long live rock 'n' roll," and at Washington University so it has.

Tune into the October issue, when the magazine will take readers on a trip down memory lane, looking back at concerts on campus and showcasing rare posters and never-before-seen performance images.

If you have any concert memories or photos to share, email wustlmageditor@wustl.edu, and the magazine will consider publishing as space allows.

-1969 Grateful Dead Jerry Garcia performs in the Quad, 1969.
-1969 Marvin Gaye
-1969 The Velvet Underground
-1970 Jethro Tull
-1973 Sly & The Family Stone
-1977 Frank Zappa
-1981 U2
-1981 The Pretenders
-1984 R.E.M.
-1999 They Might Be Giants



Jim Lavery



THURTENE LIFTS SPIRITS

Thurtene Carnival is always a fun way to bring together students, faculty, staff, neighbors and alumni who come back for Reunion. Approximately 80,000 people attended this year's event, and proceeds went to Provident, a regional nonprofit agency offering family services.

James Byard