

An Epic Project **32** Veteran Workers **38** Diagnosis & Discussion **48**

SPECIAL SECTION  
**FUQUA**Business

# DUKE

SUMMER 2014

MAGAZINE



## Beyond the Classroom

Exploring the opportunities (and limits) of MOOCs

**24**

A man with grey hair and glasses, wearing a blue polo shirt and khaki pants, stands smiling. He is holding a large blue circle with white text. The background features a pattern of vertical blue lines of varying heights and thicknesses, some of which curve at the bottom.

**The Duke  
performance  
that launched  
a journey**

“As a freshman, I saw Martha Graham and her dance company perform at Page Auditorium. I had never seen human bodies move like that,” says Rick Tigner '70, a financial advisor, art collector, and Duke Alumni Band member. The experience ignited his lifelong interest in the visual and performing arts. He directed funds from his IRA to an endowment fund that benefits the Nasher Museum of Art and will give future students access to exhibits that inspire and transform. “I hope to introduce students to art they have never seen.”

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### MOOC U?

Answers about massive open online courses **By Robert J. Bliwise**



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A senior takes on *The Iliad*  
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### Change Agents

Five jobs, five veterans

**By Lewis Beale**



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A conversation about mental illness

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Anatomical fugitive sheets

COVER: Illustration by Bruno Mallart



# FULLFRAME

**Sinking ships:** At the inaugural Battleship Tournament, sponsored by Duke's recreation and physical education department, six boats steered by four-person teams tried to stay afloat while submerging those around them. *Photo by Megan Morr*



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# Forum

## UNDERTHEGARGOYLES

An awkward name, GRADX, but it's all about ideas entertainingly packaged. The Society of Duke Fellows, which brings together graduate-fellowship recipients, organizes GRADX, meant to reveal the relevance of research. Now, with its second run, it qualifies as an annual tradition. It's modeled on TED talks and their appeal to a broad audience; accordingly, it's built on rapid-fire, five-minute presentations.

On a late-March afternoon, in the Pratt School's Hudson Hall, graduate and professional-school students gulped down coffee, chewed oversized cookies, stretched their minds—all familiar pursuits to this group of eclectic achievers—and cheered on the presenters: “How can we tame viruses to be beneficial to humanity?” “How can photography re-imagine identity in post-apartheid South Africa?” “Is complete democratization in Turkey possible without LGBT rights?”

One favorite was the ducks-driven presentation: Wetlands absorb and store carbon dioxide, but they also send out lots of methane, a particularly potent greenhouse gas. By reducing plant density in wetlands, mused Scott Winton, a fourth-year Ph.D. student at the Nicholas School, might plant-chomping ducks tamp down the methane?

Not one to duck a pop-culture concern, Troy Campbell, a fourth-year graduate student at Fuqua, found himself wondering, “Why do so many DJs suck?” In his talk, he noted that empathy is quite distinct from experience. As we become more and more experienced at, say, programming music, we become recklessly confident in our judgment; we're at some distance from the musical insights, or the interests, of a typical dance-floor crowd.

Perhaps drawn less to empathy than irony, fifth-year graduate student Daniel Krcmaric showed his perspective as a budding political scientist in pondering: “Are justice and peace incompatible?” Some of the world's worst political actors (think Libya's hunted-down Muammar Gaddafi or, still on the scene, Syria's Bashar al-Assad) will hang on if they anticipate being brought before international justice. Alternatively, Ugandan strongman Idi Amin, for example, will happily, or at least eventually, depart from the scene if assured of safe haven somewhere—with the rule of law forever frustrated.

Justice and peace in an animal-kingdom context motivated Alexandra Sutton, a second-year graduate student in ecology. She asked, “How can we stop lion killing in Kenya?” Cattle in Kenya are valuable as a source of food, as social currency, and as a driver of the economy. When those cattle are lost, lions often are assumed to be the culprits. And so they're targeted. In her fieldwork, Sutton is exploring whether simply building stronger fences around grazing areas might protect cattle from lions and, thereby, lions from people.

A co-organizer of GRADX, Melody Jue, travels far afield, intellectually, as a fifth-year graduate student in the literature program. Her research is on oceans and science fiction. If she were a presenter, her GRADX question would be: “What can the ocean tell us about the terrestrial bias of our concepts in philosophy and media theory?”

“I'm very curious about weird sea creatures and representations of the ocean in science fiction, documentary film, digital media, and philosophy,” she says. “For me, this requires that I make friends at the Duke Marine Lab and regularly scuba-dive.” Another example, there, of deep investment in research.

—Robert J. Bliwise, editor



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# THE Quad

NOTEWORTHY FROM AROUND CAMPUS

**Celestial beauty:** The stained-glass windows of Duke Chapel have illuminated countless weddings, funerals, baptisms, sermons, speeches, and silent prayers. As part of ongoing restoration efforts, Guido Goldkühle removes, cleans, repairs, and reinstalls one of the chapel's seventy-seven windows.



**BY THE NUMBERS**

For law students, there is no more prestigious postgraduate position than a clerkship on the U.S. Supreme Court. Every year, each justice hand-picks four young lawyers to research cases, write memoranda, and help draft opinions during the Court's upcoming term. Afterward, clerks are highly sought-after for top jobs in government, academia, and private practice. Duke Law has placed an increasing number of its graduates in Supreme Court clerkships.

**1,000**

estimated number of candidates nationwide who apply for Supreme Court clerkships each year

**36**

clerks selected each term, plus one for each retired justice

**8**

Duke Law graduates selected for Supreme Court clerkships since 2010

**7**

number of those who are women

**15**

former Supreme Court clerks who are members of the Duke Law faculty

**6**

Supreme Court clerks who have become Supreme Court justices

**12**

months of a clerkship in a Supreme Court term

**20**

percent of each Duke Law class that goes directly to a judicial clerkship

**IMPATIENCE**

“Sometimes it seems like the only lines left in America are at airport security, Krzyzewskiville for Duke hoops games, and seemingly every women’s restroom.”

**Andy Kessler**, author of *Eat People*, on the American’s distaste for waiting in line (*The Wall Street Journal*)

**HISTORY**

“The more we learn about it, the more ingenious it seems. It was indeed a kind of computer.”

**Alex Roland** Ph.D. '74, professor emeritus of history, on Anitkythera mechanism, an ancient copper device discovered off the coast of Greece in 1901 (*Fast Company*)

**NEUROBIOLOGY**

**“Estrogen protects the brain; it’s a no-brainer, pun intended.”**

**Theodore Slotkin**, professor of neurobiology at Duke’s School of Medicine, on the biological vulnerability of the human male brain (*Scientific American*)

**HEALTH**

“Very young teenagers and college-age kids tend to think they’re immortal.”



**Cameron Wolfe**, assistant professor of infectious disease, on teens’ misunderstanding of the importance of vaccines (NPR)

**RELIGION**

**“Women are running the Sunday schools, they’re running the Christian education, they’re singing in the choir, they’re caring for the male pastors, they’re writing the curriculums, they’re in the kitchens, they’re running the children’s programs—doing everything for free.”**

**Eboni Marshall Turman**, director of the Office of Black Church Studies and assistant research professor of black church studies, on the shifting patriarchy in the black church (*Divinity* magazine)



**LABOR**

**“This is one product, one project, one country. But it’s really a microcosm of the broader reality of a subclass of deeply exploited human beings.”**

**Siddharth Kara** ’96, visiting scientist at the Francois-Xavier Bagnoud Center for Health and Human Rights, on his recent report that documents the brutal conditions for child laborers in India’s carpet industry (*Harvard Gazette*)

**MEDICINE**

**“There is no easy way for a lay person to judge a doctor’s technical skills or results—because of a lack of full transparency. We can all get falsely disarmed by a doctor’s social skills, which may cover up his or her competency (or lack thereof). After all, board certification is just a measure of minimum competency.”**

**Murali Doraiswamy**, professor of psychiatry and medicine at Duke University Medical Center, on developing a national rating where patients can compare individual doctors (*The Wall Street Journal*)

**JOURNALISM**

“It’s been twenty years since the Internet began to disrupt journalism. It has turned our business upside down, but it’s



also given us a new canvas

to invent different ways of presenting information. It’s time to start re-imagining the news story.”

**Bill Adair**, creator of PolitiFact and Knight Professor for computational journalism at the Sanford School, on creating new forms of journalism (*Poynter*)

**CHOICE**

**“It’s one thing to have the right to do something. It’s another to call it advisable.”**

**Robin Kirk**, codirector of the Duke Human Rights Center, writing about Duke freshman porn actress “Belle Knox” (*The News & Observer*)

**ENVIRONMENT**

**“It’s not cheap to work in the deep sea.”**

**Cindy Lee Van Dover**, director of the Duke Marine Lab, encouraging international and national agencies to fund environmental management of deep-sea mining (*BBC*)





Janet Adams

Taking over: From cell biology to the top academic spot

## Science of Choosing a New Provost

Kornbluth called “a very effective leader.”

The national search to fill the post of departing provost Peter Lange led back to campus. Sally Kornbluth, James B. Duke Professor in the department of pharmacology and cancer biology and the vice dean for basic science in the School of Medicine, will take over after Lange’s end-of-June departure.

“We had an excellent group of candidates, but Sally distinguished herself as a very effective leader who listens carefully and considers a diverse range of views,” said George Truskey, R. Eugene and Susie E. Goodson Professor and senior associate dean for research in the Pratt School, who chaired the search committee. “She quickly grasps the core of complex issues and works collegially. Sally is someone who knows Duke, but offers

**“Sally is someone who knows Duke, but offers a fresh perspective and vision as we move forward.”**

a fresh perspective and vision as we move forward.”

The provost is the university’s chief academic officer, respon-

sible for leading Duke’s schools and institutes, as well as admissions, financial aid, libraries, information technology, and all other facets of academic life.

Kornbluth knows Duke well: The prominent cell biologist has been on the faculty since 1994. Her husband, Danny Lew, is James B. Duke Professor of pharmacology and cancer biology.

## BIG NUMBER

In late March, the Duke Forward campaign passed the \$2 billion mark. One factor behind that figure, also announced in late March: a **\$10 million commitment** from the Crown family to further enhance the West Union, which is undergoing the most extensive renovation of any original building since the construction of the campus in the 1920s. Among the campaign highlights so far: **484 new endowments for professorships, financial aid, and programs.**

**\$2 BILLION** GOAL: \$3.25B

DUKE  
/ forward

## HEARD ON CAMPUS

In March, former U.S. ambassador to Afghanistan Karl Eikenberry delivered the Ambassador Dave and Kay Phillips Family International Lecture at the Sanford School. He said it is time for the U.S. to reduce its presence in Afghanistan but that it will need to keep a small military force there for some time.

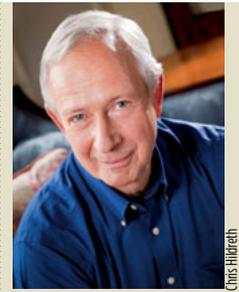
In conversation with political science professor Peter Feaver, Eikenberry said there are two remaining “critical missions” in Afghanistan. “One is counterterrorism. We need a military presence, and even more importantly, we need the military infrastructure to enable the Central Intel-



Les Toole

ligence Agency to keep after its intelligence operations across the border. That’s what enabled us to locate bin Laden. Secondly, we need U.S. military forces and NATO allies to help Afghanistan continue to build its army and police forces. They still need a lot of advising and mentoring.”

Eikenberry served twenty-five years in the Army before being named ambassador and chief of mission in Kabul.



## A SPOTLIGHT ON THE Arts

One of the most joyous highlights of this past fall was the reopening of Baldwin Auditorium. Just as Duke Chapel is the focal point of West Campus, so Baldwin, with its graceful Georgian Revival dome, is the focal point of East Campus. Over the last two years, Baldwin has undergone a \$15 million renovation in line with Duke's philosophy of architectural renewal on campus: Preserve the historic exterior while creating state-of-the-art interior spaces to meet key campus needs. The renovations, funded by The Duke Endowment and recognized with a national architectural award, have given Duke a comfortable, inviting concert hall with

development began in 2005 with the opening of the Nasher Museum of Art, now a key cultural destination for the campus, the city of Durham, and the region. Other new buildings followed: Dance groups still love the airy high-ceilinged space of the historic Ark on East Campus, but now they also can practice and take master classes in the new Hull Avenue studios. The student-run Arts Annex, which reopened in February, welcomes students of any experience level to use the free, fully stocked art studios to explore their interests in ceramics, photography, and printmaking, even if they are not enrolled in visual studies coursework. Students led the vision for the renovations, helping to design spaces that would be maximally useful and appealing.

The new physical spaces provide the foundation for the arts, but at a major university, the arts also must be connected to the academic enterprise. At Duke, we see deep continuity between the arts and the teaching and research missions of the university. The arts are not a separate sphere of activity, but a place where crucial features of education, including creativity, teamwork, and critical thinking, are practiced every day.

Duke's approach to the arts features a balance between theory and practice. Duke's new master of fine arts degree in experimental and documentary arts steeps students in new media and advanced technology, training them to become sophisticated practitioners of documentary arts who are also conversant in its theory. On the other hand, Duke's art history major requires students to take at least one studio course, in the belief that mastering an embodied skill like drawing, painting, or sculpture lends depth to a student's understanding of art theory and criticism. Duke's dance major allows a student to pursue the performance aspects of dance as well as the intellectual tradition, delving into dance theory and



Today, Duke has what it never had before—a superlative performance venue.

acoustics almost beyond compare. One faculty musician remarked that until he played in Baldwin, only in Carnegie Hall had he had the experience of hearing every other instrument on stage with perfect clarity.

Today, Duke has what it never had before—a superlative performance venue. The arts have always been part of Duke's history, but now we are beginning to train a spotlight on them. A pillar of Duke's current strategic plan is a strengthened commitment to developing excellence across music, dance, theater studies, visual arts, and new media. This revitalization is dramatically expanding opportunities for students, faculty and staff members, alumni, and members of our surrounding community to engage with the arts.

As with Baldwin, home to Duke's wind symphony and jazz ensemble, the new efflorescence of the arts at Duke begins with physical spaces. More than buildings, the new arts spaces on campus have made possible a new level of interaction and expression. This

cultural history—making Duke the “college of choice” for a student who wants to pursue both academics and dance in a serious way.

When Baldwin Auditorium opened last fall, the Duke Wind Symphony printed T-shirts that featured a silhouette of the iconic dome with the words “Our House.” The slogan consciously echoed the pride and sense of ownership that leads the Cameron Craziest to chant “Our House” in the last minute of home basketball games. The analogy is apt. Like Cameron Indoor Stadium, Baldwin is a place where Duke students can perform at the highest level of excellence and where the whole university community can celebrate and be inspired by their achievement.

Students come to Duke to be stretched in every direction, to tap into potential they didn't know they had. Increasingly, the arts play a critical role in fulfilling this ideal of a Duke education.

—Richard H. Brodhead



**PLANETDUKE**

**At a Glance**

Current students whose home country is Jordan:

**7**

Jordanian nationals working at Duke:

**2**

Alumni living in Jordan:

**16**

**Key Duke connections:**

While the **DukeImmerse** students worked with Syrian refugees, another group of students studied the situation of Iraqi refugees in Jordan—a project supported by the **Kenan Institute for Ethics** and **Bass Connections**, Duke’s new multidisciplinary initiative.

Through the **DukeEngage** in Jordan summer program, students currently are exploring crucial issues as Jordan comes to terms with political responsibility, social change, and the effects of regional conflict.

Senior Lawrence Nemeah was the only Duke student to study abroad in Jordan last fall. He studied at the **Jordan Institute of Diplomacy in Amman**, and he interned for the USAID Public Action Front, the Arab Institute for Security Studies, and the Jordan River Foundation.

**FUN FACT:** He was featured on national television as a foreigner cheering on the Jordanian national soccer team.

**Jordan**

**Stories of Displacement**  
Students gather oral histories of Syrian refugees.

*Nour has fair skin and gray-blue eyes, accentuated by her ocean-colored hijab and dress. She tells us how in love she is with her husband, how he waited three years until she was old enough to marry him. She speaks of her son as the only bright spot in her life here in Jordan, the only happy moment. She details the horrors of her father-in-law’s public murder in Syria and even shows us pictures of his flowery burial on her cell phone. A lot more has happened in her eighteen years than in my own. — Sasha Zients*

religion, values, family, and community—delving into “what’s meaningful to them and why,” says Suzanne Shanahan, associate director of the Kenan Institute for Ethics (KIE) and an associate research professor in sociology. The interviews were part of vulnerability assessments conducted in partnership with health workers from the Jordan Health Aid Society.

Politically stable itself, Jordan has received more than 2 million Syrian refugees. That number is expected to reach 6.5 million by the end of 2014, according to the UN Refugee Agency. For those displaced by violence, “the act of leaving one’s home can be equally as traumatic as one’s direct experiences in the war,” observes junior Nali Gillespie. For certain refugees, it is the second or even third time they have fled.

In addition to large numbers of Syrians, Jordan also is providing asylum to 500,000 Iraqis and 2 million Palestinians. The massive influx of foreigners has placed strains on Jordan’s health-care, education, and economic infrastructures.

“This experience has challenged me to re-evaluate my understanding of ‘conflict.’

While I can intellectually understand the numbers, they were still abstract until I saw and heard what many people have been through,” reflects junior Tra Tran.

The research project is a continuation of DukeImmerse: Uprooted/Rerouted, a semester-long research initiative sponsored by KIE and the Office of Undergraduate Education. With the information they gathered in Jordan, Shanahan and her team will compare results gathered from three refugee groups: Syrian, Iraqi, and Bhutanese. The Duke researchers are interested in how factors such as race, class, education, and language affect mental health and the likelihood of successful resettlement.

—Elizabeth Van Brocklin



Mousa Jawarneh, Head of Jordanian Health Aid Society’s Outreach Team

**Field notes:** (from left) Christie Lawrence, Sasha Zients, and Nali Gillespie interview a Syrian refugee.

With the help of a translator, freshman Sasha Zients sat on the floor listening to the life story of Nour, a Syrian refugee. Zients was one of six students examining the impact of forced displacement on the mental health of refugees in Jordan this past spring.

From their fieldwork sites at makeshift camps in the Jordan Valley, they could hear the faint thud of bombs just across the border in Syria. Situated on a fortress of Jordanian cliffs, Zients wrote that her “level of security is not compromised. Yet the proximity [to danger] is no less haunting.”

The group spent a month interviewing refugees about the most significant events in their lives—along with their perspectives on



Movie stars: DLC lemurs help explain history.

## On the Big Screen

New film features five Duke Lemur Center stars.

Head to your nearest IMAX theater and check out *Island of Lemurs: Madagascar*, an IMAX 3D documentary narrated by Morgan Freeman, which resulted from a partnership with the Duke Lemur Center. The Warner Bros. Pictures film shows the endangered species on their home turf, but also features five of the center's fat-tailed dwarf lemurs, Nighthawk, Vireo, Raven, Crow, and Jaeger.

For just thirty seconds of screen time, the lemurs underwent six weeks of training. Animal training expert Meg Dye and technicians Fallon Owens and Mack Des Champs had to get the nocturnal animals to endure the bright lights of a movie set without curling up for a nap. The part required reenacting the arrival of the first lemurs to Madagascar who are thought to have made their way there across the Mozambique Channel from Africa more than 60 million years ago aboard floating rafts of plant debris. The filmmakers used a hollow log in front of a green screen to recreate the lemurs' Gilligan-esque moment. A mealworm dangling at the end of the log helped Raven to nail her scene.

Licinius, a ring-tailed lemur, also appears, briefly, in a scene where he seems to explain the primate family tree on a touchscreen computer.

## BOOKBAG



### DOCST 317S/HIST381S: Veterans Oral History Project

**THE CATALYST:** In 2000, Congress passed legislation to create the Veterans History Project. Housed in the Library of Congress, the on-going collection includes correspondence, audio narratives, and visual materials from veterans of every American war since World War I. Several years ago, Center for Documentary Studies instructor Michelle Lanier and then-visiting professor Elaine Lawless saw an opportunity to contribute to the project at Duke. Documenting veteran stories always has been very personal for Lanier, an oral historian and folklorist with a family history steeped in military service. "The potential here is to use bearing witness to these stories as a bridge between civilian and military life—as a bridge that calls for more awareness building," says Lanier.

**THE GIST:** Students conduct at least one recorded interview with a veteran over the course of the semester, adhering to guidelines and best practices set forth by the Library of Congress. Lanier leverages personal contacts and works with local veterans organizations to arrange for interviews, but also encourages her students to explore any existing ties to the military by reaching out to family members and friends. The class submits its audio recordings to the Library of Congress' American Folklife Center, where they are preserved for scholars, veterans hoping to connect with former comrades, and

**"The potential here is to use bearing witness to these stories as a bridge between civilian and military life."**

future generations. "As an archival tool, they help fill the gaps in the written record and sometimes even go against the traditional narrative," says Lanier.

**THE TWIST:** Performing an interview is not as simple as setting up the recorder and pressing play. Lanier notes that her students have to learn to "make silence" and allow the veterans complete autonomy in the way they tell their stories, without interjecting to empathize or ask follow-up questions. Lanier has her students perform mock interviews of each other, in which they practice posing delicate questions and experience firsthand how difficult it can be to answer them. "It's important for them to know what it's like to be put on the spot," says Lanier.

**ASSIGNMENT LIST:** The oral-history method requires significant preparation. Students keep a weekly journal and view documentary films—including *Not Yet Begun to Fight* by Duke alumna Sabrina Lee '91—as fodder for class discussion about veterans' issues. Each student also is responsible for researching the interviewee's background and the conflict in which they served.

**WHAT YOU MISSED:** Local Vietnam veteran Stephen Acsai visited the class in February to speak about his wartime experience, his work to dedicate the North Carolina Vietnam Veterans Memorial in Raleigh, and the sense of brotherhood with other veterans he still feels today. Several years ago, Acsai took Lanier's class through the Center for Documentary Studies' Continuing Education Program and conducted several veteran interviews of his own. He is thrilled to see members of a younger generation engaging more with their nation's heritage. "I hope they develop a deeper understanding and appreciation of not just the sacrifices veterans have made, but what their families have gone through," says Acsai.

—Tim Lerow

## ON THE PLAZA

**Samantha Emmert**

**Major:** Evolutionary anthropology, biology with a concentration in marine biology, and a certificate in marine science and conservation

**Hometown:** Bronx, New York

### Coastal Concerns

Student responds to a deadly dolphin plague.

The rolling sand dunes and gentle waves of Emerald Isle are so picturesque that I almost forget why I am here: to conduct a necropsy on a stranded bottlenose dolphin," wrote Samantha Emmert from the Duke Marine Lab in early 2014. Emmert spent her junior year researching an outbreak of morbillivirus epizootic, a measles-like virus that has ravaged dolphin populations along the Atlantic Coast since last summer.

Emmert, and the two would rush to locate the dolphin on the shore. Then they would either transport the mammal to the lab or perform a necropsy (an autopsy performed on an animal) right there on the beach, depending on its stage of decomposition.

"We began by carefully observing the exterior of the animal to look for unusual lesions, signs of interactions with fisheries or boats, or other strange scars," says Emmert.

more fascinated than grossed out.

Since July 2013, more than 1,000 dolphins have been found stranded along the East Coast—nearly triple the counts of past years. Still, "this probably reflects only a small percentage of the actual casualties," says Emmert. "The vast majority of them don't wash up on shore." The cause of morbillivirus is unknown, but ocean pollutants may be weakening dolphins' immune systems, making them more susceptible to infection.

Emmert compared her findings to another wave of morbillivirus mortalities among dolphins in the late 1980s. "If this epizootic continues to follow trends of the 1987-88 morbillivirus event, we can expect dolphins to continue dying in exceptionally high rates through early summer," predicts Emmert, now a senior. "We're getting a lot of young dolphins, so that doesn't really bode well for the next generation." What's more, federal funding has been cut for the Stranding Network, threatening its ability to respond to the surge of strandings. Emmert is spreading the word about the need for stable funding for marine mammal welfare organizations.

A native of the Bronx, Emmert grew up beside Long Island Sound, aware of the toxic waste and debris that sullied its waters. Her particular interest in marine biology emerged last summer, during a DukeEngage internship at a marine mammal hospital in Sausalito, California. In the spirit of conservation, Emmert was a Dorm Eco-Rep for Alspaugh. She later worked with Students for Sustainable Living and helped organize the Duke Free Store, a student recycling initiative for unused books, supplies, and other objects. After graduating from Duke, Emmert plans to pursue an advanced degree specializing in marine mammal health.

—Elizabeth Van Brocklin



**Grim reality:** Emmert, right, and Victoria Thayer examine a deceased dolphin.

For her independent study, Emmert worked closely with Victoria Thayer M.E.M. '82, Ph.D. '08, coordinator of the Marine Mammal Stranding Network, a team that tracks strandings along North Carolina's central coast. When Thayer heard about a stranding, she would notify

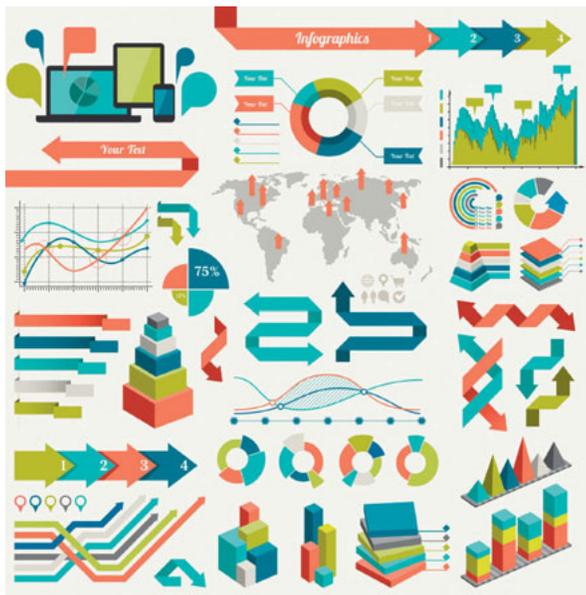
"Then, we cut the animal open to look for the cause of death internally." She helped Thayer by sharpening knives, preparing vials, jotting notes, and cutting samples of lung or spinal tissue. It was grisly work, teeming with blood and strong odors, but Emmert said she was

# A Weekend of Data Crunching

Duke holds third annual DataFest.

In late March, newly renovated Gross Hall played host to the 2014 DataFest, a forty-eight-hour team competition in big data analytics. The event attracted close to 130 undergraduate and graduate students from a variety of disciplines, including statistics, computer science, and engineering. Duke was the best represented school, but participants also made the trip from the University of North Carolina at Chapel Hill, North Carolina State University, and even Dartmouth College.

Mine Çetinkaya-Rundel, assistant professor of the practice in Duke's statistics department, served as the head organizer of the event. "The goal is to get creative with data in a way that students might be scared to do in the classroom if there were a grade or rubric attached," says Çetinkaya-Rundel. "I want students to realize the complex nature of data, understand that they can glean something useful from it, and leave here wanting to learn a bit more."



**"I want students to realize the complex nature of data, understand that they can glean something useful from it, and leave here wanting to learn a bit more."**

performance of HVAC units to weather conditions. After a briefing by GridPoint senior vice president of marketing Mark Straton and senior product manager Kyle McCarter B.S.E. '05, teams set to work deconstructing the data, staying late into the night and reconvening early in the morning. Faculty members, Ph.D. students, and industry consultants were on hand all weekend to help troubleshoot with computational challenges and to talk teams through their research questions.

On Sunday afternoon, teams presented their insights back to GridPoint, and awards were given in three categories. In the best visualization category, the two winning teams were Cougar Bait ("Prediction of Main Load Usage") and Spectral ("Mining for Meaning: Exploring Energy Use Data"). In the best use of outside data category, the three winners were Team Clairvoyant ("How Much Energy Have We Saved?"), The Fantastic 5+1 ("Exploring Market Potential: The Fresh Market Inc."), and DataCruncherz ("Disaster Management: A case study of Hurricane Irene"). And in the best in show category, the two winners were Wolfram Alphas ("Analytic Insight for the Facilities Manager") and D 4 C ("Energy Efficiency Policy and Effectiveness").

Çetinkaya-Rundel says the competition offers all participants the chance to showcase their ability to work in teams and deliver meaningful results under time constraints. "I've had several participants tell me that the DataFest experience was one they used in job and internship interviews." —*Tim Lerow*



## Reorganization for Better Application

New units will be spun out of the Institute for Genome Sciences & Policy.

Come July, the Duke Institute for Genome Sciences & Policy will be no more. In its place will be three units borne from the research and collaboration the institute promoted.

Greg Wray Ph.D. '87, a professor of biology, will head a new center that will provide education, research, and training in genomics and computational biology. It will host core resources and a research community that will involve faculty from several schools. A Center for Applied Genomics & Precision Medicine will be dedicated to applying genome-inspired insights to improve patient care. Geoff Ginsburg, a professor of medicine and biomedical engineering, will head the center. The third component is Duke Science & Society, which was launched last year and will become a campus-wide program. It will welcome its first class of master's students in bioethics and science policy in the fall. Nita Farahany A.M., J.D. '04, Ph.D. '06, a professor of law and philosophy and a member of the U.S. Presidential Commission for the Study of Bioethical Issues, will head the program.

## Giving Good Advice

Graduates will help counsel rural achievers.

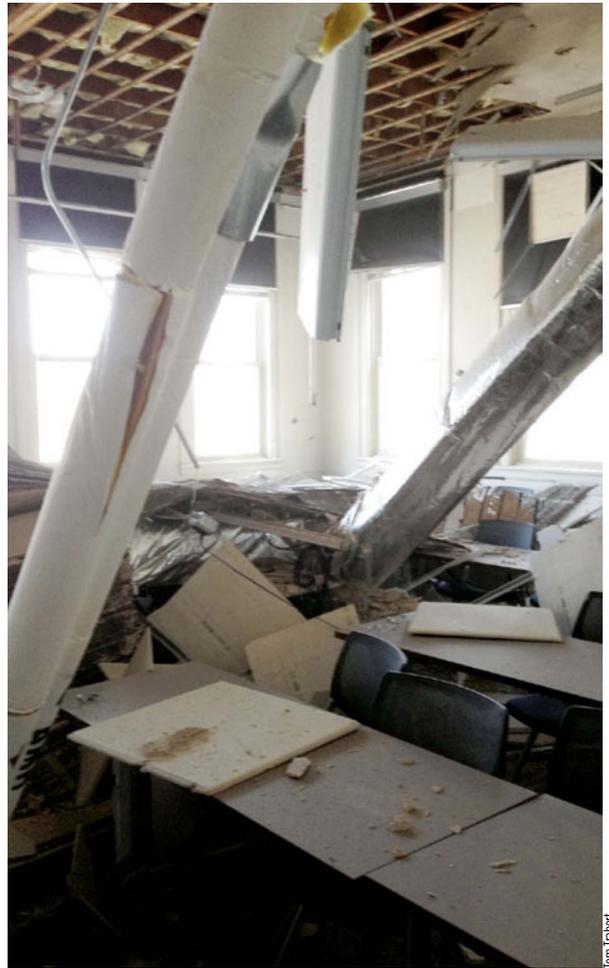


Underserved students in rural North Carolina will start getting college access guidance from Duke graduates, thanks to a new partnership.

The university has joined with the College Advising Corps, a Chapel Hill-based nonprofit, and committed to recruiting ten recent graduates to serve as full-time advisers with the program. The initiative will be administered by Duke's Community Service Center with help from the Office of Civic Engagement. Units like the financial aid and admissions offices will support the training of the advisers.

The partnership was made possible by a three-year, \$10 million grant from the new John M. Belk Endowment. The grant also allowed Davidson College and N.C. State to join with the corps; University of North Carolina at Chapel Hill is a longtime member. The goal is to send more students from rural North Carolina high schools to college and other training programs not only to improve their futures, but also to strengthen the workforce in their communities.

A study by Stanford University shows the corps has significant impact. According to the report, students who work with Advising Corps advisers are 73 percent more likely to apply to a four-year institution and 67 percent more likely to be accepted by a college or university than a student who does not meet with a corps adviser.



Tom Trabert

Falling: Ceiling collapse in West Duke on East Campus

## Ceiling Collapse Leads to Overhaul

East Campus' West Duke Building is closed.

Thankfully, no one was hurt when, on an early afternoon in February, a ceiling in a classroom in the West Duke Building collapsed. Lecturing fellow Ana Fernandez was scheduled to teach intermediate Spanish in classroom 202, but as she was talking to a student before class, they heard a loud, dry noise as if something was hitting the ceiling. "It was a big noise. Something was dropping," Fernandez said.

**"It was a big noise. Something was dropping."**

Closer inspection revealed a bend in the ceiling. The facilities operations department was called and Fernandez was assigned another room.

Shortly later, the ceiling collapsed, damaging abandoned chairs and tables. Staff members scrambled to relocate eighty classes along with several academic programs. In the following days, engineers inspected ceilings throughout the three-story, 100-year-old building and concluded all the plaster ceilings should be replaced. Duke expects the building to be closed through the summer.



**Got them covered:** A student takes off from the new bicycle shelter and fix-it station outside of the Sanford Building and Rubenstein Hall. Completed in March, the site can accommodate about twenty bikes, handy for the nearly 1,050 university faculty and staff members and students who commute on two wheels.

## Doing Their Work in Different Places

Davidson and Lisker head elsewhere to new posts.

Cathy Davidson has been a strong voice in discussions about new models of higher education at Duke. Donna E. Lisker has taken a particular interest in the lives of women. Soon, both women will deepen their work and share their thoughts and research from a different perch.

Davidson will be leaving to be a professor of English at the Graduate Center of the City University of New York. She'll also direct the Futures Initiative, a program to promote collaborative and participatory innovation in higher education.

Davidson is the John Hope Franklin Humanities Institute Professor of interdisciplinary studies and the Ruth F. DeVarney Professor of English. She cofounded the Humanities, Arts, Science, and Tech-

nology Alliance and Collaboratory (HASTAC); CUNY's graduate center will become the main home of that organization.

Meanwhile, Lisker will leave her position as associate vice provost for undergraduate education at Duke to become dean of the college and vice president for campus life at Smith, the women's liberal-arts college. The role seems apt. At Duke, Lisker was the director of the women's center. She served on the steering committee of the Women's Initiative, a research project on the status of women at Duke. She also taught courses in gender and sports and in women's studies and helped found and lead the Baldwin Scholars program.

Lisker has been at the university since 1999.



Chris Hildreth



Chris Hildreth

**Moving on:** Davidson, left, and Lisker are heading north.



## A New Mission

Dzau to lead the Institute of Medicine.

The end of June marks not only a transition in the provost post, but also the departure of Victor J. Dzau, the chancellor for health affairs and president and CEO of the Duke University Health System. Dzau has been named president of the Institute of Medicine.

The health arm of the National Academy of Sciences, the IOM is an independent, nonprofit organization that works outside of the government to provide unbiased but informed recom-

mendations to the public, health officials, and policymakers.

Dzau has spent nearly a decade at Duke. Among his lengthy list of accomplishments is spearheading the transformed Duke Medicine campus, which now includes the cancer center facility, the medicine pavilion, the Mary Duke Biddle Trent Semans Center for Health Education, a new School of Nursing facility, and an under-construction eye center.

## NOTABLE



**Marshall Price** has been appointed to the newly created position of curator of modern and contemporary art at the Nasher Museum of Art. In this post, he will organize new exhibitions and programs and coordinate special projects with Duke faculty and students. Price previously was curator at the National Academy Museum in New York for eleven years. He earned his Ph.D. in American modernism from the City University of New York and a master's degree in art history from Pennsylvania State University.

Two North Carolina high-school seniors were named finalists in the Intel Science Talent Search 2014 for their work in Duke labs. Alec Arshavsky was recognized for his work in the lab of **Sina Farsiou**, assistant professor of ophthalmology and biomedical engineering. Farsiou's lab works to improve health outcomes for at-risk patients with ocular and neurological diseases. Parth Thakker was recognized for his work in the lab of **Nico Hotz**, assistant professor of mechanical engineering and materials science at Duke. The Hotz group has been working on quantum dots for solar collection that are safe from toxic chemicals.

**Ryan Brown '11** won a Luce Scholarship, awarded to eighteen scholars by the Henry Luce Foundation of New York. Brown aims to enhance the understanding of Asia among potential American leaders. While at Duke, Brown was a Robertson Scholar. She served as associate editor of *Towerview Magazine*; editor-in-chief of Duke's literary magazine, *The Archive*; and senior staff writer and columnist for *The Chronicle*. A native of Denver, Brown is currently a freelance journalist and master's student in African studies at the University of Oxford in England.

Freshman **Leslie Turner** and senior **Marcus Benning** were named 2014 Young Futurists by *The Root*, a news, opinion, and culture site. Each year, *The Root* recognizes promising young African-American women and men. Turner, a premed student, was recognized for her work with homeless teens in Ohio and children in the Dominican Republic. She hopes to work with Doctors Without Borders as a cardiologist. Benning was recognized for creating the Duke Connects challenge, which seeks to improve relations between Duke and Durham. He also created the Black Cultural Living Group, a student residence designed to promote conversation about issues that affect

African Americans. He plans to attend law school. He was also president of the Black Student Alliance and a young trustee finalist.

**Stephanie Helms Pickett** was named the new director of the Duke Women's Center. Now in her eighth year at Duke, Helms Pickett previously directed assessment and professional development within Student Affairs, chairing Duke's Bias Analysis Task Force, focusing on gender and the undergraduate experience. Before coming to Duke, Helms Pickett worked at Bennett College, the N.C. Department of Public Instruction, Durham Public Schools, and Meredith College.



# Ideas

CLASS AND POLITICS

## For the People, By the People?

A high percentage of American policymakers are millionaires. But does it matter?

Nicholas Carnes set out to answer this question in his new book, *White-Collar Government: The Hidden Role of Class in Economic Policy Making*. He discovered a dearth of working-class citizens at every level of government throughout U.S. history. Carnes surveyed 783 lawmakers who held office between 1999 and 2008 and found only thirteen had spent a quarter or more of their time in blue-collar jobs. Carnes argues that this disproportionate representation leads to policy decisions that favor white-collar professionals at the expense of working-class Americans—and at the expense of true democracy.

“If we want government for the people, we’ve got to start working toward government by the people,” wrote Carnes in a *New York Times* op-ed before publication of his book. The solution must involve a variety of changes, according to Carnes, from the equalization of campaign funding to a shift in the types of candidates the parties support.

Carnes is assistant professor of public policy in the Sanford School of Public Policy. Growing up, he was a cashier at Dairy Queen and Walmart, among other working-class jobs.



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## BEHAVIOR

### Contagious Yawning No Longer Linked to Empathy

The old saying goes, “Yawns are contagious,” but have you considered the biology behind it? While previous studies have suggested a connection between contagious yawning and empathy, new research from the Duke Center for Human Genome Variation finds that contagious yawning may decrease with age and is not strongly related to variables like empathy, tiredness, and energy levels. The study, published in the scientific journal *PLOS ONE*, is the most comprehensive look at factors influencing contagious yawning to date.

Contagious yawning is a well-documented phenomenon that occurs only in humans and chimpanzees in response to hearing, seeing, or thinking about yawning. It differs from spontaneous yawning, which occurs when someone is bored or tired. Spontaneous yawning is first observed in the womb, while contagious yawning does not begin until early childhood.

The researchers said a better understanding of the biology involved in contagious yawning could ultimately shed light on illnesses such as schizophrenia or autism. People with these disorders, both of which involve impaired social skills, demonstrate less contagious yawning despite still yawning spontaneously. “It is possible that if we find a genetic variant that makes people less likely to have contagious yawns, we might see that variant or variants of the same gene also associated with schizophrenia or autism,” said study author Elizabeth Cirulli Ph.D. ’12, assistant professor of medicine at the Center for Human Genome Variation at the School of Medicine. “Even if no association with a disease is found, a better understanding of the biology behind contagious yawning can inform us about the pathways involved in these conditions.”

## ILLNESS

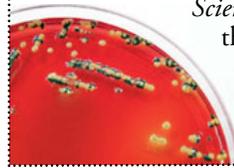
### Detecting Disease Pathogens

Doctors may soon be able to tell the difference between viral and bacterial infections. The new test could help curb viral pandemics and detect unknown emerging diseases, including potential bioterrorism threats. It also could enhance the way doctors make treatment decisions in routine care.

Duke researchers developed a blood test that showed more than 90 percent accuracy in distinguishing between viral and bacterial infections when tested in people with respiratory illnesses. Reported in the September 2013 issue of the journal

*Science Translational Medicine*,

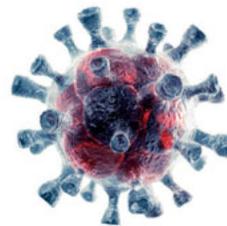
the finding moves the technology closer to clinical use, where it could help patients get quicker diagnoses and treatments, while curbing the unnecessary use of antibiotics that don’t work on viral infections.



**“One of the big global threats at the moment is the emergence of bacterial resistance, and that is largely driven by overuse of antibiotics.”**

When infected by a virus, a person’s immune system responds differently from fighting a bacterial infection. These differences are evident at the genetic level, where certain genes are switched on during a viral attack, creating a “signature” that broadly identifies the culpable pathogen.

Co-senior author Christopher W. Woods, associate professor of medicine, pathology, and global health at Duke and the Durham VA Medical Center, says, “One of the big global threats at the moment is



the emergence of bacterial resistance, and that is largely driven by overuse of antibiotics. A tool that enables us to accurately identify viral infections could reduce the indiscriminate provision of antibiotics, thereby reducing the development of resistant pathogens.”



Megan Marr

ART AND SCIENCE

## Classic Paintings May Get Laser Treatment

A Duke researcher has developed a 3D imaging technique for peering into the layering of a painting. Warren Warren, a chemist and biomedical engineer at Duke, develops laser systems to image human tissues. But he thought his work might be useful for art historians as well.

One of Warren's methods is pump-probe microscopy, which sends pulses of laser light into molecules to reveal their chemical makeup. While the pump-probe technique usually is used on biological pigments like melanin in skin, Warren applied it to analyze colors in paint as well.



Puccio Capanna,  
*The Crucifixion*, ca.  
1330, North Carolina  
Museum of Art,  
Raleigh

“We built a laser system that was designed to do a good job of diagnosing skin cancer and then realized

that we could use exactly that same laser system to look at Renaissance artwork,” he told a *Science* correspondent.

After testing on some fake paintings, Warren's team tried the laser on *The Crucifixion*, painted by Italian artist Puccio Capanna in the early 1300s. The instrument revealed that Capanna used different pigments to create colors that look similar to the eye.

The technology could help historians figure out how to best preserve old paintings and possibly help detect forgeries.

▲  
**Lunar New Year:**

The Duke Asian Students Association's annual cultural production showcases the talent of students through elements of Asian culture. The show encompasses both traditional and modern acts originating from Asia and features a number of dance and vocal performances by a broad range of campus groups.



istockphoto

# Ideas



## Library Renewal:

The madness of early spring's weather didn't slow the Rubenstein Library renovation project. This phase included the removal and replacement of the clay roof tiles over the Gothic Reading Room.



## ECONOMICS

### Why It's Called Work

Despite childhood dreams of becoming astronauts and rock musicians, many people end up working dead-end jobs. A pair of researchers wanted to find out why. According to research by Peter Ubel of Duke's Fuqua School of Business and David Comerford of the University of Stirling, even people who have career options tend to choose mindless, repetitive work that requires less effort.

The two professors performed a series of experiments testing the real-life decisions of volunteers. They were offered a choice between an effortful job and an easier job, both at equal pay. The study found that people avoid choosing effortful work

even when they predict that it will provide them with a better working experience, a phenomenon called effort aversion.

The study participants indicated that it was unfair to work a harder job without extra compensation. "If you put the issue of wages in front of people, all of a sudden that becomes a primary concern. They are focusing on what they perceive as fair compensation, rather than non-monetary aspects of the job, such as social value or even whether the job is interesting," Ubel says. An excessive focus on compensation and undervaluing of the non-monetary rewards of a career path cause many people to choose unfulfilling jobs.





Global Health Institute

**Stemming the tide:** A health-care worker in Tanzania readies an HIV test.

## HIV TESTING

# Analyzing Preferences in Tanzania

**H**aving HIV testing close to one's home makes in more likely that one will get tested. At the same time, HIV preferences vary greatly across individuals, according to new research conducted by Duke Global Health Institute faculty members. The findings could help inform how HIV-testing services are adapted and expanded across sub-Saharan Africa.

The researchers surveyed nearly 500 adults in an urban setting of Northern Tanzania and found that about half of individuals preferred testing at home. This runs counter to other studies suggesting that home-based testing is largely acceptable in

**Preferred testing methods are particularly relevant, because oral test kits could soon be made available in Tanzania.**

similar settings. Study participants also preferred finger pricks and venipuncture tests over oral swabs. Preferred testing methods are particularly relevant, because oral test kits could soon be made available in Tanzania. Factors like on-site availability of HIV medications and the availability of testing on weekends were

less important to participants.

Other promising findings reveal that adults increasingly are getting tested more than once to confirm their negative status and, in more cases, are sharing results with their partner or spouse. The study also indicates that confidentiality is less important than previously thought, possibly signaling a shift in stigma about testing. Only a third of the participants preferred to keep their HIV test confidential.

Little is known about the HIV-testing preferences of adults in high-risk settings, including in sub-Saharan Africa. The Duke study is the first to use a survey tool called

Discrete Choice Experiments to understand HIV-testing preferences in Africa.

“Understanding population preferences is a critical step for increasing the uptake of HIV testing,” says Nathan Thielman, associate professor of medicine and global health. “Because HIV treatment reduces transmission, widespread HIV testing and treatment has tremendous potential to diminish the epidemic.”

## SOCIAL MEDIA | MEDICINE

# Post Helps Diagnose

**B**y combining the modern tools of gene sequencing and social media, a team of researchers has confirmed the identification of a new genetic disorder that causes severe impairments in children.

The new disease, called NGLY1 deficiency, is reported online in *Genetics in Medicine*, the journal of the American College of Genetics and Genomics. The study describes the disease in eight patients, confirming the work of Duke Medicine scientists who originally identified the genetic mutation in a single young patient in 2012.

Children with the genetic mutation have a distinctive inability to produce tears when they cry, but also have movement disorders, developmental delays, and liver problems. The genetic defect is so rare that without social media, the eight affected children would have remained unknown to one another and to scientists, but instead were connected within months.

“Because of the unusual clinical presentations—notably the absence of tears, along with liver abnormalities—parents of other affected children in distant places recognized these features when they read social-media posts by the original family,” says co-lead author Vandana Shashi, a medical geneticist at Duke. “This enabled other children to be quickly identified and diagnosed.”

Duke researchers and scientists across two continents worked to sequence the entire genomes and exomes (DNA transcribed to RNA) of the individual patients, revealing the newly identified genetic defect that was shared among them all. How NGLY1 causes the neurological findings is still unknown. The team now is focused on finding potential therapies to treat the condition and on identifying additional disorders that might be related.

# Q&A

## MORE STRATEGIC, MORE SELF-CONFIDENT

The magazine talked with **Peter Lange** as he was preparing to step down after fifteen years as provost; he's the longest-serving provost in Duke history.

**Is Duke good at risk-taking?**

I think we're pretty good; compared to most of our peers, we're pretty risk-accepting. Schools like ours have not only an opportunity but almost an obligation to take risks, to experiment in our academic work.

**Any university has to manage the power balance between central administration and the various units.**

**How does that balance feel here?**

It generally feels about right. There are strategic plans that set basic values and priorities for the university as a whole. Those are bought into by a group of deans who are hired into that culture, even as their hiring is filtered through the specific needs of their schools.

**You've talked about higher education shifting more and more to a winners-take-all environment.**

**What do you mean by that?**

There's kind of a flight to quality. Everybody wants to be at the best institutions. And the best institutions are soaking up more and more of the total resources. Think back to 2008 and the beginning of the economic downturn. A lot of people said, "This is going to be bad for the elite private universities because they cost so much." Well, of course that's exactly not

what happened. Applications went up substantially. The sense was, "If I want to get that edge in a much tighter economy, I've got to have that combination of education, reputation, and recognition that comes with going to a place like Duke."

**You've identified Duke's core qualities as interdisciplinarity, global reach, knowledge in service to society, and engagement.**

**But they're not unique to Duke, are they?**

They're not unique, but they're pretty distinctive in combination. It's important to recognize that these are qualities that we've built up over a sustained period. Interdisciplinarity we've been working on since the late 1980s; our global strategy, since the early 1990s; knowledge in service to society, since the early 2000s and especially since the beginning of President Brodhead's time in office. And there's the same sustained period of attention around a more engaged and rigorous undergraduate education.

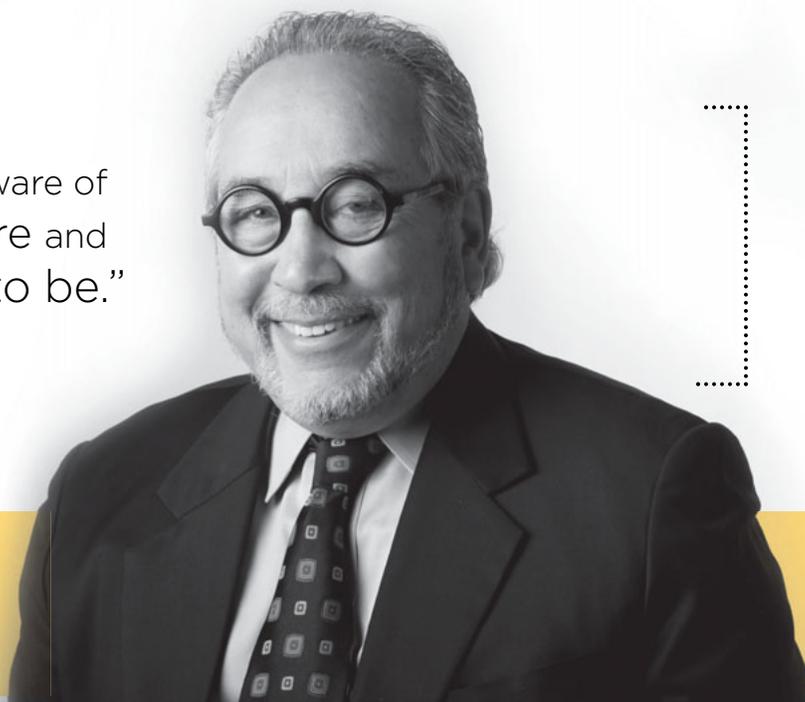
**With all that sustained attention, has Duke also become more self-confident?**

I think that's one of the big changes over the past fifteen years. Fifteen years ago, we were much more other-directed; we had the joke about Harvard as the Duke of the North. I mean, we were looking there all the time; it was our reference point. Now we're much more aware of what we are and what we want to be.

**Faculty growth and renewal is one of your hallmarks. Is that process now slowing with fewer resources and a lower rate of retirement?**

The student-faculty ratio in Arts & Sciences has fallen to about eight-to-one. Greater faculty numbers just to keep driving down that ratio doesn't make a lot of sense anymore. We had a period of fantastic revenue growth—5 percent a year. In a growth period of 3 to 4 percent, you've got to be more selective. It's not a grim scene; it's just a little tighter. The faculty-renewal issue is going to be different across schools. Some schools have room to grow and the resources to do it. Some schools have room to grow, but don't have the resources to do it. Some schools don't need to grow but may want to put greater support into the faculty who are here.

“Now, we’re much more aware of what we are and what we want to be.”



Chris Hildreth

**One initiative you’re identified with is Duke Kunshan University. What do you hope to see there in, say, ten years?**

I think DKU will be a vibrant, innovative, culturally and educationally important initiative in China. It will contribute to the reputation of Duke, to the strength of Duke. A serious presence in China will enable us to recruit outstanding students, to recruit outstanding faculty both to DKU and back to Duke. It will give us a site for the engagement of our faculty in research areas in which China is going to be a very important player—energy, environment, health. And we’ll be able to provide our students with a base for global experience.

**I think you’d agree that it’s been a complicated path to DKU. Is there anything we might have done differently?**

There was a stretch when we got a little too far out in front of the faculty, and we had to repair that. I think we underestimated the time it would take to work our way through the Chinese administrative process. But assuming that over a reasonable period we achieve our goals, it will have been worth it. I always try to ask what it would be like if a Chinese university wanted to create a new

campus in the U.S. They’d have to deal with SACS [Southern Association of Colleges and Schools], the Department of Education, the Department of Commerce, and who knows what else. So you always have to have a little perspective.

**Even as Duke has a physical presence in China, do you see a higher Duke profile virtually through MOOCs [massive open online courses]?**

I don’t think MOOCs are going to be a critical element of a Duke education. But flipped courses, more use of online materials, collaboration with other universities around things you can’t deliver in your own curriculum—those things are going to expand in a substantial way.

**How have you spent your time as provost, and has that changed?**

The first two or three years, you’re making yourself known to everyone. I understood my role to be building a team and a culture, and that takes a lot of effort to start up. We hadn’t done a strategic plan in a while; strategic planning was a big thing. And the downturn certainly was a big thing. All of a sudden I have to go to every school and explain how the budget is going to work, what

their constraints are going to be, how they might adjust but still sustain their strategic priorities.

**How many meetings have you been part of in a typical week?**

Here’s a typical five-day period, and it has forty-six appointments. I carry this little card with me; it has my appointments for the day. There are non-back-of-the-card days, when you can get everything on one side, and back-of-the-card days. There are a lot of back-of-the-card days.

**What are you going to miss most, and what are you going to miss least about the job?**

The way I’ve thought about my transition is that it’s going to take me a while to figure out what it’s like not to be provost. I love my job, and knowing what I’m going to miss most and going to miss least will sort of emerge. Ask me that question in nine months.

—Robert J. Bliwise



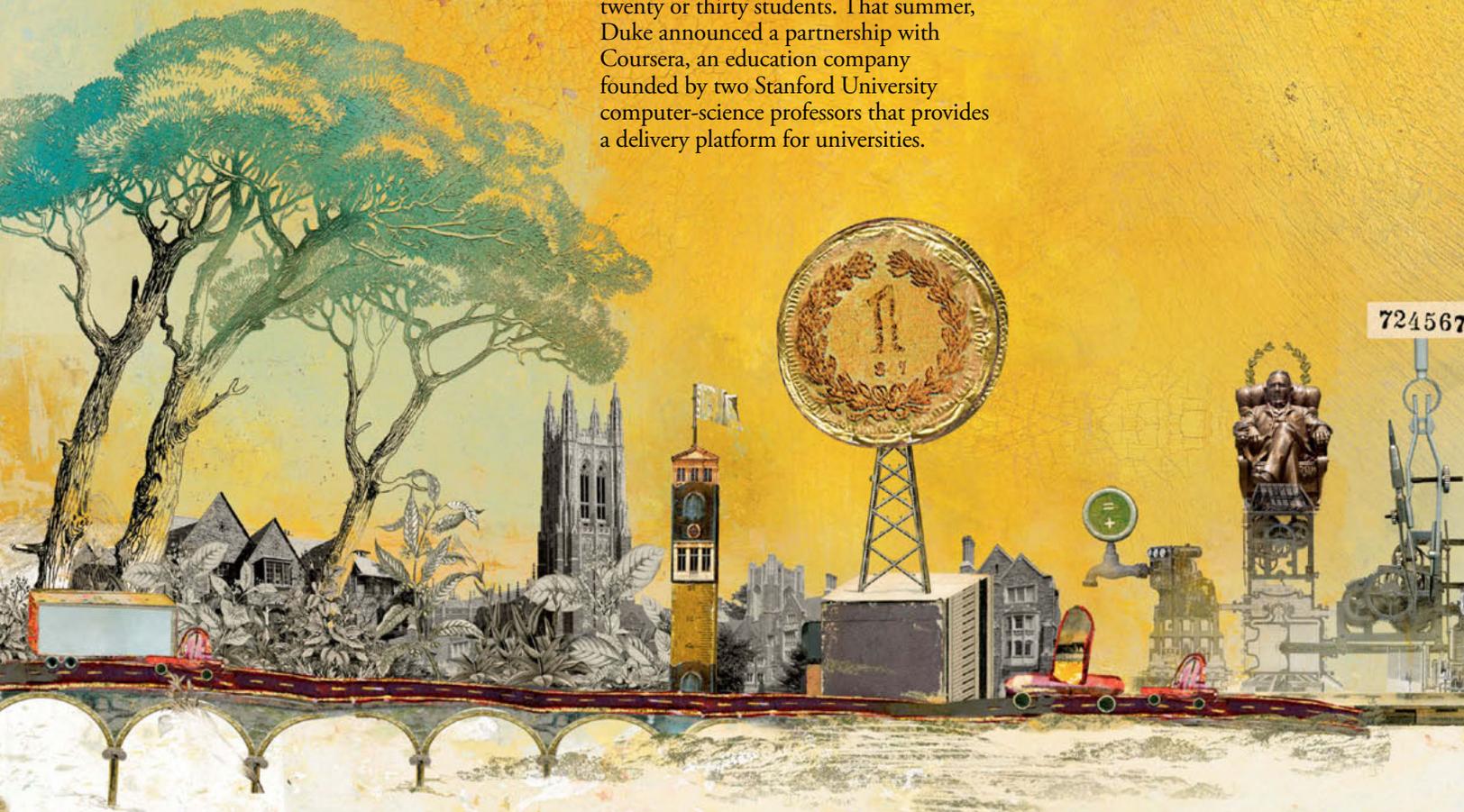
# MO|OC U?

There are massive questions around massive open online courses. Will they challenge the resilience and relevance of major research universities like Duke?

By Robert J. Bliwise • Illustrations by Bruno Mallart

I've been welcomed officially into a parallel universe. It's called "Bioelectricity: A Quantitative Approach," which embraces biology, my certifiably worst subject in college; electricity, a force I consider semi-mystical and rather scary; and quantitative thinking, which is my least familiar thinking.

"Bioelectricity" is an offering in the Duke roster of MOOCs, or massive open online courses. It's an eight-week course, first launched in September 2012—a spinoff of what biomedical engineering professor Roger Barr '64, Ph.D. '68 has been teaching at Duke for more than twenty years, typically to no more than twenty or thirty students. That summer, Duke announced a partnership with Coursera, an education company founded by two Stanford University computer-science professors that provides a delivery platform for universities.



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In 2012-13, Coursera offered thirteen Duke-originated courses; this academic year, the number is twenty.

Mastering “Bioelectricity” wouldn’t entitle me to Duke credits, but only to a certificate. Just what I would get out of it, it turns out, would depend a lot on what I would put into it; in that sense, it’s not unlike a college education.

As I took the virtual plunge, I was asked to project how many of the lecture videos I would be watching and how many assignments and quizzes I would complete. I also was asked to sign an honor code, affirming that the answers on homework and quizzes would be my own and that I wouldn’t share those answers with anyone else.

From there, Barr, or his videotaped self, was the low-key but affable star in the bioelectrical universe. Watching the introductory video, I couldn’t help fixating on Barr’s vibrant necktie, with its romping, intertwined, brilliantly colored Keith Haring-type figures. Some of the lectures that followed took me back to those difficult days in the biology lab, where I was a dangerous presence around delicate equipment and small animals alike. But I was lured by other topics—a brief history

of the debate on whether electricity in biological systems resembles electricity in the physical world, a Confucian-influenced discourse on the slippery task of assigning names to abstract concepts. A dead alligator is passive, Barr told us; a live alligator can be passive, but don’t count on it.

Some observers of higher education are anything but passive, if not alligator-ag-

gressive, around MOOCs—as in “The MOOC Racket,” an essay published in *Slate* last July. Private companies, university administrators, and politicians are “already planning an all-MOOC future for most of tomorrow’s college students,” asserted the writer, Jonathan Rees, a history professor at Colorado State University-Pueblo. “Unlike today’s MOOC participants, these future students will have to pay for access to them. Only the most privileged students will still have

in-person access to highly qualified professors.” Blogging for *Forbes*, Mike Lenox, who taught at Duke for six years and is now a professor at the University of Virginia’s Darden School of Business, didn’t sketch such a restrictive MOOC future. But he did predict a disruptive impact. (Though not to the extent of Sebastian Thrun, a Stanford research professor, Google fel-

**“Those who dismiss MOOCs and online education in general as inferior to residential education are missing the point and may be sealing their fate.”**

low, and cofounder of an online education startup. He’s predicted that in fifty years the world will have only ten universities—maybe the University of Google among them, one skeptic suggested sardonically.) Online education is improving quickly, Lenox noted, including the production values of video lectures, which have evolved from placing a camera in the back of the classroom to “slickly produced videos” that feature “animation and high-end graphics.” On-



line education isn't a perfect substitute for residential education, he said. But it's emerging as a low-cost alternative that, at a certain price point and quality level, will grab market share from traditional residential-based education.

"In the same way that General Motors was remiss to dismiss the entry by Japanese upstarts such as Honda and Toyota into the U.S. auto market in the 1970s as cheap substitutes, those who dismiss MOOCs and online education in general as inferior to residential education are missing the point and may be sealing their fate. In the same way that a KIA is not a Porsche, online education is not at the same level of quality as residential education. This will likely not matter. As long as there is a price differential, some students will choose the lesser, cheaper option. KIA sells far more cars than Porsche."

Peter Lange, Duke's provost for the past fifteen years, doesn't talk about Duke's Porsche-like status in a field of KIAs. He does agree that MOOCs aren't poised to threaten universities like Duke that enjoy a sort of rarified standing. When I sat down with him shortly before his departure from the position, he told

me that MOOCs can spark teaching innovation, spur collaborations with other universities, and extend Duke's global reach—all for a relatively modest investment. But the idea of trying to replicate, in cyberspace, a full-fledged Duke experience? That's nowhere on his screen.

A few months before the *Slate* piece appeared, the reliably wry A.J. Jacobs, editor at large at *Esquire*, was in the MOOC mode for a *New York Times* essay, "Two Cheers for Web U!" Jacobs' version of Web U came from eleven online courses, including "Bioelectricity" and another Duke-based course, on evolution, taught by biology professor Mohamed Noor. Overall he found the instructors "impressive" and even "entertaining," but also "only slightly more accessible than the pope or Thomas Pynchon." Student-to-student interaction was largely through online discussion boards—only a poor imitation of "late-night dorm-room discussions at my non-virtual college."

An analysis of the first offering of "Bioelectricity," from Duke's Center for Instructional Technology (CIT), suggests that MOOCs can provide an avenue to engagement. "Bioelectricity" discussion

threads were carried out in Russian, Greek, Portuguese, and Romanian, as well as English. Students also built a course Wiki, essentially a community website, with lecture notes, tips of their own for the exercises, and supplementary content. Some joined a Facebook study group. On the discussion boards, I found everything from self-introductions ("My name is Shraddha. I am from India. I am studying in Canada in molecular biology and transgenics"), to meeting-up invitations ("Are there some Italians with who is possible have some elucidations?"), to problem-solving tips ("I think there are a couple of threads where people solve that differential equation").

Still those avenues to engagement may seem clunky compared with the conventions of the classroom (and the dorm room). And that's not the only MOOC-taking aspect that's clunky. Students need to feel validated—or at least expect to be evaluated. I asked Duke's David Schanzer, associate professor of the practice at the Sanford School, about grading in the MOOC universe. Early on, Schanzer, whose MOOC is on the subject of 9/11, invited students to post essays on the course discussion board and picked a few

to illustrate a peer-grading rubric: Did the essay have a main theme? Was it well-organized? Did it lead to a clear recommendation? With each assignment, then, you'd get five randomly assigned people to grade. In turn, those five people would grade you. To successfully complete the course, you'd have to complete the grading as well as the assignments.

Whether or not they thread themselves into discussions and submit themselves to grading, many who join a MOOC don't stick around long. Earlier this year, a survey of MOOCs offered through a Harvard-MIT consortium found that just 5 percent of all registrants earned a certificate of completion; 35 percent never viewed any of the course materials. For "Bioelectricity," a total of more than 12,000 students initially enrolled, from more than 100 countries, at least ten pre-college students among them. The numbers dropped from there: 3,658 took a quiz during the course, 346 attempted the final exam, and 313 earned a certificate.

From my own MOOC-ing, I wasn't enamored of a certificate or even concerned about replicating the classroom. And that's pretty typical, as the Harvard-MIT researchers told *The Chronicle of Higher Education*. Many are happy enough to be samplers of the material—as I was happy enough to plug into "Bioelectricity."

According to the Duke CIT analysis, student interests typically can be collapsed into categories that include, for starters, lifelong learning or the specific subject matter. Duke's Denise Comer surveyed her students' motivations for her writing-composition MOOC: "They wanted to have writing make a deeper impact in their lives in whatever way. Sometimes it was career advancement. Sometimes it was creative aspirations. Sometimes it was just a lifelong attitude toward learning and growing. And English-language facility was something a lot of people were interested in."

On a visit to Durham, David Johnston Ph.D. '04, assistant professor of the practice at the Marine Lab, was pretty sure students would willingly ride the currents

**"It's so very different from talking to students, being able to look at their faces and understand whether you're getting through to them."**



of his new “Marine Megafauna” MOOC, populated as it is with sea turtles, whales, dolphins, seals, penguins, sharks, and giant squid: “I think people have a general fascination with the ocean. The fact that we’re talking about the most beautiful, compelling ocean creatures means, I hope, that we’ll attract a good number of people and keep them coming back. We try to use as much multimedia as possible, so that students feel that they’re kind of embedded in the situation.”

Even if MOOC takers don’t want to be embedded in the ocean, they may want to be embedded in an experience that promises fun, entertainment, social experience, and intellectual stimulation, says Duke’s CIT. They may be drawn to exploring online education generally. Or they may be creatures of convenience, perhaps having faced barriers to traditional education options. A.J. Jacobs noted that he consumed MOOCs while indulging in a meal and enduring time on a treadmill.

They may not take to a treadmill, but Duke professors told me they’ve spent lots of energy working up their MOOCs. More than 420 hours were required on Barr’s part to build and deliver the “Bioelectricity” course, plus at least 200 hours for the technical team. Comer told me that for some eight months, her writing-oriented MOOC “occupied almost every waking thought.”

According to Lynne O’Brien, recently named associate vice provost for digital and online education initiatives, faculty members have committed from 220 hours to 870 hours for the initial course development—less in the second offering, and much less for additional re-offerings. “I think it is important to consider that creation of a brand-new, ambitious campus course also takes a lot of time and, similarly, gets easier over time as the course is re-offered from year to year.”

O’Brien filled me in on the infrastructure that underlies Duke MOOCs. Duke offers a \$10,000 “incentive pay-

ment” for MOOC instructors to apply to a discretionary account; there’s no reduction in course load or teaching schedule. It also provides the project team that helped fire up “Bioelectricity”: an academic technology consultant to advise on course design and pedagogy; an online course associate to help in creating and uploading material; a videographer and video editor to help create materials and consult on video strategies (Duke also will provide a loaner kit of video camera, writing tablet, and computer loaded with software for instructors who want to create their own video); a copyright assistant to review and help with copyright clearance; a librarian to help in finding open-access materials for the course; and assessment consultants.

It’s not just a matter of devoting many hours to preparation; it’s also confronting the fact that virtual teaching is different teaching. “It was a little intimidating at first,” Johnston told me. “It was definitely nerve-racking to think about putting

## Into Africa, the MOOC Way

Duke’s John Bartlett has long been interested in Africa. He co-chairs the university’s Africa initiative. Bartlett is professor of medicine, global health, and nursing at Duke University Medical Center. His MOOC-to-come is an example of how the MOOC world is refining and re-defining itself: This MOOC is meant to be distributed openly and across a wide swath; it’s also meant to serve a constituency with a particular interest and a strong need to know. And it will have the online equivalent of lots of bells and whistles.

Just days before heading back for about two months to Tanzania, where he has a long record researching the treatment and complications of HIV infection, Bartlett talked about “Tropical Parasitol-

ogy: Worms, Protozoa, Vectors, and Human Disease,” debuting as a MOOC in October. As Durham was being blanketed with snow, he was meeting with colleagues from Kilimanjaro Christian Medical University College (KCMUC), with whom he’ll be collaborating on the MOOC—and in his research program. Over eight weeks, he and his colleagues will look at parasites and associated diseases—how a particular disease takes hold, how it’s spread, how it’s treated, how it’s prevented.

Bartlett began by telling me that he sees MOOCs as having plenty of educational potential in Africa. Right now there are some 200 million youths in Africa, a number expected to double by 2045. Just 5 percent are enrolled in higher education. In the first year of Duke’s MOOCs

experience, some 18,000 enrollments came from Africa, an indicator of a continent that, more and more, has an Internet-infused landscape. The highest African enrollment was for a course in health-care innovation; Denise Comer’s version of English composition was almost as popular in Africa.

The initial target audience will be students at KCMUC, ranging from medical and nursing students to graduate students in public health and parasitology and entomology: “The most important thing is for it to be a local success.” The plan beyond that is to expand into other audiences in East Africa and finally to reach others across the continent and North America and Europe. He’ll be encouraging the use of the MOOC by Duke medical, nursing, physi-

cian’s-assistant, and global-health students.

The teaching team will produce recorded video lectures, but for Bartlett, the most exciting aspect is the opportunity to film in the field. They’ll be visiting malaria-research stations, where they’ll demonstrate mosquito trapping and such malaria-control methods as indoor spraying and putting up bed nets. They’ll go out to rice paddies where the fresh water is replete with snail, which serve as the intermediate host for schistosomiasis. They’ll take in areas endemic for another parasitic disease, filariasis; in areas with cases of elephantiasis, they’ll discuss the transmission of the disease.

“I mean,” he said, “these are the kinds of things that are just going to be fantastic.”

—Robert J. Bliwise



yourself out in front of thousands and thousands of people. A lot of it, for me, was learning how to talk to the camera. It's so very different from talking to students, being able to look at their faces and understand whether you're getting through to them."

MOOCs can compel instructors to stretch themselves beyond comfort with the camera, as I was reminded by Mine Çetinkaya-Rundel, assistant professor of the practice in Duke's statistics department. She was preparing her "Data Analysis and Statistical Inference" MOOC for release this spring. "One thing I do in my on-campus course, where the target audience is very well-defined, is bring in data sets and examples that I know are inherently interesting to them. If you're showing a histogram with the number of basketball games attended, you're going to have a lot of Duke students perking up and listening. When the target audience is this huge question mark, it's a little harder. So I've been trying to swap out some of my examples with some more international data sets. The U.S. is very good at collecting and

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## Parallel Paths to Reinvention



This past winter, Cathy Davidson embarked on a two-track teaching experiment: She taught a six-week MOOC on the future of higher education to some 18,000 registered participants, who delved deeply into questions of how to reshape the craft of teaching and the contours of a curriculum. And she led a campus-based class on the same subject, with students from Duke, the University of North Carolina at Chapel Hill, and North Carolina State University.

Students in the real-world classroom read about the history of higher education to understand "how the status quo came to be this way," as she put it, and "in order to help us to see a way to changing it." They worked in small teams to help facilitate the MOOC; posted online what they were learning; published their insights on the process in

weekly blog posts through *The Chronicle of Higher Education*; met up online with peers at other universities who were being taught in similar classes; and, again working in teams, offered reconceived models of higher education. For that final project, they mulled over a series of questions: What is a university for? Whom does it serve? What are the admission requirements? What are the graduation requirements? How do we measure learning?

Davidson gave the MOOC a whimsical if sprawling title: "The History and Future of (Mostly) Higher Education: Or, How We Can Unlearn Our Old Patterns and Relearn for a Happier, More Productive, Ethical, and Socially Engaged Future." Long interested in higher-education innovation, she has been a professor of interdisciplinary studies and of English at Duke; she also has

served as vice provost for interdisciplinary studies.

Writing in *The Chronicle of Higher Education*, Davidson observed that while higher education may not be resistant to change, "those making change often feel solitary within their departments, disciplines, or institutions." She also noted that she had "two quite different kinds of motivations" for signing up to teach a MOOC. "First, I have so many reservations about MOOCs as pedagogy and as [a] business model that I wanted to learn more about how they worked and didn't work for myself, away from the obsessive MOOC hype and hysteria. Second, I want to see if it was possible to use the 'massive' aspect of MOOCs to galvanize a significant movement on behalf of educational change."

Davidson is leaving Duke for

the Graduate Center of the City University of New York, where she will hold appointments in the English Ph.D. program and direct CUNY's Futures Initiative. That move prompted some discussion of the intellectual-property dimensions of MOOCing.

"I own my own course content," Davidson told *Inside Higher Education*. "No one at Duke (or anywhere) can teach with my videos without my permission. I can reuse my videos and course materials at CUNY, but need to acknowledge that they were produced at Duke."

Duke's intellectual-property policy, which includes a section on "Internet courseware," grants faculty members license "to make all traditional, customary, or reasonable academic uses of course content," whether they are "teaching on campus, off campus, or online." —RJB

releasing certain types of data. That's not necessarily the case internationally. It's either that they don't release it or it's not accessible."



Many of Duke's MOOC instructors entered into the arrangement wanting to blend the virtual and the traditional classrooms. Schanzer, the 9/11 instructor, talked to me about the process of creating a video on how to write a policy memo. He dedicated a week to exploring in some depth the teachings of Islam, a topic for which he interviewed Duke's Muslim chaplain, Abdullah Antepi. He also brought in guest experts, including journalist Peter Bergen, who has written extensively about Osama bin Laden. All of those online elements are now re-sources for Schanzer's Duke students.



For Çetinkaya-Rundel, her own MOOC videos, in which she often works through statistical problems, help "flip" the classroom—that is, shift the

had the highest U.S.-based enrollment of any Duke MOOC. (Anticipating a flood of feedback from the ideological fringes, he included in his first week a lecture he called "Not a Place for Conspiracy Theories.") Still, in the virtual-learning sphere, "you do get a flavor of both informed and uninformed anti-Americanism—people who are certainly willing to be highly critical of U.S. actions and interventions around the world, in a pretty unrestrained fashion."

And Comer, assistant professor of the practice and director of first-year writing with Duke's Thompson Writing Program, wanted to see whether new technology could deliver a classic concern of the classroom—writing instruction. She told me she hadn't even heard of MOOCs until the summer of 2012, when Barr talked with her about including a writing component for "Bioelectricity." Could she conceive her own MOOC, one that would make writing electric? Could she encourage



## Many MOOC instructors want to blend the virtual and the traditional classrooms. Others are simply drawn to expanding their teaching universe.

basis of homework and the work of the classroom. Any meaningful method to hook students outside class "frees up class time for me to do more activity-based stuff with them," she told me. "I think that's when they're actually engaging with each other and with me, as opposed to listening to me lecture."

Maybe more than anything else, I found that faculty members are drawn to MOOCs because, well, teachers are drawn to expanding their teaching universe. Çetinkaya-Rundel talked about building a knowledge-base that—across boundaries—is basic to smart living. "Even in the U.S., until quite recently, statistics education wasn't even part of the common-core education. I'm from Turkey. In high school, we had a pretty rigorous math curriculum, but I don't remember doing statistics at all. Statistics at all levels of schooling is just not widely taught."

Schanzer told me he was disappointed that his MOOC, in its first version, didn't penetrate deeply into Muslim-majority countries; he



people around the world to think about themselves as writers?

A listserv populated by writing professionals gave her some pushback. "One of the main concerns was that people who are not experts in writing studies would see MOOCs as an opportunity to eliminate first-year writing on campuses." The other, somewhat contrary complaint was that "people can't actually teach writing in a MOOC." Well, Comer would answer, it's just that you can't teach writing—or find the "interactive space," as she put it—in the same way. The MOOC did foster connections and community-building around writing, she found. "It just wasn't necessarily there between me and the students so much as between the students themselves. And that's the magic of MOOCs."

There is, of course, that magical, inexplicable, and hardly reproducible force linking instructors and students in physical space. Physical space: It's a value that pops up in the most recent Freshman Survey, an annual undertaking



from the University of California at Los Angeles. Nationally just 3 percent of freshmen at private universities said there is "a very good chance" they will enroll in a fully online course, even though most have used online instructional materials on their own time. MOOCs seem to find their meaning in supplementing, not supplanting.

In late March, I sat in on the faculty's Academic Council as Duke's president, Richard H. Brodhead, give his annual address. Brodhead didn't explicitly mention MOOCs; what he did mention—"the heart of the ideal of residential education"—testified to the virtues of a non-virtual environment. He celebrated a campus community of "engaged, spirited, intelligent people" who stretch and inspire one another "through every encounter, including those marked 'academic,' those we term extracurricular, and those that might be labeled merely 'social.'"

When "everything" can be learned online, he said, "there will still be profound things that can only be learned face to face, by living people interacting with other living people in the fullness of their living humanity." The "vibrant, successful" places, he added, "are ones that offer the richest chance for smart people to collide with each other in person, to bump into and interact with others in a host of unprogrammed ways."

To persist in my programmed pursuit of MOOCs, I signed up for the MOOC from Duke professor of psychology and behavioral economics Dan Ariely Ph.D. '98. His e-mail acknowledgement came quickly: "At some point you signed up for my class, 'A Beginner's Guide to Irrational Behavior.' That means I like you already!" He went on to promise that "the class is going to be a blast, and I'm looking forward to getting started next week."

Irrationally or not, I was enthusiastic about inhabiting an environment that, while probably not the all-encompassing wave of the future, represents part of the future. As with any step into a parallel universe, it promised to take me someplace well worth experiencing. But I probably wouldn't want to park myself there permanently to live—or to learn. ■





THE

WAR

A SENIOR BATTLES HIS WAY TO DISTINCTION.

ARTIST

BY ELIZABETH VAN BROCKLIN  
PHOTOGRAPHY BY LES TODD

**Power stance:**  
Watson raises a bottle of liquor, which he used as a prop to represent one of Zeus' scales, a spear, and a scepter.

**"Nine years,"** the Poet begins intensely, *in media res*. "Fighting on and off, fighting to the wall and back. Greeks win one day, Trojans win the next, like a game of tug-of-war." He pulls at a black rope hung ominously from a scaffold. "And nothing to show for it but *exhaustion, poverty, and loneliness*," he says, articulating each word with a kick to the air.

Barefoot in jeans and an army-green shirt, the Poet roams the stage, haunted by ancient memories and multiple voices. His company includes a forlorn table and chair and a meager scatter of props. Surrounding the stage level on tiered seats, the audience watches in silence, like captivated onlookers at a Greek arena.

Tonight is Phil Watson's solo debut in *An Iliad*, a dramatic staging of Homer's epic poem. Set during the tenth year of the Trojan War, the story delves into themes of wrath, glory, friendship, and prophecy. Although Watson, a double-major in theater and classics, had never performed alone before, he was hell-bent on using *An Iliad* for his senior distinction project. "You have to do things that scare you, or you'll stagnate," he reasons.

**Growing up** in Fort Worth, Texas, Watson loved to play the trumpet. He was especially drawn to the unscripted melodies of jazz. At Duke, he played in the orchestra for student musical productions. One evening, Watson looked up from the pit to the stage and thought, “I could do that.” So began his personal odyssey to a new form of improvisation.

At his first tryout, he didn’t get a callback. He tried again, and this time he got a part. He went on to act in half a dozen plays at Duke, including *Uncle Vanya* and *The Metamorphoses*, and he later codirected *Machinal*. Through one of his advisers, he learned about the teachings of Jerzy Grotowski, a twentieth-century Polish theater director and pioneer of physical theater. In pursuit of this experimental thread, Watson attended an intensive workshop with SITI Company in New York last summer.

Meanwhile, actor and director Kevin Poole ’98 had recently returned to Durham from Boulder, Colorado. In Boulder, he had earned an M.F.A. in theater and contemporary performance at Naropa University, a Buddhist-inspired institution defined by contemplative education. Like Watson, Poole was a former student of SITI and a disciple of experimental theater.

Jody McAuliffe, chair of theater studies, thought Watson and Poole would make a strong team. Poole, however, initially wondered about the ambitious scale of the project. He knew a show like *An Iliad* is usually performed by more seasoned actors. “It’s hard enough to do a one-person show, but to do a one-person show for an hour and forty-five, using a classical text, about battle and war...now, that’s an epic challenge.”

In the end, Watson’s zeal was so contagious Poole agreed to direct him.

**Days before the show**, Watson is dashing around in a tempest of mystical gymnastics. Arms fling, feet stomp, elbows jab. As though possessed by spirits, he whoops in shades of glee, fury, and triumph. While I see the plain black box of the Bryan Center’s Schaefer Theater, Watson reacts to a jungle of imagined obstacles. He swats a swarm of bees, wiggles under a barbed wire fence, and pummels a foe. He is clearly fighting, though who or what is unclear.

The heathen dance is a physical theater technique called *plastiques*. “The whole point behind physical theater is that the mind is weak but the flesh is willing,” he explains afterward, breath heaving, his puckish energy almost palpable. “Basically you get so exhausted that your body has no choice but to just become this unfiltered set of impulses.”

For months, Watson trained for *An Iliad* under Poole’s direction. They drew on psychophysical, spatial, and vocal elements from Polish and Japanese theater, along with meditation techniques that Poole picked up at Naropa. As Watson learned to command his body and mind, he became what he terms an “acrobat of the heart.” He describes the process as hanging in midair over the side of a cliff, held back from total ruin by a single belt loop.

Sometimes, he dove too far into the abyss. One day

after practice, he discovered that by making a simple stabbing motion, a strange feeling struck him square in the chest. It was pure, smoldering rage: the kind that causes Achilles to desecrate the corpse of Hector or that plunges Patroclus into a

murderous spree. Panicking, he fled the theater and ran outside to lie on the cold ground. He felt like he was losing his mind.

“You can only kill so many people in your imagination before you start to go a little crazy.”

**“You can only kill so many people in your imagination before you start to go a little crazy.”**



**Staging war:** Before each performance, Watson shadowboxes an invisible opponent backstage. He says the ritual readies him “for a fight with words, not with fists.”



**Watson's spiraling** was not confined to theater practice. After applying to and being rejected by several M.F.A. programs, he confronted the reality that certain programs prefer applicants with “real-world experience.” With graduate

school delayed, he worried about taking a year off, about the uncertainty and lack of structure. What would he do instead? Would he fall behind and not be able to catch up?

Meanwhile, eighteen-hour days of classwork and re-

hearsals were beginning to fray his sanity. Word by word, he wrestled with a forty-five-page script composed of both modern English and Homeric verse. He was sleeping too little and exercising too much. He began losing weight, an un-

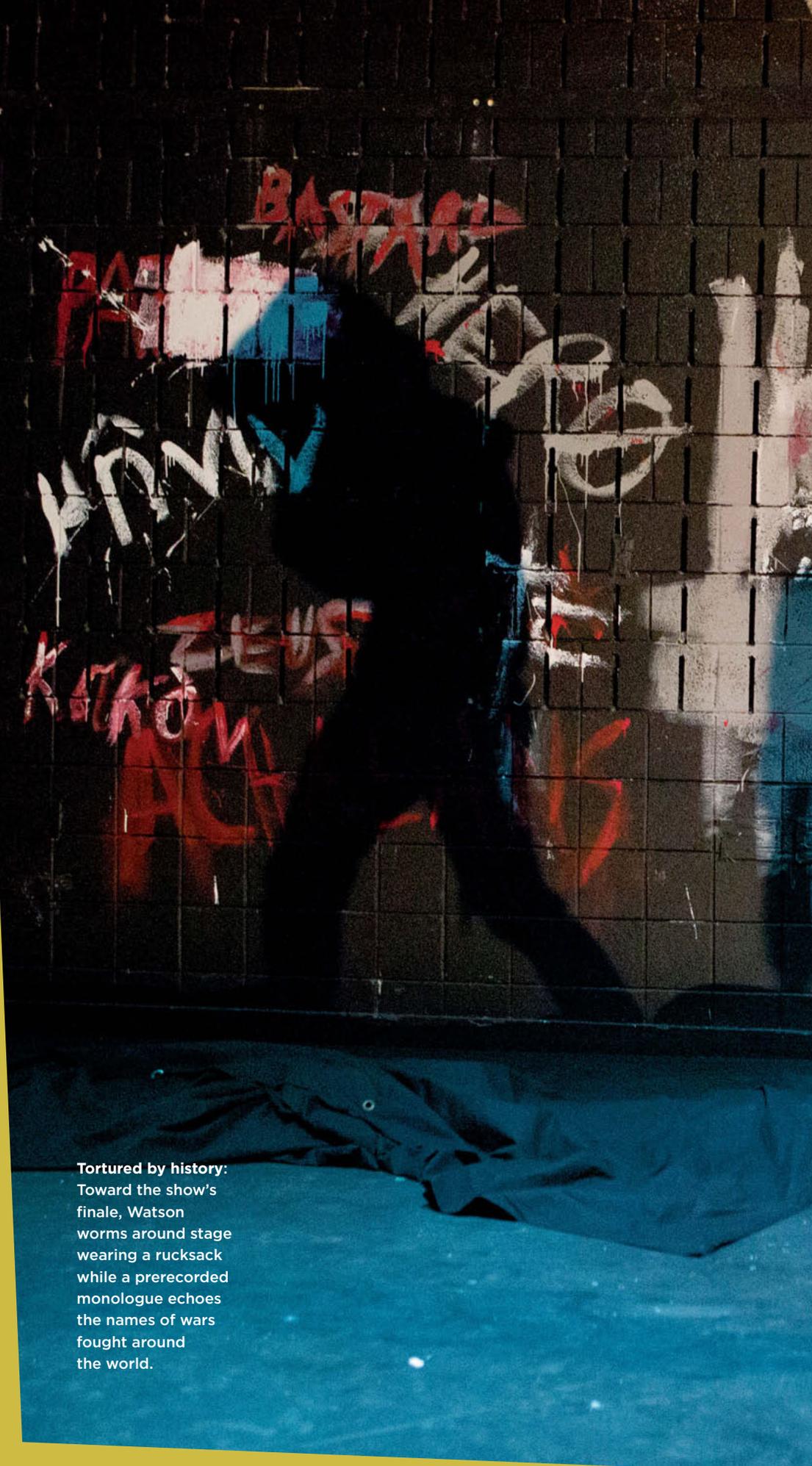
welcome result given his already slender build. The stress began to manifest in frequent panic attacks. He felt like he had to fight just to relax—enough to read a book, to breathe.

**Sitting in the audience** on opening night, I breathe the salty breeze from the gray Aegean Sea. I hear the coughing of plague-stricken soldiers and marvel at the brilliant shield forged by Hephaestus, the crippled fire god. And I feel awash in the overwhelming sorrow and guilt of Achilles at the death of his best friend.

Following the Gro-towskian concept of “poor theater”—limited use of scenery, costumes, and props—Watson summons the drama through words and movement. He also plays fourteen characters, each with a distinct accent, identity, and destiny.

In one scene, he conjures a boisterous crowd of deities on Mount Olympus, cheering and meddling from the tabletop. Later, he jumps back and forth from a worried wife cradling her baby to a proud husband donning his heavy helmet. Watson shape-shifts from peacekeeper to war-monger; from assailant to victim; from haughty Helen to mischievous Hermes. Human, god, muse—a Greek chorus springing from a single source.

While rehearsing, Watson says he learned to appreciate the ageless trauma of war that continues to afflict today’s soldiers. “I got the faintest glimmer of what it takes to kill another person, what it takes to live every day in a kill or be killed, flight or fight mode. The thought of living in those circumstances for the length of a tour of duty...” he trails off. “It’s no wonder people



**Tortured by history:** Toward the show’s finale, Watson worms around stage wearing a rucksack while a prerecorded monologue echoes the names of wars fought around the world.



are coming back disturbed. I could barely take it for two hours, and that was the tiniest approximation of what they experience daily.”

**A week after** the performance, I find Watson in the Bryan Center. He’s unshaven and pale, as though he’s seen a ghost—or maybe several. “The struggle doesn’t end,” he tells me. The story of *An Iliad*—and the work to prepare and perform it—still plays through his mind. He seems empathetic to, and slightly weighed down by, the universe of individuals struggling through life around him.

But he also exudes a certain calm. In training for the show, Watson says he became a “weird pseudo-yogi character.” Whereas before the play, certain disappointments could send him “seething for days,” now he tries to embody an ethos of acceptance. “I can’t change what’s happened; all I can do is let it influence me for the better,” he says. Perhaps the change is due to the soothsayer’s breathing rituals he learned from Poole, the body-mind control from Grotowski, or the ability to recover one’s humanity from Achilles.

At the end of *An Iliad*, in the wake of ungodly acts of transgression, Achilles returns Hector’s corpse to his father and redeems himself. Spirits shaken, defenses rattled, Watson broke into fourteen fragments and forged himself anew.

“There’s something to be gained by going to a place that’s completely foreign, or disarming, or terrifying to you,” he says. “Half of the work is about getting there, and half of the work is about getting back in one piece.” ■

# Change Agents

Five veterans, five jobs, five different experiences

BY LEWIS BEALE | PHOTOGRAPHY BY CHRIS HILDRETH

They are the Perennials. Not a silky smooth doo-wop group, but the longtime employees who keep Duke running. Year after year they pick up the trash, help with IT problems, make sure club sports are run properly, set schedules for department heads, work the switchboard. Like mid-level workers everywhere, they are the people who keep the wheels turning and the engine running smoothly.

Some have been around since Terry Sanford was university president. All have seen the changes Duke has undergone over the years. They've watched construction boom, students come and go, and Durham become a destination city known for its hip style. They've stayed through it all.

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# Oscar Dantzler

*University housekeeping, at Duke since 1997*

**What he does:** Mop floors, dust, clean, straighten chairs; I keep the building [Duke Chapel] clean.

**Easiest and toughest parts of the job:** The easiest part is meeting the people and being around this building. The toughest part is when my babies, the students, graduate, because I get very attached to them.

**Then and now:** Seeing I am a black American, I actually see more black kids out here now. I'm seeing more Asians, even Hispanics. In that part, I have really seen a difference in my seventeen years.

**The students:** A lot of them just come in to pray and meditate; they might be stressed out. The first thing I ask them: "Do you want to see a minister?" "No." "Then talk to me." And once they talk to me, everything is fine. [They talk about] making friends, being away from home; some of them are from small towns, and it's hard to adjust, and they think they just need to go out here and make friends. And I say, "You're not here to make friends, you're here to get your life started, get an education." And I'm not bragging, but once they meet me, everything goes smoothly, because I tell them, I'm going to keep my eye on you, and if I see you doing something wrong, I'm gonna tell you.

**When not working:** Fishing. Large-mouth bass. I don't eat fish, don't allow them in my house. I'll throw them back. When I was raised up, my mother used to fish all the time. While she was fishing, you knew what you were gonna eat for supper. If any was left over, we ate it for breakfast, and if there was more left over, she put it in a brown bag, and we took it to school for lunch. So, no fish for me. I've had enough fish.





# Alonzo Felder

*IT analyst, Trinity Technology Services, at Duke since 1984*

**How he got the job:**

My wife and I were doing mission work in the Virgin Islands, and a friend had moved to this area. So when we decided to come back to the States, he said, "Why don't you come up to Durham for a two-week vacation and just sort of chill?" I came, liked what I saw, put in an application at HR, drove back home [to St. Petersburg, Florida], got to the driveway, and my mom walks out of the house and says, "Somebody from Duke just called you." I immediately got on the phone, and a woman said she wanted to interview me. And I said, I just drove eighteen hours from North Carolina, is this a real possibility?

And her response was, "I guarantee you if you drive back to North Carolina, it will be worth your while." So I turned around and drove the eighteen hours back, interviewed, and I had the job.

**What he does:** I am the first line of support for all of the users for Duke Global Health. If you're having issues with the purchase, setup, installation of hardware or software, or operation of hardware or software, that help desk comes in. Global Health tries to address health disparities throughout the world. We have affiliates and projects in India, Africa, Asia, and more, and here locally.

**Then and now:** In 1984, '85, up until the '90s, Duke had a feel of almost a mom-and-pop kind of shop. Many of my analyst coworkers had served as babysitters for my small children. We had babysat their kids. We were very much involved in each other's lives. The biggest change I see has been the paradigm shift from "we are family" to "we are cogs in a wheel." I understand it, and I understand the necessity for it, but it doesn't feel the same.

**He's proud of:** My day-to-day helping people. I get a buzz because at the end of the day I can go home and know that I helped you, and you were able to get your work done, so I feel good about it. For me, if I can use my skills to help a project along, then I feel like I'm a part of that project.





# 32

**How he got the job:** I moved to Durham from Kentucky with my wife, who got a research job at Duke. I was teaching middle school in Chapel Hill when a job opened as assistant men's track coach at Duke. (I had been an assistant coach at Western Kentucky University.) In 1984, I became head of women's cross country and track and field, and did that until 1997. It had become a strenuous situation—I was gone on track meets or recruiting thirty-six weekends a year, so I kind of made the decision that it was time to get out of coaching. I was then hired as assistant club sports and recreation director, and I am now director of sports clubs and risk management.

**What he does:** We have 1,300 students participate in sports clubs, thirty-seven different clubs that range from fifteen to 130 members. They come up with the ideas and the money, and I have to make sure they do things properly. I spend maybe two to three hours a day just talking to kids—their dreams for their clubs, how they can manage their clubs, personality problems they're having, how they get kids to commit.

**If you could change anything about Duke:** Duke likes to say it's the best, and I don't think it's really committed to being the best. Duke is sometimes too concerned with the image rather than the reality.

**A particularly good day:** Last year my cycling team won nationals. I worked with the president of that club for four years, and he had gone from a club with four kids to winning nationals. This is what it's all about. Helping these kids get to where they can achieve their dreams.

## Michael Forbes *Sports clubs director, at Duke since 1982*



**Then and now:** More diverse now, less North Carolina. The kids are still bright, intelligent. The biggest change for students I've seen is their quest to be more active and do more things. I think high-school students are looking for a lot more out of college than probably our generation did.



# 31

## Maria Burt

*Financial care counselor, Department of Psychiatry, at Duke since 1983*

**How she got the job:**

I started off working in Wallace Wade [in food service]. I did waitressing, serving, cash management, ordering, stuff like that. We transferred over to the Center for Living, and in '99 they decided to contract out, so I was laid-off status for about a month. Then I applied for a front-desk position here. I had no computer experience, so I was denied that job, but there was an opening for switchboard, and I got my foot in the door here. I started off as a switchboard person, and after a couple of months, I got into the front desk.

**What she does:** Work the switchboard, covering the front desk, covering triage calls for the nurse. Everything that I have my hat in, because I've had four different positions here, I still do. We deal with insurance, getting benefits, check on a bill for [the patients], settling their accounts.

**Then and now:** It's larger now; they're constantly growing. There are two different [computer] systems here; technology has changed. Working in food service, when I first started out, it was like family, like home. It was just a warm atmosphere. Then they did go more business, and I noticed a difference. It went from warm and fuzzy to business, and I saw that.

**What she likes about her job:** I'm learning, which is what I like. You've got to keep the brain going. Whatever I can learn to keep my brain functioning keeps me happy.

**The patients:** When somebody's in a bad mood or had a lot of anxiety, you kind of read them; you want to get them to where they need to be as soon as possible. You can tell when somebody is antsy, upset; you can see the body language, so you try to help people. This is an outpatient clinic; you check them in for their appointments. We have therapy sessions here, group therapy; we also have research. I've also been known to give a hug or two.

**When not working:**

I have a group of friends, we're called The Caribbean Girls, and for the past five years the first trip was to Mexico. We went to Playa del Carmen. We had a friend who had a time share, so we did Mexico, we did the Dominican. Then one of them decided to get married, so we did the Dominican again. I've done that, which I love. I've done cruises; I've done Vegas. Playa del Carmen is a shopping mecca to me. The guys come on the beach, and for a *cerveza* and a slice of pizza, you get bracelets. ■

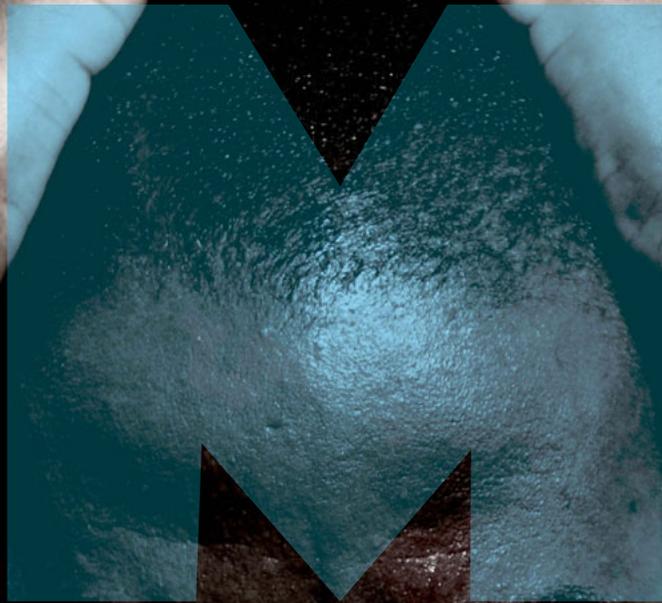
*Beale is a Raleigh-based writer who has worked for newspapers in New York, Los Angeles, and Detroit. His work has appeared in The New York Times, The Los Angeles Times, The Washington Post, USA Weekend, CNN.com, and many other publications and websites.*



Maria Burt, FCM  
DUKE PSYCHIATRY  
FIGHT  
Like a  
Girl

DUKE UNIVERSITY  
HEALTH SYSTEM  
MARIA A  
BURT  
EXP: 12/1/2011

# OF SOUND



The fifth edition of the *Diagnostic and Statistical Manual of Mental Disorders* has generated a lot of **conversation about** how **mental illness** is diagnosed and treated. Some experts say that conversation doesn't go far enough.

# NID

**Jeffrey Swanson**, a professor in the Duke School of Medicine's department of psychiatry and behavioral sciences, offers an analogy for perceptions of mental health. "There's this continuum between night and day, and there's this moment, dusk, where you can't really tell the difference between night and day." Dusk suggests that there is no absolute of either; that it's a question of degree.

Likewise, Swanson says, we all fall along a spectrum of mental health: no one eternally "healthy" and very few irreparably "sick." More likely, we're approaching or just beyond dusk.

He points out that while we have "psychological traits and problems in degree," that's not to suggest there is no categorical difference between, for example, having schizophrenia or not. There is, of course, a distinction. But even in that example, "a person with schizophrenia is not just that. They are a lot of other things, too, as every human individual is."

BY TAYLOR SISK

The impetus for Swanson's observations was the release last May of the *Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition* (DSM-5), which has generated a lot of press around the assertion that the tendency today in psychology is to diagnose too quickly. A number of conditions not previously considered mental-health disorders were added to the DSM-5, and some in the field fear those additions will lead to over-diagnosis and thus over-treatment. Among the disorders that have been added are grief (major depressive disorder) and temper tantrums (disruptive mood dysregulation disorder).

Some experts contend that broader diagnostic parameters allow more people to receive the help they need, while others are concerned about the potential long-term effects of receiving a diagnosis for something that seems expected of everyday life and that eventually will pass. Labels can be indelible, they argue.

Swanson sees validity to both sides of the argument. But he's among those in the mental-health field who would like to see the national conversation about mental-health care ex-

panded to address the fact that millions of people in need are seldom if ever afforded the opportunity of seeing a mental-health professional. After all, the threat of over-diagnosis is confined to those who find help. With those who don't, a public-health crisis ensues, as millions, at various stages along that spectrum, go without care, many of them languishing in emergency rooms, jails, and prisons, untreated and out of sight.

Our collective conversation about mental health seems to lurch from one crisis to the next—from Blacksburg to Newtown—often with the misconception that those living with mental illness are generally more violent and must somehow be contained, and with little offered by way of practical solutions.

Swanson believes the release of DSM-5 could serve as an opportunity for broader discussion of the reality of mental health among us, including the critical need for better treatments and more responsive systems of care. How much daylight is there, really, he asks, between that scary guy who mumbles as he meanders down your city's streets and your next-door neighbor, with refills on his Prozac prescription?

That mental-health spectrum, he says, is defined by factors within the brain and out in the world. Proper care often determines where we land. DSM-5 offers an opportunity to consider that spectrum and how we treat, or don't, mental illness.



## “The brilliance of **Prozac** was that

**T**he *Diagnostic and Statistical Manual of Mental Disorders* is the de facto standard for making a mental-health diagnosis. It serves as a general guideline, says Mehul Mankad '02, an assistant professor in the department of psychiatry and behavioral sciences. Mankad served as a trainer for the DSM-5, educating mental-health-care professionals across North Carolina about changes from the previous edition. The American Psychiatric Association, comprising some 33,000 psychiatric physicians, publishes the manual.

“The DSM system gives all health-care providers a common language,” he says. “If we can name the thing that's in front of us, we can start to do something about it.”

The order that the DSM system has brought to the mental-health profession was much needed. Allen Frances, professor emeritus and former chair of the department of psychiatry and behavioral sciences, has written that prior to the publication of DSM-III, in 1980, psychiatric diagnosis was a “professional embarrassment and cultural backwater,” with the first two editions serving largely as collections of statistics.

“Two clinicians seeing the same patient couldn't agree on a diagnosis,” he says. “If you can't agree on the diagnosis, you can't plan a treatment and you can't do research.”

DSM-III was also hugely popular with the general public. “People are always interested in people,” Frances says. “Part of human nature is to be interested in what makes us tick. It's a huge survival value to be able to understand and predict what other people around you will be doing, and at different points in history there are different ways

of looking at people that are the most popular.”

Before DSM-III, he says, psychoanalysis was the “chic way of understanding human behavior. If you went to a cocktail party on Central Park West in New York, people would be talking about their dreams and what their analyst said. DSM-III changed that almost overnight.” Psychoanalysis is based on techniques, popularized by Sigmund Freud, to bring to the surface childhood memories and unconscious drives, and, Frances says, psychology was an art form. With the publication of DSM-III, diagnoses, more empirically based—number of symptoms and their frequency, severity, and effects—were now at the center of the national discourse on psychiatry and psychology.

Frances chaired the task force that, in 1994, produced DSM-IV. He had been disturbed by what he terms the “diagnostic inflation” of DSM-III and strove to keep changes in the DSM-IV to a minimum. He and his colleagues were largely successful in that regard.

But meanwhile, he says, drug companies were beginning to realize that psychiatric drugs could be their “biggest cash cows,” as witnessed most spectacularly by the introduction of Prozac, in 1987. “The brilliance of Prozac,” he attests, “was that you could package the ill to sell the pill.” Depression, in effect, was the commodity. Drug companies were by then allowed to sell directly to the public, in print and on television and radio.

Frances is today the nation's most vocal critic of DSM-5, having written a book, *Saving Normal: An Insider's Revolt Against Out-of-Control Psychiatric Diagnosis, DSM-5, Big Pharma, and the Medicalization of Ordinary Life*, in which he argues that additions to DSM-5 will contribute



people for seeking mental-health care during those eight weeks. He says that individuals who have experienced a devastating loss may well meet the criteria for major depression and “very well may respond to both medication and psychotherapy, and therefore you can make a case that, yes, they deserve the diagnosis and deserve the treatment for it.”

Blazer notes that doctors don’t just make decisions from a book; they’re balancing clinical judgment with the recognition that people can suffer from depression in the midst of bereavement. What must be factored in, though, is that now that person is carrying a diagnosis of a psychiatric disorder.

Another addition that’s been challenged by mental-health professionals is mild neurocognitive disorder, which includes what could be early signs of dementia. “People are coming to doctors with real complaints, and we need to recognize that they have a disorder even if you can’t pin it down,” says Blazer, who served as chair of the DSM-5 neurocognitive workgroup and was also a member of both the DSM-5 task force and the scientific-review committee.

On the other hand, he adds, “let’s say, for example, these individuals are trying to get into a continuing-care community; they carry a diagnosis of mild cognitive impairment, and therefore the continuing-care community says, ‘Well, we don’t want to take the chance that you de-

## you could package the ill to sell the pill.”

to an ongoing trend of over-diagnosis and the medicalization of expectable human distress. Some of those diagnoses, he says, are along the “fuzzy boundary” with everyday sadness and loss and should remain undiagnosed. Over-diagnosis, he argues, means over-treatment, which translates to overmedication.

“We now have more deaths in emergency rooms from overdoses of prescribed medicine that come from drug companies than street drugs that come from the cartels,” Frances says.

**M**any of Frances’ colleagues share his concerns regarding over-diagnosis in general without agreeing that the additions to DSM-5 will have profound consequences.

“I’ve thought that a lot of the controversy is a little bit overwrought,” says Marvin Swartz ’84, head of the School of Medicine’s social and community psychiatry division. He doesn’t believe physicians and psychiatrists will hasten to prescribe medications for the new diagnoses, suggesting that those diagnoses that fall along Frances’ “fuzzy boundary” will be addressed with caution.

Controversy has followed the removal of the so-called bereavement exclusion. DSM-IV stipulated that a person who has lost a loved one shouldn’t be diagnosed with major depressive disorder within eight weeks of the loss. DSM-5 removes that exclusion.

Dan Blazer HS ’75, the J.P. Gibbons Professor of psychiatry and behavioral sciences, says that because of the exclusion, it seems insurance companies weren’t reimbursing

velop dementia and use up too many of our resources, and so we don’t want to admit you.’ ”

Then there’s the fear that new criteria for attention-deficit hyperactivity disorder, ADHD, will lead to even more diagnoses of that condition. Keith Conners, a professor emeritus of medical psychology and a pioneer in ADHD research, recently told *The New York Times* that he was alarmed by the proliferation of ADHD diagnoses, citing Centers for Disease Control and Prevention data indicating that 15 percent of high-school-age children are diagnosed with the disorder and that 3.5 million children were receiving medication for ADHD, up from 600,000 in 1990.

“The numbers make it look like an epidemic,” Conners said. “Well, it’s not. It’s preposterous. This is a concoction to justify the giving out of medication at unprecedented and unjustifiable levels.”

“I think we’re living in what I sometimes call the Rumpelstiltskin effect,” Blazer says, “and that is we really want to put a name to everything.” In the fairy tale, the queen learns Rumpelstiltskin’s name, and he thereby loses his power over her.

“When you go see a doctor, you want that doctor to be able to tell you, ‘This is what’s wrong with you,’ ” Blazer says. “‘The name of your condition is X, and we can do Y for X.’ That’s just inherent in the way we practice medicine today. It’s very difficult to tell people, ‘I understand you’re suffering; I understand the difficulties you’re going through. You’re under a lot of stress at work. But there’s really no diagnosis for this.’ ”

“People don’t want to hear that.... People want quick solutions.”

**B**ut when we talk about the risks of overdiagnosis, we're talking, of course, about those fortunate enough to see a mental-health professional. The foremost public-health issue, Swartz says, is that perhaps half of all people with serious mental illness are receiving no treatment at all.

Why do so many go untreated? There are a number of reasons, some that can be traced back decades, others of more recent origin. The Community Mental Health Act, passed in 1963, called for the deinstitutionalization of those with mental illness, declaring that we should minimize the "warehousing" of the mentally ill, instead providing them with services within their own communities—a laudable goal. Except that those community-based services were never adequately funded. Shortly before leaving office in 1981, Jimmy Carter signed the Mental Health Systems Act, funding a federal community mental-health centers program, but Ronald Reagan reversed the action.

Insurance discrimination, Swartz says, has played a major role in limiting access to mental-health services, with prohibitive copays and deductibles and utilization-review procedures that make it difficult for those with mental illness to access their benefits.

Another factor has been a shortage in affordable housing. Those living with mental illness are more susceptible to poverty and thus homelessness. And homelessness, Swartz says, leads to victimization and arrest.

Jails and prisons have become de facto mental-health institutions. The Los Angeles County jail holds more individuals with a diagnosed mental illness than any mental-health-care facility in the country and is ill-prepared for the challenge.

A study published in 2010 by the National Sheriffs' Association and the Treatment Advocacy Center reported 8,617 inmates in North Carolina's jails and prisons with a serious mental illness (schizophrenia, bipolar disorder, or major depression) compared to 2,443 patients in all state and private psychiatric hospitals and psychiatric units in general hospitals.

First stop, though, for the uninsured is generally emergency rooms, which become overwhelmed with people who have psychiatric conditions and nowhere else to go. The average wait in an emergency room in North Carolina for a bed in a state psychiatric facility is now more than three days.

"We need to make a more substantial societal commitment to providing treatment to people," Swartz says, "even if they're uninsured."

"The paradox of the story is that we are terribly overtreating people who don't need it, to their individual harm because of all the side effects and stigma, and to society's harm because of this terrific cost," says Frances. "We should be spending this money on things that count," such as treating the severely mentally ill, outpatient treatment within communities, affordable housing, outreach, and education. "We're allocating our resources in the wrong way, and at the same time we're shamefully neglecting people who most need help."

**G**etting a diagnosis when it's an accurate one can be a wonderful moment," Frances says, "because it helps explain what was previously unexplainable; it helps to reduce a sense of being uniquely damned, and it gives hope that your problems can be dealt with and understood.

"But if the diagnosis is inaccurate—and sometimes even if it's accurate—it can carry stigma, people looking at you in a different way. You look at yourself in a different way. It reduces the sense of your possibilities and responsibilities."

It's easy to give and receive a diagnosis, he says; it's very hard to get rid of one.

Frances says there is today a "greater sanity and caution about diagnosis and treatment" throughout medicine and surgery, but it hasn't happened yet. "I think psychiatry will fall into line." He believes we should have a more diligently monitored diagnostic system with warnings about diagnoses that are being overused. "New diagnoses can be more dangerous than new drugs." More voices should be heard in shaping the next DSM.

As patients and consumers, we shouldn't want easy answers, Frances says; the risk is too great. Ask questions and expect common-sense answers. And embrace the uncertainty: Not everything that unsettles can, or should, be diagnosed.

There's a term that advocates for people with physical disabilities sometimes use to describe those who don't, presently, have a disability: "temporarily abled." The foundations on which we stand are tenuous, impermanent; collectively, we bolster them. Think in terms of a common humanity, urges Swanson, the psychiatry and behavioral sciences professor. "There are variations—variations in behavior and variations in mood and thought. There's a spectrum." ■

*Sisk is a North Carolina-based writer and editor.*

"We're allocating our **resources** in the wrong way, and at the same time we're shamefully neglecting people who most need help."



# Muse

**Take Me Out to the Ball Game:** To commemorate last year's 25th anniversary of the film *Bull Durham*, Sam Stephenson A.M. '97 launched "Bull City Summer," which invited writers and photographers to capture the spirit of America's favorite pastime. Learn more at [bullcitysummer.org](http://bullcitysummer.org).

# Muse

## ILLUSTRATION

### Magnificent Manga

Japanese filmmaker and artist Hayao Miyazaki has won international acclaim for such visually stunning animated films as *Spirited Away*, *My Neighbor Totoro*, and *Howl's Moving Castle*. In the early 1980s, Miyazaki wrote and illustrated the graphic novel *Nausicaä of the Valley of the Wind*, which he later adapted for a film of the same name.

Duke University Libraries owns a deluxe box set of *Nausicaä*, a two-volume hardback compilation that tells the story of a determined princess in a

post-apocalyptic world. The set includes a guide to the story's sound effects, full-color illustrations, and an annotated drawing of "a Wind Rider Outfit for the Sea of Corruption"—which features a strobe grenade, a miniature telescope, and a "Mushi-Bue" whistle used to calm forest insects.

*Nausicaä of the Valley of the Wind* is in the manga collection—Japanese comic books and graphic novels—housed in Lilly Library.

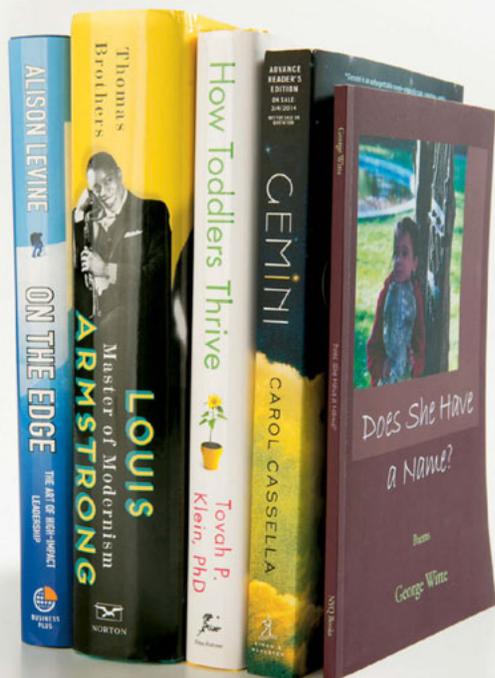
—Bridget Booher



**Fantastic visions:** Miyazaki protagonist Princess Nausicaä defends the people of the Valley of the Wind while trying to restore harmony to a dying world.

## PAGE TURNERS

Professor of music **Thomas Brothers** orchestrates a nuanced account of the brilliant jazz musician who rose to fame during the racially charged era of early twentieth-century America in ***Louis Armstrong: Master of Modernism***.... Child psychologist and director of the Barnard Center for Toddler Development **Tovah P. Klein** A.M. '92, Ph.D. '94 explores why the ages of two to five are the optimal time for helping children develop resilience, self-reliance, and empathy in ***How Toddlers Thrive***.... Drawing on the harrowing near-death experiences of his mother and daughter, St. Martin's Press editor **George Witte** '82 considers disability, medical ethics, and the complicated role of caregivers in his third book of poems, ***Does She Have a Name?***.... Anaesthesiologist and novelist **Carol Cassella** '79 crafts another gripping medical-mystery-meets-love-story in her third novel, ***Gemini***.... Polar explorer, former Goldman Sachs exec, and adjunct instructor at West Point **Alison Levine** M.B.A. '00 describes the art of high-impact leadership in her book, ***On the Edge***.



Megan Morr

**A remarkable woman:** Ida Stevens Owens and her dissertation adviser, James B. Duke Professor Emeritus of medicine Jacob J. Blum, at the premiere of the documentary about her journey.

## DOCUMENTARY

### Celebrating a Duke Pioneer

In the spring of 1961, Ida Stevens Owens graduated summa cum laude from North Carolina College—now North Carolina Central University—with a major in biology. Just a few months earlier, Duke University's board of trustees voted to integrate its graduate and professional schools. Owens came to the attention of Daniel C. Tosteson, then chair of the physiology department, who was recruiting accomplished students from black colleges to pursue advanced degrees in the sciences.

Owens enrolled in the fall of 1962 and became the first African-American woman to earn a doctorate from Duke, in 1967, in physiology and biochemistry. (James Roland Law, who graduated the same year, was the first African-American man to earn a Ph.D., in psychology.) Owens went on to a long and distinguished career at the National Institutes of Health, where she established a research lab to investigate a drug-detoxifying system now recognized for its studies on

the genetics of human diseases. She is known throughout the world for her work on drug-detoxifying enzymes.

*The Education of Ida Owens: Science, Civil Rights, and the Integration of Duke University*, directed by Ivan Weiss, tells the story of Owens' inspirational journey. Spearheaded by the Graduate School as part of the 50th commemoration of black students at Duke, the documentary premiered this spring at Duke, accompanied by a panel discussion on desegregation in higher education. The documentary and related materials are housed at Duke Libraries and are available for public research.

Owens remains closely connected to Duke. She is the inaugural recipient of the Graduate School's Distinguished Alumni Award and has served on the Trinity College board of visitors and the Women's Studies Advisory Council.

—BB

You can see the documentary here: [http://gradschool.duke.edu/ida\\_owens.php](http://gradschool.duke.edu/ida_owens.php)

# Sports

## Some things new, some improved

Upgrades and modern touches to facilities will give teams a refreshed field of play. | By Ryan Hoerger

**B**ig changes are coming to Wallace Wade Stadium: luxury seating, a new press box, and maybe a sell-out crowd are things to look for when you plan a visit for a fall Saturday in 2016 or beyond. One thing you won't see? A track.

The stadium, home to Blue Devil football since 1929, will receive a major facelift as part of a campus-wide upgrade, courtesy of the Duke Forward campaign. As part of that campaign, the athletics department has a goal of raising \$250 million, which will be split into three pots: \$100 million for operating and scholarship support, \$50 million for the department's endowment, and the remaining \$100 million for construction and renovation of facilities that will benefit all twenty-six of Duke's varsity teams.

Planning for facility modernization began in 2008, shortly after the arrival of vice president and director of athletics Kevin White. A master plan for all levels of athletics, from intramurals to Division I, was devised in consultation with multiple architectural firms, leading to formation of the Bostock Group, chaired by former Duke trustee and varsity football player Roy Bostock '62. The group, which included such well-known alumni as Grant Hill '94 and current NBA commissioner Adam Silver '84, focused on West Campus and revenue-generating facilities. The first phase of facility construction, new turf and grass practice fields for the men's and women's lacrosse and soc-

cer teams, was completed in January.

"The practice fields were really one of the first steps—actually it has turned out to be our first step—as far as a domino effect going into the football stadium," says Mike Cragg, Duke's deputy athletics director for operations.

At Wallace Wade Stadium, the track will be removed from the horseshoe and the field lowered five feet, creating eight more rows of bleacher seating. The existing press box will be torn down and reconstructed to include some luxury suites; more seat-backs will be added, and

To accommodate the athletes displaced from Wallace Wade, construction on a new track stadium is well under way, as are modifications to Koskinen Stadium. Part of the track venue will be a separately financed building, Kennedy Tower, named for longtime associate athletics director Chris Kennedy Ph.D. '79 and his late wife, Ana. The facility, which will be open to host Duke events year-round and will house a press box for soccer and lacrosse, should be ready for lacrosse season in the spring of 2015. Koskinen will also get a new scoreboard and bleachers.

### "We're never going to miss a game."

a new scoreboard and concourse improvements will make the aging stadium feel younger. The stadium's new capacity will be right around 40,000, up from not quite 34,000. Most renovations will take place following the upcoming season.

"We're never going to miss a game," says Cragg. "The clock is now ticking—we're moving."

Some architectural renderings of the remodeled stadium had called for completion of the horseshoe, but that proposal was put on hold. Cragg says that if Wallace Wade begins to sell out consistently, the next step could be to build a family-friendly hill at the open end of the stadium, where families and groups can take in a game away from the bleachers.

Duke's most-revered athletic venue, Cameron Indoor Stadium, will be upgraded as well, likely beginning in 2015. The space between Cameron and Wallace Wade will be refurbished as "Blue Devil Plaza," a pedestrian access space that will require taking out the current traffic circle. Plans for updating the seventy-four-year-old facility include a new lobby entrance on the plaza side and a club space for hospitality on the second floor, outside the existing building, to accommodate an estimated 400 people. The current structure doubles as a home for many divisions of athletics administration, but construction of the Scott Family Pavilion for Olympic

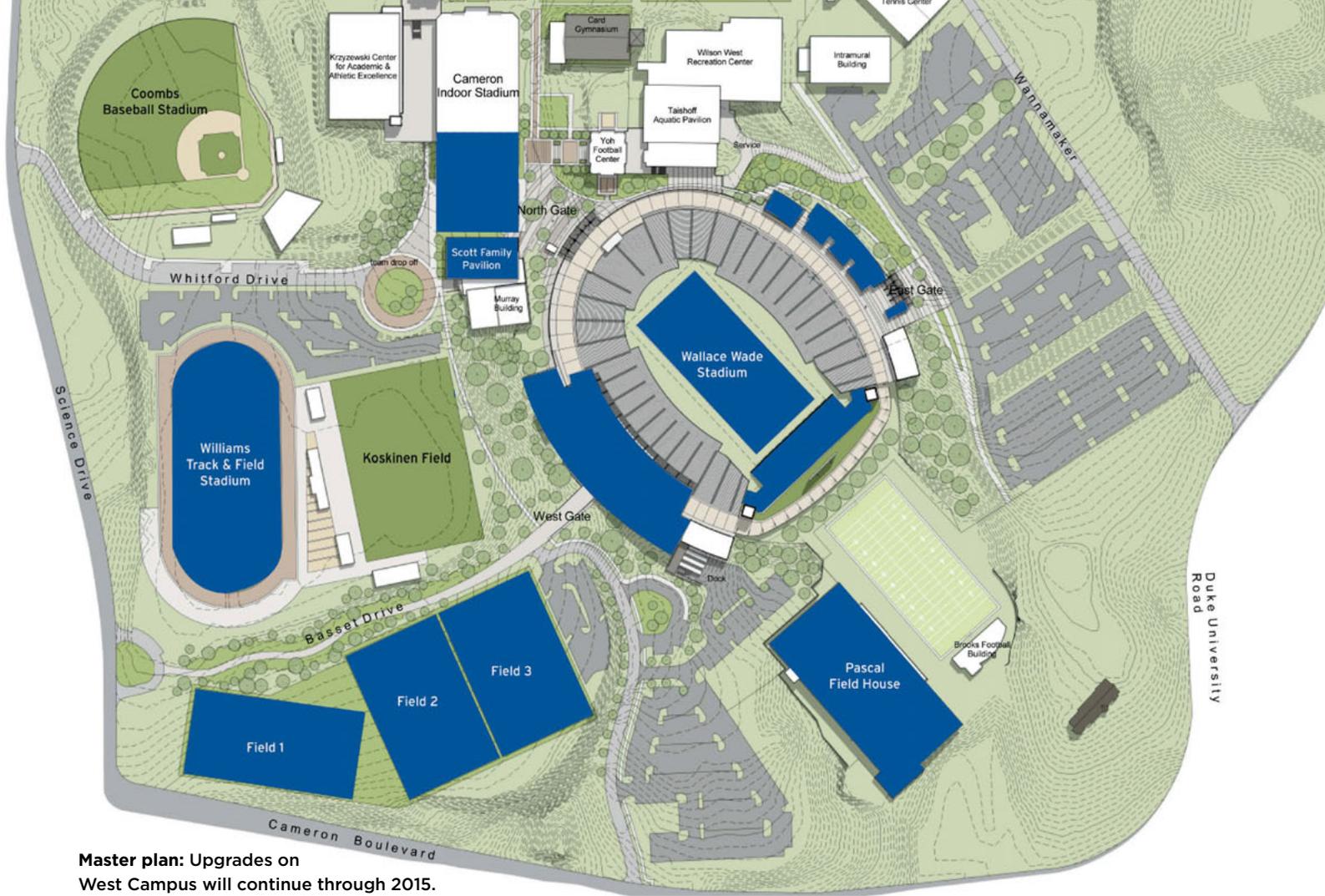
## DUKETICKER



**TRACK AND FIELD:** Redshirt senior **Curtis Beach** earned his second NCAA Division I Indoor Championships heptathlon title and second first-team All-America honor. Beach accumulated a conference- and school-record score of 6,190 points. He concluded his indoor collegiate career with two national titles and four appearances at the national championship meet.



**DUKE WOMEN'S GOLF,** ranked third, finished the Darius Rucker Intercollegiate Tournament with a total of 862 over 54 holes and 6,142 yards. Duke's team carded rounds of 284, 291, and 287 to finish 10 over par. **Yu Liu**, a freshman on the women's team, recorded scores of 69, 72, and 70 for a tie at 211 (two under par), before winning in the subsequent playoff. It was Liu's first collegiate victory in a one-hole playoff.



**Master plan:** Upgrades on West Campus will continue through 2015.

sports will relocate those offices and open up additional space in Cameron for future renovations. That pavilion, named for donors Steven Scott H.S. '78 and his wife, Rebecca Jensen Scott A.H.A. '79, also will feature a new ticket office and a Nike team store.

"What we've tried to do is really incorporate the new with the old, and try to fix up the old as much as possible, like paint the seats upstairs, put in new fix-

tures, and upgrade the scoreboard a few years back," Cragg says. "[We're] always trying to preserve the history, the charm, and keeping it the place it is, and we'll try to do the same with this. We will not touch the bowl of Cameron at all."

An expenditure of \$100 million for athletic facilities might look like a hefty price tag, but seems modest in comparison to what other schools are doing, Duke officials say. The University of Ala-

bama recently spent an equal sum on a football locker room, while crosstown rival UNC spent \$75 million building end zone seating and club space at its football stadium. Tom Coffman, deputy athletics director for development, points out the practicality of Duke's plan, spreading the \$100 million across its entire athletics landscape rather than concentrating it on one sport, generating "a lot of bang for our buck." ■



**WOMEN'S TENNIS:** Sophomore **Beatrice Capra**, right, was ranked sixth by the Intercollegiate Tennis Association. She and partner **Hanna Mar**, who is No. 31, are ranked in the top five doubles teams in the nation.

Athlete images by Jon Gardiner

## THE SCORE



**27**

Number of wins in 29 bouts by junior captain fencer Sarah Collins



# CRAZY SMART

Where else but Duke does an all-nighter in the library look like this?

The Library Party is a unique Duke tradition. For one night only, Perkins Library throws open its doors for an evening of live music, food, and un-shushed entertainment. Thousands come. Our theme this year—"Life Is a Cabaret"—was inspired by a fascinating library exhibit on the history of Parisian cabarets.

Why party in the library? Because at Duke, we're not smart. We're crazy smart.

Show a little *joie de vivre*. Support Duke University Libraries.

[library.duke.edu/crazysmart](http://library.duke.edu/crazysmart)

DUKE UNIVERSITY  
LIBRARIES



# Forever

Welcome: In April, nearly 4,000 alumni returned to campus for **REUNIONS WEEKEND**.



## DUKE ALUMNI ASSOCIATION

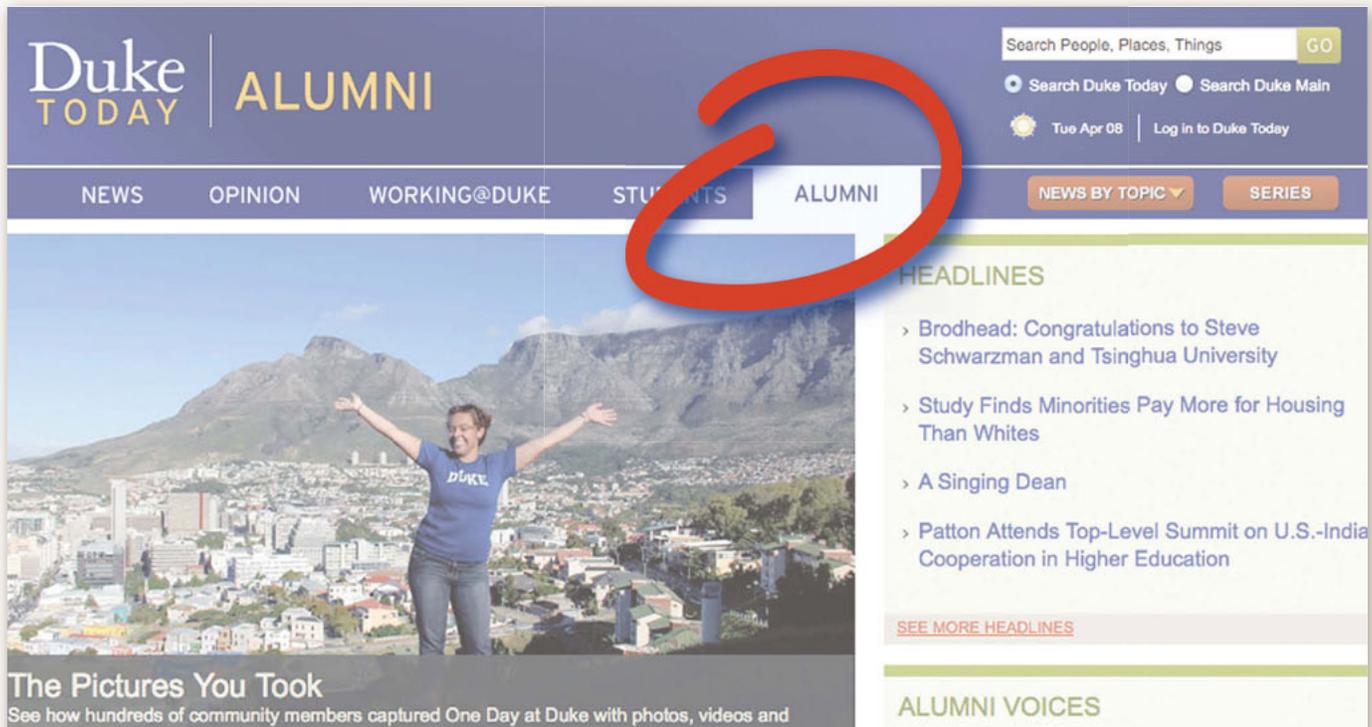
**Meet and greet:** Above, friends from the Class of 2004 at a Reunions weekend party; at right, twenty-seven alumnae, including Lesley Jane Seymour '78, Sarah Brokaw '92, and Jaunique Sealey B.S.E. '00, returned to Duke in February to speak to more than 320 participants attending the fourth **DUKE WOMEN'S WEEKEND**.



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# DAAConnections

ENGAGE. CONNECT. CELEBRATE.



## Alumni News Now on Duke Today

Duke's 150,000 alumni—many of whom hold prominent positions in business, government, and the arts—factor in some of the most compelling news stories of the day. Now, Duke's main news site, Duke Today, has a one-stop site to read and share those stories.

The new section, Duke Today Alumni, highlights the lives and achievements of Duke alumni, aggregating articles from national and local media, as well as stories, photographs, and videos created by Duke communicators. Content is curated by the communications staff of the Duke Alumni Association, which created the section in partnership with the Office of News and Communication.

"Every day we hear about alumni who are doing amazing things," says Sterly Wilder '83, associate vice president for alumni affairs. "We wanted to share those stories broadly with the Duke community and also to showcase what their achievements say collectively about Duke."

David Jarmul, associate vice president for news and communication, adds that while Duke Today is filled with stories about life at Duke, "it has been missing an important part of the university community. This new section will greatly expand its coverage of alumni, whose stories illustrate the breadth and impact of a Duke education."

Readers of the new section will find stories about alumni such as Nia-Malika Henderson '96, national political reporter for *The*

*Washington Post* and the *She the People* blog; James Bock '87, a Caltech physics professor who played a pivotal role in new research related to Big Bang theory; Wendy Levine '95, founder of Los Angeles-based Beauty Bus Foundation, which provides terminally ill patients with in-home beauty treatments; Prim Siripipat '03, an ESPN.com on-air commentator; and Paulie Harraka '12, an up-and-coming NASCAR driver.

The section also provides links to recent articles from *Duke Magazine*, as well as selected news about DAA's on- and off-campus events, learning opportunities, and travel programs. An "Alumni Voices" feature in the new section showcases essays, blogs,

and articles written by Duke's many accomplished journalists and writers.

The new site becomes the fifth section of Duke Today, which includes pages for general news, opinion, the employee-focused *Working@Duke*, and student news. Nearly 100,000 people visit the site in a typical month, creating more than 280,000 page views.

"We think the new site will find an audience not only among alumni, but also among current students, faculty, and others on campus," says Jarmul. "We are bringing together news about Duke alumni from multiple sources, which will help us tell a richer story about the university and show by example how so many of its students go on to lead interesting and meaningful lives after they graduate."

— Michael Penn

# How are you **ForeverDuke?**



Chris Hildreth

Sterly Wilder '83, associate vice president for alumni affairs, talks with **Paulie Harraka '12**, an independent racecar driver and founder of Paulie Harraka LLC. He focuses on breaking the mold in NASCAR with a unique group of investors. As a former representative of NASCAR's Drive for Diversity program, Harraka eventually hopes to use his company to help underrepresented drivers reach NASCAR.

**SW:** While you were at Duke pursuing your undergraduate degree, you continued to build your burgeoning racing career. Who has helped you continue going after your dreams?

**PH:** I started racing when I was seven years old. I've always loved it. I knew that racing and Duke were both full-time jobs, but when I had both opportunities in front of me, I couldn't justify passing up

either. You never know when the next opportunity might come. I've got a great family that supports me. A lot of my energy comes from my mom. She is one of those boundlessly energetic human beings. At Duke, I got to know alumni, professors, and administrators who added to that energy. I've gotten a little bit of energy from a lot of different people.

**SW:** You started out at Duke pursuing mechanical engineering. You ended up in sociology and with a certificate in markets and management. In what ways has the freedom to pursue diverse academic interests influenced you today?

**PH:** My intention was always to utilize a strong education to augment my racing career and differentiate myself as a driver. Coming out of

high school, I felt it would be best to develop a strong engineering background. I got to Duke in 2008, and then the recession hit. I recognized the sport was changing and felt it was wiser to focus on markets, management, and entrepreneurship. Having the ability to move between academic disci-

plines was an amazing growth opportunity. As an example, I took a public policy course called "High Impact Leadership" with Colonel Joe LeBoeuf and learned a lot about what it means to be a leader. The book I'm reading right now is a book that Colonel LeBoeuf suggested I read. It's called *The Flip Side*, and it's about overcoming the core things that hold everybody back.

**SW:** You want to help diversify NASCAR by helping underrepresented drivers get into the industry. Why is this important to you personally?

**PH:** One of the big challenges for our sport is being better representative of the American population. I've found a lot of fantastic opportunities through the NASCAR Drive for Diversity program and through attending Duke—and I want other people to have those same opportunities. I don't want racing to be a sport that is accessible [only] to a certain group of people.

**SW:** As both a student and an alumnus you've been involved in DukeGen, the university's global entrepreneurship network. What have you learned from participating?

**PH:** It's a great forum to tease out ideas. The university has made it a priority to become a hub of innovation, and Duke alumni can be tremendous assets to students in trying to create a culture of creativity and entrepreneurship.

**SW:** What do Duke students need to know about taking risks in the real world?

**PH:** Many would say the biggest risk I took was going to Duke. I was on a fantastic path as a racecar driver. Taking risks may mean a little less security. I'm pursuing an entrepreneurial path in sports that nobody has pursued before. There certainly would be more security had I gone on one of the more traditional paths. There are sacrifices that come with risk, but there are also benefits. I think sometimes we just don't take enough time to weigh the benefits.

**SW:** Speaking of risk, what's the fastest you've ever driven?

**PH:** 212 mph. It's pretty fast!

—Edited by Christina Holder



Paulie Harraka, LLC

**Harraka:** The independent racecar driver has dreams to change NASCAR.

## What's Cooking?

DAA helps students learn practical skills for post-graduation life.

Duke senior Martin Shores' grandmother made a mean steak. She had a way with food, transforming basic ingredients into delicious dishes, he says. Like a tasty carbonara pasta sauce, "which I still need her to teach me to make," he adds.

Shores has been thinking more about his grandmother's cooking since he moved into an off-campus apartment, the first time he has had access to a kitchen since coming to Duke. But how does a soon-to-be graduate begin to learn how to handle cooking as nimbly as his grandmother?



Enter "What I Forgot to Learn in College," a new series launched by the DAA and the Senior Class Council to prepare students for life after graduation. The classes focus on practical life skills for students, often featuring alumni with expertise in those subjects. So when Shores saw an e-mail advertising a cooking class, he immediately signed up.

"I can't think of anyone at Duke who would cover that in our education," he says.

In February, Shores and about fifty other Duke students gathered in Durham's The Cookery, where J.W. Walton '82, partner at The Catering Company of Chapel Hill, walked them step-by-step through kitchen skills such as roasting a chicken and making a breakfast omelet.

The class covered basic stock recipes, as well as a few

tricks of the trade — like wrapping salmon in parchment paper and keeping an egg intact mid-flip.

"I've never known how to flip a whole egg," says senior Li Chen, who attended the class. "I always start scrambling it instead."

Senior Class Council member Nikhil Prakash, a self-proclaimed sandwich maker who helped organize the class, says there is a definite need for students to learn practical skills to prepare for life after graduation.

"I think a lot of students don't really think about the little things they have to prepare for. They don't think about living on their own and eating healthy," he says. "Cooking is one of the first places to start. You can save a lot of money and eat a lot better."

That's a niche the DAA can fill, says Inga Peterson, who leads DAA's campus engagement programs.

"One of my goals is to really think through as a community what seniors need in order to be successful transitioning out of the university in the same way we help them transition into the university," she says.

In another class in the "What I Forgot to Learn in College" series, Megan Forlines M.M. '12, a Ralph

**Tasty:** At the "What I Forgot to Learn in College" cooking class in February, students learned to make a miniature chocolate cake with whipped topping.

Lauren assistant merchandiser, and Devon Bostock '11, M.M. '12, a venture-capital banker, taught students how to dress professionally. A future class will gather alumni in various U.S. cities for a Google Hangout with students who have taken jobs in those cities, giving them an opportunity to ask practical questions about finding housing, transportation, and even where to

watch a Duke game with friends.

"I think the alumni association plays a very important role in connecting students," Prakash says. "Alums are fantastic resources. They know a lot about the world. They are still interested in helping out students."

As for Shores, he hasn't mastered his grandmother's carbonara sauce yet. But he did experiment with a roasted chicken recipe Walton handed out in class—and discovered a new creative outlet in the process.

"It's one of the most rewarding things I've done this semester," he says. "It's just something completely different from my academics, completely out of my comfort zone. I started off really conservative. Now I've reached the point where I consistently get things right. I started inviting people over."

—Christina Holder



## BACK ON CAMPUS

**We love when alumni come back to Duke.** Read more about these alumni who recently returned to give back to Duke students through mentoring, lectures, and words of wisdom.

### GO!

#### SERVE WHERE YOU ARE

Several hundred Duke alumni turned out to help their communities during Duke Alums Engage week in late April. Nearly sixty cities hosted DAE events this year, including international events in England and Singapore—making it the largest in DAE's history. Alumni participated in projects such as preparing and distributing food, leading free health clinics, organizing day camps for children, and more. See what alumni did throughout the week on the DAE Facebook page.

#### FOLLOW US ON INSTAGRAM

Missing campus? You can see it all the time on Instagram. Just download the app and follow Duke Alumni. You'll see beautiful photos from around campus, updates on campus construction projects, and pictures from DAA events around the country.



#### REGIONAL SPOTLIGHT: DUKE ALUMNI IN NORTHERN CALIFORNIA

Alumni in the Bay Area got a crash course on creativity from Stanford neuroscientist Tina Seelig, author of sixteen brain games and books on creativity and popular science. Seelig encouraged participants to spark ingenuity through simple thought exercises. One tip: Reading jokes can help you frame questions that have more impact.

#### USE YOUR BENEFITS: BACK TO THE GYM

Did you know alumni get five free visits to Duke's Wilson and Brodie gyms? The visits are included on your Duke Alumni card, so bring it with you the next time you're on campus and enjoy a workout on us.

**Nia-Malika Henderson '96**, national political reporter for *The Washington Post* and senior writer for the newspaper's She the People blog, spoke to two classes of students in March. Henderson talked about the path she took to develop her journalism career, which she began when she was thirty, and offered career advice to students hoping to get involved in media and public policy. Her advice? Begin building your brand early by experimenting with Twitter or blogging. "You've got to get in the conversation," she said. Follow Nia on Twitter at @NiaWaPo.

Twenty-seven alumnae working in fields as diverse as media, science, and sports returned to Duke in February to speak to more than 320 participants attending the fourth Duke Women's Weekend, sponsored by the Duke Alumni Association. Participants heard from **Lesley**

**Jane Seymour '78**, the editor of *More* magazine; **Beth Stevens '81**, senior vice president of corporate

citizenship, environment and conservation at the Walt Disney Company; **Becca Ward '12**, fencing Olympian; **Maya Ajmera M.P.P. '93**, founder of The Global Fund for Children; and many more female leaders. The event centered on the theme "Find Your Moxie," and participants were encouraged to reflect upon and to celebrate how Duke women can create change in their communities.

**Wendy Levine '95**, cofounder of Los Angeles-based Beauty Bus Foundation, came back to Duke in

March as one of the Duke Career Center's experts-in-residence. The expert-in-residence series features alumni and industry professionals who meet with students and share career advice. Levine's organization has the mission of providing terminally ill patients with

in-home beauty treatments, thereby helping to restore their self-image and dignity.



Friend of Mickey: Beth Stevens

The Hollywood Reporter



The Washington Post

Jewish Journal

**The returned:** Henderson, left, and Levine, center, with her cousin and Beauty Bus cofounder Alicia Liotta.

# Life's Broad Sea

ALUMNI IN THE SPOTLIGHT | By Bridget Booher

## Shaping the Cultural Landscape

**K**ara Medoff Barnett '00 began taking ballet classes at the age of three and entertained the idea of becoming a professional dancer before she was sidelined with an injury in high school. By the time she arrived at Duke, she had switched her sights from arts to medicine, taking pre-med courses and volunteering with the student-run Emergency Medical Services group.

Seeking to round out her science-heavy coursework, she enrolled in a theater-studies course taught by legendary Broadway producer Emanuel "Manny" Azenberg. "It was really that class that made me realize that I didn't need to be the artist, that there were other ways that I could impact culture, impact the arts," she says. "Instead of being a doctor, I was going to be a Broadway producer."

Barnett achieved her goal of producing plays both on and off Broadway—scoring a Tony Award for the revival of Eugene O'Neill's *Long Day's Journey Into Night* in the process—and earned an M.B.A. from Harvard. She has parlayed her arts-business acumen into a job as managing director of Lincoln Center Global, the performing-arts organization's international consulting division. Barnett oversees Lincoln Center Global's work with arts organizations, governments, philanthropists, and the private sector to build and sustain successful cultural institutions. Services include facility planning, programming and revenue advice, market analysis, branding, and management training, among others. This spring, *Crain's New York Business* selected Barnett as a member of its 2014 class of 40 Under 40.

"I strive to foster environments in which creative people can do their best work. I strongly believe that the arts can be an economic engine and a source of civic and national pride," she says.

Although Barnett stays busy with her ever-expanding portfolio of new projects and clients, she remains closely connected



**Show stopper:** At Duke, Medoff Barnett learned diverse ways to contribute to the arts.

to Duke. This past spring, she cohosted, with Lincoln Center colleagues Jennifer Baltimore J.D. '92 and Claire Florian '09, a Duke Alumni Association Women's Forum reception at her office at Lincoln Center. And she came back to campus for Blue Devil Days to share her personal journey with prospective members of the Class of 2018.

# ClassNotes

## Board of Directors, 2013–14

President: **Jeffrey C. Howard '76**  
President-elect: **N. Shephard Moyle '84**  
Secretary-Treasurer: **Sterly L. Wilder '83**

## Vice Presidents:

**D. Michael Bennett '77**, **Jack W. Boyd '85**,  
**Palmer Peebles Garson '79**, **Amy Hepburn '97**,  
**Kimberly Dawn Reed '86**, **Lee Harris Roberts '90**,  
**Mark E. Stalnecker '73**, **Paul S. Teller '93**

*Duke Magazine* Editorial Advisory Board representative:  
**Sarah Hardesty Bray '72**

## Directors-at-large:

**Betsy Alden '64**, **William A. Bermont II '97**,  
**Christopher Brandt '00**, **Jonathan P. Cardona M.B.A. '00**,  
**Mandeep Singh Dillon '92**, **Nikki Hurst Gibson '80**,  
**Jason Goode '97, J.D. '00**, **Mychal P. Harrison '01**,  
**Ana Homayoun '01**, **Winston Henderson '90, J.D. '96**,  
**Edwin Howard Jr. '63**, **Mary Kristin Klein '82**,  
**Joanne M. O'Connor '92**, **Rodney C. Pitts '68**,  
**Pamela Stone Schearer '73**, **John Tolsma '95**

## Professional school representatives:

**Andrea Barnwell Brownlee A.M. '99, Ph.D. '01**,  
Graduate School of Arts and Sciences  
**Abigail Williford Kocher '00, M.Div. '06**, Divinity School  
**Robin Ten Kate M.B.A. '03**, Fuqua School of Business  
**Courtney Lorenz M.E.M. '06**, Nicholas School of the Environment  
**William Senner B.S.E. '06, M.E.M. '06**, Pratt School of Engineering  
**Amy Hepburn '97, M.P.P. '01**, Sanford School of Public Policy  
**John A. Howell '72, J.D. '75**, School of Law  
**Diana Bures McNeill '78, M.D. '82**, School of Medicine  
**Kathleen Viall Gallagher B.S.N. '75**, School of Nursing  
**Judith Ann Maness M.H.A. '83**,  
Graduate Program in Health Administration  
**Jennifer Moody Skeesick D.P.T. '06**,  
Graduate Program in Physical Therapy

## Young alumni representatives:

**Connie T. Chai '10**, **Jin-Soo D. Huh '09**,  
**Lara L. Jones '08**, **Sara K. Oliver B.S.E. '06**

## Faculty representative:

**Michelle Connolly**,  
Associate Professor of the Practice of Economics  
**Alexander Hartemink '94**,  
Associate Professor of Computer Science, Statistical Science,  
and Biology

## Honorary members:

**Michael Schoenfeld '84**, **Suzanne J. Wasiolek '76**,  
**M.H.A. '78**, **L.L.M. '93**, **Gerald L. Wilson B.D. '61, A.M. '68**

## Presidents, School and College Alumni Associations

**Kristin Whitesides, M.Div. '05**, Divinity School  
**Lisabeth Brynn Todd Crute M.B.A. '95**, Fuqua School of Business  
**Kristen Cappel M.E.M. '06**, Nicholas School of the Environment  
**Jason Piche B.S.M.E. '97**, Pratt School of Engineering  
**David Esquivel J.D. '97**, School of Law  
**Kurt D. Newman M.D. '78**, School of Medicine  
**Joan M. Stanley B.S.N. '71**, School of Nursing  
**Jennifer Moody Skeesick D.P.T. '06**,  
Graduate Program in Physical Therapy

**Duke**  
ALUMNI ASSOCIATION

## Want to be featured in Class Notes?

Check out [www.dukemagazine.duke.edu](http://www.dukemagazine.duke.edu) for style tips and submission guidelines, or e-mail us at [dukemag@duke.edu](mailto:dukemag@duke.edu).

## 1950s

**Richard Dixon '54** published "Thomas Jefferson: A Lawyer's Path to a Legal Philosophy" as a chapter in *Thomas Jefferson and Philosophy: Essays on the Philosophical Cast of Jefferson's Writings*. A retired lawyer, he is president of the Thomas Jefferson Heritage Society.

**Richard N. Hubert '57** was named in the *2014 Best Lawyers in America* in the Eminent Domain & Condemnation practice area. He is a lawyer at Chamberlain Hrdlicka in Atlanta.

**George Keithley '57** published a short story in *Brilliant Corners*, an essay and two poems in *Redwood Coast Review*, and four poems in the *Sewanee Review*. A poet, he lives in Chico, Calif., with his wife, Carol.

**Edward H. Laughlin M.D. '58** published his third book, a second edition of *Coming to Terms with Cancer: A Glossary of Cancer-Related Terms Easily Understood*. He is a professor of surgery at University of Alabama-Birmingham School of Medicine-Huntsville.

## 1960s

**Dian Spruill Williams '60** has maintained ties with her FAC group since they met in Southgate dorm in 1956. Her group members now live in five states: Virginia, North Carolina, Florida, California, and New Hampshire.

**Elizabeth B. Buck '62** was a docent at the recent exhibit of Doris Duke's Shangri La. She is special assistant for education to the president and codirector of the Asian Studies Development Program for the East-West Center in Honolulu.

**S.T. Kimbrough Jr. B.D. '62** released a classical recording of German art songs by Erich J. Wolff, a Viennese composer who died in 1913.

**Bethany S. Sinnott '62** was inducted into the Blue Masque Theatre Hall of Fame at Catawba College in Salisbury, N.C. She retired from the college as professor emerita of English in 2011 after teaching there for 42 years.

## '65 50th Reunion April 17-19, 2015

**Catherine Ward Bishir A.M. '65** wrote *Crafting Lives: African American Artisans in New Bern, North Carolina, 1770-1900*. She is curator of Architectural Records Special Collections at N.C. State University Libraries, and she has written or cowritten six books.

**Leigh D. Lerner '66** received the Queen Elizabeth II Diamond Jubilee Medal, given for "dedi-

cated service to peers, community, and Canada." He is rabbi emeritus at Temple Emanu-El-Beth Sholom in Montreal.

**John P. Shock M.D. '66** was inducted into the Arkansas Military Veterans Hall of Fame. He treated hundreds of wounded Vietnam veterans and helped revolutionize cataract surgery.

**Marion Lawrence Hicks Jr. '67** was recognized in the *International Who's Who of Real Estate Lawyers 2013*.

**Gary L. May '68** published his second book, *Persuasive Business Presentations*. He is a professor of management at the College of Business at Clayton State University near Atlanta.

**Lucy Hendrick Kernodle '69** began her 24th year as lead school nurse in the Alamance-Burlington school system. She works with 24 school nurses who serve 36 school sites.

**Henry B. Perry III '69** received the Ronald McDonald House Charities Medical Excellence Award, which honors individuals who have contributed to the health of children. He cofounded Andean Rural Health Care, which is now Curamericas Global, based in Raleigh.

## 1970s

### '70 45th Reunion April 17-19, 2015

**Cym H. Lowell J.D. '72** started an initiative called Operation: Next Chapter. He was previously a tax lawyer, professor, author, and adviser to the White House and United Nations. He recently published *Jaspar's War*, an international thriller.

**Paul A. Scopac M.H.A. '72** retired after more than 43 years in health-care management. He was previously vice president for operations and COO for Oneida Health Systems Inc., an integrated rural health-care network in New York.

**Gary C. Demack '73** serves as a liaison officer at the U.S. Embassy in Ottawa, Canada. He previously spent time working abroad in Rome and Madrid.

**David B. Nolan Sr. '73** published *Quest for Freedom: The Scots-Irish Presbyterian Rebellions for Political and Religious Liberty*.

**Gary Lachman '74** spent a 30-year career as an international lawyer dealing with entity and transactional structuring. He has conducted real-estate negotiations on behalf of the U.S. government in Turkey, Greece, and more than 40 other countries.

Currently, he is special counsel on foreign law and a partner of Lachman Şimayli & Aykut, an Istanbul-based legal consultancy. He is also an associate professor of international real estate at Johns Hopkins University.

**'75 40th Reunion** April 17-19, 2015

**Leigh Robinson Kerr** M.E.M. '75 received the George W. Simons Jr. Memorial Award for his contribution to planning and zoning in Florida. He is president of Leigh Robinson Kerr & Associates Inc., a land-use consulting firm in Fort Lauderdale.

**Mary Kimmitt Laxton** '76 was named a Distinguished Fellow by the American Academy of Physicians Assistants. She is an assistant professor and academic coordinator at Arcadia University in Glenside, Pa.

**Fredessa Hamilton Cobb** '77 is the first African American to graduate with a Ph.D. in communication, rhetoric, and digital media from N.C. State University. She earned the degree this past December.

**Peter Griffith** '78 was honored by the University of Georgia Graduate School with the 2013 Alumni of Distinction Award, which recognizes exceptional professional achievement and community service. He is founding director of NASA's Carbon Cycle and Ecosystems Office at the Goddard Space Flight Center.

**Kenneth E. Olive** '78 received the 2013 Laureate Award, the highest honor given by the Tennessee Chapter of the American College of Physicians. He serves as interim dean of the

Quillen College of Medicine at East Tennessee State University. Following appointment of a new dean, he will return to his position as executive associate dean for academic and faculty affairs.

**Carrin Foreman Patman** '78 was named a 2014 Harvard Advanced Leadership Fellow. She has been a partner at Bracewell & Giuliani in Houston for 31 years, representing business and energy-industry clients. She was the first woman elected to the firm's seven-member management committee.

**Michael G. Ryschkewitsch** Ph.D. '78 was selected to lead the space sector at the Johns Hopkins Applied Physics Laboratory in Laurel, Md. He previously served as deputy director for NASA's Goddard Space Flight Center and director of Goddard's Applied Engineering and Technology Directorate. He is a chief engineer at NASA.

**Carol Wiley Cassella** '79 published her third book, *Gemini: A Novel*, a medical mystery and contemporary love story set in the Pacific Northwest. She is a practicing anesthesiologist, novelist, and speaker in Bainbridge Island, Wash.

**Births & Adoptions**

Leopold Augustine to **Craig D. Everhart** '77 and Miriam Francova Everhart on May 31, 2013.

**1980s**

**'80 35th Reunion** April 17-19, 2015

**Peter G. Dean** '80 published *Whose Mommy Is That? Escapades of an At-Home Dad*, a humorous memoir. He lives with his wife, Michele; kids; and dogs in the San Francisco Bay Area.

**Richard C. Gaskins** B.S.E. '80 received the Charlotte Sustainability Award for Water and the James S. Dockery Award for environmental leadership in the southern U.S. He is executive director of an environmental nonprofit.

**Douglas J. Monroe** M.Div. '81 is a spiritual director with Spiritual Directors International. He was a pastor in the United Methodist Church.

**Marian W. Payson** '81 was appointed a U.S. magistrate judge for the Western District of New York. She has previously worked for Debevoise & Plimpton and the U.S. Attorney's Office.

**Daniel L. Dent** '84 was named to the board of governors of the American College of Surgeons. He has served as the program chair for the Association of Program Directors in Surgery.

**Marc W. Taubenfeld** '84 was elected to serve as the 5th Circuit vice president in the Federal Bar Association. He is a shareholder at McGuire, Craddock & Strother in Dallas.

**'85 30th Reunion** April 17-19, 2015

**Todd E. Outcalt** M.Div. '85 published his 30th book, *Husband's Guide to Breast Cancer*. As pastor of a United Methodist church, he has counseled hundreds of people through cancer. He has written widely about health and wellness in magazines such as *American Fitness*, *Cure*, and *Aim*.

**Michael P. Scharf** '85, J.D. '88 was appointed acting dean of Case Western Reserve University School of Law. He also recently published his 16th book, *Customary International Law in*

**Building Champions**

The Iron Dukes is known for building champions on and off the courts and fields. To continue our trajectory of excellence in both academics and athletics, Duke must have the resources to drive our future success and enrich the lives of Duke student-athletes as they strive to be champions in the classroom and at the highest level of athletic competition. Now is the time to make investments that will build champions.

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Brendan Fowler  
Men's Lacrosse  
Senior

*Times of Fundamental Change: Recognizing Grotian Moments.*

**Jeffrey Henry Baer '86** was elected to the U.S. Green Building Council board of directors.

**Dahlia Shapiro Wilde '86** received a 2013 Artist Fellowship from the New York Foundation for the Arts in playwriting/screenwriting. She is the CEO of Pretty Smart Woman Co.

**Larry H. Hollier '87** was appointed chief of the plastic and reconstructive surgery division at Baylor College of Medicine as well as at Texas Children's Hospital. He practices in pediatric craniofacial and reconstructive surgery.

**Stuart G. Marcus M.D. '87** was named CEO and president of St. Vincent's Health Services. He also has been named a ministry market leader by Ascension Health for its Connecticut and New York regions. He previously served as senior vice president, medical officer, and chairman of oncology at St. Vincent's.

**Allan D. Stark '87** acquired funding for Social Discovery Corp., a software company in Charlotte. He is an owner of ASC International, a global recycling company.

**Margaret Carew Toledo '87** formed a law partnership, Toledo Don, in Roseville, Calif. The practice focuses on appellate law and Proposition 65 defense and counseling. She is certified as an appellate specialist by the California State Bar, Board of Legal Specialization.



Courtesy Andrea Hyde '87

'87

**Andrea Hyde '87** is the new chief executive officer of Oscar-winning actress Reese Witherspoon's new lifestyle company. The yet-to-be-named company will reflect the Nashville-born celebrity's Southern roots and personal style

and will launch in 2015. Hyde is the former president of C. Wonder and Burch Creative Capital and the former CEO of French Connection.

## Let your passion for Duke live on.

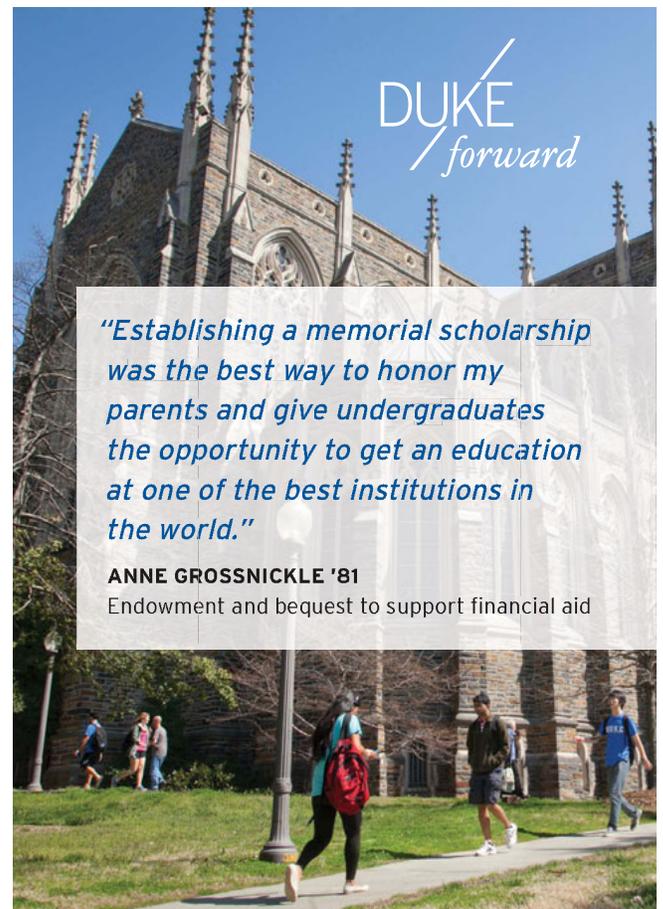
You can make a lasting impact on the people and places you love at Duke.

Including Duke in your estate plans is one of the simplest and most common ways to make a gift beyond outright cash. And, you can still access your assets in case you need them.

### Explore your options.

Duke University Office of Gift Planning  
[dukeforward.duke.edu/liveon](http://dukeforward.duke.edu/liveon)  
 (919) 681-0464

*If you have included Duke in your long-term plans, please let us know.*



*"Establishing a memorial scholarship was the best way to honor my parents and give undergraduates the opportunity to get an education at one of the best institutions in the world."*

**ANNE GROSSNICKLE '81**

Endowment and bequest to support financial aid



## MEET SERGIO CASTILLO THE NEW FACE OF BUSINESS AND THE ENVIRONMENT

Sergio Castillo had been an executive at multinational corporations, but he wanted to build an innovative business that prospers while helping communities and the environment. He created that opportunity when he became president and CEO of ECO BCG Corporation, transforming it into an international company offering turnkey solutions in energy efficient lighting, renewable energy generation, waste conversion and water treatment.

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**Keith A. Frey** M.B.A. '88 was named chief physician executive for Dignity Health in Arizona. He previously served in various capacities at the Mayo Clinic in Arizona and is a former head of the Duke Division of Family Medicine.

**Jeremy J. Beck** A.M. '89 released his fifth CD, *String Quartets*. A composer, he has worked with diverse ensembles from Los Angeles to St. Petersburg, Russia.

**Benjamin Fink** '89 was named a Top 100 Super Lawyer in Georgia for 2013 and 2014. He also cowrote a chapter on restrictive covenant litigation in *Georgia Business Litigation*, published by Daily Report Books, a division of ALM Media.

**Elizabeth Bumpas Maher** '89 runs a solo architectural practice in Seattle, where she lives with her husband, Jonathan Maher, and two boys.

**Paul J. Nietert** '89 is a professor of biostatistics at the Medical University of South Carolina.

### Marriages & Commitments

**Barbara Norton** '84 to Steve Tadeo on Nov. 9, 2013. Residence: Marietta, Ga.

## 1990s

**'90 25th Reunion** April 17-19, 2015

**Patricia Barr** '90 published her first novel, *Wynde*, a space-opera epic.

**Laurie A. McCarthy Powers** P.A. '90 was awarded a Certificate of Added Qualifications in Psychiatry by the National Commission on Certification of Physician Assistants. She is a certified physician assistant at Cape Fear Valley Medical Center.

**Joseph Michael Witt Jr.** '90 was production manager for the world premiere drama *Above the Fold* at the Pasadena Playhouse, where he is the general manager and production manager.

**Richard Brooks** '91 was promoted to senior editor, Page One at *The Wall Street Journal*, based in New York. He was previously senior deputy editor, Money & Investing.

**Andrew Flescher** '91 published his third book, *Moral Evil*. He is associate professor of both preventive medicine and English at State University of New York-Stony Brook.

**Carolyn Poteet** '91, M.Div. '05 was named director of faith and mission at Waynesburg University in Waynesburg, Pa. She previously was associate pastor at First Presbyterian Church in Hendersonville, N.C.

**Peter Walter** '91 was named managing director of L.E.K. Consulting. He previously spent 12 years in Thailand, where he managed the Southeast Asia region for the firm. He now lives in Washington, working with the L.E.K. office in New York.

**Tovah P. Klein** A.M. '92, Ph.D. '94 published *How Toddlers Thrive: What Parents Can Do Today for Children Ages 2-5 to Plant the Seeds of Lifelong Success*. She is a child psychologist and director of the Barnard College Center for Toddler Development.

© Stephen Maturen photo

**Christopher A. Jones** '93 was selected as a member of the Legal Elite (Bankruptcy and Creditor's Rights) by *Virginia Business* magazine. He is a partner in the bankruptcy section of Whiteford Taylor Preston in Falls Church, Va.

**Richard D. Strulson** J.D. '93, M.B.A. '94 was named executive vice president, general counsel, and chief compliance officer at Nature's Sunshine Products Inc. Previously, he was senior vice president, chief privacy officer at Herbalife. He will continue to live in Los Angeles.

**Paul Teller** '93 joined the Washington office of U.S. Senator Ted Cruz (R-Texas) as deputy chief of staff. Previously, he was executive director of the U.S. House Republican Study Committee.

### '95 20th Reunion April 17-19, 2015

**Jane Elias** '95 performed her solo show *Do This One Thing for Me* at Access Theater in New York in January. She is a playwright and actor.

**Marjorie Josel Menza** '95, J.D. '02 was promoted to pro bono counsel at Debevoise & Plimpton in New York. Previously, she practiced in both the international dispute resolution and white-collar groups for the firm.

**John M. Pearson** B.S.E. '95 won the *Jeopardy!* Teachers Tournament in November 2013.

**Joseph C. Pickens** '95 was named partner at Taft Stettinius & Hollister. He focused on civil litigation and was selected as *Ohio Super Lawyers* Rising Star in 2007 and 2012.

**Jose M. Carbonell** '96 was named senior vice president of marketing and communications at the U.S. Fund for UNICEF. He previously served as vice president of marketing and strategic planning at Nickelodeon.

**Justin E. Dillon** '96 was named a partner at The Kaiser Law Firm, a white-collar criminal defense and complex civil-litigation boutique firm in Washington. He spent more than five years as an assistant U.S. attorney in Washington, where he tried more than 60 criminal cases.

**James N. Carlin Jr.** '98 was promoted to partner at Roetzel & Andress in Orlando, Fla. He practices real-estate law.

**Sujal J. Shah** '98 was named partner at Bingham McCutchen in its San Francisco office. He is a member of the antitrust and trade-regulation group, focusing on antitrust and commercial litigation.

**Rupa Krishnamurthy Wong** '98 is a pediatric ophthalmologist and manages the Honolulu Eye Clinic with her husband, Jeffrey. She also serves on the faculty at the University of Hawaii.

**Carrie Bridges Feliz** '99 joined the board of directors at Blue Cross Blue Shield of Rhode Island. She is director of strategic community partnerships for the Providence public school department.

**Ricardo J. Komotar** '99 was appointed to the executive committee of the Congress of Neurolog-



Baylor University

'92

Furman University's first female president is **Elizabeth Davis Ph.D. '92**, who will begin her presidency on July 1. At Duke, Davis earned her Ph.D. in business administration. Currently, Davis is the executive vice president and provost of Baylor University in Texas.

ical Surgeons. He is assistant professor of neurological surgery at the University of Miami School of Medicine.

### Marriages & Commitments

**Douglas Friedlander** '98 to **Anna Skorupa** '03 on May 14, 2013. Residence: Helena, Ark...  
**Lindsay Johnson** B.S.E. '99 to **Joseph Chang** on Nov. 29, 2013. Residence: Austin, Texas.

### Births & Adoptions

Zachary Evan to **Tina Covington Gordon** '96 and Jeffrey Gordon on Sept. 10, 2013...Lucas Miles to **Jason E. Brown** '98 and Megan Laggis Brown on Nov. 7, 2013...Catherine Mariana to **Nicholas D. Felten** '96, M.B.A. '03 and Gloria Felten on Nov. 15, 2013...Aaron Jude to **Alex S. Gordon** '98 and Samantha L. Mazo on Sept. 3, 2013...Drew Michael to **William Houston** '98 and Lauren Houston on Nov. 28, 2013...Arya Camille to **Rupa Krishnamurthy Wong** '98 and Jeffrey J. Wong on Sept. 24, 2013...Oliver Graeme to **Peter A. Bove** '99 and Hilary J.E. Burt on Feb. 5, 2013.

## 2000s

### '00 15th Reunion April 17-19, 2015

**Lila Allen Gray** A.M. '00, Ph.D. '05 published *Fado Resounding: Affective Politics and Urban Life*, an ethnographic exploration of Portugal's popular music genre. She is an associate professor of music at Columbia University.

**Alison Levine** M.B.A. '00 published *On the Edge: The Art of High-Impact Leadership*. She is team captain of the first American Women's Everest Expedition and a former associate at Goldman Sachs.

**Stephen E. Gross** '01 was named partner at Blank Rome. He practices corporate litigation in Philadelphia.

**Lisa Leiman Hearn** '01 was named partner at Akin Gump Strauss Hauer & Feld. She focuses on cross-border mergers and acquisitions, corporate finance, and U.S. securities law.

**Nina H. Hsu** '01 was named general counsel for the Supreme Court of Texas. She previously was corporate counsel for Texas Mutual Insurance Co.

**Aydin A. Kadaster** '01 and **Rainer N. Poley** '01 climbed Mount Kilimanjaro in Tanzania in 2013.

**Gregory E. Pessin** '01 was named partner at Wachtell, Lipton, Rosen & Katz, where he practices in the firm's restructuring and finance group. He lives in Brooklyn, N.Y., with his wife, **Jaime Levy Pessin** '01, and their two children.

**Nicholas J. Bakatsias** '02 was named a director at Carruthers & Roth, in Greensboro. He is a member of the law firm's business, tax, and estate group and specializes in mergers and acquisitions and private-equity ventures.

**Laura DiGiovanni Gutmann** '02 is co-editor of a recently published book on education reform, *FirstSchool: Transforming PreK-3rd Grade for African American, Latino, and Low-Income Children*.

**Derek B. Meilman** J.D. '02 was named partner at Hogan Lovells, an international law firm, at its New York office. He represents clients in corporate and securities law, specializing in domestic and cross-border mergers and acquisitions and private-equity transactions.

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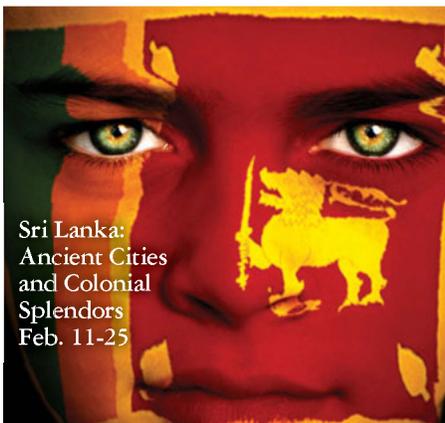
Israel: Timeless Wonders, Mar. 3-14

Expedition to Antarctica  
Jan. 26-Feb. 8



Photo courtesy of A. Read

Sri Lanka:  
Ancient Cities  
and Colonial  
Splendors  
Feb. 11-25



Cuba: Art & Architecture  
Mar. 28-Apr. 4



**Michael P. Sias '02, LL.M. '11** was promoted to director of corporate development and legal at ESO Solutions in Austin, Texas. He works on legal, strategy, business development, and sales operations for the software company.

**William R. Brown III '03** was promoted to director of First Reserve in its Houston office. He manages the investment firm's investment in AF-Global Corp., helping to drive its global growth strategy.

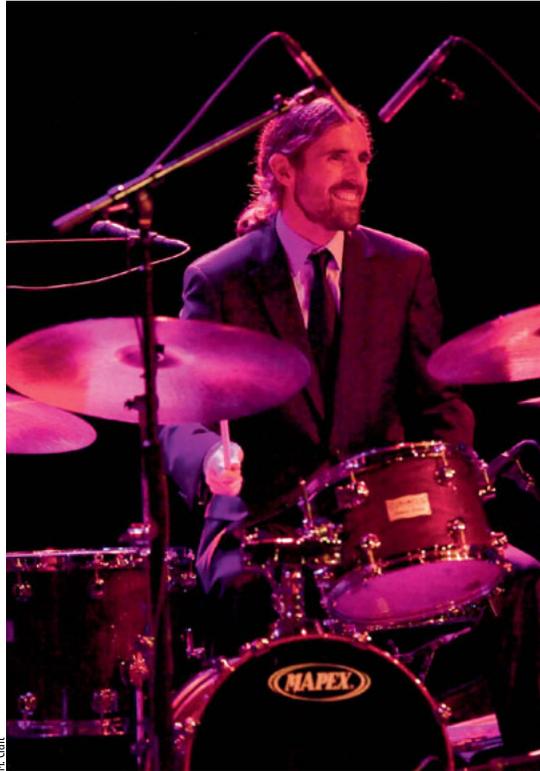
**David S. Almeling J.D. '04** was named partner at O'Melveny & Myers in San Francisco. He is a member of the law firm's intellectual-property and technology practice within the litigation department. He is also the author of more than 10 publications on patent and trade-secret law.

**Chandra Lane Jacobs '04** launched a Boston-based start-up for an airport mobile app, tripchi, which aims to improve the airport experience.

**'05 10th Reunion** April 17-19, 2015

**Stephen A. Amritraj '06** was named a national coach in the U.S. Tennis Association's player development department. He played on the men's tennis team at Duke and served as a volunteer assistant coach for the team last season.

**Courtney Ansel Crowder A.M. '06** joined the board of directors at the N.C. League of Conservation Voters. Founder of Crowder Consulting, he has worked in public affairs, government relations, and political strategy for nearly 15 years.

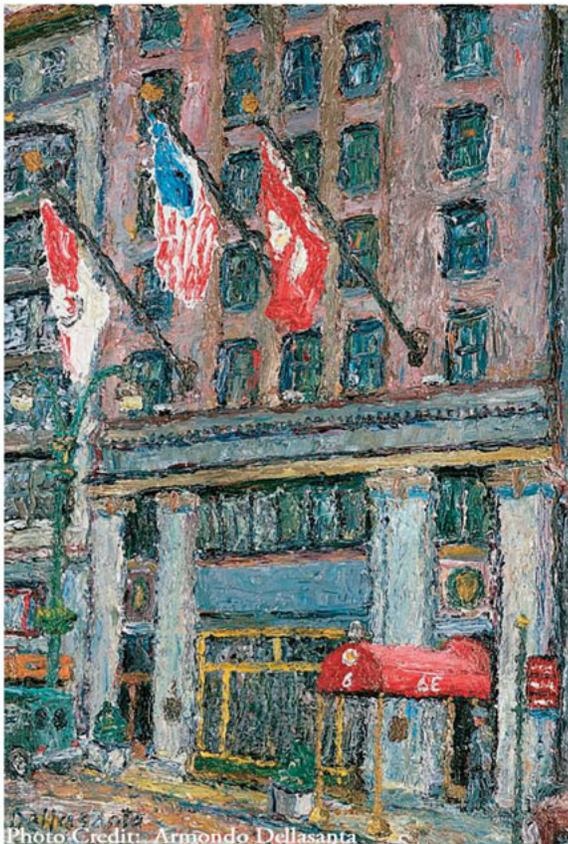


'02

## Jeremy Jones '02

was the drummer on Macklemore & Ryan Lewis' album *The Heist*, which was nominated for Album of the Year and won best rap album at the 56th Grammy Awards in January. Jones' jazz group, The Teaching, has released their

newest album, *Birds in Flight*. As a student, Jones played with the Duke Jazz Ensemble and the Paul Jeffrey Quintet.



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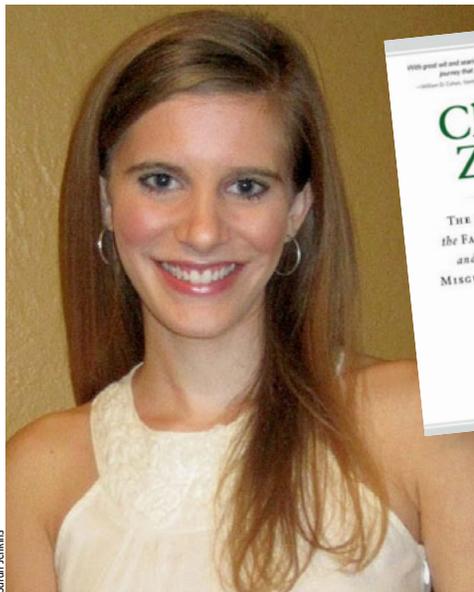
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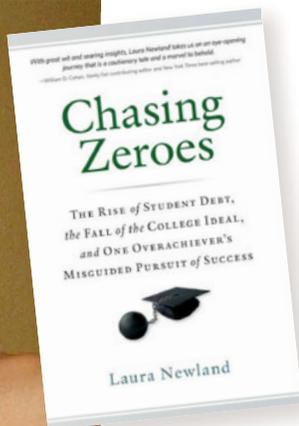
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'10

**Laura Newland '10** published *Chasing Zeroes* (Stone Hall Press, 2014), a book that explores elite college students' struggle



Sarah Jenkins



to get out of debt by pursuing Wall Street careers at the expense of pursuing their passions. *Vanity Fair's* William D. Cohan '81 called the

book "an eye-opening journey that is a cautionary tale and a marvel to behold."

**Laura Anzaldi Mike '08** received a Ph.D. in microbiology from Vanderbilt University in Nashville, Tenn. Parts of her dissertation were published in *PNAS* in April 2013. She received a postdoctoral fellowship at the University of Michigan-Ann Arbor.

**Marriages & Commitments**

**Anna Skorupa '03** to **Douglas Friedlander '98** on May 14, 2013. Residence: Helena, Ark.... **Gail Hampton Jameson Bruno M.Div. '06** to Jack C. Jenkins on Sept. 7, 2013. Residence: Morristown, Tenn.... **Sally Carson Howard '06** to **Joseph K. McCaffrey M.B.A. '10** on Oct. 13, 2013. Residence: Arlington, Va.... **David Larado B.S.E. '06** to **Charisse Williams '06** on Nov. 9, 2013. Residence: New York... **Dorothy Colleen Owen '06** to Andrew C. Webb on Sept. 9, 2012. Residence: Seoul, South Korea... **Danielle Reifsnnyder '06** to Robert Hickey III on Sept. 7, 2013. Residence: St. Paul, Minn.... **Meredith Brooke Cantrell B.S.E. '07** to Warren Y. Min on Nov. 2, 2013. Residence: South Pasadena, Calif.... **James Chambers '07** to **Rachel Singer '07** on July 20, 2013. Residence: New York... **Brooks Ficke '07** to Sarah Kleban on Aug. 10, 2013. Residence: Birmingham, Ala.... **Ashley Nicole Gray '07, J.D. '12** to **William M. Holloman '07** on Sept. 7, 2013. Residence: Chicago... **Michael Humeniuk B.S.E. '07** to Katie James on Nov. 2, 2013. Residence: Rochester, Minn.... **Kellie Jean Hunt '07** to Josh Maio on Sept. 7, 2013. Residence: Jersey City, N.J.... **Theresa Mohin '07** to Jeff Carroll on Nov. 9, 2013. Residence: St. Louis... **Reid Cater '08** to **Sarah Wallace '08** on Oct. 31, 2013. Residence: Hillsborough, N.C.... **Lisa Myers '08** to James Farrugia on Dec. 1, 2012. Residence: Stanhope Gardens, Australia.... **Cassandra Marie Gibbs '09** to John Pickens on April 27, 2013. Residence: Atlanta... **Victoria Ward '09** to John Hammond IV on June 15, 2013. Residence: Washington.

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**Births & Adoptions**

Wyatt Monroe to **Brian E. Leach '00** and **Michelle Patterson Leach '00** on Aug. 13, 2013...Evan James to **Brian M. Stempel B.S.E. '00** and **Kathryn Coulombe Stempel '02** on Oct. 21, 2013...Cathleen Beasley to **Christopher A. Vrettos '00** and **Catherine Stuart Vrettos '01** on Oct. 1, 2013...Cora Rose to **Gregory E. Pessin '01** and **Jaime Levy Pessin '01** on Sept. 18, 2013...Callum Daniel to **Andrea Bookman Short '01** and Adam D. Short on Nov. 21, 2013...Anjali Gloria to **Avanti Baruah Bergquist '02** and Steven Bergquist on Oct. 18, 2013...Nicholas Strahan to **Marko Djuranovic '02** and **Grace Lockhart Djuranovic '03** on Nov. 1, 2013...Isabel Brae to **Beth Moore Rodehorst '02** and **Aaron M. Rodehorst M.E.M. '07** on Oct. 22, 2013...Jordyn Siena to **Dana Fabrikant Weinbach '02** and Jonathan D. Weinbach on Nov. 19, 2013...Margaret Susanne to **Keeana Sajadi Boarman '03** and Sean C. Boarman on Nov. 15, 2013...Twins, Christopher James and Sydney Morgan, to **Andrea Lynn Douglass '03** and **Christopher J. Douglass '03** on Dec. 28, 2012...Grey Danner to **Jon D. Frazier '03** and Shayln Frazier on Nov. 4, 2013...Lillian Mae to **Emily Webb Holt '03** and **John A. Sira-cusa '03** on Oct. 23, 2013...Graham Everett to **Jeffrey K. Covington D.P.T. '04** and Suzanne Covington on July 31, 2013...Senna Theodocia

to **Matthew R. Kane** M.B.A. '06 and Chelsea M. Lynam on June 30, 2012...Owen Coffin to **Dorothy Colleen Webb** '06 and Andrew C. Webb on July 21, 2013.

## 2010s

'10 **5th Reunion** April 17-19, 2015

**Alyse A. Strahm** '11 cowrote the article "Optimizing Protein Intake in Premature Infants: A Neonatal Quality Improvement Project," published in *Advances in Neonatal Care* in December 2013. She is a neonatal nurse practitioner at Sparrow Health System in Lansing, Mich., and Covenant HealthCare in Saginaw, Mich.

**Effie Johnson Norman** '13 is teaching ninth-grade English at a high school in Montgomery, Ala. She recently volunteered as assistant coach for the girl's cross-country team.

### Marriages & Commitments

**Jeremy Gronos** D.P.T. '10 to **Anne Roosevelt** D.P.T. '10 on March 25, 2013. Residence: Plymouth, Mass....**Margaret Hoff** '10 to Adam Hopkins on Oct. 5, 2013. Residence: Brooklyn, N.Y....**Joseph K. McCaffrey** M.B.A. '10 to **Sally Carson Howard** '06 on Oct. 13, 2013. Residence: Arlington, Va....**Voris Tejada** '10 to **Lynnea Pappas** '11 on Sept. 7, 2013. Residence: Marlton, N.J....**Carolyn Cottingham** '11 and Simon Jeremy Welch Perry on April 27, 2013. Residence: New York...**Nicole Marie Dautel** '11 to John R. Owens on Nov. 16, 2012. Residence: Durham...**Wynn Hunter** '11 and **Kathleen Wilkin** B.S.N. '12 on Dec. 22, 2012. Residence: Durham...**Eleanor Frances Garrett** '12 to **Joseph W. Peacock** '12 on Oct. 12, 2013. Residence: Boston.

### Births & Adoptions

Zachary Christian to **Catherine Christiane Bowler** Ph.D. '10 and Toban Penner on Oct. 30, 2013...Juan Anthony to **Ashley Brown Burns** '10, Ph.D. '13 and Juan A. Burns on Sept. 3, 2013...Frances Elizabeth to **Natalie Owens Wetzel** M.A.T. '10 and **Luke A. Wetzel** M.Div. '12 on Nov. 27, 2013.

## IN MEMORIAM

**Elizabeth Sellars Farmer** '33 of Greensboro, on Dec. 5, 2013. She worked as a buyer for B.A. Sellars & Sons, a department store founded by her grandfather. She also served as president of the Junior League of Greensboro. Survivors include a daughter, **Elizabeth B. Farmer** '68.

**Sue E. Powell Shore** '35 of Charlotte, on Oct. 14, 2013. She graduated from high school as valedictorian at the age of 16. After attending Duke, she returned to her hometown of Gastonia, N.C., and taught high-school English and Latin. She is survived by a son, a daughter, three grandchildren, and six great-grandchildren.

**William N. Klove** '36 of Reno, Nev., on Jan. 15, 2014. He served in World War II as a member of the Air Force. He worked for the Equitable Life Assurance Society, eventually becoming the company's senior agency manager. For his work, he was presented with numerous awards, including the Will G. Farrell Award, the Equitable National

Regional Honor Agent, and the Ron Stever Humanitarian Award. He is survived by his wife, Barbara; two daughters, **Carole A. Klove** B.S.N. '80 and **Karin L. Klove Harris** '79; two grandsons, including **William R. Harris** '17; and a niece, **Nancy B. Klove** '80.

**Mary E. Henderson Reber** '36 of Hickory, N.C., on Sept. 26, 2013. After graduating from Duke, she earned a master's degree in library science. In the late 1930s, she was a news reporter for the *Hickory Daily Record*. She then led a 47-year career as a librarian. After retiring, she helped establish the first East Lincoln Library and served on the county's library board. She is survived by two daughters, **Mary H. Willis Abernathy** '66 and **Helen E. Willis Miller** '68; a son; a son-in-law, **Ben N. Miller III** '68; nine grandchildren; and nine great-grandchildren.

**Elinor T. Dunham Flint** '37 of Hilton Head Island, S.C., on Nov. 12, 2013. She served as a kindergarten teacher in the Durham area. After retiring, she volunteered as a reading mentor at an elementary school and at a hospital for children with cerebral palsy. She was also a member of the Junior League of Durham. She is survived by two daughters, five grandchildren, and six great-grandchildren.

**Helen L. Roberson Hammond** '37 of Wichita Falls, Texas, on June 22, 2013. She is survived by three sons, a daughter, seven grandchildren, and six great-grandchildren.

**Clarence M. "Ace" Parker** '37 of Portsmouth, Va., on Nov. 6, 2013. He was a three-sport letterman at Duke and a two-time All-American for the Blue Devil football team. Playing halfback for head coach Wallace Wade, Parker

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Carrie Mae Weems, *I Looked and Looked to See What so Terrified You* (detail), from the *Louisiana Project*, 2003. Chromogenic prints, 35 3/4 x 23 3/4 inches (90.8 x 60.3 cm) each. Nasher Museum of Art at Duke University, Durham, NC. Image courtesy of the artist and Jack Shainman Gallery, New York. © Carrie Mae Weems.

led Duke to two Southern Conference championships, accumulating 1,856 career yards and 21 touchdowns. He also holds the school record for longest punt return and single-game punting yardage. He led the NFL in passing in 1938 and was named the league's MVP in 1940. Later, he played two seasons of professional baseball with the Philadelphia Athletics and in 1972 was elected to the Pro Football Hall of Fame. He also served in the Navy during World War II. Following his athletic career, he returned to Duke for a lengthy tenure as an assistant football coach and head baseball coach. Survivors include a sister.

**Frances Childs Shaner** '37 of Summit, N.J., on Sept. 24, 2013. After working for IBM in both Baltimore and Philadelphia, she led a 25-year career at Bryn Mawr College in its admissions office and as a secretary to two school presidents. She retired to Summit in 1986. She is survived by two daughters, including **Barbara Shaner Von Klemperer** '69; a stepdaughter; seven grandchildren; and 10 great-grandchildren.

**Jean F. Brown Van Volkenburgh** '37 of Atlantic Beach, Fla., on April 7, 2012. After earning a master's degree in library science from Peabody College of Vanderbilt University, she worked as the acquisitions librarian for the Nashville Public Library from 1967 to 1981. In Nashville, she was a member of the Query Club and The Hermitage. She was also a Colonial Dame, a Daughter of the American Revolution, and a PTA leader. She is survived by two daughters, including **Elizabeth Lippitt Van Volkenburgh** '73; and two grandchildren.

**Byron C. Darling Jr.** '38 of Cape Cod, Mass., on Oct. 11, 2013. He served in the 7th Armored Cavalry during World War II and participated in D-Day and the Battle of the Bulge. Following his service, he began a career as a residential builder and developer in North Stamford, Conn. His real-estate interests ultimately took him to Cape Cod, where he relocated permanently in 1994. He is survived by four daughters, a son, 11 grandchildren, and four great-grandchildren.

**Robert A. Hamilton Jr.** '38 of Miami Beach, Fla., on Dec. 19, 2013. He owned and managed a construction company, R.A. Hamilton Corp., in Hackensack, N.J. In addition, he served on the board of directors of Hackensack Hospital for 25 years. He is survived by his wife, Frederica; two daughters; five stepchildren; nine grandchildren; and nine great-grandchildren.

**James B. Haman A.M.** '39 of Rabun Gap, Ga., on Aug. 29, 2013.

**Kenneth J. Rowley** '39 of Dover, N.H., on Jan. 8, 2014. He served as a first lieutenant in the Army during World War II. As a chartered financial analyst, he served as secretary-treasurer of Security Insurance in New Haven, Conn., and as director and secretary-treasurer of New Hampshire Insurance Co. of Manchester, N.H. In 1988, he was awarded an honorary doctor of laws degree from New Hampshire College, where he was a member of the inaugural board of trustees for more than 20 years. Survivors include two sons, a daughter, five grandchildren, and seven great-grandchildren.

**Lorraine Newlin Clay** '40 of Mount Sterling, Ky., on Oct. 11, 2013. She was passionate about

the arts, serving as a docent at the University of Kentucky Museum and as a founding contributor to the Gateway Regional Arts Center in Mount Sterling. She is survived by two sons, a daughter, a sister, seven grandchildren, and five great-grandchildren.

**Earl L. Emory Jr.** '40 of Raleigh, on Dec. 23, 2013. After graduating from Duke, he worked for the North Carolina State Laboratory of Hygiene of the North Carolina State Board of Health. During World War II, he served in the Army Medical Corps. In 1948, the State Laboratory of Hygiene sent him to Cornell University to study with Dr. George N. Papanicolaou, creator of the pap smear. He returned to the laboratory and established the Cancer Cytology Program, one of the first of its kind in the country. During his 33-year career in cytotechnology, his office read an estimated 5 million pap smears. He is survived by his wife, Sara; a son; a daughter; three granddaughters; and six great-grandchildren.

**Arthur F. Goat** '40 of Norwich, Vt., on Jan. 8, 2014. During World War II, he served in the Marine Corps. In 1946, he began work with Champlain Co., later becoming president and chairman of the board of directors of Bobst-Champlain Inc. of Roseland, N.J. He is survived by a daughter and a son.

**Dorothy J. Ray Salerno R.N.** '40 of Charlotte, on Nov. 20, 2013. She served as a nurse in the Army during World War II. After the war, she earned a degree in public health nursing from Columbia University before moving to Illinois. Survivors include three nephews and a niece.

**Richard B. Simpson** '40 of Winston-Salem, on Nov. 11, 2013. He is survived by a daughter, a son, four grandsons, and two great-grandchildren.

**Donald R. Stone** '40 of Dallas, on Nov. 13, 2013.

**Jack L. Watson** '40 of Signal Mountain, Tenn., on Nov. 13, 2013. During World War II, he served as a submarine lieutenant commander in the Navy. He had a career in real estate appraisal and was a deacon and an elder at Signal Mountain Presbyterian Church. Survivors include a daughter; a son; four grandchildren; and a nephew, **Lawrence F. Watson** '70.

**Meader W. "Red" Harriss Jr.** '41 of Tarboro, N.C., on Oct. 24, 2013. He served in World War II as an intelligence officer and sergeant in the Army Air Corps. He went on to a career in banking in Sanford and Lumberton, N.C. He was executive vice president and board member of the National Bank of Sanford. Later he served as senior vice president, corporate secretary, and member of the board of Southern National Bank. He is survived by a son, a daughter, four grandchildren, and three great-grandchildren.

**Margaret L. Marshall Blankenship** '43 of Roanoke, Va., on Sept. 18, 2013. She taught for decades in Roanoke public schools. Survivors include two nephews and a niece.

**Sherrick T. Kernoll** '43 of Fairfield, Iowa, on Oct. 22, 2013. He worked for both Boeing and Lockheed. He was also a collector and painter of modern art. He is survived by his wife, Nancy; two daughters; and four grandchildren.

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**Thomas P. Kiely** '43 of Middletown, N.J., on Dec. 6, 2013. He was a member of Duke's first lacrosse team. In 1942, he enlisted in the Coast Guard and was dispatched to the Aleutian Islands and the South Pacific to build long-range aid-to-navigation stations and ocean location markers. After his discharge in 1946, he joined Thomas Procter Co. and later became president of the family construction company. He served as chair of Monmouth Medical Center and as a founder and president of the Central Jersey Blood Bank. He is survived by three daughters, a son, eight grandchildren, and two great-grandchildren.

**Jessie M. Wall McCoy** B.S.N. '43, R.N. '43 of Atlanta, on Oct. 29, 2013. She served as a missionary in China and Brazil and worked as a public-health nurse in Montclair, N.J., specializing in hospice nursing. Survivors include a daughter.

**Carl L. Metz** B.S.M.E. '43 of Louisville, Ky., on Nov. 12, 2013. He was a high-school state champion in track and served as a lieutenant in the Navy during World War II. He later worked for American Air Filter for more than 25 years and retired from ICI Americas' Indiana Army Ammunition Plant. He volunteered with the American Red Cross and the Boy Scouts for more than 20 years. He is survived by two sons and three grandsons.

**Mary Ranger Green** '44 of Santa Rosa, Calif., on Oct. 20, 2013. After graduating from Duke, she earned a master's degree in library science from UNC-CH and began her career as a public-school librarian. In retirement, she volunteered for several service organizations, including HealthServe and Earthwatch. She is survived by three daughters and five granddaughters.

**Eleanor Whitney Happer** '44 of Durham, on Nov. 3, 2013. She was an active member of the Church of the Good Shepherd. She is survived by a son, two daughters, six grandchildren, and five great-grandchildren.

**Janet Sultner Lambert** '44 of Kingsport, Tenn., on May 6, 2013. During World War II, she worked as a social worker for the American Red Cross. She was an active member of her church, where she edited the newspaper, worked in the administrative office, and taught Sunday school. She is survived by her husband, **M. Charles Lambert** '44; a son, **Steven C. Lambert** '69; a daughter; four grandchildren, including **Shelly Lambert Carter** '00; and four great-grandchildren.

**Elizabeth Prizer Nothstein** '44 of Lincolnton, N.C., on July 25, 2013. She spent her career as a teacher. Survivors include a daughter.

**Sarah R. Bond Tompson** R.N. '45, B.S.N. '47 of Hockessin, Del., on Oct. 9, 2013. After earning her nursing degree from Duke, she taught anatomy and physiology at the university's nursing school for two years. She later moved to Wilmington, Del., where she served as a Sunday school teacher and superintendent, sang in the choir, and edited the church newsletter. She also volunteered as a Girl Scout leader and a poll worker during elections. She is survived by her husband, **Reade Y. Tompson** Ph.D. '45; three daughters; a sister; four grandchildren; and two great-grandchildren.

**Donald M. Bernard Jr.** B.S.M.E. '46 of Greensboro, on Oct. 28, 2013. He served in the Army during World War II. He later worked as a

project manager for Shell Oil Co., retiring in 1985. In 1959, he received the Junior Chamber of Commerce Distinguished Service Award as "Man of the Year" for the state of Washington. He is survived by his wife, **Betsy Hodges Bernard** '46; two daughters, including **Carol Bernard Snyder** '72, M.Div. '77; a son; a sister; and nine grandchildren.

**Jane Ammerman Blanton** '46 of Saxonburg, Pa., on Oct. 24, 2013. During World War II, she assembled parts for the Norden bombsite, which the Air Force and Navy used to improve precision during air raids. She later worked as a calculator at Bell Laboratories in New Jersey and as a mathematics instructor at Schenectady Community College in New York. She is survived by three daughters, including **Carol Blanton Lutken** '76, and seven grandchildren.

**John Van Dickens Jr.** '46 of Austin, Texas, on Jan. 16, 2013. Survivors include a daughter.

**Herman S. Hanni** '46 of Avon Park, Fla., on Oct. 17, 2013. He served in the Navy during World War II and later worked as an administrator for the state of Florida. He is survived by his wife, Myra; a daughter; and three grandchildren.

**Cornelia E. DeVan Hargett** '46 of Mobile, Ala., on June 24, 2013. She was a founding member of St. Mark United Methodist Church and a member of the Colonial Dames of the XVII Century Society. In addition, she served on the board of directors of the Dumas Wesley Community Center in Mobile. She is survived by two sons, 11 grandchildren, and five great-grandchildren.

**Camille L. Newman Johnston** '46 of Charlotte, on Oct. 1, 2013. During World War II, she worked for the American Red Cross in Washington. After the war, she joined Eastern Air Lines for six years. She later became placement director at Central Piedmont Community College in Charlotte, where she worked for 25 years before retiring. She is survived by three sons, including **Jeffrey M. Johnston** M.D. '78; a sister; a brother; and six grandchildren.

**Patricia A. Needham Laxar** '46 of Allentown, Pa., on Oct. 3, 2013. She served as president of the League of Women Voters. Later, she took up skiing as a hobby and became an accomplished competitor, winning four national championships in her NASTAR division as a member of the Mack Ski Club Racing Team. She is survived by three sons, a brother, and six grandchildren.

**Sarah R. Welsh Buie** R.N. '47 of Fort Belvoir, Va., on Oct. 18, 2013. She was a member of the Nursing Cadet Corps during World War II. She spent several years working in the accounting department at American University. In 1967, she moved with her family to Offutt Air Force Base in Omaha, Neb., where she served as a nurse at the base hospital. When the family moved back to McLean, Va., in 1971, she worked at Inova Fairfax Hospital, first as a founding staff member of the alcohol treatment unit and later in the neonatology unit. She is survived by two sons; a daughter; a brother; and three grandchildren, including **Andrew J. Buie** '17.

**John J. Gabellini Jr.** '47 of Bethlehem, Pa., on Dec. 12, 2013. He was the owner of Gabellini

Design in the Lehigh Valley and was an assistant at Hess's department store. He is survived by two sons, a daughter, and two granddaughters.

**Barbara Brittain Hodges** '47 of Hilton Head Island, S.C., on Nov. 9, 2013. She married an Army officer and was stationed around the country as well as in Turkey and Germany. She earned a bachelor's degree in landscape architecture from the School of Environmental Design at the University of Georgia in 1980 and established her own practice of residential landscape architecture, which she sustained for 15 years. She also wrote a regular garden and landscape-design column for a local magazine in Hilton Head Island. She is survived by two sons; a daughter; a sister, **Catherine Brittain Townsend** '52; a brother-in-law, **James J. Townsend Sr.** '51, M.D. '56; three grandchildren; and several nephews, including **James J. Townsend Jr.** '79 and **Thomas K. Townsend** '80.

**Ann C. Larkin Stokes** '47 of Greensboro, on Oct. 12, 2013. She taught high school in Thomasville, N.C., was active in the Lecture League, and volunteered with Meals on Wheels. She is survived by two sons, five grandchildren, and four great-grandchildren.

**Betsy Johnson Wicker** R.N. '47 of Columbia, S.C., on Sept. 26, 2013. She worked as a nurse at Rex Hospital in Raleigh for many years before finishing her career at St. Mary's Junior College infirmary, also in Raleigh. She is survived by two sons, a daughter, two brothers, a sister, and seven grandchildren.

**John R. Baldwin** '48 of Lancaster, Pa., on Oct. 18, 2013. He served in the Navy during World War II before attending Duke. After graduating, he joined Armstrong Cork Co., where he spent 13 years in field sales and management assignments. He then transferred to the company's office in Lancaster, completing his career as manager of organization research in the human resources section. While still employed, he completed a five-year program of self-study for the Episcopal ministry and was ordained in 1985. He served St. Thomas Episcopal Church in Lancaster until his death. He is survived by his wife, Jane; two sons; a daughter; and four grandchildren.

**Walter B. Burwell** HS '48 of Henderson, N.C., on Nov. 29, 2013. He attended The Citadel and the University of Virginia before obtaining his medical degree from Tulane University. He volunteered for service in the Navy Reserve after the attack on Pearl Harbor and was assigned as a medical officer, earning the Silver Star Medal for gallantry and intrepidity in action while aboard the USS *Suwannee*. After the war, he continued postgraduate training at Duke University Medical Center as an assistant resident and fellow in medicine. In 1948, he moved to Henderson, where he established a practice of internal medicine at Maria Pelham and Jubilee hospitals. He retired in 2002 after 53 years of medical service. He is survived by his wife, Kathleen; a son; a daughter; and four grandchildren.

**Elmer H. Gautier Jr.** B.S.E.E. '48 of Salem, Va., on Nov. 28, 2013. He served in the Navy during World War II. After the war, he worked for General Electric. He is survived by his wife, Donna; a son; two daughters; and five grandchildren.

**Ernest R. Hopke** A.M. '48, Ph.D. '51 of Williamsburg, Va., on Dec. 10, 2013. He was a

## Generations apart, two pediatricians share special link

He studied medicine before there was a polio vaccine. She researched mother-to-child HIV transmission in the 1990s. He advocated for child-proof medication caps at a time when they were rare. She looks to iPad technology to improve medical education.

Pediatricians Glenn A. Kiser, M.D., and Kathleen A. McGann, M.D., worked decades apart, but they share a special connection.

McGann is the first recipient of the Glenn A. Kiser and Muriel Kiser Endowed Professorship in Pediatrics at Duke, named for Dr. Kiser, a 1941 graduate of the Duke University School of Medicine, and his wife.



Dr. Glenn and Muriel Kiser

Kiser, who passed away in 2009, created the professorship through his will and a charitable trust. He completed his residency training in pediatrics and went on to have a long and distinguished medical career. Even after his death, Kiser is still caring for kids. His gift supports McGann's pediatric education and research initiatives at Duke.

As Vice Chair of Education, McGann splits her time between seeing patients and developing a comprehensive pediatric curriculum for the university's medical students, fellows, and residents. McGann is also a leading expert in pediatric infectious diseases, having treated patients with illnesses ranging from typhoid fever to HIV infection.

She was recruited to Duke from Washington University in St. Louis in



Dr. Kathleen McGann and medical student Amy Gaultney use paper towel pieces to enhance the lung exam of 5-year-old Casey Mendiola-Tippett at Duke Children's Hospital & Health Center. McGann helps train medical students in her Pediatric Infectious Diseases Clinic.

2006 because she's one of the best in her field. The Kiser estate gift has allowed her to make a greater impact as an educator and physician.

"The professorship has freed me to focus on innovative learning techniques and writing grants to fund them," says McGann. "We ensure that the students, fellows, and residents leave Duke with the knowledge and skills they need to take the best care of children."

McGann has initiated new programs like Pediatric Education Day where she brings national experts to campus for a departmental presentation, along with trainee and faculty workshops. She also started an annual training night where medical students conduct their first in-person exam on the children of faculty and residents.

"It's challenging to do your first real exam on a child," she says. "This is a way to practice in a low-pressure environment, and the students leave brimming with enthusiasm."

McGann is also examining the role of technology in improving patient outcomes and student and resident learning. Curriculum Online for Resident Education is a new digital tool where residents can find learning resources and detailed information about their

clinical rotations. She's looking to use iPads so residents can find key health information at the bedside, allowing them to spend more time with patients and enhance care.

Much like the planned gift that supports her work, McGann says working with children and trainees is an investment in the future.

"If you're treating 2-year-olds, you have the opportunity to affect many more years of their lives," she says. "But that's not all. If you work with students and residents, you are also educating the next generation to care for children well into the future."

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captain in the Army Air Corps during World War II. In his role as a meteorologist, he helped to forecast the weather for the D-Day landing. After receiving his doctorate in physics from Duke, he joined Dow Chemical Co. as a physicist in the spectroscopy laboratory. He later transferred to Dow-Badische, becoming the group's first senior research physicist and specializing in fiber physics and polymer characterization on acrylic and melt-spun fibers. He is survived by his wife, Mary; two sons; two daughters; a sister; 11 grandchildren; and six great-grandchildren.

**Charles W. Barker** '49 of St. Marys, Ga., on Nov. 3, 2013. He had a 33-year career with W.R. Grace, a chemical company in his hometown of Lumberton, N.C. He also served in the Air Force during the Korean War. He is survived by two sons, a daughter, seven grandchildren, and two great-grandchildren.

**William E. Bynum Jr.** '49 of Sumter, S.C., on Nov. 21, 2013. He served in the Air Force during both World War II and the Korean War. In between his deployments, he earned a degree in business administration at Duke and worked for Dixie Life Insurance in Sumter. Following his service in Korea, he worked at Bynum Lumber Co., which his father founded in 1918. He continued his military service in the Air Force Reserve, retiring as a major after 30 years. He is survived by his wife, Anna; two sons; a daughter; two brothers; a sister; nine grandchildren; and a great-granddaughter.

**Mary Jane Wright Carroll** R.N. '49 of Wenatchee, Wash., on Feb. 21, 2013. She led a 30-year career as a nurse, retiring in 1987 as a public-health nurse in Bremerton, Wash. She is survived by two daughters, a son, two sisters, four grandchildren, and two great-grandchildren.

**Dorothy W. Woodard Cooke** '49 of Wilson, N.C., on Oct. 25, 2013. She was a member of First United Methodist Church of Wilson and served a term as president of the Wilson Junior Woman's Club. She is survived by a daughter, **Jane W. Cooke Hawthorne** M.B.A. '90, and three grandchildren.

**Lewis C. Doggett** '49 of Highlands, N.C., on Oct. 30, 2013. He served in the Army during the Korean War. After graduating *summa cum laude* from Duke, he went on to a career as an executive in the textile industry. He served on the boards of community organizations, including the Martin Lipscomb Performing Arts Center and the Highlands town planning board. He is survived by his wife, Anne; three daughters; and three sons.

**John W. East** M.F. '49 of Staunton, Va., on Sept. 15, 2013. After serving in the Army during World War II, he obtained his master's in forestry from Duke and worked as forester on the staff of Virginia Tech's Agricultural Extension Service. He later worked for the CIA, serving as a secret agent for 22 years before his retirement. He concurrently served in the Army Reserve for 30 years. He is survived by his wife, Haldis Anderson; a son; a daughter; three stepchildren; a sister; four grandchildren; and a great-grandchild.

**Frances J. Chapman Keller** '49 of Decatur, Ala., on Dec. 1, 2012. She was an active member of Summerton United Methodist Church, serving as a Sunday-school teacher and choir member. She is survived by three daughters and six grandchildren.

**Willis Callaway Lindsey Jr.** '49 of Washington, Ga., on Jan. 22, 2012. He served in the Navy during World War II as a hospital corpsman in Maryland. He later owned and managed Lindsey Chevrolet Co. He was chair of the Wilkes County Board of Education during integration. He is survived by his wife, **Phyllis White Lindsey** '51; two daughters, including **Peggy Susan Lindsey** M.D. '78; a son; and seven grandchildren.

**Melinda Stern Mackenzie** '49 of Bristol, Va., on Aug. 16, 2013. She taught at San Diego State University as an associate professor and internal organizational consultant, later becoming the director of the university's counseling center. She then managed her own consulting practice, working with Fortune 500 companies such as Exxon, AT&T, and IBM. She is survived by her husband, James; three children; and three grandchildren.

**Mildred Taylor McClees** '49, of Elm City, N.C., on Nov. 22, 2013. She worked as a medical social worker for the Wilson County Health Department for 30 years. She was also a founding member of the Arts Council of Wilson and a member of the Wilson Country Club Ladies Golf Association. She is survived by her husband, **Thomas A. McClees Sr.** B.S.C.E. '48; a daughter; and a son.

**Harold R. Barber Jr.** '50, L '52 of Nashville, Tenn., on Oct. 19, 2013. He served in the Army Judge Advocate General Corps during the Korean War. He later became the CEO of Coast Federal Savings & Loan Association and the executive vice president of Magnolia Federal Bank. He also served as director of the Federal Home Loan Bank of Little Rock and was a member of the first board of directors of the Federal Home Loan Mortgage Corp. Within his community, he chaired the Harrison County Advertising Commission and was a trustee of Belhaven College. He is survived by his wife, Donna; two daughters; a son; a brother; a sister; and four grandchildren.

**Joseph L. Biggs** B.S.E.E. '50 of Chesterfield, Va., on Oct. 29, 2013. He served for two years in the Navy before attending Duke. After graduating, he spent more than 30 years working as a supervisor at DuPont chemical company. After he retired from DuPont, he began a second career selling real estate. He also chaired the board of zoning appeals in Chesterfield for 13 years. He is survived by three daughters, a sister, five grandchildren, and a great-grandson.

**Roger B. Bost** HS '50 of Little Rock, Ark., on Nov. 19, 2013. He earned his medical degree from the University of Arkansas School of Medicine in three years and served in the Navy during World War II. After his discharge, he was accepted into pediatric residency at Duke University Hospital, where he received the Bagby Award for outstanding first-year resident. After teaching pediatrics at Tulane University, he returned to Arkansas to open a child family guidance center to treat emotional and behavioral problems, as well as a school for the developmentally disabled. He served as president of the Fort Smith School Board, whose schools became the first in the state to institute special education classrooms. In 1965, he joined the faculty of the UAMS College of Medicine as a professor of pediatrics and later helped create Georgia's Department of Human Services. He is survived by his wife, Kathryn; three daughters; two sons; 12 grandchildren; and seven great-grandchildren.

**Charles L. Crowe** '50 of Boulder, Colo., on Dec. 1, 2013. He served in the Army in Germany during the early 1950s. He returned home to complete a combined degree from Union Seminary and Columbia University, where he received a doctorate in philosophy of religion. He taught philosophy and ethics at Sweet Briar College from 1956 to 1964 and initiated the college's integration. Later, he spent three years as national representative and director of the Dissertation Fellowship Program within the Woodrow Wilson Foundation in Princeton, N.J., followed by a long tenure at the University of Colorado. While in Boulder, he served as associate dean of the graduate school, dean of the graduate school, and chancellor of the Boulder campus. He is survived by his wife, Margot; two sons; a daughter; four stepchildren; a sister; and three grandchildren.

**William T. Freeman** '50 of Naples, Fla., on Sept. 19, 2013. Survivors include a brother.

**Catherine L. Reynolds Ingram** '50 of Ocean Isle Beach, N.C., on Nov. 8, 2013. She moved to Charlotte and became active in Charlotte's Charity League, Alexander Children's Home, and Florence Crittenton Services. Along with her husband, Stuart, she started the Museum of Coastal Carolina and the Ingram Planetarium. She is survived by two sons, two granddaughters, and two great-grandchildren.

**Richard E. Kendrick** HS '50 of Sacramento, Calif., on Nov. 29, 2012. He graduated from Stanford University and Stanford Medical School before moving to Boston, where he worked as a resident in orthopaedic surgery at Boston Children's Hospital. As a lieutenant in the Navy, he spent a year at the Naval Hospital in Long Beach, Calif. After his service in Long Beach, he became an orthopaedic resident at Duke Medical School and moved to Sacramento in 1950 to join a private orthopaedic surgery practice. He is survived by two sons, two grandsons, and a great-grandson.

**Marilyn Jean Holland Radley** '50 of Doylestown, Pa., on Feb. 2, 2012. She worked for the Red Cross. Survivors include a son and a granddaughter.

**Louise C. Tennent Smith** '50 of Columbus, Ga., on Oct. 16, 2013. She sold real estate in Miami before moving to Columbus, where she worked as a food editor and social columnist for the *Columbus Ledger-Enquirer* from 1985 to 1993. She was a member of local civic organizations, including the Historic Columbus Foundation and the Junior League of Columbus. She is survived by a son, a sister, and a brother.

**Milton Applefield** M.F. '51 of Athens, Ga., on Oct. 17, 2013. He served in the Army in both Europe and the Pacific during World War II. He then used the G.I. Bill to study forestry management at Duke. He worked for a paper and lumber company, the Texas Forest Service, and the U.S. Forest Service before retiring in 1980. He played soccer and ran track while in college and participated in the Senior Olympics. He is survived by his wife, Flo; four sons; four stepchildren; seven grandchildren; and two great-grandchildren.

**Daniel K. Christenberry** M.Div. '51 of Bay Minette, Ala., on Sept. 18, 2013. During World War II he was drafted into the Civilian Public Service and was assigned to the U.S. Parks Service and

the USDA Soil and Water Conservation, where he participated in minimum-diet experiments to help the U.S. develop a food source that could be produced rapidly in war-torn Europe. He attended Duke's Divinity School while working for the United Nations Relief and Rehabilitation Administration. He later served Methodist churches in Virginia, North Carolina, and Alabama, completing 52 years of ministry and pastoral care. He is survived by his wife, Mary; a brother; and nine children.

**Jack V. Eisaman** B.S.C.E. '51 of Tacoma, Wash., on Feb. 28, 2012.

**William G. Fick Jr.** '51 of High Point, N.C., on Sept. 24, 2013. While at Duke he was managing editor of *The Chronicle* and a member of Tau Beta Phi and Phi Kappa Psi. He served in the Navy for three years during the Korean War, retiring as a lieutenant. Following his service, he earned a bachelor's degree in petroleum engineering from the University of Texas-Austin, and joined Exxon Mobil. He was assigned to Sumatra, Indonesia, later moving to Tijuana, Venezuela, and Dhahran, Saudi Arabia. After 33 years with Exxon, he retired as a senior engineer. He is survived by his wife, Vera; a daughter; a son, **William G. Fick III** '86; three grandchildren; two nieces, **Lasley Fick Gober** '74 and **Hillary Fick Evans** '78; and a nephew, **Duncan D. Fick** '76.

**Edward I. Honig** M.D. '51, B.S.M. '52 of New York, on March 4, 2012. He was a cardiologist and teacher for more than 50 years. He is survived by his wife, Paula; six children; and 11 grandchildren.

**Elizabeth Lydon Maas** '51 of New York, on Feb. 19, 2013. Survivors include two brothers.

**John W. Maxwell** '51, J.D. '54 of Provo, Utah, on June 11, 2013. He became a judge advocate in the Air Force in 1955 and received an M.B.A. from American University. He worked in marketing of the Yellow Pages for both Atlantic Telephone & Telegraph and International Telephone & Telegraph, spending nine years overseas in Belgium and Japan. He is survived by his wife, Sue; a daughter; five grandchildren; and 13 great-grandchildren.

**Evelyn J. Murdoch** '51 of Chapel Hill, on Oct. 22, 2013. She grew up in Malaysia, Australia, and England before moving to the U.S. in 1946. She entered Duke at the age of 16 and majored in botany; she did advanced study in botany and earned a second degree from Cambridge University. She worked as a research technician in seed testing for the North Carolina Department of Agriculture and later became a medical technician in clinical and basic research at NC Memorial Hospital and basic research at Duke Medical Center. After completing an accounting program at Durham Technical Institute, she spent the last 10 years of her career working for H&R Block.

**Emanuel J. Walker** B.S.M.E. '51 of Huntsville, Ala., on Oct. 3, 2013. He served in the Navy aboard the USS *Augusta* until 1943, becoming signalman first class. After graduating from Duke, he moved to Flint, Mich., to work on Army contracts at General Motors. He spent the rest of his career as an engineer at several military facilities, including the Army's Ballistic Missile Agency. He is survived by his wife, Betty; a son; a daughter; and a granddaughter.

**John T. Warmath Jr.** '51 of Greensboro, on Dec. 27, 2013. He served in the Navy as an en-

sign and a lieutenant during the Korean War. Following his service, he received an M.B.A. from the Wharton School at the University of Pennsylvania and spent his entire 38-year career with Jefferson-Pilot Corp. He retired as executive vice president, chief investment officer, and a member of the board of directors. He was a member of the board of visitors at the Fuqua School of Business, and he and his wife were a founding family of the Greensboro Day School, where he served as board chair. He is survived by his wife, Sarah; four children, including **Alexis F. Warmath** '78, M.B.A. '83, M.E.M. '93 and **Timothy D. Warmath** '84; seven grandchildren; and four great-grandchildren.

**Rosamund H. Law Allison** '52 of Washington, Ill., on Nov. 28, 2013. She worked as a substitute teacher at Washington Central Grade School and taught in Glasgow, Scotland. She is survived by her husband, **Raymond D. Allison** '52; a son; a brother; and a grandson.

**Ruth E. Guenther Anderson** B.S.N.Ed. '52 of Fort Myers, Fla., on Oct. 18, 2013. She graduated from Mound Park Hospital School of Nursing in 1944 and served as a nurse for the Veterans Administration at Bay Pines before attending Duke. After earning her degree in nursing education, she worked as a registered nurse in St. Petersburg, Fla., for many years before joining the Pinellas County Health Department. She later volunteered at Citrus Memorial Hospital. She is survived by a daughter and a son.

**Joseph J. Bethany Jr.** M.D. '52 of Tuscaloosa, Ala., on Oct. 3, 2013. He practiced family medicine in Eutaw, Ala., for 25 years, retir-

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# IDEAS MOVE THE



Left to right: Jake Reeder, Master of Business Administration; Robert Collins, Mechanical Engineering; Jili Wu, Master of Environmental Management; Gale Boyd, Director of the Triangle Research Data Center and Senior Research Scholar, Economics (Faculty Leader); and Kunyao Yu, Mechanical Engineering

# THAT WORLD

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How do you help the auto manufacturing industry be more energy efficient? You bring together a team of Duke undergraduates, graduate students, and faculty with outside experts. Working directly with General Motors, Nissan, and Toyota, Duke students and faculty developed creative solutions to analyze energy use in the manufacturing process, explored using renewable energy at plants, and developed models to understand how the weather impacts the amount of energy used to paint vehicles. The students now plan to present their findings at a national industry conference. All of this was made possible through Bass Connections, a new initiative that brings students from different disciplines together to solve complex problems.

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ing from private practice in 1986. He then accepted a staff position at Russell Student Health Center at the University of Alabama, where he worked for 10 years. He is survived by three daughters and seven grandchildren.

**Marjorie N. Bowers Greene** '52 of Lenoir, N.C., on Oct. 13, 2013. She taught at Caldwell Community College for 25 years. She was the chair of the English department and was made professor emerita upon her retirement. She is survived by her husband, James; two daughters; a son; and four grandchildren.

**Frank C. Murphey** '52 of Anderson, S.C., on Sept. 27, 2013. He served in the Army for two years during the Korean War. He had a career in banking, serving as executive vice president of N.G. Spier, senior vice president at Wachovia Bank, and senior vice president of South Carolina National Bank in Columbia, S.C. He is survived by three daughters, 12 grandchildren, and three great-grandchildren.

**Jerry H. Reeves III** '52 of Bluffton, S.C., on Oct. 20, 2013. He had a 20-year career with Union Camp Corp. In 1972, he and his wife started Resort Services Inc., a commercial laundry and linen supply company now operated by his sons. In 1986, he and other partners bought the Bluffton Oyster Co. out of bankruptcy, later selling it to Beaufort County on the grounds that the factory remain operational, the only factory of its kind on the South Carolina coast. He is survived by his wife, Mary; five sons; a brother; a sister; 14 grandchildren; and five great-grandchildren.

**George W. Hambrick Jr.** HS '53 of Charlottesville, Va., on Dec. 10, 2013. Following World War II, he served in the Army Medical Corps in Okinawa, Japan. After obtaining his medical degree, he held a number of academic appointments, including chair of the departments of dermatology at the Johns Hopkins University, the University of Cincinnati, and Cornell University. In 1987, he established the American Skin Association, which educates and researches combating skin disorders. He also served as trustee and president of the Dermatology Foundation, as president of the Society for Investigative Dermatology, and as an editorial board member of the *Journal of the American Academy of Dermatology*. In 1993, Weill Cornell Medical College established a professorship in his name. Survivors include a niece.

**William W. Weil** '53 of St. Petersburg, Fla., on Oct. 16, 2013. During the Korean War, he served with the Aviation Engineers, attaining the rank of sergeant. After completing his service, he returned to Greenfield, Ind., where he became manager of the Broadway Lumber Co. and Weil Theatre. He also served on the board of directors of the Greenfield Banking Co. for more than 50 years. Survivors include several nephews.

**Joseph P. Bunn** '54, M.D. '57, of Winter Park, Fla., on Dec. 2, 2013. He served as a captain in the Air Force after graduating from Duke. He was a pediatrician in central Florida for 35 years. He is survived by his wife, Katherine; three daughters; a son; and 11 grandchildren.

**Jack R. Conrad** Ph.D. '54 of Memphis, Tenn., on Dec. 2, 2013. He served in the Army Air

Corps during World War II, completing more than 20 missions as navigator on a B-26. After earning his doctorate from Duke, he became founder and chair of the anthropology and sociology department at Southwestern at Memphis (now Rhodes College), a position he held for 30 years. He is survived by his wife, Madelyn; two daughters; a son; and eight grandchildren.

**Marshall G. Curran Jr.** LL.B. '54 of Fort Lauderdale, Fla., on July 26, 2013. He was admitted to the Florida bar in 1955 and practiced as a civil trial lawyer for more than 40 years. He is survived by a son, **Marshall G. Curran III** '82; two daughters; and six grandchildren.

**Norma J. Revels Groover** '54 of Charleston, S.C., on Dec. 7, 2013. She was an active member of St. Andrew's Presbyterian Church and the PEO Sisterhood. Survivors include three daughters.

**Hyer P. Larsen Jr.** '54 of LaBelle, Fla., on Nov. 5, 2013. He was a member of the varsity basketball team at Duke. He served in the Marines during the Korean War and received a Purple Heart. Following his service, he became an owner of several enterprises, including a restaurant, a marina, and several car dealerships. He is survived by his wife, Patricia; two daughters; a stepdaughter; four grandchildren; and a great-grandson.

**Willard I. "Woody" Gatling Jr.** '55 of Mint Hill, N.C., on Oct. 20, 2013. He served in the Army for two years after graduating from Duke and spent most of his career in the banking industry. He also served on the advisory council of the Adult Rehabilitation Center of the Charlotte Salvation Army and was president of the Charlotte Kiwanis Club. He is survived by his wife, Margaret; two daughters; a sister; and three grandchildren.

**Peter E. Landau** '55 of New York, on Oct. 23, 2013. After graduating from Duke, he joined *Newsweek* as a reporter. In the early 1970s, he became editor of *Institutional Investor*, which, under his leadership, became the first business magazine to win the National Magazine Award for Reporting in 1983. He coauthored *Presidential Lies*, an illustrated history of U.S. presidents who played golf. He was also the historian at America's oldest golf club, St. Andrew's in Hastings-on-Hudson, N.Y.

**La Vern Olney Lankford** '55 of Dallas, on July 17, 2013. After graduating from Duke, she worked as a china buyer at Neiman-Marcus. She volunteered at local schools, the Dallas Historical Society, and several other community organizations. She is survived by four children, a sister, and eight grandchildren.

**Michael B. Miller** B.S.M.E. '55 of Wilmington, N.C., on Oct. 1, 2013. At Duke, he was a midfielder on the lacrosse team. He served as a lieutenant in the Navy for two years before earning his engineering license and working for several engineering consulting firms in New Jersey and New York. He was executive director of South Monmouth Regional Sewer Authority in Belmar, N.J., for 12 years. He also served on the New Jersey Environmental Advisory Board and was a founding member of the Association of Environmental Authorities. In his community of Brielle, N.J., he served on the town council and refereed high-school lacrosse. He is survived by his wife, Susan; a daughter; two sons; and seven grandchildren.

**William H. Barnes** '56 of Windermere, Fla., on Dec. 3, 2013. He served in the Army for two years. A professional musician, he was a founding member of the Bix Beiderbecke Memorial Jazz Band and the Bix Festival in Davenport, Iowa. He also worked at Walt Disney World as a performer for 11 years. He is survived by his wife, Mimi; two daughters; and three grandchildren.

**Marion M. Duncan Jr.** Ph.D. '56 of Athens, Ga., on April 14, 2010. He was professor emeritus of physics at the University of Georgia.

**S. James English III** '56 of Pikesville, Md., on Nov. 3, 2013. He got his start in radio broadcasting in 1956 as a disc jockey at WKBO-AM in Harrisburg, Pa. During the late 1950s and early 1960s, he worked for the NBC radio network, covering Pennsylvania state politics and breaking stories such as the Lykens Mine disaster. He moved to Baltimore in 1966 and became the on-air weatherman for WBAL-TV. In addition to working for several other news broadcasts and radio stations, he taught at Towson University for 15 years. He is survived by his wife, Deborah; three children; a brother; six grandchildren; and a nephew, **Peter A. English** M.B.A. '98.

**Irvin H. Hart** Ph.D. '56 of Camarillo, Calif., on June 11, 2010.

**Howard E. Kaplan** M.A.T. '56 of Chester, Conn., on Sept. 28, 2013. He worked as a financial adviser for more than 50 years. He also owned a number of small businesses, including a Chinese cooking school, a New York-style deli, and Howard's Bread. He is survived by his wife, Pauline; a daughter; two stepdaughters; and a brother.

**Robert A. Ladd** '56 of Richmond, Ind., on Nov. 2, 2013. After graduating from Duke, where he played football, he served in the Army for two years. He then worked in sales for more than 40 years. He is survived by his wife, Carol; two sons; a daughter; three stepchildren; and five granddaughters.

**Joseph F. McDonald** B.S.M.E. '56 of Stamford, Conn., on March 28, 2010. He served in the Army during World War II in the European theater. He worked for Machlett Laboratories in Stamford for more than 40 years. He is survived by a daughter, two sons, a brother, and two granddaughters.

**Philip E. Shaw** '56 of Largo, Fla., on Nov. 1, 2013. After graduating from Duke, he worked at the Sterling-Winthrop Research Institute in Rensselaer, N.Y., for five years. He then had a 35-year career with the U.S. Department of Agriculture as a research scientist and flavor chemist. He is survived by his wife, Marilyn; a son; a daughter; five grandchildren; and two great-grandchildren.

**Thomas N. Wilson** B.S.C.E. '56 of Raleigh, on June 9, 2013. He worked as an engineer and land surveyor for the state of North Carolina for 30 years, retiring as chief engineer of the central engineering branch of the Department of Corrections. He is survived by two sons, a daughter, three grandchildren, and four great-grandchildren.

**Elizabeth Justice Lambert** B.S.M.T. '57 of Ball Ground, Ga., on Sept. 11, 2010. Most recently, she worked as a medical technologist for Dorminy Medical Center in Fitzgerald, Ga. She

was also a member of the American Society of Clinical Pathologists. She is survived by a son, a brother, and four grandchildren.

**Jerry K. Mullins** '57 of Hamlin, W.Va., on Sept. 26, 2013. He owned and managed Mullins Ford and served on the Ford Dealer Council. He is survived by a son, a daughter, and two grandchildren.

**Daniel D. Sain** M.Div. '57 of Daytona Beach, Fla., on Aug. 11, 2013. After graduating from Duke Divinity School, he attended Emory University, where he earned his doctorate in biblical theology. He served as a pastor of United Methodist churches in North Carolina, Georgia, and Florida. In addition, he had a career in education, teaching at Spartanburg Junior College, Pfeiffer College, and Embry-Riddle University, where he served as dean of aeronautical studies. For the last 16 years of his career, he headed the department of religion and philosophy at Bethune-Cookman College, retiring in 1993. He is survived by his wife, Lavada; a son; a daughter; two sisters; a brother; and six grandchildren.

**Phillip K. Sotel** '57, J.D. '62 of Pasadena, Calif., on Oct. 6, 2013. He had a career in law, specializing in international oil and gas law, utility law, and real estate. Survivors include a nephew.

**Robert L. Irwin** M.D. '58 of Knoxville, Tenn., on April 24, 2013. He was a chaplain and assistant professor of religion and ethics at Tennessee Wesleyan College in Athens, Tenn., and volunteered for Interfaith Hospitality Network, helping to find homes for more than 2,500 families. He served churches across the country, from Wilmington, N.C., to Sacramento, Calif., and retired from ministry in the United Methodist Church after 55 years. He is survived by his wife, Jane; two daughters; a son; five grandchildren; and two great-grandchildren.

**Van L. Kenyon III** B.S.M.E. '58 of Manchester, Tenn., on March 2, 2011. He worked as an engineer at the Arnold Engineering Development Center at Arnold Air Force Base in Tennessee. He is survived by a son, a daughter, two sisters, a brother, and five grandchildren.

**Franklin V. Peale** HS '58 of Pittsford, N.Y., on Nov. 4, 2012. He practiced orthopaedic surgery from 1963 to 2000 at the Genesee Hospital in Rochester, N.Y. A specialist in pediatric orthopaedics, he served as the attending orthopaedic surgeon at the Birth Defects Clinic at Strong Memorial Hospital. He also served on the board of directors of the Monroe County Medical Society and as president of the medical and dental staff of The Genesee Hospital. He is survived by two sons, a daughter, a brother, a sister, and two grandchildren.

**Barbara B. Schnorrenberg** Ph.D. '58 of Alexandria, Va., on Oct. 10, 2013. She taught at UNC-CH and later at the University of Alabama. She and her husband then moved to Alexandria and joined the Arlington Learning in Retirement Institute of Encore Learning, where she taught courses on the Stuarts, the Tudors, and the emergence of the women's movement. She is survived by her husband, John; a son; and a daughter.

**Jerrell S. Bedford Sr.** '59 of Forest City, N.C., on Oct. 8, 2013. He graduated from the Carolina School of Broadcasting and received an

engineering degree from the Cleveland Institute of Electronics in Radio and Television. Afflicted with polio since age 12, he was honored as South Carolina's Handicapped Employee of the Year at WSPA-TV in Spartanburg, S.C., where he worked as an engineer. Active in the community with the Forest City Little League and the Boy Scouts, he also taught many handicapped students how to drive. He is survived by his wife, Patricia; two sons; a sister; and four grandchildren.

**Daniel H. Blatt** '59 of Sherman Oaks, Calif., on Oct. 9, 2013. He started his career as a lawyer before becoming a film executive and producer for four decades. As vice president for Palomar Pictures from 1970 to 1975, he oversaw films including *Sleuth*, *The Heartbreak Kid*, and *The Taking of Pelham 123*. After making the transition to producer, he was nominated for an Emmy Award for outstanding special drama or comedy for producing NBC's *Raid on Entebbe* (1976). The film won a Golden Globe for best telefilm. He is survived by his wife, Marti; two daughters; a brother; a sister; and a grandson.

**Giles O. Bowman Sr.** B.D. '59 of Charlotte, on Oct. 12, 2013. He spent nearly 40 years as a pastor in Methodist churches in western North Carolina. In his retirement, he enjoyed serving the community as a school-bus driver, a substitute teacher, and a fast-food host. He is survived by a daughter, a son, five grandchildren, and two great-grandchildren.

**Eugenie R. Jacoby Dunnells** B.S.N. '59 of Washington, on Dec. 7, 2013. She served as executive assistant to Maryland first lady Patricia Hughes for two years, as director of legislation for Speaker of the Maryland House of Delegates Benjamin L. Cardin, and as executive director of the Maryland Health Management Organizations. She also taught at the University of Maryland School of Nursing in Baltimore and ended her career as a health policy consultant. The University of Maryland School of Nursing has established an endowment scholarship in her honor. She is survived by her husband, Dick; two daughters; a sister; and three grandchildren.

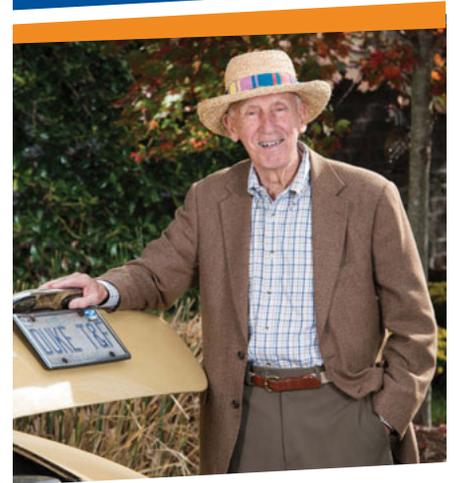
**Margaret L. Hamilton Johnston** '59 of Weldon, N.C., on Oct. 19, 2013. She was involved with the Colonial Dames, Thursday Afternoon Club, Bridge Club, and historical preservation. She is survived by two daughters, two sons, and 10 grandchildren.

**Cheston V. Mottershead Jr.** '59 of Rocky Mount, N.C., on Sept. 26, 2013. He was president of the Duke Glee Club and sang in the Chapel Choir. After graduating, he joined the Marine Corps through NROTC. He was stationed in Okinawa, Japan, and survived a helicopter crash in 1961 while returning from missile site inspections. After his recovery, he earned a graduate degree in history from the University of Illinois and became a history professor at N.C. Wesleyan College. Driven to improve the lives of disabled people, he took a position at Tri-County Industries in 1974 and was elected president of the N.C. Rehabilitation Association in 1977. In 1992, he was appointed executive director of the governor's Advocacy Council for Persons with Disabilities. He is survived by his wife, Rochelle; four children; and five grandchildren.

**Hugh H. Paterson** '59 of Prince George, Canada, on Jan. 13, 2011. He attended Duke on a

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golf scholarship and earned his medical degree from the University of Toronto in 1963. As a general practitioner, he served the communities of Fort St. James and Prince George. When he left Fort St. James, he was presented with a key to the city in recognition of his services. In retirement, he served in the oncology clinic and as a learning tutor with the Northern Medical Program. He is survived by his wife, Jeannette, and three daughters.

**Billy McCoy Carden** '60, M.Div. '63 of Semora, N.C., on Nov. 16, 2013. He served for 33 years in the N.C. Annual Conference, spending time as a pastor at 13 United Methodist churches. In addition, he served on the conference's boards of ordained ministry, evangelism, pensions, and trustees. After retiring in 1994, he moved to Hyco Lake, where he pursued his love of fishing. In 2004, he was named pastor emeritus of Concord United Methodist Church in Roxboro, N.C. He is survived by a daughter, a son, and two granddaughters.

**Benjamin J. Floyd** HS '60 of Texarkana, Texas, on July 31, 2013. As a physician for Yarbrough-Floyd-Hunter Associates, he was a member of the American Medical Association, the American Urological Society, and the American Board of Urology. He also served in the Air Force during the Korean War. He is survived by his wife, **Helen Stokes Floyd** '56; two sons; a sister; and six grandchildren.

**Ralph von Tresckow Napp** M.Ed. '60, Ed.D. '64 of Winston-Salem, on Sept. 9, 2013. He did postgraduate work in American studies and Freudian analysis at the Ludwig Maximilians Universität in Munich, Germany. He served in the Army during World War II and in the 82nd Airborne during the Korean War. After his service, he taught sociology and anthropology at the University of Maryland overseas, East Carolina University, James Madison University, Winston-Salem State University, and Bogazici University in Istanbul, Turkey. He is survived by his wife, Hannelore; a son; a daughter; and four grandchildren.

**Winslow R. Remley** A.M. '60 of Washington, on Oct. 8, 2013. He served in the Army during the Korean War. After studying physics and mathematics at the University of Georgia, he won the Woodrow Wilson Foundation Scholarship to attend Duke. He later worked at IBM, where he developed patents in acoustics and engineering. He is survived by a son, a daughter, a brother, a sister, and 11 grandchildren.

**Thomas "T.O." Allan** '61 of Fort Worth, Texas, on Nov. 1, 2013. After graduating from Duke, he served as tank commander in the Marine Corps, attaining the rank of captain. He then received his M.B.A. from the Wharton School at the University of Pennsylvania. He became president of a subsidiary of National Student Marketing Corp. in New York and later a partner at Collegiate Products Inc. in Tulsa, Okla. He eventually became the company's owner and relocated to Fort Worth. He is survived by his wife, Suzy; three sons; a sister; and two grandchildren.

**Charles B. Clapp** B.D. '61 of Santa Barbara, Calif., on April 5, 2013.

**Edward L. Greenblatt** '61 of Blacklick, Ohio, on Oct. 23, 2012. He earned law degrees from both Emory University and New York University.

After working for the U.S. Treasury, he joined the law firm of Haas Holland & Levison, where he became a partner. He later formed Lipshutz Greenblatt Attorneys at Law. He is survived by his wife, Sherry; a daughter; and two granddaughters.

**Harry C. Huneycutt** M.D. '61 of Reno, Nev., on Sept. 28, 2013. He graduated from Virginia Military Institute and completed his medical degree and residency in obstetrics and gynecology at Duke. After serving as a military physician in Germany from 1967 to 1970, he made Reno his permanent home. He delivered more than 5,000 babies in his 43-year career. He is survived by his wife, Rita; five children; a sister; and six grandchildren.

**Samuel J. Friedberg** HS '62 of San Antonio, on Oct. 15, 2013. Born in New York, he spent part of his childhood in Europe, returning to the U.S. in 1939 to escape the rise of Nazism. He earned his medical degree from the University of Pennsylvania, but interrupted his residency in 1954 to enlist in the Navy. After his tour of duty, he completed his residency at Duke University Medical Center, remaining there as an associate professor of medicine and director of the cooperative lipid laboratory for the Veterans Administration Cooperative Studies in Atherosclerosis. In 1968, he moved to San Antonio, where he was a founding faculty member of the University of Texas Health Science Center. He is survived by his wife, Ruth; a son; a daughter; and two grandchildren.

**Forney Hutchinson III** M.D. '68 of Charlotte, on Jan. 20, 2013. After spending two years in Duke's general surgery program, he served in the Army as an orthopaedic surgeon, attaining the rank of major. In 1976, he joined Miller Orthopaedic Clinic in Charlotte, concentrating on hand and elbow surgery until his retirement in 2008. He also served as chief of the orthopaedic department at Carolinas HealthCare System for 15 years and as a consulting surgeon for the Carolina Panthers. He is survived by his wife, Valeria; two daughters; and a sister.

**Russell D. Gibson Eckel** '69 of Baltimore, on Sept. 26, 2013. She spent her career as a nurse, graduating from Case Western Reserve University's Frances Payne Bolton School of Nursing in 1974. She was involved in St. Alban's Parish in Washington. She is survived by a son and a daughter.

**Robert W. Garner III** '70 of Rougemont, N.C., on Aug. 12, 2013. He is survived by his wife, Beth Kelly, and a sister.

**Frederick R. Burnett** '71 of Jackson, Tenn., on Oct. 1, 2013. He graduated as valedictorian of the Southern College of Optometry in Memphis, Tenn. In 1983, he and his wife opened an optometry practice in Jackson. He was president of the Tennessee Optometric Association and a founding member of the American Optometric Society. He is survived by his wife, Charlene.

**A.G. Foster Jr.** '71 of Wilkesboro, N.C., on Oct. 30, 2012. He served in the Navy during World War II. He later worked as a salesman for Quality Building Supply. He is survived by his wife, Wilma.

**Roy R. Robertson Jr.** J.D. '73 of Birmingham, Ala., on Oct. 20, 2013. He served as a budget officer in the Air Force in Vietnam, attaining the rank of captain. After graduating from Duke's law school, he became a partner at Balch & Bingham

in Birmingham, where he practiced natural-gas and energy law. He served on the board of directors of La Lumiere School in La Porte, Ind. He is survived by his wife, Lynda; two daughters; a son; his mother; a brother; and five grandchildren.

**James L. Pritchard** M.B.A. '74 of Madison, Ala., on Oct. 21, 2013. He served in the military. He is survived by two brothers and a sister.

**Laird L. Rush** Ed.D. '74 of Blacksburg, Va., on Oct. 5, 2013. He served in the Navy during World War II. He coached at Millboro High School and Albemarle High School and taught at Ferrum Junior College and Radford College. Most recently, he was assistant director of teacher placement within the education department at Virginia Tech. He is survived by his wife, Martha Jane, and a daughter.

**Michael J. Conwell** B.H.S. '75 of Greensboro, on Oct. 20, 2013. He worked as a physician assistant for cardiovascular and thoracic surgeons in Greensboro for 10 years. He later served as an officer in the Greensboro Police Department for 22 years, assigned to the financial crimes and homicide squads. After retirement, he served as a medical examiner for Guilford and Rockingham counties. He is survived by his wife, Rita Shugart; two daughters; a son; and seven grandchildren.

**Stephen C. Frederick** Ph.D. '75 of The Villages, Fla., on May 28, 2013. His spent his career in a variety of professions, working as a gemologist, an insurance agent, a minister, and an adjunct English professor at Wilmington College. Most recently, he was a technical writer and strategic planner for Delaware's Office of Information Services and Department of Children, Youth, and Their Families. He is survived by his wife, Lucille; two daughters; two sisters; and four grandchildren.

**Phyllis Ricks May** '75 of Durham, on Oct. 12, 2013. A social worker, she served at the Moravian Home in Winston-Salem and the Methodist Retirement Home before becoming the executive director of ARC. She was also the vice president of E&E Coachwork. She is survived by her husband, Eddie; a stepdaughter; her parents; a sister; and four step-grandchildren.

**Eric P. Hansen** J.D. '76 of Wayzata, Minn., on June 8, 2013. He was a lawyer for 3M for 30 years. He is survived by his wife, Kathleen; six children; a sister; and two granddaughters.

**Marvin Schiller** J.D. '76 of Raleigh, on Aug. 18, 2013. He cofounded Schiller & Schiller, a Raleigh-based law firm, with his wife. They focused on state disability benefits and employee rights. In 2008, he honored his late wife by establishing the Carol Masters Schiller Distinguished Scholar of Neurology at the UNC School of Medicine. He is survived by a son, a daughter, three sisters, a brother, and four grandchildren.

**Wesley C. Miller** M.E.M. '77 of Newburgh, Ind., on Dec. 3, 2013. He was a member of the National Conservancy and worked as a mineral resource landsman. He is survived by a son, two stepsons, his mother, a sister, and a brother.

**Betty Goodson Sutton** M.Ed. '77 of Cary, N.C., on Oct. 12, 2013. She was an active member of First Presbyterian Church in Raleigh. Survivors include two brothers.

**Sara Kelly Fields** '78 of New York, on Nov. 16, 2013. After graduating from Duke, she became a research analyst with Credit Suisse First Boston. Most recently, she worked as a sales representative for Bloomberg. She is survived by a brother, **Jack C. Fields Jr.** '81; a sister, **Mary Clay Flynn** '83; a sister-in-law, **Anne Kearns Fields** B.S.N. '82; and several nieces and nephews, including **Margaret Anne Fields** '11.

**Steven K. Robison** J.D. '79 of Seymour, Ind., on Oct. 7, 2013. He was a partner at Montgomery, Elsner & Pardieck, where he practiced for 33 years in the area of Social Security disability law. He was an active member of Jackson Lodge 146, president of Jackson County Big Brothers/Big Sisters, and chair of the Seymour zoning appeals board. Survivors include a brother.

**Margaret G. Kemper** Ph.D. '80 of Chapel Hill, on Dec. 4, 2013. She spent 32 years as a therapist in private practice and with the counseling and psychology services at UNC-Greensboro and UNC-CH. She is survived by her husband, **Michael W. Patrick** '72, A.M. '77; a son, **William G. Patrick** B.S.M.E. '10; a daughter, **Susan Kemper Patrick** '07; a sister; and a brother.

**Milford Monroe Reynolds II** B.S.E. '80 of San Jose, Calif., on May 30, 2013. He was a lawyer who specialized in criminal cases and lemon law.

**Elmer J. Cummings** Ed.D. '81 of Wilson, N.C., on Oct. 28, 2013. After serving in the Army, he began his career in public education in Wilson County. He taught at Frederick Douglas High School, later becoming the school's guidance counselor and principal. After receiving his doctorate from Duke, he became director of curriculum and instruction of Wilson County schools. He is survived by his wife, Minnie.

**Craig H. Seibert** '81 of Atlanta, on Oct. 14, 2013. He worked as a journalist in Washington before moving to Atlanta. He is survived by two daughters, including **Mary M. Seibert** '16; his parents; and three brothers.

**Thomas N. Lavin** HS '82 of Watchung, N.J., on Sept. 26, 2013. He worked as a medical researcher at Duke, UC-San Francisco, Cornell Medical School, and Ciba-Geigy Co. Over his career he filed numerous patents, including in the fields of endocrine medical treatments and structural materials. He is survived by his wife, **Catherine Ho-Kay Koo** Ph.D. '82; a daughter; and two brothers.

**Charles F. Barnewolt** M.B.A. '83 of Raleigh, on Nov. 27, 2013. He worked for R.J. Reynolds International in Winston-Salem. He moved to Raleigh in 1996, working for Exide Electronics, Invensys, Sensus Inc., and Alliance One International. He was a longtime volunteer for the Juvenile Diabetes Research Foundation. He is survived by his wife, Debbie; a son; his mother; a brother; and three sisters.

**Sandra K. Beavers Donovan** B.S.C.E. '85 of Warrenton, Va., on Sept. 10, 2013. She was an engineer and project manager for the State Department for more than 20 years. She is survived by her husband, Dennis; two sons; her father; a sister; and a brother.

**Carolyn V. Kent** J.D. '85 of Albany, N.Y., on Oct. 26, 2013. She worked as an associate at Nixon, Hargrave, Devans & Doyle in Rochester before moving to Albany to join the New York State Attorney General's Office. She later worked for the Environmental Facilities Co. and, more recently, at the New York Comptroller's Office. She also taught at Union College, Rensselaer Polytechnic Institute, and Northeastern University. Survivors include numerous cousins and friends.

**Neil A. Bradley** M.Div. '86 of Owensboro, Ky., on Nov. 19, 2013. He served as an interim pastor at Richland United Methodist in Indiana, as a youth director at Cumberland Presbyterian Church in Owensboro, and, most recently, as music minister at Mount Eden Baptist Church in Hawesville. He also worked in student services at Western Kentucky University and as a lifeguard and CPR instructor at his local YMCA. He is survived by a daughter, his mother, a brother, and two sisters.

**Karen Cummings Willett Leveritt** '87 of Little Rock, Ark., on Nov. 3, 2013. She worked for the *Arkansas Times* for more than 20 years, serving as a senior account executive and director of special publications. She was also the editor of *El Latino*, a Spanish-language weekly. She is survived by her husband, **Paul B. Stroube** '86; a daughter; her parents; a brother; and two grandchildren.

**Sydna G. Budnick** M.D. '88 of Northampton, Mass., on Nov. 4, 2013. She was a physician at Northampton ob-gyn practice. She is survived by her husband, Howard; a son; a daughter; two stepchildren; her parents; two sisters; three brothers; and a grandmother.

**Ellen Kroop-Martin** HS '90 of Tacoma, Wash., on Oct. 8, 2013. She graduated from New

York Medical College with distinction, winning the Charlotte Yudell Woman in Medicine Award. She practiced and taught medicine in Connecticut, Hawaii, and Louisiana. After Hurricane Katrina, she and her family relocated to Tacoma. She wrote three novels and recently published a blog. She is survived by her husband, Richard; three sons; and her parents.

**Paul E. Bravender** M.Div. '92 of High Point, N.C., on Oct. 10, 2013. After serving in the Army Intelligence Corps, he pursued a career in music, starring in Metropolitan Opera productions. He taught music at Eastern Michigan University, the University of Memphis, and Elon University. As an ordained Methodist minister, he served the North Carolina communities of Bynum, Walnut Cove, High Point, and Wingate, retiring in 2002. He is survived by his wife, Connie; two children; and seven grandchildren.

**Ralph Devolia Harris** M.Div. '92 of Richmond, Va., on Aug. 3, 2011. He is survived by two children, four siblings, and a grandchild.

**José Esteban Muñoz** Ph.D. '95 of New York, on Dec. 4, 2013. Born in Havana, Cuba, he relocated with his parents to the Cuban exile enclave of Hialeah, Fla. He received his undergraduate education at Sarah Lawrence College and his doctorate from Duke, where he studied under queer theorist Eve Sedgwick. An author and professor, he wrote and edited several books of critical theory on performance studies, visual culture, and queer cultural studies.

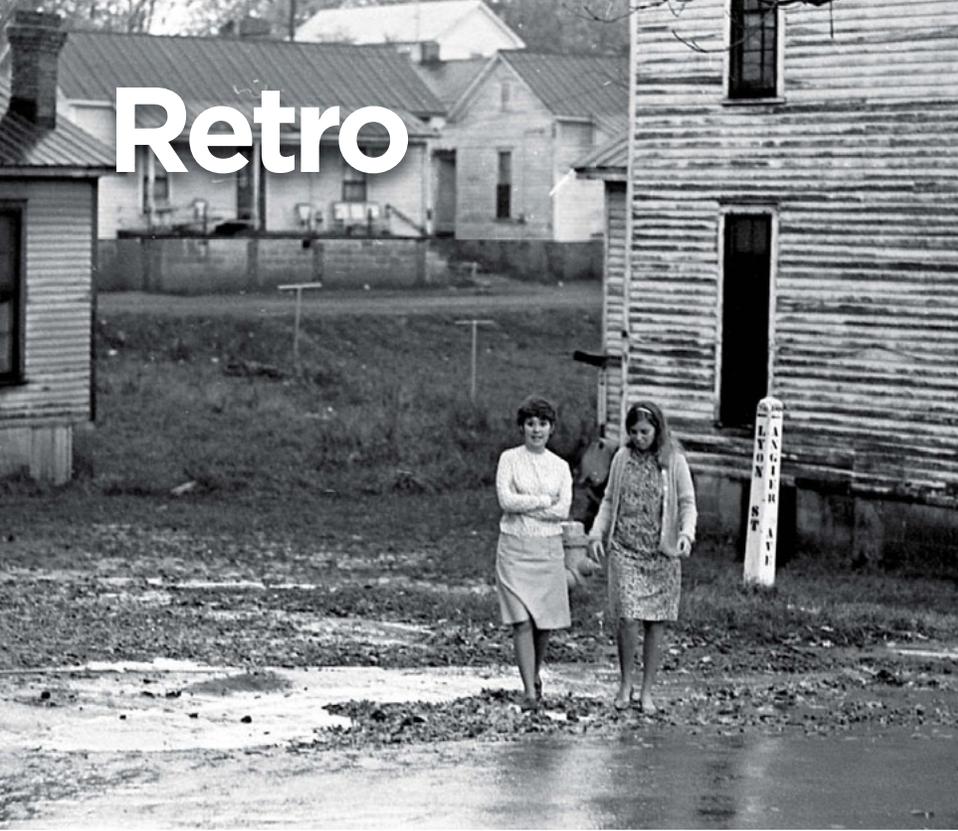
**Martha Elaine Cox** M.S.N. '96 of Creedmoor, N.C., on Oct. 2, 2013. She received her diploma in nursing from Holzer School of Nursing in Galipolis, Ohio, and her bachelor's from N.C. Central University before enrolling at Duke. For years, she counseled cancer patients while fighting her own long battle with ovarian cancer. She is survived by her husband, Joseph; two children; a sister; a brother; and two grandchildren.

**John Derek Crim** M.B.A. '98 of Roswell, Ga., on Sept. 16, 2013. He graduated with honors from Boston University with majors in biology and classical studies, then earned a master's in cellular biology from Emory before attending Duke. An avid chef, he attended the Culinary Institute of America in Hyde Park, N.Y. He also worked in the biotechnology and health-care industries in Atlanta, Philadelphia, and San Francisco. He is survived by his mother, an uncle, and three cousins.

# Classifieds

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# Retro



Duke University Archives

**Home base:**  
Students lived in two houses on Angier Avenue in Durham.

opened an immersive community-service program based in Durham.

Called the Living-Learning Experiment in Edgemont Community, the program was intended “to give Duke students an opportunity to better understand the problems and possibilities of persons who live in socially depressed and culturally deprived urban areas and, in some measure, to help alleviate these conditions.” Edgemont is located near the Golden Belt area of East Durham and, in the mid-1960s, had long been known as Durham’s poorest white neighborhood. In the early 1940s, a committee of the Duke University Church Board recognized the need for a community center and opened one in Edgemont. It found a permanent location in a building on the corner of Elm and Angier in 1945. Outreach to children, teens, and adults in the neighborhood included preschool classes, afterschool care, Christmas parties, and more. Students and staff and faculty members raised funds and volunteered, and the center was funded through the Duke University Church Board and later the Duke University Religious Council.

The Living-Learning Experiment began in the fall of 1966, when students, both men and women, applied to live in two houses rented for them on Angier Avenue. One house was for men and one for women, along with a married couple who oversaw the program. Female students needed their parents’ permission to participate. The program was seen as benefiting both the community and the students with its purpose “to provide recreational, educational, and character-building services to the children and families in the Edgemont area; and to provide opportunities for Duke University

## They lived, and they learned

In the 1960s, students immersed themselves in a Durham community to try to foster change. | **By Valerie Gillispie**

**M**ore than 2,000 students have participated in DukeEngage since it began in 2007. The program, in which students serve a domestic or international community in need, has become a Duke hallmark. So, it might surprise you to know that forty years before DukeEngage launched, Duke had devel-

## THEN&NOW

### Early computing at Duke

Laptops, tablets, and smartphones are now ubiquitous on campus, but Duke was an early adopter. Here, a look back at early days of computing technology at Duke.

# 1948

**Mathematics Institute Computing Machine.** The Mathematics Institute was an annual summer event at the university for math teachers.



# 1954

**G.C. Henricksen, A.S. Brower (Class of 1912), and Kenneth Manning '49** with computer, 1954. Brower was the comptroller/treasurer, Henrickson was his assistant, and Manning was in charge of data processing at the university.



students to develop program knowledge and leadership skills.”

Eight students—four men and four women—were part of the inaugural class. They lived in the Edgemont neighborhood but attended classes at Duke. They were expected to spend significant time engaging with the community in some way, but the parameters were undefined. A year-end report submitted by the leaders of the program, Sam and Bonnie Vick Stone, noted that with so little structure, there was varying success in how well individual students engaged in the community. Those who committed to the program volunteered extensively at the community center, and others invited neighbors to come over to their homes and spend time socializing.

The students found socializing with the children and teenagers in the community easier

**“It has been a direct, tangible learning experience that could not be matched in an academic classroom situation.”**

than connecting with the adults, who were more reticent. The neighborhood, which had long struggled with poverty, also was facing a demographic shift. Urban renewal eliminated many housing options in the nearby Hayti neighborhood for African-American residents. These displaced residents were often not welcomed into other segregated neighborhoods, but found some options in Edgemont. The community went from more than 90 percent white in the early 1960s to 60 percent black by 1968. The white Duke students were seen as outsiders to many of the adults in the neighborhood, black and white.

The program ran for three subsequent years with some modifications in its approach. In the final year, students took a course with professors Donald Roy of sociology and Richard B. Kramer of psychology to try to strengthen the academic component of the immersive experience.

A final report for the 1968-69 year remarked, “Living and Learning Project has been a success in terms of its service to the community and its existence for Duke University students as the only setting of its kind to offer students an opportunity to live and work in a poverty community and to see what a life of poverty means. This latter accomplishment has been in a limited sense for no one understands poverty unless he has been poor.” In spite of the shortcomings, a student evaluation written in 1970 noted, “It has been a direct, tangible learning experience that could not be matched in an academic classroom situation.”

In 1970-71, there was not enough student interest to hold the program. Students continued to be involved with Edgemont

through volunteer work and fundraising, including an annual basketball game between the Duke and UNC freshman men’s teams, sponsored by the Inter-Fraternity Council. The Edgemont neighborhood was later a target of urban renewal, and many of the buildings in the neighborhood no longer exist, including the community center. Although the Edgemont experiment lasted only a few years, we see its legacy today in programs like DukeEngage, Global Education, and the Duke-Durham Neighborhood Partnership.

*Gillispie is the university archivist.*



**Community building:** The Edgemont neighborhood was facing a demographic shift and grappling with poverty when the students arrived.

## 1969

Computers and storage tapes were housed in the computer lab of the Army Research Office in Durham. This office was housed in North Building.



## Early 1980s

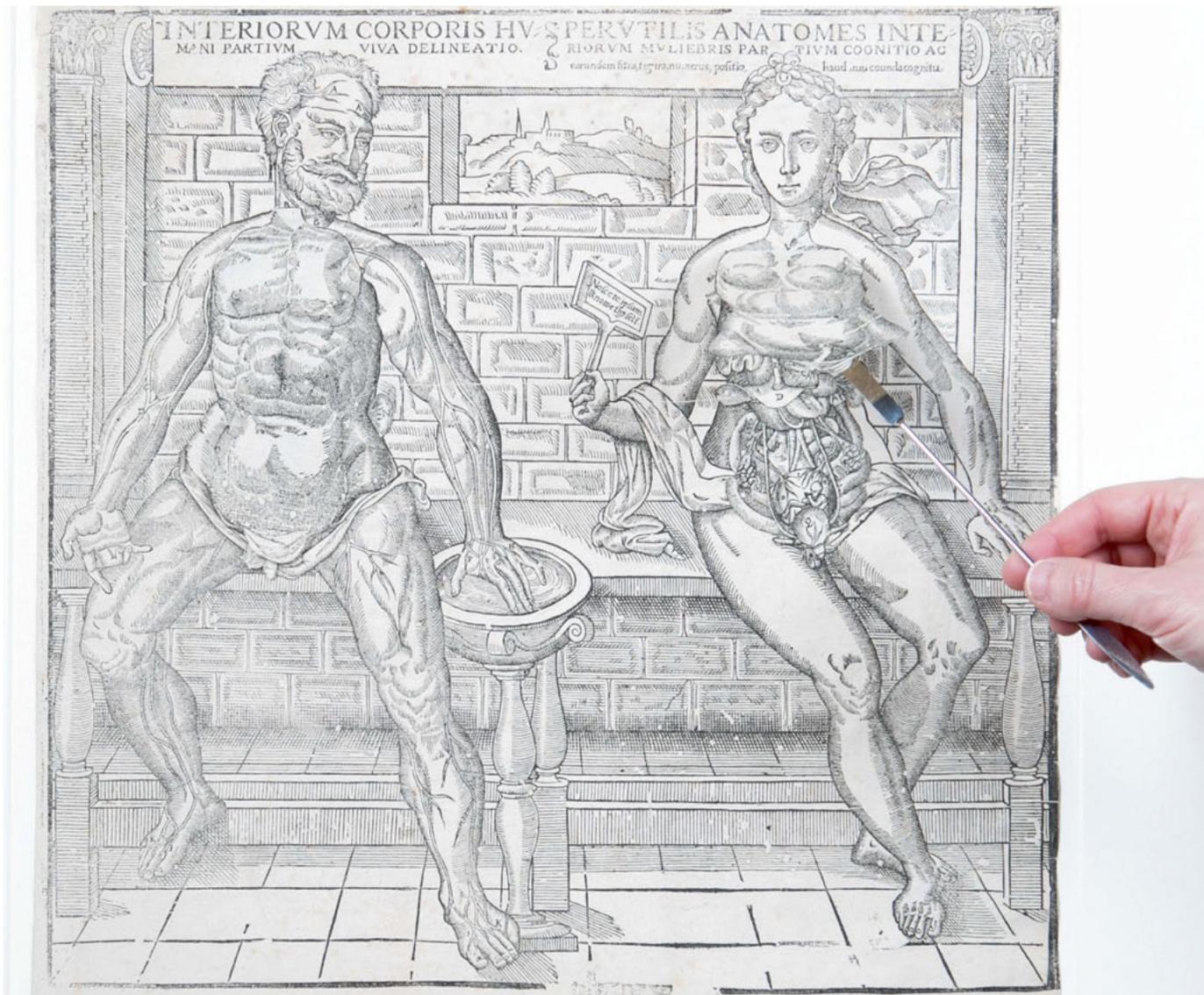
The first online catalogue appeared in Perkins Library.



## 1982

*The Chanticleer* gets futuristic.

# Devil's Own



Les Todd

## Anatomical Fugitive Sheets

The study of the human body was intimately connected with art during the Renaissance era. From this visual culture emerged fugitive sheets, three-dimensional illustrations of human internal organs. Although widely disseminated from the 1530s until the late seventeenth century, fugitive sheets were typically printed as a single broad sheet rather than as part of a bound volume, explaining why so few exist today (hence the “fugitive” designation).

Evasive as they are, Duke’s History of Medicine Collections includes ten fugitive sheets dating to the Renaissance. In 1956, the late Mary D.B.T. Semans ’39, Hon. ’83 donated the first eight sheets, as part of the collection of her first husband, Josiah Charles Trent ’34. Last fall, their daughter, Rebecca Trent Kirckland ’64, M.D. ’68, contributed the remaining two sheets.

The sheet pictured above, a 1658 print from London, is representative of the genre. One can (delicately) raise the torso of

both the male and female figures to examine several tiers of labeled body parts beneath. An accompanying page would have held physiological descriptions.

The original purpose of these sheets remains unclear. Some scholars have speculated that sheets composed in Latin, such as the pictured one, were teaching aids for medical students and aspiring surgeons. According to Rachel Ingold, the curator of the collections, fugitive sheets were printed in the vernacular over time, making them more accessible to a lay public that was curious about the human body’s internal workings.

Today, art historians study fugitive sheets as examples of Renaissance art, filled with religious and moral themes. Additionally, first-year medical students at Duke examine the sheets to understand the advancement of medical knowledge from these early times.

—Tim Lerow

# Inside

FUQUA SCHOOL OF BUSINESS

## Wide Open World

A deep understanding of cultural differences is essential for doing business in the global economy. Fuqua's Global Academic Travel Experience (GATE) allows M.B.A. students to immerse themselves in the economy and history of another country or region. Max Skalatsky (Weekend Executive M.B.A. '13) took in the Imperial splendor when his GATE adventure brought him to the Summer Palace in Beijing.



# NEWSRoundup

HAPPENINGS | INNOVATION | RESEARCH

## Starry Night

Former Fuqua dean Douglas Breeden honored for a career in quantitative finance.

The International Association of Quantitative Finance (IAQF) awarded former dean Douglas Breeden the industry's highest honor, the SunGard Financial Engineer of the Year (FEOY). On February 6, at a gala dinner held at the Museum of Mathematics in New York, luminaries from the world of finance gathered for the presentation of the award by Robert C. Merton, Nobel laureate and former FEOY winner.

"The jewel of Doug's academic crown is the creation of the Consumption Asset Pricing Model," said Merton, who has known Breeden since his undergraduate days at the Massachusetts Institute of Technology. "The [model] brought clarity and simplicity to understanding equilibrium asset pricing."

IAQF is the quantitative finance industry's nonprofit professional society, and the FEOY award, established in 1993, recognizes outstanding individual contributions to the advancement of financial engineering technology. Nobel laureate Robert Engle chaired the committee that selected Breeden for his three decades of groundbreaking work in quantitative finance, investment management, and banking, as well as for inspiring countless students throughout his career in academia.



Salute: Breeden's work celebrated

"I am honored to be included among such distinguished winners," said Breeden. "Prior winners' works have profoundly affected applied research and the practice of finance around the world in central banks and on the global Wall Street, as well as in pensions, endowments, mutual funds, banking, and insurance."

Breeden remains the William W. Priest Professor of finance at Fuqua and continues to serve as senior research consultant for Amundi Smith Breeden (formerly Smith Breeden Associates), the money management firm he cofounded. He also has held faculty posts at Chicago's Booth School, Stanford Business School, and the Sloan School of Management at MIT.

At the dinner, dean Bill Boulding hosted a table, bringing together a venerable group of Fuqua alumni to celebrate Breeden's accomplishments: Owen May Daytime '83 of MD Global

Partners, Adil Nathani Daytime '87 of QMS Capital Management, Derek Penn Daytime '84 of Pershing, Teresa Miles Walsh '85, Daytime '87 of Access Media Advisory, Jonathan Wigser Daytime '94 of DLC Management, Pete Nicholas '92, Daytime '98 of IC Sciences, and Duke alumnus Bill Priest '63 of Epoch Investment Partners. ■

## Revving Up

A London-based executive finds fresh challenges and a new perspective in Fuqua's Advanced Management Program.

After more than twenty-five years in the same industry, Murray Orr says he needed a "software upgrade." So the investment banker specializing in mergers and acquisitions at JP Morgan Chase in London looked toward Duke. "I decided the best approach was to find a course of study, and a school, that could offer me a fresh perspective and the ability to learn from other people of different backgrounds and experience." Fuqua's Advanced Management Program (AMP), designed for senior managers and executives with at least fifteen years of professional experience, offered Orr the opportunity to expand his skill set, fine tune his expertise, and implement innovative strategies in real time.

Both of the program's two-week sessions are held at Duke and divided by a six-week virtual intersession, allowing participants to integrate new insights and tools within their own companies. Orr and his AMP colleagues, a diverse group representing a wide variety of industries and international organizations, analyzed the issues and the challenges they encountered.

Like many specialists, Orr doesn't have a traditional management role, but he is ex-

pected to quickly set up teams, often across multiple product groups and geographies, to execute deals. The program's focus on team-based management proved to be resonant. The theme of the final week of the AMP is "Execution," and culminates in the Pit Crew exercise, in which

**ESPRIT DE CORPS** Across all Fuqua programs, innovative team-building exercises—such as the Pit Crew Challenge—teach students how to pull together, push ahead, and conquer unexpected obstacles.

**THE WALL** As part of the orientation at the Triangle Training Center, groups of new students must scale, one by one, a 14-foot wooden wall. No ropes. No ladders. Elle Nichols (Daytime M.B.A. '14) said the experience mirrors the best parts of the program: "There are members of the team boosting you up, reaching back to pull you over, standing guard to catch you if you fall, and cheering you on as you ultimately use your own strength to pull yourself over."

## Prime Numbers

From minimum-wage increases to interest-rate hikes, CFOs reveal best bets for continued growth.



CFOs predict better than economists do,” admits John Graham Ph.D. ’94, D. Richard Mead, Jr. Family professor and director of the Duke University/CFO Global Business Outlook Survey. “They know what their companies are going to do several months down the line, even a year or two from now. They know corporate plans that haven’t been announced yet, and by expressing these views through the survey, they give us a good sense of where the economy is headed.”

For seventy-two consecutive quarters, the survey has polled chief financial officers from a range of companies—public and private, small and large, U.S. and international, across many industries—making it the world’s longest-running and most comprehensive research on senior finance executives.

The current survey, which ended March 6, found that most companies are confident about absorbing small to moderate increases in spending, most notably in wages and interest rates. A full 90 percent of respondents say increasing the federal minimum wage from \$7.25 to \$8.50 per hour would not reduce their hiring plans. Notably, that includes regions like the Southeast, where wages are typically lower and the federal rate has long been the standard.

CFOs balked at steeper increases, however: 47 percent of retail firms (and approximately one-third of service and manufacturing companies) report that increasing the federal minimum wage to the proposed \$10 per hour will cause a decrease in hiring. While it is true that an increase in the minimum wage would provide income that low-wage earners likely would spend, Graham says any resulting bump in business down the line is not likely to offset employers’ immediate payroll concerns.

Less than 15 percent of respondents say a one-point interest rate increase will reduce hiring, while the vast majority reports this hike will not restrict economic expansion. “Rates have been so low for so long,” says Graham. “It may take up to three percentage points to make an impact.”

Globally, the survey presents a more dynamic picture of the rate increase: International companies, particularly those in emerging markets like Brazil, worry about losing investors to the American bond market if the Fed tightens monetary policy and U.S. interest rates rise. And if those emerging countries increase their rates in return, says Graham, they run the risk of devaluing their currencies.

“A few years ago the optimism was in emerging markets, but for now things are definitely looking better for the U.S. Still, it’s not gloom and doom,” he adds. “While we might for now see slower growth in emerging economies, the long-run potential is still quite positive in most cases.” ■

### SURVEY QUICK TAKES

69

percent of CFOs report that uncertainty due to government policies is causing them to delay hiring or capital investments.

10

percent of CFOs in retail, service, and manufacturing sectors report they will decrease hiring if the minimum wage is raised to \$8.50.

15

percent of CFOs say that a one-point interest rate hike will curtail their hiring, spending, or borrowing.

20

percent of CFOs say fed monetary tightening has dampened their optimism, while 17 percent say it has increased it.

90

percent of Chinese CFOs believe there is a real-estate bubble in China, with 30 percent reporting that the bubble is likely to burst in 2014.

teams are asked to change the wheel of a race car under time pressure. The deceptively straightforward task actually requires working across silos. Although teams are told not to focus on competing with one another, Orr says that was the first thing they all did, of course. Inexperienced in

this type of work, his team took more than three minutes to complete the task. The instructor asked them why they hadn’t thought to communicate with their driver, given his experience, a blindingly obvious point that nobody in the group had considered.

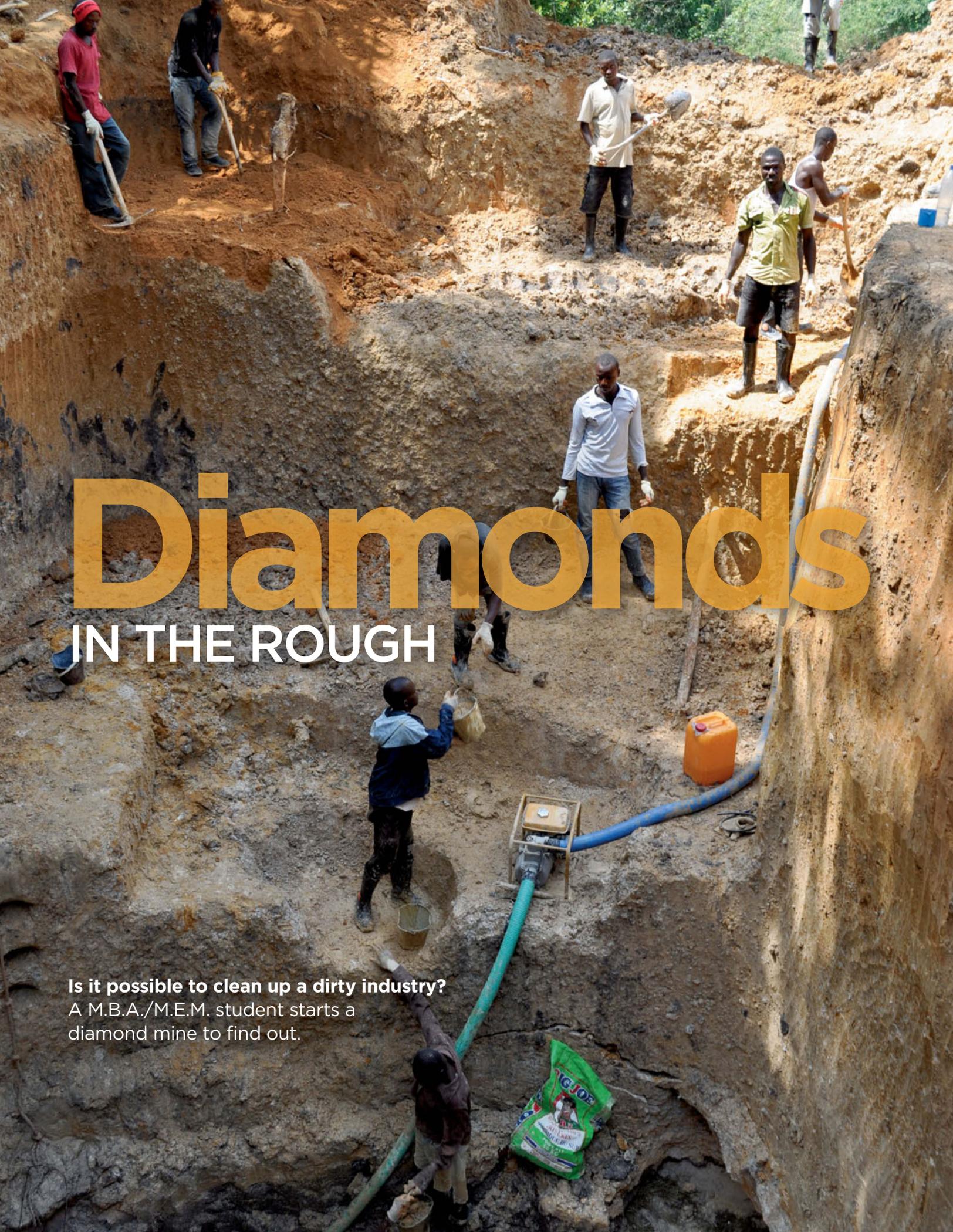
“Ultimately the client-service business is based to a great extent on whether you can trust the person on the other side of the table,” says Orr. “The AMP provides you with a much broader perspective coupled with a greater understanding of your own skill set and how to better utilize it.” ■

**Helping Hands** The Health Sector Management program launches with an intensive, week-long boot camp, but one particular event left a lasting impression on Nisha Asher (Daytime M.B.A. ’14): building twenty prosthetic hands. “An initiative like this not only gives hope and strength to those who need it, but gives me a stronger sense of humanity and humbleness,” said Asher of the GlaxoSmithKline-sponsored exercise. Groups assemble the complicated prosthetics for children, soldiers, and others who have lost an arm in mining areas and war zones.

**The Basketball Experience** Running an effective play is as much about leadership as it is about strategy. From Cameron Indoor Stadium, some degree and non-degree students learn from Coach

K’s staff a signature play and then execute it. “The basketball experience reminded me to always treat practice (i.e. small team meetings) like the game (i.e. important presentations) and the game like practice,” said Corey Best, Global Executive M.B.A. ’14.

**Wine + Design** When master of management studies students return from their first winter break, they’re welcomed back with a reception and a Blue Devil art exhibit, with one catch: The students are the painters. “I’m not the most artistically inclined person, so the idea of spending two hours painting was a bit intimidating,” said Kat Fogartie (M.M.S. ’14). But other students helped her, and now the painting is hanging above her desk. “This is the Team Fuqua mentality, helping others on their path to success.”



# Diamonds

## IN THE ROUGH

**Is it possible to clean up a dirty industry?**  
A M.B.A./M.E.M. student starts a diamond mine to find out.

**W**hen Rachel Lichte's Bay Area friends began announcing their engagements five years ago, the conversation was not about prong-versus-bezel ring settings, but about the unconscionable economic and environmental practices of diamond mining. "I can't imagine a product with a bigger disconnect between source and consumption," says Lichte (Daytime M.B.A. '14, M.E.M. '14), then a brand strategist at the San Francisco firm BBMG. "I realized that simply *not* buying something doesn't improve the situation on the ground, and we wanted to try to change it."

The challenge captured the imaginations of Lichte and her friends Jesse Finrock, a law student focused on social enterprise, and Shane Rogers, an engineer and product designer. One weekend in 2009, at a beach house in Santa Cruz, California, the trio hatched Clarity



Rachel Lichte

## FUND IT, GROW IT

Rachel Lichte's Clarity Project won the 2013 CASE Seed Prize—a \$10,000 annual prize awarded to a Fuqua student to work on his or her social venture over the summer. "It has been a tremendous gift to be able to take risks and follow up on opportunities right now that I would not have been able to otherwise," says Lichte. With her winnings, she traveled to Sierra Leone to work on cultural and business partnerships near the project's diamond mine.

precious metals and responsibly mined gems. Profits are invested in education initiatives for the community in eastern Sierra Leone, where the diamonds are mined.

Each year more than 2 million women in the U.S. receive an engagement ring, creating an evergreen—if not figuratively *green*—market. "We're a generation of aware consumers, and the emotional weight of this purchase means people want to get it right," says Lichte. "But it's so difficult to find out what you need to know to make a responsible purchase."

Indeed, the company's first step was a daunting one: finding a reliable and trustworthy gem source with practices adhering to the company's mission. Their first diamonds and reclaimed metals came from a women's co-op in the tiny country of Lesotho in southern Africa. "It took time to find quality *and* good practices," recalls

Lichte. "The risk of getting burned means we work slowly, triangulating trust."

In 2010, their debut line of rings and bracelets went on sale on the Clarity Project website. As with most small businesses, friends and family were the first eager customers, but soon the website had more requests than could be filled. Lichte realized she needed to hone her strategic and financial skills to expand the business. "I wanted to scale this, but I also wanted to understand the social and environmental side of the industry," she says. This year she will graduate from Fuqua's joint M.B.A./M.E.M. (master in environmental management) program, having achieved both those goals and more.

"It's such an ambitious project," says Dan Vermeer, director of Duke University's Center for Energy, Development, and the Global Environment and one of Lichte's Fuqua professors. "It gets to the heart of the social and economic challenges that businesses operate in today."

Vermeer says sustainability has become important to business of all sizes: "There is ever-present information—everything is out in the open, so if you are on the wrong side of these issues, people are going to know it, and if you are the right side, people are going to know it and reward you for it."

Taking this transparency strategy one step further, Lichte says, "We are preemptively answering questions people don't even know to ask." For instance, because much of the cutting and polishing of diamonds takes place in India, where child labor is often used, the Clarity Project has found other vendors for these services. This year Lichte and her partners engaged the local chieftom and formed a team of seasoned local miners

and geologists to start their own diamond mine in Sierra Leone to ensure and pilot best practices. Their operation has thirty-five workers, including two local mine managers, and works with an international security company to ensure around-the-clock safety and security of the site.

**WITH FUNDS** from grants, awards, and private investment, Lichte spends significant time in Sierra Leone working with groups like the Diamond Development Initiative, which monitors social and environmental standards. After adding a fourth partner, social entrepreneur G. Ryan Ansin, and restructuring last year, the Clarity Project's new jewelry line will launch this summer.

"The beauty of unsustainability is that it doesn't last," says Vermeer. "Industries change and flip, and the jewelry industry, with their very dirty practices in the far corners of the Earth, looks vulnerable to me. If you have a better idea and you can deliver more value, it can disrupt the whole industry. I have eternal hope when someone like Rachel is taking on the giants, because those giants are eternally vulnerable." ■



Mark S. Engstrom

**Mine field:** Lichte, above, in Sierra Leone; left, downtown Koidu Town

Project to design and sell ethical jewelry crafted from re-

## The Ultimate Balancing Act

Fuqua programs merge the business side of health care with clinical reality.

Students entering medical school today are no longer naïve to the worrisome costs, inefficiencies, and bureaucratic complexities that burden health-care systems around the globe. The next generation of medical professionals hopes to find better ways of providing high-quality, affordable care to more people. “This is a time of huge change in how people are reimbursed and how care will be delivered,” says David Zaas, chief medical officer of the Private Diagnostic Clinic at Duke and vice-chair for clinical practice in the Department of Medicine. “We need more physician executives in management to provide leadership.”

Zaas graduated from Fuqua’s Weekend Executive M.B.A. program in 2008. He says an understanding of business is extremely important in the age of hospital consolidations, team-delivery models, and new mandates for insurance coverage.

While some doctors, like Zaas, pursue an M.B.A. while practicing medicine, others seek the degree during

residency, including therapies such as vaccines and cancer drugs. “I want to do both clinical work and research here but have collaborations with partner hospitals in other parts of the world,” she says.

The Duke program has been a perfect fit for that goal. Course work for medical school is completed in the first year.

,” says Bhattacharya, whose scholarly work examined health-care delivery infrastructure in India.

For all the focus on cost structures and quantitative metrics, business priorities never trump medical ones. “It’s critical to maintain a clinical perspective,” says Zaas, who still practices medicine once a week, despite his primarily executive role within Duke University



**Dynamic duo:** Weekend Executive M.B.A. '08 classmates David Zaas, left, and Duane Davis at Duke South.

### “The systems thinking and clinical intuition use different parts of your brain.”

medical school. Duke’s joint M.B.A./M.D. program aims to give future doctors the financial, management, and accounting strategy skills they’ll need to be change leaders, no matter where they practice medicine.

Manisha Bhattacharya is one of the students currently enrolled in the five-year M.B.A./M.D. program. Her interest is in the business of global medicine: how to better reach underserved populations with access to comprehensive

care for non-communicable diseases, including therapies such as vaccines and cancer drugs. Hospital rotations make up the second year. Year three is a full immersion in the first-year M.B.A. curriculum at Fuqua, while year four combines the Duke Medicine scholarly year of research with the second year at Fuqua. Year five sends students back to clinical rotations, armed with practical and scholarly insights from both programs and their own special interests. “By the end, you really understand the whole flow and ecosystem around care deliv-

Health System.

“The systems thinking and clinical intuition use different parts of your brain,” notes Bhattacharya. “When a patient is in front of you and you’re concerned about their health—their life—you want to be sure. You want a multitude of tests. You try to be cost-conscious, but that isn’t the sole priority. The person is the priority. And that’s what makes solving these problems so difficult.” ■



**Making an impact:** Professor David Ridley's program idea targets neglected diseases.

## Compassionate Capitalism

Fuqua professor applies market mechanisms to a public-health crisis, creating a new drug law.

In public-health circles, the term “neglected diseases” refers to a range of hard-to-treat diseases like break-bone fever and leishmaniasis, a parasitic illness that primarily affects the most impoverished communities in the world. Drug companies have little financial incentive to develop these drugs, because the potential customers are so poor. Meanwhile, public-health organizations, research universities, and small biotech firms lack the \$200 million or so it takes to bring a new drug to market.

In 2006, Duke professor David Ridley, a health-care economist, Dr. and Mrs. Frank A. Riddick Associate Professor of the Practice of Strategy, and faculty director of Fuqua's Health Sector Management program, presented a paper on a novel idea to solve this intractable problem. He wrote the paper with Duke colleagues Henry Grabowski and Jeff Moe. They proposed a financial-incentive program for any company that could successfully develop a drug for one of sixteen neglected diseases. The reward would come in the form of a “priority review voucher” from the Food and Drug Administration. The voucher would allow the company to fast-track a commercially viable drug through the FDA process, thus putting a new moneymaker on the market months earlier to rake in more profits.

To attract the smaller biotech firms, which could benefit most, the professors sweetened the deal: Any company holding a voucher could sell that voucher to another company to offset its original research and development costs and expand its business.

### “The way economists think about incentives and creating markets can really benefit global health.”

“I like the idea of using economic tools to help people, to make them healthier and happier,” says Ridley. “The way economists think about incentives and creating markets can really benefit global health.”

Many firms became aware of the voucher in 2008 when the FDA finalized the regulations. Now, eight years after the paper was published, the Priority Review Voucher program finally is gaining traction, because the drugs that qualify take about eight years, on average, to develop. Recent studies show that ten drugs in development right now likely would qualify for a voucher in the next ten years.

“The biotech firms see profit potential,” says Ridley. “Big pharma is not as excited about the profit potential, but they do see that this is a way to do a good thing without losing much money.”

Ridley predicts big pharma companies will bid up to \$200 million for a voucher they could then apply to a blockbuster drug in development. A drug such as Nexium, for example, which earns \$5 billion in annual revenue, brought to customers a few months early would be a boon for the manufacturer.

That leaves one big question: How can smaller biotech firms afford to develop a drug in the first place, when the overhead is so high and the payoff is entirely dependent on successful clinical trials? Certainly, the prospect of a voucher is appealing to investors, but Ridley says well-endowed foundations may provide another solution. Medicines for Malaria Ventures (MMV), which is funded by the Gates Foundation, funds universities and pharmaceutical companies that are developing drugs for neglected diseases. If one of those drugs is approved and wins a voucher, the funds will go back to MMV to support other neglected disease projects.

The idea has caught on for other types

of underfunded diseases: A 2012 law expanded the voucher program to rare pediatric diseases as well.

To date, four vouchers have been awarded: one to Novartis for a malaria drug (the voucher was used); one to Johnson & Johnson for a tuberculosis drug (J&J has yet to use its voucher); one in 2014 to BioMarin for a rare pediatric disease; and the fourth, also in 2014, to the small biotech firm Knight Therapeutic for a leishmaniasis drug. Knight plans to sell its voucher, says Ridley, and use the proceeds to expand its company.

“This was simply supposed to be an idea added to the debate,” he says. “It still amazes me that it went from a paper to a reporter to senators to law in about a year—all leading to a possible cure for dengue fever. It makes me far less cynical about what's possible in Washington.” ■

# POINT OF IMPACT

**Greg Dees**, a much beloved and admired Fuqua professor, was known as the Father of Social Entrepreneurship because he helped to define the principles and practices that would guide socially conscious businesses into the twenty-first century. His sphere of influence extended from Duke around the globe to think tanks and nonprofits, corporations, and start-ups. Scrappy entrepreneurs and powerful CEOs alike sought his counsel. Dees lost his battle with illness in December 2013, but his work lives on through the students and business leaders who continue to enrich markets with his enduring values.

## Duke's Fuqua School of Business

**Professor of the Practice** of social entrepreneurship

**Cofounder** of the Center for the Advancement of Social Entrepreneurship

- **Michael Macharg**, Daytime '09, Simpa Networks, a "pay-as-you-go" model for solar energy
- **Rachel Lichte**, Daytime '14 (See p. 92)
- **Geoff Cramer**, W.E.M.B.A. '01, Futures for Kids, a non-profit career-exploration tool for N.C. public schools
- **Monty Montoya**, C.C. '03, CEO, Sightlife, corneal tissue company
- **Jeff Jablow**, Daytime '05, senior VP, City Year
- **Paul Sansone**, Daytime '92, CFO, Better World Books

**Rubenstein Senior Fellow** in social entrepreneurship with Duke's Innovation and Entrepreneurship Initiative

## Harvard Business School

**Launched the Initiative on Social Enterprise**

- **Richard Cavanaugh**, CEO, The Conference Board
- **John Whitehead**, chairman of Goldman Sachs Foundation, former U.S. deputy secretary of state

## Dees' Big Ideas

- Strategies for Scaling Social Impact
- Ecosystem Thinking for Social Impact
- Social Entrepreneurs as Learning Labs
- Open-Solution Society
- Defining Social Entrepreneurship

## Stanford Graduate School of Business

Founding codirector of the Center for Social Innovation  
John Gardner chair  
New Schools Venture Fund adviser

## Change Leaders Influenced by Dees' Work

- Muhammad Yunus**, Nobel Peace Prize recipient and pioneer of microfinance
- Wendy Kopp**, founder, Teach For America, current CEO of Teach For All
- Sonal Shah**, former director of the office of Social Innovation and Civic Participation in the White House



## Adviser to:

**Ashoka U**, advises universities and colleges around the world on social entrepreneurship and higher education

**Bridgespan Group**, philanthropic and humanitarian consulting firm  
• **Jeff Bradach** and **Tom Tierney**, cofounders

- Bill and Melinda Gates Foundation**
- Climateworks Foundation**
- United Nations Foundation**
- The Salvation Army**
- World Economic Forum**

- Dees pushed for the inclusion of social entrepreneurs at Davos Volans, a global "breakthrough" capitalism firm

## The SEED Foundation

REDF, social-enterprise firm for nonprofits

**Rubicon National Social Innovation**, social enterprise firm for the poor

**Aflatoun**, NGO for educating children on financial concepts

**Limmat Foundation**, social-enterprise organization for community development

**New Profit**, a national venture-philanthropy fund sponsored by the Monitor Institute

**Skoll Foundation**, funds and supports social entrepreneurs

**New Schools Venture Fund** adviser

- **John Doerr**, cofounder, New Schools Venture Fund and a Silicon Valley venture capitalist
- **Wendy Kopp**, founder, Teach For America, current CEO of Teach For All
- **Heather McLeod-Grant**, coauthor of *Forces for Good*



# 2014 HOMECOMING WEEKEND

OCTOBER 17-18

Autumn is a great time for alumni of all ages, as well as students, to engage, connect, and celebrate on campus. This year's Homecoming weekend includes the Duke vs. Virginia football game, affinity group gatherings and more!

START PLANNING YOUR AFFINITY GROUP  
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