

DUKE



MAY-JUNE 2012

MAGAZINE

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prizes! [★]Look [★]inside



NEW!



Rethinking
our culture
of incentives

22



Judge and Muff Carr

Passionate about Duke

DUKE UNIVERSITY
GIFT PLANNING

"We're passionate about Duke and try to lead by example," said Judge Carr.

Judge received a civil engineering degree from Duke in 1971 and has 19 other relatives who also attended the university. His wife, Muff, a Raleigh pediatrician, earned a Masters of Theological Studies from Duke Divinity School.

A 23-year fundraising veteran, Judge is well-known as senior associate dean for development and alumni affairs at the Pratt School of Engineering. He began his career as a construction project manager, supervising Duke projects like the installation of the Flentrop Organ and Gallery in the rear of the Duke Chapel. His father was the architect for the project.

But it's as a fundraiser that he found his calling.

His efforts at Pratt have helped build support for professorships, scholarships, fellowships, and programs that provide experiential learning opportunities for engineering students. He's a devoted champion for the Engineering Annual Fund and has helped grow support from about \$500,000 to more than \$2.9 million annually, with 40 percent participation from engineering alumni. In 2006, Judge received Pratt's Distinguished Service Award.

Judge and Muff are committed Duke supporters. They have graciously contributed to several capital projects at Duke, including the Fitzpatrick Center, and are members of the James B. Duke Society, the Heritage Society, the Braxton Craven Fellows, and the Iron Dukes. They've established a scholarship endowment at Pratt and an unrestricted endowment at the Divinity School. They have also included Duke in their estate plans, with a bequest planned for Duke Athletics, the Nicholas School, Divinity, and Pratt.

"We're investing in Duke's students and in Duke's future," said Judge.

To extend your support of Duke through a bequest, a life income gift, or some other gift plan, please contact:

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FEATURES



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COVER

What's in It for Me?

By Robert J. Bliwise

A culture of incentives pervades our jobs, our legal system, and even our parenting. But one Duke professor warns that too many carrots may be undermining our sense of what's right.



Jon Gardiner

Ready to Launch

By Bridget Booher

As they prepare to head out to jobs and graduate school, five members of the Class of 2012 reflect on where they've been and what lies ahead.

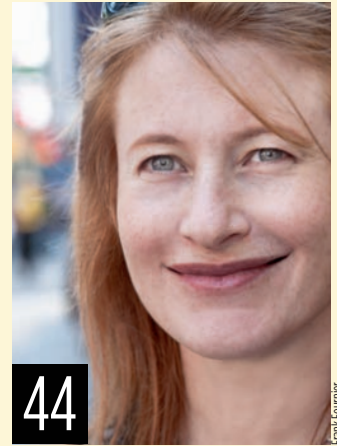


Chris Hiltreth

The Narrative of Dark Places

By Taylor Sisk

When bad things happen to children, many struggle to cope. A new treatment program is helping kids tell their own stories—and heal.



Frank Gourner

Making the Cut

By Bridget Booher

In the late 1980s, Alisa Lepselter '85 couldn't imagine she would one day work alongside Woody Allen. Fourteen films later, she can't imagine doing anything else.

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FULLFRAME

Victory lap: Duke fans congratulate Curtis Beach '13 after he won the 800 meters on the final day of the 2012 Duke Invitational at Wallace Wade Stadium. Beach, who is coming off a record-setting indoor season (see page 50), set a personal-best time in the race. *Photo by Jon Gardiner.*



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Forum

UNDERTHEGARGOYLES

Spring at Duke, and where are the hanging-out places on campus? Some of those places blend in seamlessly to the larger campus context, but still carry a hint (if not the shock) of the new.

Bostock Library is awash with students and the various electronic extensions that keep them anchored; students connect with their work, with each other, and with their entertainment options on their iPads, their iPods, and their laptops. And they actually sit and read books. As the library's website puts it, they are drawn to "comfortable spaces in which to read, write, reflect, create, and collaborate."

A short walk away, on the Plaza, there's more conversation than reflection, though you can spot a student deep into his biochemistry textbook. Just a few years ago, the Plaza was a skinny slab of concrete known, with no appreciable degree of affection, as the Bryan Center Walkway. Today, students are "tabling" for political causes. They're advertising a charitable pursuit—"Help Me Cycle Across America"—and a spring dance performance by a group called Choreolab. And they're lining up for offerings from Pauly Dogs, a food cart that reconstitutes the traditional hot dog into something exotic—Niko's Nitro Dog or Pizza in the Bun.

Over many years, one charmless campus fixture was known by a curiously aquatic designation. That was The Ocean, the sprawling parking area just off Campus Drive on West Campus. But parking space has become living space, including areas for dining, socializing, and sitting around, well, an ocean-size TV screen. Keohane Quad just recently became a complete quad, with the opening of a new residence hall—instantly a favorite for students.

Duke is a restless, always-evolving place. And so is *Duke Magazine*. Over the past few months, the magazine has worked to rethink and reinvent some of its traditional spaces—for example, the compilation of campus



Chilling out: Bryan Center Plaza features a system that sprays cool mists on hot days.

news, now called The Quad, and the section for alumni news, freshly conceived as Forever Duke. The idea is to make the magazine more inviting, more accessible, and more surprising. You'll see the results in this issue. We hope you'll find that the magazine is a place that—like the campus it showcases—delivers a mix of the familiar and the unexpected.

—Robert J. Bliwise, editor

LETTERS

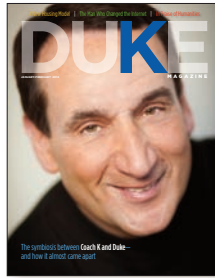
Getting Housed

I read with great interest Elissa Lerner's article, "Model House" [January-February 2012], detailing how Duke is returning to a housing policy that will foster cohesive living arrangements on West and Central. I had the great benefit of living in such a cohesive house—Stonehenge—and there were several others, including male houses such as House P and BOG, and female houses such as House G and Broughton. The bonds between members of our dorm, stretching well beyond class year, were and are so strong that last spring [we] had the first Stonehenge/ Broughton reunion, which brought together more than 100 residents of these dorms from the 1978-86 class years. [Dean of undergraduate education] Steve Nowicki, who was integral in the development of the new housing policy, spoke to our group and experienced firsthand the lasting power of cohesive living groups.

I did want to point out that prior to the 1994 decision to house all freshmen together on East, Duke moved to all-freshman dorms in 1982. While this change fostered stronger class ties, I and others predicted it would be the end of unique, diverse, cohesive living groups. Without the influx of freshmen each year—students who had not yet selected their friends and segmented into cliques—these living groups were no longer forced each year to throw together nerds, partiers, jocks, and flirts, with the outcome usually being a group of good friends who otherwise would not likely have ever associated together.

Alas, the diversity and uniqueness died quickly after the loss of freshmen. The subsequent decisions to give lottery preference to sophomores was the final nail in the coffin of cohesive independent houses, leaving West Campus filled with fraternities on the one hand, and on the other, small groups of friends living together in pods, regardless of house. As a result, Duke students lost a most valuable part of the overall Duke experience. Had I not been thrown unwittingly into my house as a freshman and empowered to stay all four years, I would have missed out on the rich and varied friendships with dozens of 'Hengers whom I otherwise never would have met.

I commend Nowicki and Duke for promulgating this new housing



policy. While I still lament the lost house diversity and lost interaction between freshmen and seniors that has resulted from the all-freshman dorms, this new policy will be a significant step in improving the overall living experience at Duke.

*George White '84
Wyoming, Ohio*

Elissa Lerner refers to the "ferociously criticized" 1994 decision to make East Campus an all-freshman campus. However, she doesn't mention that the criticism from upperclassmen was because of what we feared the plan would do to upperclass residential life.

At the time, East Campus provided an alternative for upperclassmen who didn't want to live on the cramped, fraternity-dominated West Campus or the solitary, apartment-based Central Campus. The plan did not account for the living groups and independents who built vibrant communities in the roomy buildings, grassy quad, and quieter atmosphere of East Campus. Most important, the plan did not fundamentally rethink the role of fraternities in shaping campus life.

[Then-president] Nan Keohane's administration delayed the move for a year to better accommodate those concerns, but still didn't fully address the need for a wider variety of upperclass housing. It sounds like the new house system finally accomplishes that, and I hope it works out well for the students who will live in it.

*Kira Marchenese '95
Washington*

There is an old saying that what goes around comes around. I could not help but think of that saying when I read the article on [the] new housing model.

When I entered Duke in 1961, all of the freshmen on West Campus were housed in one quadrangle. At least for men, all freshmen were grouped together. There was fraternity rush in the

middle of January. Then, upperclassmen were either in fraternity dorms or independent housing, which was allocated by seniority. I remember camping out in front of student housing to get an early selection of what was left for sophomores.

To provide a more cohesive living experience for independents, separate houses were created sometime in the early '60s. I was in Taylor Hall. We had an allocated portion of the dorm with a commons room and a separate table in the dining hall with our house plaque over the table. The idea was to provide a more intimate and comfortable setting for independents. That sounds like it's still the purpose of the changes to housing discussed in the magazine. I wonder if the problem—if there is one—will ever be solved.

The big questions [when I was a student] were whether to allow liquor and women into the West Campus dorms. Both were prohibited when I started. Our rooms were Spartan with wood floors and simple furniture, but we were spoiled with maid and laundry service.

*Marlin M. Volz Jr. '65
Davenport, Iowa*

I enjoyed reading the January-February 2012 issue, even though the article on residence halls made me think I am in a time warp. Things were certainly different for the Class of 1960.

Page 32 states, "A housing report from as early as 1958 notes that '600 independent upperclassmen lived in unorganized anonymity' and laments 'the disorder, the barbaric conditions of life.'" The statement left me bemused. I looked up "barbaric" to be sure of the definition and do not think it applies to the independent dorms I lived in for the last three years of my time at Duke. I never saw or heard of this report, either.

I did appreciate that article in general, as well as the one about Coach K.

*Henry C. Irvin '60
San Antonio*

Rethinking Admissions

Unbelievable. Almost 32,000 applicants in 2012 ["Admission: Impossible?" March-April 2012]! Most of them would cringe to hear how I was admitted in 1951. I was planning to join the Navy after high school in Ridgewood, New Jersey, where I graduated a below-average student and no jock. I even

skipped the SATs. I applied to Duke, which offered maid service, a key factor. At the time, a huge portion of the student body was from North Carolina, and I'm guessing Duke took me in on some early kind of "diversity" program.

As for Durham ["Bull Rising," March-April 2012], [it] was only a few things. One, the used bookstore downtown. Two, free cigarettes at the factories. Three, the Durham Armory, where on most Friday nights there would be R&B concerts and dances for blacks. Whites could watch from the balcony. Four, an R&B DJ on the radio almost every night. Five, the drive-in outside East Campus, where [you could find] Shorty, the carhop, unless he was doing time. I guess anything is possible.

*Bob Anderson '55
The Villages, Florida*

Radio Days

I read with great interest your article regarding WDBS, the first campus radio

station [Retrospective, March-April 2012]. I was the first station manager of WDBS when the station went on the air in 1950. The three men named in the article actually convinced the administration to approve the station, but after funding was found, as manager, I had to schedule programming, write scripts, train people, and find talent. We all worked very hard; I spent many nights and days at the station, and even sold time to local merchants and national sponsors. We even carried *The Perry Como Show*, sponsored by Chesterfield. I'm the one in the center of the picture with script in hand. I'm delighted that the station progressed so nicely over the later years.

*Robert Cook '51
Rancho Mirage, California*

A Kick for Soccer

While everyone is very proud of the Duke men's basketball program, I think Duke would be well served to highlight better achievements of members of the university.

The photo of the Duke women's soccer loss in the NCAA finals [Full Frame, January-February 2012] was a great photo capturing the emotion of the national championship game. However, expanded coverage with an article expressing the tremendous accomplishment of these dedicated athletes would have been appropriate for such an achievement as being runner-up for the national championship.

*Rob Epstein M.D. '90
Belle Mead, New Jersey*

Climate Change

I laughed out loud when I read "Feeling the Heat" [Gazette, January-February 2012]. Apparently, nature is not cooperating with scientists at the Nicholas School of the Environment, and they are flummoxed. The trees and the birds just aren't adapting as predicted by many models.

They must not be teaching critical-thinking skills at the Nicholas School. The birds and the trees know that there is no need to adapt to a nonexistent problem, otherwise known as "global climate change." The hoax that is catastrophic anthropogenic global warming is rapidly falling apart, and for the sake of Duke, I hope that the last to find out are not the scientists at the Nicholas School of the Environment.

*Patrick Plemmons M.H.A. '76
Alpharetta, Georgia*

Fine Company

One of my most enjoyable magazines is *Duke Magazine*. The current issue about Durham's rise as a cultural and gastronomic mecca [March-April 2012] has been quite interesting. For the record, I also get both the *Harvard Magazine* and *The Kennedy School* [at Harvard] *Magazine*—and I don't think either one outclasses *Duke Magazine*. Thanks for the great job.

*David D. Jordan '61
Charlotte*

UPDATE

When we profiled Adrian Bejan in 2007 ["Going with the Flow," September-October 2007], the Pratt School's J.A. Jones Professor of mechanical engineering hoped he could garner more respect for his burgeoning field of constructal law. "Engineering is...a mental viewing," he said. "It is ideas, it is rare and noble, just like frontier physics or biology."

The basic premise of constructal law is that structures—natural and manmade, concrete and intangible—evolve to become more efficient facilitators of movement. His latest book, *Design in Nature: How the Constructal Law Governs*

Evolution in Biology, Physics, Technology, and Social Organization, demonstrates the breadth of his "law of design," making sense of everything from traffic flow to animal locomotion to military hierarchy.

The broad reach of Bejan's ideas has kept him among the most-cited engineering scientists in the world. An article in *The Wall*

Street Journal used constructal law to help explain unprecedented scoring in recent NFL seasons. Bejan, who has amassed sixteen honorary degrees from eleven universities, received honorary membership in the American Society of Mechanical Engineers last year. In addition to his ongoing research, Bejan teaches a course on constructal law at Duke each spring.



WATCH 
Bejan
interviewed
about his
new book



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THE Quad

NOTEWORTHY FROM AROUND CAMPUS

Duke students participate in Holi, the festival of colors that Hindus celebrate to mark the beginning of spring.



BY THE NUMBERS

Facts from Duke's Thompson Writing Program, which offers writing courses and tutoring for students and faculty

1,201

Students participating in the Writing Studio, a free tutoring program, in 2011-12

22

Percent of tutoring appointments conducted online

15

Disciplines represented by the faculty of Writing 101, required of all freshmen

223

Students who signed up for the Duke Reader Project, which pairs students with faculty and alumni experts in the subject of their writing

38

Percent of a student's writing time spent on "life writing"—e-mails, blogs, journals, and poetry—according to a 2008 Stanford University study

8

Faculty members who participated in a Thompson Writing Program writing group to work on scholarly articles

1

Faculty member (biology professor Dan McShea) who participated in the group to work on a children's book

Les Todd

“If centrists like Sen. [Olympia] Snowe continue to leave the public sphere—or are voted out of office in primaries—we will be left with totally polarized legislatures, perpetually gridlocked and incapable of addressing the nation’s pressing challenges like the deficit, energy dependence, and economic competitiveness.”

—David Schanzer, associate professor of the practice of public policy (*The Times-Picayune*)

“Think about recent innovations in the way we book flights or buy music. These products save us time and money and make us more productive. However, while the firms that pioneered these innovations might have grown fast, they likely eliminated large numbers of jobs in travel agencies and record stores along the way.”

—Aaron Chatterji, associate professor of business, on the pros and cons of small businesses as job creators (*Wall Street Journal*)

“I don’t want to get in trouble with anybody.”

—President Barack Obama, explaining that his tie included both Carolina and Duke blue, during a speech in Mount Holly, N.C., in March (*The Washington Post*)

“That immigrant culture that has renewed us has been at the core of our strength. I don’t know when immigrants became the enemy.”

—Former Secretary of State Condoleezza Rice, during the Ambassador Dave and Kay Phillips Family International Lecture at Page Auditorium





Happy plants: A cabbage plant grows at the Duke Campus Farm, an educational farming facility to promote understanding about food sources and sustainability.

Megan Morr

“It all starts with the soil.”

—**Will Allen**, former professional basketball player and founder of Milwaukee-based community farm Growing Power, explaining the key to growing more nutritious food, during an event on America’s food future sponsored by Duke and UNC-CH

“I would be very surprised if it did anything more than anger the people who are already hostile to Goldman.”

—**Lawrence Baxter**, professor of law, on Greg Smith’s *New York Times* op-ed piece explaining his resignation from Goldman Sachs (*USA Today*)

“They played soccer and enjoyed concerts.... The way they created this life within total gloom and darkness is a real testament to the human spirit.”

—**Karen Weiner** '92, on publishing her father’s diary of life as a boy in the Nazi concentration camp Terezin (Duke Divinity’s *Faith and Leadership*)

“Students need to learn things and to be innovative and entrepreneurial in this new global world.... Art is about communicating effectively, about communicating visually, about understanding.”

—**Kimerly Rorschach**, director of the Nasher Museum, on why university art museums are important (*The New York Times*)



STOCKPHOTO

Building a Data Lockbox

Potti case leads to new research rules.

In evaluating the university’s actions surrounding now-discredited research data published by former faculty member Anil Potti, Duke research officers admit the university made mistakes in handling the case—and they are taking steps to make sure it doesn’t happen again.

Sally Kornbluth, vice dean for basic sciences in the School of Medicine, announced several new steps to improve data transparency and security at a February meeting of the Academic Council. Among the changes will be revised information-technology processes to document whenever data collected in original research are altered.

A key allegation in the ongoing investigation into Potti’s research is that data collected in several of his studies on cancer were altered for publication. Kornbluth

said Duke’s investigation of Potti’s data was flawed because it examined only the statistical methodology applied to the data, not their origin.

The new measures create a “data lockbox,” Kornbluth said. “We want to see when changes are made and who makes the changes. Had that been in place in this case, the discrepancy in [Potti’s] data would have been revealed earlier.”

Kornbluth said there was “a dire need” in many research labs for quantitative expertise to review data. As a result, Duke has taken steps to embed biostatisticians in clinical research groups. Already this change has attracted attention from other research institutions looking to reduce errors in data analysis.

It’s impossible to develop a system that

“We want to see when changes are made and who makes the changes.”

will completely eliminate academic fraud if a researcher is intent on misconduct, said Kornbluth, “But this case highlighted that we can take a hard look at the infrastructure and the culture around research to reduce it.”

“We want people to feel free to raise concerns when they see research problems,” she said. “This is through a combination of creating places to raise concerns anonymously and to have leadership throughout the institution where people feel comfortable to raise their hands and speak out.”

FOOTNOTE ►►

Duke will build a **six-acre pond** near the School of Law to reclaim and collect water that will be used to cool campus buildings. The project is expected to save about 100 million gallons of drinking water a year.



Nelson Boyd Wertz Landscape Architects

Force of Nature

Peeking inside a particle to understand something bigger



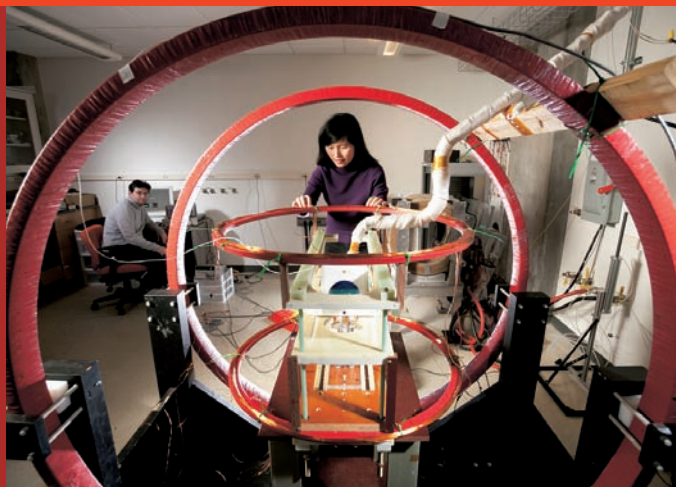
Haiyan Gao, chair of Duke's physics department, probes inside atoms to study the structure and spin of neutrons. A native of Shanghai, Gao was inspired to pursue physics by her father's stories about female Chinese physicist Chien-Shiung Wu, who came to the U.S. in the 1930s and helped scientists unravel the chain of reactions needed to create the atomic bomb. Now Gao is designing experiments that test for the existence of a new, fifth, fundamental force of nature.

What forces do we already know about?

There are four fundamental forces we already know about. Some of them we are more familiar with than others—for example, gravitational force and electromagnetic force. The third one is strong force, which is the force responsible for binding neutrons and protons into the nucleus of an atom. The fourth force is the so-called nuclear weak force, which is responsible for the fact that a neutron decays into a proton, electron, and anti-electron neutrino. The name can be misleading, because you would think weak force is weak, but the weakest force we know is actually gravity. And because gravity is so out of range with all the other three forces, we have not been successful in unifying all four forces. So far, the theory we have is the standard model of particle physics, which will allow you to unify electromagnetic, strong interaction, and the weak interaction.

If you can't unify all the other forces, is that why you need another force?

To some extent. The reason we need, or we think we need, new forces is because we do not really understand everything in nature. This Standard Model of particle physics is successful in describing a lot, but it cannot describe, for ex-



Spin zone: Haiyan Gao uses tabletop equipment to control the spin of subatomic particles.

ample, why 74 percent of energy in the universe is actually dark energy and why visible matter is only 4 percent, or why the universe is predominantly matter, rather than matter and anti-matter. What physicists are trying to do is extend standard models by introducing new physics.

In terms of looking for this new force, you can't necessarily use just a neutron, because it decays pretty quickly, right?

Fortunately and unfortunately, a neutron decays in around fifteen minutes. That makes my job very difficult. For the same reason that a neutron decays, however, you can actually use that to look for this new kind of physics. To do my work, I want to use something very similar to neutrons—but

stable—because I want to play with the polarization, or alignment, of the neutron spin. And then you know, you can ask your graduate students to work twenty-four hours a day, seven days a week. I'm joking, but the point is you have a lot of time to work on your experiment and don't have to worry about finishing everything in fifteen minutes.

I thought everything in particle physics now was about giant, expensive particle-smashers.

The way to look at new physics is to go to extremely high-energy regions, big colliders where you're at the high-energy frontier. But one can also go to the lower-energy regions and perform high-precision measurements, using weak interaction. You

want to do experiments from different ways to get a complete picture. It's like looking at an elephant. You have to look at one from different angles; otherwise you just get a long nose or long leg.

What are the essential points about the atom that we should be teaching in high-school physics?

You can learn so much about the basics of modern physics that are important for chemistry, for biology, and materials science. I cannot emphasize enough the importance of studying atoms. And it's very important to give students the impression that even though the atom is part of our everyday lives, we still don't know everything about it. We don't know why a neutron is neutral, why a proton has a charge of 1, why the masses of the particles are so close but not quite equal, why the proton is stable but the neutron decays. We need more youngsters to be interested and inspired and motivated to carry on the adventure of understanding more about the subatomic world.

Adapted from a video interview conducted by Ashley Yeager, science writer for the Office of News and Communications. To see the full Office Hours program, go to dukemagazine.duke.edu.



ONTHEPLAZA

Sounding the Bells for Haiti

When an earthquake struck Haiti in January 2010, the world sprang into action. Martin Connor sprang into composition. Connor, then a sophomore and a newly declared music major, began working on a requiem for the victims of the earthquake, which claimed more than 300,000 lives and left more than one million people homeless. Working with Anthony Kelley '87, A.M. '90, associate professor of the practice of music, Connor spent two years on the project, which became his senior thesis. The finished work, debuted at Duke Chapel this

spring, features singers, musicians, and the work of carillonneur Sam Hammond '68, M.T.S. '96. Connor wrote lyrics for the funeral mass in both the traditional Latin and Haitian.

Raised Catholic, Connor had a natural interest in the requiem as a musical form, but he also drew motivation from

his deep, if unexpected, feelings for Haiti. "I'm not Haitian," he says. "I don't know too many Haitian people. But I listen to their music, and kind of keep [the country] on my radar. I feel like Haiti is a country to be proud of."

Connor says he hadn't planned to major in music when he entered Duke, but he has found it to be something he can't live without. "Something about it just feels right," he says. "If anyone was ever meant to do anything, I was meant to compose."

He hopes to publish his requiem and use proceeds from live and recorded performances to support rebuilding efforts in Haiti. "The news cycle moves so fast," he says. "I wanted people to slow down...and remember it doesn't end when the news cameras leave." —Aziza Sullivan

Martin Connor '12

Major: Music

Hometown:

Bryn Mawr, Pennsylvania



Les Todd

Hazing Concerns

Reports rise—but the reasons aren't clear.

A spike in reports of hazing at Duke—coinciding with a wave of national media attention on hazing on college campuses—has brought renewed focus on an old problem.

Twenty-three reports of hazing have been filed in the current academic year, up from seven in 2010-11. Associate dean of students Stephen Bryan says it's difficult to know whether acts of hazing actually have increased from previous years or whether there's simply greater awareness of the issue. In particular, the November 2011 death of a Florida A&M University band member, allegedly as a result of hazing, put a national spotlight on the dangers of hazing.

None of the incidents reported at Duke this year was filed by an individual claim-

ing to have been hazed; rather, the complaints have come from other students, parents, and residence-life staff. Most of the reports were made confidentially through a hazing hotline or an online reporting system. "Hazing isn't contingent on whether something is forced or voluntary," says Bryan. "In a number of the cases we've followed through on, the people involved didn't think they had been subject to hazing."

Alleged offenses included excessive alcohol consumption and forced physical activity. While the majority of reported incidents involve students involved in Greek life, others have come from selective living groups, athletic teams, and other campus organizations.

Investigation into these reports contin-

ues. So far, eight groups have been found responsible for violating the university's hazing policy and have been sanctioned with a variety of responses, including disciplinary probation, restrictions of activities and/or future recruitment, and redesign of new-member education programs.

In a February newsletter to parents, vice president for student affairs Larry Moneta outlined the steps the university is taking to deal with hazing and asked parents to be part of the solution. "As I've told my own children," he wrote, "if my choice is to prevent you from embarrassment by inaction on my part or to take actions that I believe protect you from harm, I will always do the latter. I ask the same of you."

—Bridget Booher

BOOKBAG

MUSIC 146: MEET THE BEATLES AND THE 1960's

The catalyst: Although music professor Thomas Brothers was hired as an expert on medieval and Renaissance music, he's longed for the opportunity to teach a course on one of the most celebrated and influential bands of the past century. "I grew up with the Beatles music, and I love it still, and I never get tired of it," he says. "My sense is that a lot of college students love it, too."

The gist: The course intersperses toe-tapping listening sessions with music theory and the cultural history of the decades surrounding the Beatles' evolution. "Serious but totally accessible. That is the trick of the Beatles," says Brothers.

The twist: While some students sign up because they're Beatles fans, the class isn't about fawning over pop icons. "I try to talk about a little bit of music theory without getting too technical," says Brothers. "I want to give students both a musical and cultural perspective on the Beatles' music. There are a lot of interesting things going on—spirituality, revolution, counterculture."

Assignment list: Readings include Timothy Leary's 1964 book *The Psychedelic Experience* and "Inside the Hippie Revolution," William Hedgepeth's 1967 article for *Look* magazine. Projects include imagining a Summer of Love reset in 2012 and envisioning the "ultimate Beatles album."

What you missed: Brothers begins one class by writing five song titles next to a clef on the chalkboard. Students are guided from the melodic bass lines in the Beach Boys' "Sloop John B" to the mounting urgency in John Lennon's distorted voice in the Beatles' "Strawberry Fields Forever." As Lennon's third verse hits, Brothers exclaims with whispered enthusiasm, "Those cellos are savage!"

—Dan Altman

Genuine Mad Man

A Madison Avenue pioneer's link to Duke

If Don Draper is the fantasized version of a suave 1960s pitchman, David Ogilvy was the real deal. Flamboyant and movie-star handsome, the late founder of Ogilvy & Mather helped build the *Mad Men* milieu, lording over advertising's Cold War-era boom and producing some of the industry's iconic campaigns.

A trove of Ogilvy's history resides in Duke's Hartman Center for Sales, Advertising & Marketing History, part of a collection of personal papers donated by former Ogilvy & Mather CEO Kenneth Roman. Roman, who recently published a biography of Ogilvy titled *The King of Madison Avenue*, visited Duke in March to help celebrate the Hartman Center's twentieth anniversary—and share some tales of an original Mad Man.

"I knew I had a great subject, but I discovered I had a great story," Roman said during the lecture. He recalled Ogilvy's gift for divining advertising maxims, many of which he stowed in Russian nesting dolls for employees to discover. "He changed the business. He made it more professional," Roman said.

Credit Ogilvy, too, for introducing gin-and- tonic to American consumers through a memorable ad campaign for Schweppes. And that's a legacy that Draper would appreciate. —Kristin Oakley



Coollest thing next to a pool: Gin-and-Tonic with Schweppes

"This event, in this picture happens to be in Whately—but it might just as easily have been in Bangalee, or Nairobi. Within the past few months, Commander Whitehead has visited London, Singapore, and Honolulu. Truly, there is hardly a capital where the Schweppesman is not known. True, Commander Whitehead did not actually meet Gin-and-Tonic—or even Schweppes. Coollest people the world over were enjoying Schweppes long—erect!—before when

the Commander's great-grandfather was a mere indigyan. But nobody has traveled farther to evangelize Schweppes spiritualized carbonates. Commander Whitehead sells it Schweppes-wide. And it isn't the ideal drink through.

Ask for Schweppes at clubs and restaurants. Your grocer also sells it in plastic cartons, for little more than ordinary prices.



Courtesy Hartman Center for Sales, Advertising & Marketing History

Afternoon gin-and-tonics: A Schweppes magazine ad from 1954

Journalism 2.0

Reporters get a toolkit to deal with data overload.

It's hardly news that technology is transforming the way that consumers engage with journalism. But how effectively have journalists embraced technology? Asking that question led Sarah Cohen, Knight Professor of the practice at the Sanford School's DeWitt Wallace Center for Media and Democracy and a Pulitzer-Prize-winning journalist herself, to conceive what she calls the Reporters' Lab—a sort of think tank, research center, toolkit, and Web-based hosting service.

According to the lab's website, government offices from the local police department to the federal Department of Energy routinely generate artifacts that could become "vital elements" in investigative journalism. "Even when reporters can pry those records from agency warehouses and hard drives, the stories are still hidden in hours of videos, stacks of forms, and giga-

bytes of data housed in unfriendly formats."

The issue in journalism transcends access: The full-time reporters who ply their trade in city halls and statehouses are disappearing. A 2011 study by the Federal Communications Commission documents the decline of local watchdog reporting. The study described a resulting "shift in the balance of power—away from citizens, toward powerful institutions."

The Reporters' Lab aims to help journalists make sense of "messy, confusing, and inconveniently formed records." As the website notes, ubiquitous computer power already reduces billions of tweets into a routine data set. So it makes sense to redeploy that computer power and provide "easy-to-use, targeted, and customized software that helps solve reporting problems and open up new journalistic frontiers."



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Eclectic Choreography

American Dance Festival takes another turn.

Summer in Durham—time again for the hordes of lithe, leotard-wearing dancers who descend on the Bull City for the American Dance Festival. Now in its seventy-ninth year, the festival this year features sixteen companies and choreographers, seven commissioned works, six world premieres, and seven company debuts. Returning groups include Keigwin + Company, Hubbard Street Dance Chicago, Pilobolus, Paul Taylor Dance Company, and Mark Morris Dance Group. Debuting this year are the Stephen Petronio Company, Vertigo Dance Company (Israel), Ragamala Dance, and Kyle Abraham/Abraham.In.Motion.

A collaboration between ADF and the North Carolina Museum of Art features choreographer Shen Wei's new work, *Undivided Divided*. The forty-five-minute piece is designed for viewers to wander through moving "displays" of painted dancers and interactive installations at the museum.

Performances remain the heart of the festival, but the concurrent ADF school sessions attract a colorful cohort of students, who take courses in contemporary technique, improvisation, repertory, ballet, and hip-hop. Alumni include Madonna, who was a student in 1978.



Kinetic energy: Keigwin + Company bridge the gap between artistry and entertainment.

On the Map

Lab takes cartography beyond its usual borders.

Saturday afternoon, and the lecture room is full of undergraduates, grad students, and faculty members. A large chart makes its way around the room, and the crowd of thirty dutifully marks on it. It's not a sign-in sheet, but a map—and by the time it has made it around, it's decorated in small doodles, words, and one ring from a coffee mug.

"Everybody can add to the map...and it will no longer be just a map," says Katharine Harmon '82, founder of Tributary Books

"It will no longer be just a map. It will also be art."

and author of two books that explore real and imaginary territories. "It will also be art." Noting looks of dubious uncertainty, she adds, "That's what artists do—they use maps as a means of personal expression."

It's a theme that recurs throughout "Cartography & Creativity in the Age of Global Empires,"

a day-long lecture series sponsored by BorderWork(s), one of the new humanities labs organized by the Franklin Humanities Institute. A younger sibling to the 2012 pilot, the Haiti Lab, BorderWork(s) takes its name from its central focus on national and international boundaries and their effects on worldwide social and political behavior. The lab's work will culminate in a 2013 exhibition titled "Lines of Control" at the Nasher Museum. The humanities labs are funded through a Mellon Foundation grant called Humanities Writ Large.

The lecture series, which took place in March, featured twelve speakers who explored maps as art, as ways of understanding the world, and as tools for shaping identity, enforcing power, and defining sociopolitical borders. "Maps are not just about science. They are very much about the humanities as well," says Sumathi Ramaswamy, a professor of history and core faculty member of the BorderWork(s) lab. "The metaphor of mapping has to do with the fact that humanists are interested in people, and in places, and what happens to people as they move through different places." —Aziza Sullivan

Matthew Murphy

Blue, Green, and Platinum

New Nicholas building targets sustainability.



Fayette, Boston, MA

With a name like Duke Environment Hall, you'd expect the future home of the Nicholas School of the Environment to be eco-friendly. And, indeed, the 70,000-square-foot building is striving to be the greenest on campus.

Plans for the five-story structure, which will be adjacent to the Levine Science Research Center, call for a green roof, solar-heated water, recycled water for toilets and irrigation, and natural light-

ing. When completed in the summer of 2013, the building is expected to exceed standards for LEED platinum certification.

The new space will help accommodate the school's growing student population; enrollment in its master's of environmental management and master's of forestry programs has increased by 50 percent since 2007. Faculty offices and classrooms currently are spread among several West Campus buildings.

PLANETDUKE | India

At a Glance

Current students who were born in India:

362

Indian nationals working at Duke:

109

Alumni living in India:

446

Number of undergraduate students who traveled to India with university programs in 2011:

33

Key Duke connections:

- Undergraduate education programs in Udaipur
- DukeEngage programs in Jodhpur and Kolkata
- Duke Intense Global, a yearlong academic and civic-engagement program in Hyderabad, designed and led by Leela Prasad, professor of religion and faculty director of the Duke Center for Civic Engagement
- Duke Talent Identification Program hosts a three-week residential summer program for academically gifted Indian children in Mysore
- Global executive and cross-continent M.B.A. programs include a one-week residential academic program in New Delhi
- Medanta Duke Research Institute, created in 2011 by Duke Medicine and Medanta, a leading hospital based in Gurgaon, India, to advance the global study of disease, drug development, and new medical technologies

Fighting Disease With Data

In more than a decade of fieldwork in rural India, **Manoj Mohanan** has seen many hopeful efforts to improve the health of the country's most vulnerable populations. But he also has learned that human behavior often defies the best of intentions.

In the Indian state of Bihar, for example, rates of preventable or treatable diseases such as childhood diarrhea and tuberculosis have remained

among the worst in the world despite years of government intervention. "For six or seven decades, the government has tried to send in doctors and nurses," says Mohanan, an assistant professor at the Sanford School of Public Policy and a researcher for the Duke Global Health Institute. "It has not worked."

Mohanan is using the tools of social science to learn why those interventions haven't

been more successful. In other parts of India, he has surveyed pregnant women to understand why many pay informally trained midwives rather than receive free obstetric care at a hospital. His data have helped reshape policies and approaches to rural health care in the country. Recently, he helped design and implement a new health-insurance program for the state of Karnataka.

In Bihar, one of India's poorest regions, Mohanan is working with the Bill and Melinda Gates Foundation to evaluate the effectiveness of telemedicine, which aims to use communication technology to improve health care in rural areas. The foundation has set up kiosks throughout Bihar and other regions where local health-care providers can transmit test results and consult with doctors in urban hospitals. The technology, though promising, remains untested, says Mohanan.

"We're trying to look at it empirically," he says. "Whether it works or not, let the data tell."

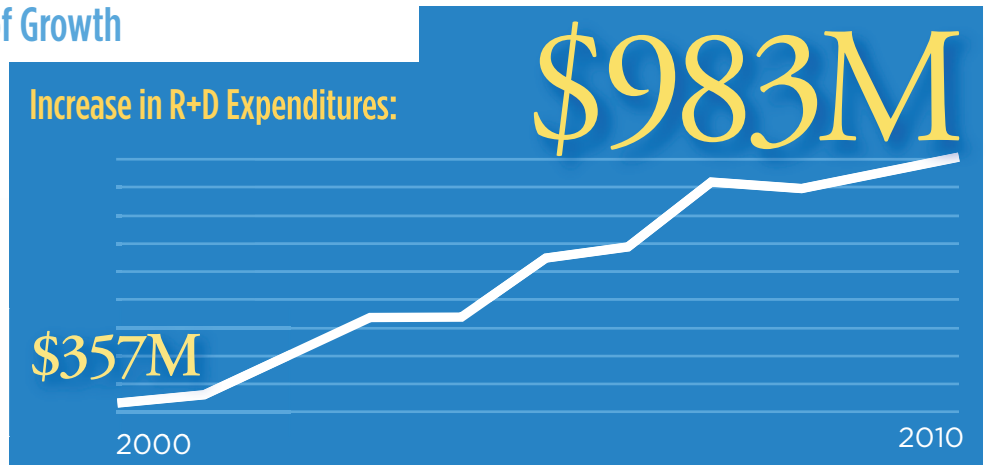


Duke Global Health Institute

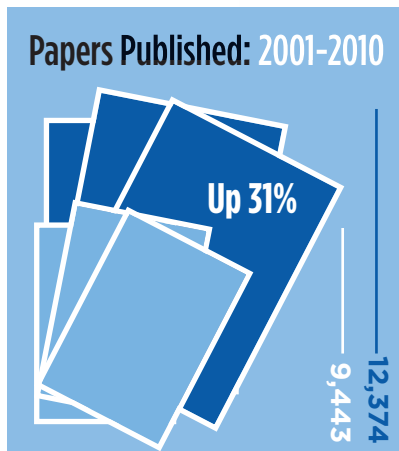
In the field: Duke professors Manoj Mohanan and Subhrendu Pattanayak, seated, in Bihar

DUKE360

Duke Research: A Decade of Growth



Based on total annual research and development spending. Source: National Science Foundation



Data courtesy Duke News and Communications

NOTABLE



- **Emanuel Azenberg**, adjunct professor of the practice of theater studies, will receive a Tony Award for Lifetime Achievement in the Theater at the Tony Awards in June. An eight-time Tony winner for his Broadway productions, Azenberg has taught at Duke for eighteen years.
- **Michael Bernert '12** was chosen as the first recipient of a \$25,000 grant from the Hart Leadership Program's Enterprising Leadership Initiative to launch a social venture. Bernert has created West African Ventures in Agriculture, a company that makes investments in agricultural projects in Sierra Leone and Liberia.
- **Richard B. Hays** has been appointed to a full term as dean of Duke Divinity School. Hays, the George Washington Ivey Professor of the New Testament, has served as interim dean since August 2010; he is a scholar of the letters of Paul and New Testament ethics.
- **Kenneth Hoehn '13** and **Clara Starkweather '13** are recipients of the Barry M. Goldwater Scholarship for continuation of their interdisciplinary research. Hoehn works in evolutionary biology and computer programming, and Starkweather works with music and neurobiology.
- **Stephen Jaffe**, professor of music, was inducted into the American Academy of Arts and Letters, the highest recognition of artistic merit in the nation.
- **Kristen Lee '13** has been named a Truman Scholar. Lee will pursue a medical degree and a master's in public health in the hope of working as both a clinician and activist for women's health and reproductive rights.



Ideas

MECHANICAL ENGINEERING

Making Motions Multitask

A new idea for harvesting energy from everyday motions

Imagine you're walking down the street and talking on your cell phone. You've been talking a while, but you're not worried about the battery dying because the motion of your walking is creating enough electricity to charge your phone.

This isn't possible with current energy-harvesting technology, which is designed for consistent motions, such as walking at a steady pace on a treadmill. But a team of engineers at Duke has come up with a theory for

improving those devices so that they can more efficiently capture energy from everyday motions.

"A traditional linear harvester would only be able to take advantage of a very limited frequency," says Benjamin Owens '10, a graduate student at the Pratt School of Engineering. That may work fine in a lab setting, where variables like speed and direction can be controlled. But in real-world applications, linear devices would capture only a fraction of the energy expended in walking

down a crowded street.

The Duke engineers reworked the principles to account for a greater range of frequencies. Their model uses magnets to change the orientation of piezoelectric material, which generates electricity when bent, essentially allowing it to "tune" to a greater range of motions.

"Being able to capture more of the bandwidth would make it more likely that these types of devices would have practical uses in the real world," says Brian Mann, associate professor

of mechanical engineering and senior researcher on the study. Potential applications might range from a cellphone to a pacemaker or cardiac defibrillator. Mann is investigating whether such nonlinear devices could power sensors on buoys by extracting electricity from the motions of waves or could be applied to even larger devices.

—Richard Merritt



istockphoto

What big eyes you have: A North Sea squid's awesome orb

MARINE LIFE

Here's Looking at You, Squid

Peering into the workings of life's biggest eye

Giant and colossal squids have the largest eyes of any animal—orbs as big as basketballs—but it's not like the sea creatures have X-ray vision. So why the big eye?

Associate professor of biology Sonke Johnsen says it's all about defense. "They're

most likely using their huge eyes to spot and escape their predators, sperm whales," says Johnsen, who collaborated with a group of biologists to model how the giant eyes work.

The team found the design and size of the eye maximize a squid's ability to detect

tiny contrasts in the dimly lit waters of the deep ocean. This enables squids to see approaching sperm whales as they disturb bioluminescent organisms from as far away as 120 meters. That's not far enough to avoid a whale's sonar, but it may offer enough time to plot an escape.

WHAT WE'VE LEARNED: THE BRAIN

Five things that came out of the Duke Institute for Brain Sciences' annual **Brain Awareness Week**, a series of public lectures held in March:

1. The brain is inherently empathetic. Human brains are highly evolved from early childhood to read the mental states of those around us within fractions of a second. Making mental-state inferences is so instinctive that we tend to treat a non-human entity as if it were a person, too.

2. Humans aren't alone in their capacity for emotions. Guest lecturer Jaak Panskepp, a neuroscientist at Washington State University and an expert on animal emotion, pointed out that rats and other animals respond to tickling, and brain scans suggest that they're in on the joke.

3. Telekinesis may be closer than you think. Duke neurobiology professor Miguel Nicolelis reported on advancements in biomedical engineering that may soon make it possible for a human brain to interact directly with a machine. Nicolelis is building a prototype device that would allow paralyzed patients to move their limbs with their thoughts.

4. If you are pregnant, it might be a good idea to eat more foods with choline. This little-known B vitamin not only helps us move our muscles, but it's also the basis for the main neurotransmitter that fuels memory. Studies in rats have found that adding choline to a prenatal diet gives a boost to the developing brain, making them more resilient to trauma and the effects of aging.

5. Wear a helmet. The brain's three natural layers of protection are no match for the force of, say, falling on pavement from a bicycle. During the week's activities, families performed experiments using eggs and prisms to mimic the damage such a fall can inflict.





istockphoto

BIGQUESTION

Why do people buy lottery tickets?

When the Mega Millions jackpot went over \$600 million in early April, people waited in long lines to buy a ticket, giving them a one-in-175 million chance of winning the grand prize. With such slim hopes of striking it rich, why do people play?

*Charles Clotfelter '69, Z. Smith Reynolds Professor of public policy, law, and economics and coauthor (with public policy and economics professor Philip Cook) of *Selling Hope: State Lotteries in America*, responds:*

Economists don't like lotteries because they are a terrible investment. Out of every dollar players spend on state lotteries, only about 60 cents ends up back in their pockets, in the form of prizes, with the rest going for operating expenses and revenue for the state. Yet surveys reveal that more than half of adults do play the lottery at least once a year, and a small minority of players bet heavily.

One explanation given years ago by two economists is that those who gamble, unlike the majority of us who are risk-averse and buy insurance to protect us from risk, actually seek out opportunities to take a chance.

Another, and I think more persuasive, way of looking at lottery play is simply as another form of entertainment. No one expects playing a video game or going to a movie to be a good investment. We should think of playing the lottery in the same way. Viewed as just one more form of entertainment, lotteries are no more irrational than any number of leisure activities. To be sure, gambling often has the element of superstition, with many bettors playing lucky numbers or otherwise believing that their behavior can influence their chance of winning. And state lotteries sometimes encourage this kind of magical thinking, using such messages as, "Don't let your number win without you."

HEALTH CARE

Your Health, Guaranteed

Proposed tweak to health-care law could save billions.

Amid the rancor over the future of the Affordable Care Act (ACA), a Duke student has come up with a small tweak to the law that could save taxpayers billions.

Noah Kalman, a dual-degree M.D./M.B.A. student at Duke's Fuqua School of Business, suggests that hospitals be required to offer patients warranties on medical services. In a paper for *The New England Journal of Medicine*, Kalman and two coauthors say such a provision could reduce hospital readmissions that now cost Medicare \$17 billion each year.

According to a 2009 study, nearly 20 percent of Medicare beneficiaries are re-hospitalized within thirty days of discharge, often because of infections,

complications, or inadequate communication during their initial visit. "Unfortunately, hospitals have no financial incentive under the current Medicare reimbursement system to reduce readmissions," says Kalman. "The ACA's proposed penalties for hospital readmissions are likely too weak to solve the problem, and the ACA offers no benefit for hospitals that reduce their readmission rates."

Kalman and coauthors Robert Berenson, from the Urban Institute, and Ronald Paulus, from Mission Health System in Asheville, write that the ACA could be modified to allow Medicare to either eliminate or reduce payments for many or all readmissions within a designated period after discharge.

LEARNING

When Fantasy Is Reality

Study shows why Hollywood is a bad teacher.

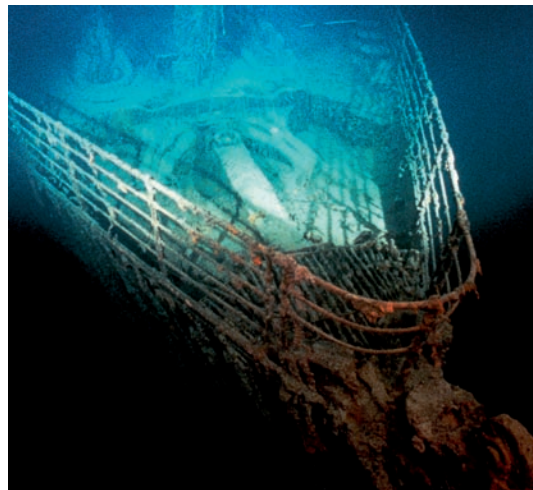
In the blockbuster movie *Titanic*, First Officer William Murdoch is portrayed as a ruthless villain who shoots two men as the ship goes down.

Problem is that never happened. The real-life Murdoch was last seen launching lifeboats and likely died in the water.

It's no secret that Hollywood plays loose with the facts when dramatizing real-life events. A recent Duke study, however, says those inaccuracies tend to settle in students' minds as truth, making it more difficult to teach what really happened.

In the study, Duke undergraduate students read a short text about a historical event or figure before watching a five-minute clip from a corresponding movie. The films included *Glory* and *Amadeus*, which intermingle true events and dramatized action. When asked to identify the inaccuracies in the clips, students only managed to find 35 per cent of them. Worse, the students asked to separate truth from fiction came away with just as many misconceptions as students who were asked only to watch the clips.

"Unfortunately, students aren't very good at catching the major historical inaccuracies in popular films, even when explicitly asked to do so," says Sharda Umanath, a doctoral student in Duke's psychology department and lead author of the study. She says the study underscores the need for teachers to reinforce the differences between movie fantasy and reality.



© Ralph White/CORBIS

Seeing isn't believing: Films such as *Titanic* don't float on facts.

Observer

While You Were Sleeping

In search of a good night's rest at the Millennium Hotel | By Elissa Lerner

The Patient

Sheema Hallaji is beat. After a double shift in the Duke Hospital pharmacy, she can't wait to pass out. She changes out of her work clothes, pulls her hair back into a ponytail, and sets her iPhone at bedside. But before she can settle down into bed, a technician needs to mark her head with a green grease pencil and glue on a set of electrodes.

With her wedding approaching, Hallaji hasn't been sleeping well, and so she has come to spend a night in the Millennium Hotel near West Campus to find out why. Her room is not quite a normal hotel room: It's been converted by the Duke Sleep Disorders Center, a clinical research lab affiliated with Duke Medicine. The lab has equipped fourteen rooms at the Millennium with monitors to record patients' sleep, logging brain activity, breathing patterns, and muscle movements—data that can help doctors figure out their patients' sleep issues. While sleep labs exist in hospitals across the country, Duke's is one of the few that is housed in a hotel, the idea being that homey surroundings make the experience—that is, attempting to sleep naturally with wires coming out of your head while strangers monitor you on video—slightly less uncomfortable.

At a prep station, Hallaji sits patiently as Brandi Elliott, a sleep technician, outfits her head and body with electrodes, a meticulous process that takes around forty-five minutes. As Elliott applies a glue compound into her carefully blow-dried hair, Hallaji groans. She'll have to wake up earlier than expected to show her the glue out before her 6:30 a.m. shift. (At least she doesn't have stubble: Male patients with short and spiky beards and hair often require Collodion, a powerful and acrid medical-grade glue, to keep the electrodes in place.)

Elliott connects Hallaji's Medusa-like head of multicolored wires to an EEG headbox known as "the pack." The pack hangs around her neck as Hallaji makes her way back to her room. She climbs in bed, careful not to dislodge the electrodes on her legs and arms. Overlooking the bed

is an oblong glass-encased camera with a dim red light, eerily reminiscent of HAL in *2001: A Space Odyssey*. An intercom behind the bed allows communication between the patient and the observation room. Patients must ask to be unhooked if they need to get up to go to the bathroom. Even rolling over can be difficult without yanking something out of place.

Hallaji is nervous—she hates sleeping with pants on—and momentarily gets self-conscious about the video camera before burrowing under the blankets. Elliott connects the pack to a computer beside the bed and slips a pulse monitor over one of Hallaji's fingers. Finally, it's lights out. As Elliott leaves the room, Hallaji reads on her iPhone for a few minutes and then closes her eyes. With any luck, she'll get at least five hours of measurable, if not uninterrupted, sleep—the minimum needed for a usable study.

The Tech

As Hallaji settles in for the night, so does Brandi Elliott. She retreats to a nearby observation room, where she and other technicians confirm the equipment is working properly and continue to monitor their slumbering patients. At Elliott's workstation, a large computer monitor shows three streams of data—brain activity scrolls along the top, eye and leg movements in the middle, and breathing patterns on the bottom. Overhead, a small black-and-white television shows her patient sleeping.

On a busy night, seven techs work in the observation room, each observing two patients. This night is a quiet one. As the techs make notes on data readouts, there's only the faint hum of static over the intercoms. Often, there's a cacophony of snoring.

Those techs are adept at quickly reading the data flowing by. Like composers mentally assembling music from a sheet of notes, they synthesize patterns that tell them what stage of sleep each patient is in. Craggy-looking brain waves are a sign of stage 2 sleep, when you've fallen away from outside stimuli. Loose, rolling waves indi-

cate stage 3 sleep, a deep sleep more common among teenagers than adults. Eye movements are a dead giveaway for REM sleep. The techs are also good at spotting suspected cases of apnea, one of the most common disorders seen at the lab, and sometimes provide patients with special masks for part of their studies.

For the most part, though, monitoring sleep is a low-key job. There's usually time to read or study. Elliott even likes the unusual schedule. She drives to Durham from her home in Hickory, North Carolina, each Wednesday and stays through Saturday morning, sharing a room at the Millennium with another tech. "I wake up by 5:30 p.m., I'm upstairs by 6:20, I go back down in the morning at 7:30 and sleep ten hours. It's great," she says.

The techs find various ways to stay alert during the nights. Some of them hum to themselves while marking up studies. Elliott makes a weekly Kroger run for nighttime snacks. The break-room refrigerator is stocked with ten varieties of two-liter bottles of soda.

The Doctor

Everyone can relate to sleep problems, says Rodney Radtke, MD '84, director of the sleep lab, because "everybody does it." Still, with greater knowledge about the connection of sleep disorders to heart attacks and strokes, people are paying closer attention to the third of our lives we spend sleeping.

Radtke reads patients' sleep studies shortly after they are performed and offers his medical diagnosis. The thirty-year-old lab has seen some of the more unusual sleep disorders—parasomnia, for example, in which patients physically act out in their sleep, or disordered sleeping patterns. But the most common problem, by far, is sleep apnea, the involuntary suspension of normal breathing while asleep. Its incidence is increasing in part because of nationally rising obesity rates.

"When you have a large abdomen, breathing is harder," Radtke explains. "And men and postmenopausal women have fatter necks, so the airway can collapse."



Les Todd

For the most straightforward cases, a sleep doctor will prescribe a CPAP device that fits over the nose and mouth to apply continuous air pressure, tailored to the patient so that he or she won't keep waking up due to breathing abnormalities. But sometimes the problem is behavioral or psychological. In that case,

Dreams of sleep: Lab patient Aaron Edgley is wired for the night.

Radtke will refer the patient to an appropriate doctor.

Some people misinterpret the field, thinking a sleep lab can help make sense of strange dreams or lucid sleep, but Radtke is emphatic about his work. "I'm a clinical sleep doctor, not a researcher," he says. "The purpose of sleep, or REM sleep, or

why we dream, we don't know."

So whatever is bugging Hallaji's sleep may show up in the dips and waves of her physiological measurements. And if it does, the lab can diagnose her problem. But then again, it may not. Sleep is still largely mysterious, an internal world that all of us, in the end, navigate alone. Even when we're being watched. ■

What's in It for *me*?

A culture of incentives pervades our jobs, our legal system, and even our parenting. But one Duke professor warns that too many carrots may be undermining our sense of what's right.

BY ROBERT J. BLIWISE

I really want you, resolute reader, to read this entire story. Yes, that's you. And it's really important. So what will it take to make it happen? Maybe a personal note of appreciation? Or a Starbucks coupon? Or the guarantee that your favorite student will attend Duke tuition-free?

What makes this a vital read is that it's all about your behavior. It's all about that big, important thing you did—or had someone else do—and how it resulted from incentives. Maybe it was carpooling so that you could zip along in express traffic lanes during rush hour. Or maybe it was contributing to a charity to take advantage of a tax deduction. If you're a teacher, perhaps you offered extra credit for students who speak up. If you're a New Jersey-based company, maybe you're pledging to add jobs and tap into \$1.57 billion in state tax breaks. Or maybe it was a disincentive that moved you: the tax that made cigarettes too expensive, or the parking fine that kept you between the lines.

We may not always focus on the incentives driving our actions, but they're too prevalent to ignore as something of scholarly interest, says Ruth Grant, a Duke political scientist and senior fellow at the Kenan Institute for Ethics. Her new book, *Strings Attached: Untangling the Ethics of Incentives* (Russell Sage Foundation and Princeton University Press), looks at incentives as the tool we reach for increasingly to create



change, whether in government, in education, in health care, in private life, and between and within institutions of all sorts.

Incentives could be viewed as a form of trade, she says, and a trade is inherently ethical; it's a voluntary transaction that will occur only if both of the parties involved believe that they benefit from it. But not all incentives and disincentives are alike. Some we would recognize as bribery or blackmail. Others straddle a borderline between persuasion and coercion—a borderline that might change depending on someone's position in life. In the book, Grant notes that in North Carolina, at one time, a licensed driver of high-school age could lose that license temporarily if he or she were failing a course. On hearing of that policy, her young daughter told her, "That's a good idea." Her teenage son said, "That's blackmail!"

Grant says she's not necessarily an enemy of incentives. "There are lots of perfectly legitimate uses of incentives. But we shouldn't be complacent about them; we ought to be a little bit worried about the ways we can be misled by just embracing incentives as the quick fix for every kind of problem. We've gone overboard in thinking that this is the only way to handle our social and public issues."

One of the ethically fraught illustrations of incentives, she says, is paying children for earning good grades. (Part of the issue, she points out, is that grades don't always

correlate with learning, so the incentive may be for an easy-to-measure but still less-than-ideal outcome.) Grading-based incentives may be especially problematic when the payments come from parents and not school systems, she says. “What does it say about the relationship if the parent doesn’t have better ways to influence the child’s behavior than money? I do think it is likely to send the wrong message. If a child is underperforming in school in relation to his or her abilities, there could be a lot of different reasons why. Financial incentives suggest that the parent only cares about results and wants the child to improve, not for the child’s sake, but for the parent’s.”

Some would argue further, Grant says, that paying kids for one thing undermines the roles and responsibilities of family life: “If you pay your child to mow the lawn, they’ll start to expect payment for washing the dishes.”

It was a classroom exercise that sparked

activity at about the same time—all of them concerned with some form of social engineering. One of those places was industry, where efficiency-minded engineer Frederick Taylor was advancing scientific management as a new tool for boosting production. Scientific management involved measuring precisely the amount of time needed to complete each element of the production process, dividing tasks in a rational manner, and making sure workers understood the expectations for accomplishing their tasks. Through the right techniques, incentives among them, experts could engineer a situation to make you ideally productive.

“Incentive” also had a place in the developing field of behavioral psychology. If you ever had the incentive to plow into a psychology textbook, you’d remember the name B.F. Skinner. According to Skinner and other behavioral theorists, you’re basically a flesh-and-blood stimulus-response mechanism, entirely reactive to external

Probably nothing illustrates that more vividly than the financial meltdown of 2008, which began when the financial-services sector manufactured and sold toxic debt securities for trillions of dollars. The meltdown, of course, pushed the world’s financial system to the brink of disaster. At least as critics see it, a big part of what drove the sale of worthless assets was a misshapen incentives culture pervasive in the securities industry.

One of those critics, William D. Cohan ’81, wrote in *Bloomberg View* in February, “What is painfully clear...is that the incentive system on Wall Street that rewards bankers and traders for the revenue they generate by constantly selling whatever comes across their desks, regardless of its quality, is terribly, terribly broken.” With a nod to Skinner, he observed, “People are simple: They do what they are rewarded to do, and they will continue to do that over and over again until they are rewarded to do something else.”

MONETARY INCENTIVES—SAY, PAYING FOR GRADES—CAN CROWD OUT LESS MERCENARY MOTIVES. STUDENTS LEARN THAT THE ONLY IMPORTANT QUESTION IS, “What’s in this for me?”



Grant’s incentives investigation. She was teaching on the subject of ancient Greek political philosophy. In the opening scene of Sophocles’ *Philoctetes*, Philoctetes is holding onto Achilles’ bow; the Greeks need to release the bow from Philoctetes’ grip to defeat the Trojans. Odysseus is trying to persuade the noble young son of Achilles, Neoptolemus, to help him retrieve it deceitfully. Neoptolemus considers it, well, more noble to use force than to use deceit. Class: Please discuss.

So one of Grant’s students wondered, What about some incentive? And Grant wondered, Why not? Everyone has his price, presumably including every Greek, though, for some reason, not in Sophocles’ play.

Grant takes a big jump in the book from ancient Greece to early twentieth-century America, when the term “incentive” appeared in different spheres of

stimuli—and therefore almost infinitely malleable. Through so-called “operant conditioning,” then, you would learn to behave in certain ways in response to positive reinforcement of those behaviors.

Today, Grant writes, incentives aren’t just seen as expressions of social-engineering principles. The term “incentive” has come to be used broadly and indiscriminately, often including market forces—and often removed from ethical considerations.



Cohan, a former investment banker and the author of *Money and Power: How Goldman Sachs Came to Rule the World*, added, “Now, four years after the crisis started—and despite the Dodd-Frank law intended to reduce the risks on Wall Street—not one thing has changed in what bankers and traders are rewarded to do. Until that happens, you can forget about preventing another crisis on Wall Street.”

That verdict from Cohan received a kind of

Complex ethics: Grant says that incentives can be beneficial but shouldn’t be a quick fix for all social and public issues.

validation with the very public resignation from Goldman of one of its executives, Greg Smith. The “quick ways to become a leader,” he wrote in his instantly famous *New York Times* op-ed column, included trading “any illiquid, opaque product with a three-letter acronym” that would return a profit to Goldman. “Today, if you make enough money for the firm (and are not currently an ax murderer) you will be promoted into a position of influence.” Beyond the realm of moral outrage, it’s hard to say what incentive would drive you to make such a conspicuous gesture of repudiation. It did, though, reportedly land Smith a \$1.5 million book contract.

Around the same time, an opaque three-letter organization—the NFL—was wrestling with its own incentives-oriented controversy. The league sidelined the coach of the New Orleans Saints for a year for his role in a dramatic application of incentives, dubbed a “bounty program” by the news media. The program promised money to players if they injured opponents and knocked them out of games. It ran from 2009, the year the Saints won the Super Bowl, to 2011, and it included bounties on four quarterbacks. In one e-mail note that turned up in the investigation, a player confirmed that the Saints’ defensive coordinator had “put me down for \$5,000,” the agreed-on rate for knocking out the quarterback for the Green Bay Packers.

Grant writes that the application of incentives can be judged by whether it serves a legitimate purpose, by whether it allows a voluntary response, and by its effect on the character of the parties involved. In real life, of course, it’s not always easy to make such broad judgments. She points out that cost containment in health care is a legitimate purpose; so is delivering the best possible care to you, the patient. To the extent that a cost-containment imperative creates incentives for your doctor to under-treat you, it’s bribery and so isn’t legitimate.

There’s another layer of ethical complexity, Grant says. Does this incentive system work better than other options? Incentives for recruiting you as a subject of medical research may work no better than convincing you of the virtues of your participation. Then, is it fair? When the

large company you work for receives incentives—that is, taxpayer money—to relocate, presumably the idea is to promote economic growth. But it may be that the government is giving you an unfair business advantage. And finally, are there strings attached, perhaps to the point that someone is unduly influencing you or is getting something at your expense? If Greg Smith is to be taken as credible in his indictment of his former firm, there

were endless strings attached to promotion through the ranks of Goldman Sachs.

If there’s an even more dramatic strings-attached scenario, it’s the bailout of national economies by international institutions. As a condition for receiving bailout aid from the International Monetary Fund, Greece had to agree to cut down on rampant tax evasion—probably a good thing—and to drastically slice away at its public sector—maybe a good thing



Mobile Incentives

What’s the most precious privilege in a university setting? Parking, of course. Much of the incentives culture on campus, then, involves the banal but basic need for getting around—including earning a prized parking space or enjoying a prized alternative. Duke’s parking and transportation-services office says it is committed, “as part of Duke’s continuing efforts to create a more sustainable campus,” to reduce traffic. So it offers an array of incentives, including:

GoPass, a free pass for local and regional bus service

Bull City connector, a bus service, free for all, between downtown Durham (which has a significant number of Duke employees) and Duke’s campus

A **carpool program** that includes free and convenient parking for groups of four or more people (students and employees normally pay to park)

A **vanpool program**, involving just nominal charges, for employees

WeCar, a membership-based car-sharing program on campus

A **free bike-borrowing program** for students

And, of course, **walking**—which provides the ultimate incentives of exercise, environmental friendliness, and absolutely no transportation fees

by standard thinking, but with the consequence of a shrinking economy. And determining what counts as “voluntary” can be a vexed question. Greece seemed to have little choice in the matter of the bailout.

As Grant notes in the book, over time the loan conditions have become more invasive; they have multiplied as the purposes of the IMF have changed and expanded. What was once the limited goal of solving temporary liquidity problems has become the broader goal of fostering sustained economic growth. Such incentive programs can do good things, Grant says: When the IMF imposes loan conditions, it may be providing the incentive for a government to change the behavior that created the problem in the first place. But agreements that can be considered voluntary seem less than voluntary when

Back on the familiar home front, Grant questions the effectiveness—and the fairness—of plea bargaining. She notes in the book that less than 10 percent of felony prosecutions actually go to trial; the other 90 to 95 percent are settled by a plea of guilty by the defendant. The Supreme Court acknowledged the prevalence of plea bargaining in a March ruling: Criminal defendants have a constitutional right to effective lawyers during plea negotiations. In writing for the majority, Justice Anthony M. Kennedy noted, “Criminal justice today is for the most part a system of pleas, not a system of trials.” He added, “The right to adequate assistance of counsel cannot be defined or enforced without taking account of the central role plea bargaining takes in securing convictions and determining sentences.”

The role may be central, but that doesn’t

matters worse, punishment is distributed inequitably. If you’ve committed the same crime in similar circumstances as someone else, you’re still likely to be offered different deals. Or, because you’ve exercised your right to trial and someone else didn’t, you’ll see different outcomes.

When the legitimacy of the system is undermined, the effects ripple through the society, Grant says. “Anyone having contact with the criminal-justice system is affected. A victim of a crime that could be described as kidnapping and assault with a deadly weapon is left bitterly cynical when his assailant is caught and charged with simple robbery, which puts him back on the streets in a few months. People living in high-crime communities, which may have the greatest contact with the police and prosecutors, become distrustful and disaffected. This is not a trivial con-

DEPENDENCY RELATIONS, INCLUDING THE USE OF INCENTIVES TO RECRUIT VULNERABLE POPULATIONS, CAN LAND MEDICAL RESEARCH IN *ethically suspect territory.*



private capital is no longer forthcoming and a nation’s economy is in crisis. It also may be tough to reconcile democracy or popular participation with economic policies dictated by outsiders.

And there’s an issue of effectiveness: Reaching for incentive programs as a tool for solving complex problems often involves a failure to appreciate the limits of power. Another hard-pressed government, Ireland, agreed to tax increases in return for the incentive of some \$90 billion in international loans. But the government acknowledged that around half of Ireland’s estimated 1.6 million homeowners failed to pay a new property tax by this year’s March 31 deadline.

make it desirable. Plea bargaining—through which a defendant agrees to plead guilty in exchange for a reduced charge, a reduced sentence, or both—undermines the purposes of the criminal-justice system, Grant says. And so it undermines the legitimacy of the system.

As Grant sees it, a plea bargain always gives you, as the defendant, either more or less than you deserve. In principle, then, it is “an inappropriate means toward the end of meting out justice.” It’s hardly a meaningful expression of autonomy. “Either the defendant is guilty but gets off easy by copping a plea, or the defendant is innocent but pleads guilty to avoid the risk of greater punishment.” To make

sideration in judging the ethics of plea bargaining.”

There’s nothing trivial, in Grant’s view, about another incentives area she scrutinizes, recruiting research subjects. The issue is sometimes clouded by the choice of words used to describe the transaction. “Research participants” or “participants in a study” sound like active agents with a certain dignity, she writes in the book. “Subjects of medical experiments” are passive beings who will be acted upon by others: That language makes the ethical problem more apparent.

“Ideally, volunteers are those who would willingly join in the research enterprise and be highly motivated to con-

tribute to the progress of medicine,” she writes. But what if there are not enough volunteers? Well, if the risks are unreasonable, it would be unethical to ask anyone to take them regardless of whether they are asked to volunteer or are offered incentives, Grant says. If the research project involves reasonable risks in relation to benefits, offering incentives to recruit subjects would not raise ethical problems.

The proponents of incentives in research “are certainly correct that it is a voluntary action when a very poor person agrees to participate in research in exchange for a large sum of money,” Grant writes. “But those who characterize this sort of choice as an undue inducement also have a point.” In general, she adds, incentives always are employed to induce individuals to do what they might not do; the ethically suspect incentive is used to induce individuals to do something to which they are strongly averse. So dependency relationships, including the use of incentives to recruit poor and vulnerable populations, can land research in ethically suspect territory.

A bonus for completing an innocuous research study—perhaps filling out a simple questionnaire on several occasions—may pose no ethical problems. But if the research is painful, debilitating, or distressing for the subject—repeated biopsies, for example—a bonus can be seen as representing “undue influence,” Grant says.

Respect for persons, Grant says, is an ethical imperative and “requires refraining from making seductive offers—offers that *ought* to be resisted in some sense.” And even outside the realm of recruiting research subjects, if you hook someone—say, your child—on performing for an incentive, he’ll perform less well and lose interest sooner than a child who is not rewarded. The incentive diminishes the intrinsic motivation. In the book, Grant offers a global assortment of examples from ordinary adult life. British women offered cash to donate blood were almost 50 percent less likely to step up as donors than women who were asked and were offered nothing. Swiss citizens were significantly less likely to accept having a nuclear-waste facility as a new neighbor if the arrangement involved monetary compensation. Indian research subjects offered large bonuses to complete simple tasks performed less well than subjects given smaller bonuses.

Sometimes kids and other recalcitrant individuals might need incentives as basic motivators, says Grant: With the super-



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NOT ALL
INCENTIVES
AND
DISINCENTIVES
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SOME WE
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OR BLACKMAIL.
OTHERS
STRADDLE A
BORDERLINE
BETWEEN
**persuasion
and
coercion.**

recalcitrant, maybe there’s no other way to inspire school attendance. “But there could be all kinds of other avenues. Even within the category of incentives, giving students cash to perform is totally different from giving students scholarships, even if it’s the same financial value. If you offer students scholarships, what you’re saying is, what you get for committing to education is more education, and education is a wonderful thing. If you give them cash, you seem to be communicating the message that education in itself is valueless—that you would only do it if you could get something else of value to compensate for wasting your time.”

Incentives used to motivate your children to learn are “centrally involved with the character question,” Grant writes. And a concern with character “involves encouraging children not only to do the right things but also to do them for the right reasons.” Monetary incentives—say, paying for grades—can crowd out less mercenary motives, “producing a negative effect on character as well as on outcomes.” The behavior becomes driven by a sort of calculus of pain and pleasures. According to Grant, “In an educational setting, if monetary incentives are employed, students learn that the only question it is important to ask is, ‘What’s in this for me?’ And, not surprisingly, this leads to an increase in cheating as well.

“This is a general result of the use of incentives. Where people are paid to give blood, more of them will lie about their health status. Where teachers’ incentives are tied to students’ test performance, more teachers will change their students’ answers on the exam sheets. Where students work in an environment that values only extrinsic rewards for learning, cheating goes up.”

All of which means that if you embark on a reading encounter—say, reading a story about incentives and ethics—without the lure of incentives, that’s a good thing. It’s good for your learning, and it’s good for your character. Revel in your standing as a responsible agent. Recognize that you resisted the challenge to your freedom of action. Feel virtuous for reassuring yourself that a Starbucks coupon wouldn’t sway your habits.

That single coupon could be an easy-to-ignore incentive. What about a full week’s worth of Starbucks coupons to satisfy a latte imperative? That could make you feel like Greece—boxed-in and finding it impossible to say no, whatever strings are attached. ■

Ready 2...1...0 Launch

Four years ago, five freshmen shared their expectations of college life with *Duke Magazine* as they embarked on their college journey (“Frosh Faces,” September-October 2008). Now, as they prepare to head out to jobs and graduate school, these members of the Class of 2012 reflect on where they’ve been and what lies ahead.

BY BRIDGET BOOHER
PHOTOS BY JON GARDINER

Uniform intentions:
Former U.S. Marine
Salem aspires to be a
compassionate
physician.





Paul Salem

A MORAL IMPERATIVE TO HEAL

As the oldest member of the Class of 2012 and its only combat veteran, former U.S. Marine Paul Salem arrived on campus with a clear sense of purpose. After a tour of duty that included counterinsurgency operations as part of Operation Iraqi Freedom, Salem came to Duke determined to become a physician. In addition to a premed curriculum, he volunteered with Duke EMS, Duke Hospice, and the extended care and rehabilitation center at the Durham Veterans Affairs Medical Center. Last summer, he worked at a community clinic near his family's home in California.

Salem also took some time out of his premed schedule to explore topics that intrigued him, including a classics course and a class on the Old Testament. Through a forensic-anthropology course his sophomore year, he met paleontologist Steven Churchill, who became a mentor and adviser. The two worked together on Churchill's research into how the development of Stone Age projectile weapons contributed to human evolution. He also became engaged to classmate Mona Xiao '12, whom he began dating freshman year.

Coming out of the military, Salem had considered specializing in emergency or trauma medicine. But his experiences at Duke have broadened his perspective.

Hard work and preparation aren't enough for "living with a clear moral purpose."

"As a Marine, you're trained to take action and accomplish the mission at hand," he says. "My hope in doing the volunteer work I did in hospice and the clinic setting was that I would learn to be a more compassionate caregiver. I've had to consider that hard work and preparation, while necessary, are not sufficient for living with clear moral purpose. I hope that learning to become a physician will allow me to

combine the discipline and perseverance I learned in the military with an appreciation for the beauty of human life."

This fall, Salem begins the next leg of his journey when he matriculates at the Mayo Medical School in Rochester, Minnesota. At this point, he says, he has no idea what area of medicine he'll specialize in. "I just want to take care of human beings in the most satisfying way possible."



Phyllis Mbewe

ENGINEERING FOR ENVIRONMENTAL HEALTH

International student and University Scholar Phyllis Mbewe came to Duke with a plan to focus on infrastructure issues related to her home country of Zambia. But her research interests quickly expanded to broader issues in environmental engineering, such as groundwater remediation and improving sanitation in developing countries. Enrolled in the Pratt School of Engineering, Mbewe spent many days and nights in Hudson Hall. She conducted research as a Pratt Fellow with civil and environmental engineering associate professor Zbigniew J. Kabala and later did an independent study with professor Marc Deshusses.

In addition to the long hours spent in the lab, Mbewe pursued fieldwork opportunities that included testing the effluent quality of drinking water and wastewater during one of her summer vacations in Zambia. She also spent a summer in Kenya participating in a DukeEngage program with the Foundation for Sustainable Development, a non-governmental organization. While in Kenya, Mbewe worked on a recycling project with unemployed women and youth, helping them gain skills to create recycled products that could be sold.

“I told them that Duke is not easy, but that they can learn to stand on their own two feet.”

Although her intensive engineering curriculum allowed little free time, Mbewe was able to indulge in a few non-science pursuits. She took courses in art history, French, economics, and psychology. She sang with the a capella group Sapphire, played Ping-Pong with friends, and served as a freshman advising counselor. Her freshman writing course, “Dance Into Words,” which required students to attend performances, write reflective and critical essays, and participate in dance, introduced her to capoeira, a Brazilian hybrid of martial arts, dance, and music. Unfortunately, she says, she was never able to fit in a swimming class into her engineering schedule, so she still hasn’t learned to swim.

Mbewe also has served as a mentor to three other students who came to Duke from Pestalozzi International Village Trust, the British high school she attended. “I told them that Duke is not easy,” she says, “but that they can learn to stand on their own two feet.”

After graduation, Mbewe will attend graduate school in the U.S. to earn a master’s and Ph.D. in civil and environmental engineering. “Eventually I would like to teach and do research in Africa, but I also want to gain experience by working in industry,” she says. “Whatever happens, I still want to have an impact on improving conditions back home in Africa.”

Where she’s from, where she’s going: Mbewe says her post-Duke plans will eventually lead her back to her African roots.



Lauren Brown

SETTING A HIGHER BAR

By the time Lauren Brown came to Duke, she had achieved success in the demanding world of professional ballet, devoting her childhood and teen years to perfecting her craft and spending a year with the Pennsylvania Ballet company between high school and college. After sacrificing “a normal childhood” for a life where ballet was everything, she embraced the array of academic and extracurricular choices that Duke offered.

“Duke is a place where you can learn what you want to be.”

The New York native immersed herself in physical activities like Bikram yoga, skiing, and basketball, which had been off limits because of the risk of injury or alteration to her ballet physique. She went skydiving at sunset, tented in K-ville, taught herself guitar, and took a drawing class. She joined the debate team and pledged Kappa Kappa Gamma. She forged close friendships with faculty members, several of whom became mentors. She became chief of campus involvement for the Duke University Partnership for Service, an umbrella group for student-led service organizations dedicated to social action. And she tutored engineering and science students in the Durham public schools.

Brown took a wide range of psychology courses with an eye toward medical school. But her innate curiosity led her to take additional courses in markets and management, software and Web development, and economics. The trajectory of her coursework and summer jobs led to an avid interest in advertising and marketing. She’s been hired by Durham’s McKinney advertising agency and is excited about combining her creativity and understanding of human behavior with the data-driven science of marketing.

“I remember hearing when I was applying to colleges that Duke was a place where people were always willing to help you get to where you wanted to go, and that’s been my experience,” says Brown. “It’s a place where you can learn what you want to be rather than being pigeonholed.”

Even as Brown is poised to launch herself professionally, she continues to supplement her lifelong bucket list. Seeing the pyramids in Egypt. Mastering *Rhapsody in Blue* on the piano. And turning a mountain of handcrafted, custom-made pointe shoes into a huge piece of art, a sculptural tribute to a goal now crossed off that list.

Creative pursuits: As a professional dancer, Brown perfected grace under pressure, a skill that will serve her well in marketing and advertising.



Paul Harraka

PURSUING THE POLE POSITION

On a windy spring afternoon, professional NASCAR driver Paul Harraka grabs a quick bite before heading to the airport to catch a flight to Boston. He's presenting a talk at the MIT Sloan Sports Analytics Conference on how economic shifts in NASCAR are forcing drivers to become more entrepreneurial. In the past, he explains, talent alone could propel a great driver such as Jeff Gordon or Jimmie Johnson to the front of the pack, and sponsors would sign on to cover the related costs of racing. But increasingly, the economics of the sport require drivers to secure private financial backing to progress through the ranks. Unless a talented driver has a wealthy family or private investors, sponsors are unlikely to follow.

"I'm extremely focused on going fast."

"I'm extremely focused on going fast," he says. "It's what I love to do. At Duke, I've sought out people and opportunities that have helped me identify ways to continue climbing the ladder toward achieving my goals."

He switched his major from mechanical engineering to sociology and earned a certificate in markets and management, taking additional classes in business, engineering, finance, and sports psychology.

He built networks of people who could help him think strategically about building a brand, including law professor and senior associate dean for academic affairs Paul Haagen, visiting associate professor in markets and management George Grody '81, and senior adviser to the president and provost for innovation and entrepreneurship Kimberly Jenkins '76, Ph.D. '80.

Harraka has been winning races since he was seven years old. He's made steady progress climbing the NASCAR ladder, a progressively competitive system

that begins with amateur races and culminates with the Sprint Cup Series. (He's currently in the Camping World Truck Series, one of NASCAR's three national series.) He is raising the significant capital needed to reach the Sprint Cup by selling an equity stake in his career, with investors sharing in his potential Sprint Cup winnings. (Sprint Cup winners earn, on average, more than any other professional athlete.) He's also joining with veteran NASCAR crew chief Richie Wauters, whose previous NASCAR teams have racked up multiple wins.

While he's in Boston, he'll meet with three key seed investors, including North Bridge Venture Partners general partner Carmichael Roberts Jr. '90, Ph.D. '96. Harraka was introduced to Roberts, who serves on the Duke Alumni Association board of directors, through DAA associate vice president Sterly Wilder '83, a long-time NASCAR fan.

"Carmichael helped me identify where exactly I wanted to get to with my career, then helped me think creatively about ways to get there," Harraka says. "His hands-on approach to helping me has made all the difference."

Harraka's racing schedule took him away from campus most weekends, but he was able to carve out time to be involved with the Newman Catholic Student Center and helped Duke's SAE (Society of Automotive Engineers) Competition team design and build open-wheel racecars. Although his undergraduate trajectory was unusual, he says he doesn't feel he missed out on anything. "I packed a lot in," he says, polishing off his lunch. "I wouldn't change a thing."

Winning formula: At Duke, Harraka built his brand with the same no-holds-barred approach he brings to racing.







Taylor Clarke

SHAPING THE DIGITAL MEDIA LANDSCAPE

When Taylor Clarke first arrived on campus, she pursued her interest in becoming an on-camera broadcast journalist. She landed an internship with Duke's Office of News and Communications, filmed broadcast segments about the university, and moderated webcasts on topics such as college admissions and career planning. As a Robertson Scholar, she spent a semester at the School of Journalism and Mass Communication at the University of North Carolina at Chapel Hill producing medical segments for the school's cable channel.

Clarke admires Facebook's "move fast and break things" ethos.

Wanting to use her voice in more of an advocacy and leadership role, Clarke joined the Panhellenic Council's executive board as head of public relations for Duke's largest student group, representing more than a thousand women. She became an undergraduate research scholar for Fuqua's Coach K Center on Leadership and Ethics and helped produce the Coach K Leadership Summit. She joined the advisory board of the Duke Colloquium, a university initiative that encourages students to incorporate leadership and service into their professional lives after college.

Clarke also sought opportunities to stretch beyond her comfort zone. She enrolled in a couple of military-science courses, where she was one of the only non-ROTC students in the class. She landed an internship with Bloomberg Television's Hong Kong bureau and later headed to Italy to spend a semester studying European history. As a senior, she signed up for a graduate-level biomedical engineering class that worked to bring a spinal-cord stimulation device to market. But what stretched her the most, she says, was learning from mistakes and how to recover from them.

She used the few setbacks she faced to her advantage. Clarke wanted to bring Facebook founder Mark Zuckerberg to campus to join Robertson Scholars benefactor Julian H. Robertson Jr. in a discussion about their reasons for signing The Giving Pledge—the effort to encourage wealthy individuals to give away most of their money during their lifetimes to philanthropic causes. Dozens of e-mail messages later, her Facebook contact, impressed with Clarke's drive and determination, told her Zuckerberg couldn't possibly break away to come to Duke—but was she interested in a summer internship at the company?

Clarke spent last summer working at Facebook's Palo Alto campus in the communications division. Clarke loved the innovative, "move fast and break things" ethos of Facebook. She's decided to pursue a career in digital and social media and is heading to Facebook's New York office after graduation.

"Facebook COO Sheryl Sandberg talks about having a long-term dream and a short-term plan," says Clarke. "My short-term plan is to work at Facebook, but my long-term dream is to make Duke proud." ■

Updating her profile pic:
Clarke is heading back to New York to work for Facebook.

The Narrative of **places**
dark



By Taylor Sisk
Photography by Chris Hildreth

When bad things happen to children, many struggle to cope, and some fall into debilitating silence. A new treatment program is helping kids tell their own stories—and heal.

Cystal Collins was nine, and her dad would buy her nice clothes. Crystal's mother had given her up at birth, and her dad had raised her. He'd always seemed to take good care of her, tending toward overprotectiveness, picking her up from school and being selective about her playmates.

One day Crystal walked into her school and disclosed a secret. Some months later, in a journal entry titled "Introduction of My Life's Story," she wrote: "When I was 6 years old, I was sexually abused by my dad. Then I couldn't take it any more. He would do bad things to me.... He hurt me.... I thought I did something wrong."

Crystal (her family has requested that her real name not be used) revealed that the abuse had begun one day in her dad's car; she ran, he followed and returned her to the car, then took her to a McDonald's. Crystal said the abuse continued regularly for the next four years. There was physical evidence of sexual abuse. Her father had often choked her, she said. In kindergarten, around the time the abuse began, a social worker had described Crystal as being like a "caged animal," fidgety and distracted.

Savannah Akin never spoke of anything amiss at her daycare center, but she'd been having nightmares and was often irritable. Savannah had attended the center, run by a husband and wife, relatives of a neighbor, for three years, since she was fifteen months old. Several months after Savannah left to start attending preschool at her church, her mom, Ashley, received a call from a detective. The center had been shut down, he told her, because of allegations of sexual abuse.

Bit by bit, Savannah began to speak of abuse. "We just tried to be supportive of her, but not ask a lot of questions, just wait for her to talk with us when she was ready," says her mom.

After six months of therapy, Fiona Gardner seemed to be coping reasonably well with the death of her brother. But in time, it was discovered that she was struggling with the truth about that tragedy, a truth yet unrevealed—much too much for a four-year-old to process.

Safe at home: Fiona Gardner struggled with the death of her older brother.



Moments of joy: Therapy has helped Savannah Akin begin to let go of her anger and confusion.

Kids are generally pretty resilient; their bones heal more quickly than those of an adult, and slights are more readily forgotten. But few have all the tools to effectively respond to deeply traumatic experiences. As a result, such experiences in childhood often lead to prolonged, and debilitating, mental-health issues. Research conducted by the Centers for Disease Control and Prevention has shown that adults reporting one or more adverse childhood experiences are considerably more susceptible to health and social problems, including alcoholism, domestic violence, depression, and pulmonary disease.

“Most kid mental-health problems are a function of their environment, something bad they’ve experienced or something bad they were exposed to,” says Dana Hagele, codirector, with Duke professor Lisa Amaya-Jackson, of the North Carolina Child Treatment Program, which is working to help children overcome trauma. Many children have trauma in their lives, and most will get past it quickly. But some experience trauma at a level that’s considered traumatic stress, overwhelming their ability to cope, says Hagele, a child-abuse pediatrician and assistant professor of social

medicine and pediatrics at the University of North Carolina at Chapel Hill.

“Technically, it has a mental-health diagnosis—like post-traumatic stress disorder, adjustment disorder, separation-anxiety disorder—it technically has a definition that we work with,” Hagele says. “But really what we’re doing is treating symptoms, whether they’re behavioral or emotional,” to help them feel better and cope more effectively.

Hagele and Amaya-Jackson are leading a novel child-trauma treatment program now being taught to community health-service providers across North Carolina. The North Carolina Child Treatment Program—a partnership among the National Center for Child Traumatic Stress, the UNC School of Medicine, and the Center for Child and Family Health, which is a collaboration of Duke, North Carolina Central University, UNC, and Child and Parent Support Services—employs an approach called trauma-focused cognitive behavioral therapy, or TF-CBT. The therapy is an evidence-based treatment that addresses behav-

ioral and emotional difficulties in children following serious trauma or loss.

Kids in TF-CBT are taught deep-breathing and guided-imagery exercises, and they learn about healthy sexuality and when and how to ask for help. The treatment makes frequent use of stories, drawings, exercises, and games to help therapists interact with children in crisis. During one session with Savannah Akin, for example, Morganton, North Carolina, therapist Melinda Clontz gave the six-year-old a dream catcher—a webbed hoop adorned with feathers—and asked her if she had a specific nightmare.

Savannah did; it involved a wolf and a dog (there were dogs at her daycare center) coming to hurt her mother. Clontz worked with her to rewrite the dream, with words and drawings.

Savannah shows her dream catcher and describes how it works: “At night, if you have bad dreams, [the dream catcher] hangs up above your wall. And then [the dream] comes out of your head, and then it comes in here, and then it catches it so it won’t go back in your head.”

Every night, Savannah’s dad,

“It was little bits and pieces every time, just chipping away, chipping away.”

Scott, would read to Savannah the dream she had rewritten—in which the dog and wolf now dress in a cat suit and a clown suit, and a truck with a sign that reads “Happy birthday wofe dog!!” carries the wolf away—and now it no longer troubles her sleep.

Savannah hasn’t yet completed her sessions with Clontz, but, incrementally, she’s made great strides in addressing her fears.

More than 600 children in North Carolina have now completed the program, and the results are striking. At the beginning and conclusion of the sessions, kids

effective by multiple research studies and through clinical evidence. TF-CBT was given the highest level of empirical support in the U.S. Department of Justice’s Child Physical and Sexual Abuse: Guidelines for Treatment report.

It’s a short-term course of treatment and as such is relatively inexpensive. The current Medicaid rate is less than \$2,000 per child for completion. “We can train people to do it systematically and then expect them to do it systematically,” Hagele says.

The core of the treatment is the devel-

In the case of Fiona Gardner, that key was unlocking a deeply held secret. When Fiona was four, she witnessed her brother, Malachi, five, drown in their grandmother’s backyard swimming pool.

At first, Fiona experienced grief and some guilt about having argued with Malachi shortly before he died, but no major behavioral problems. She met with Jean Huryn, a psychologist in New Bern, North Carolina, for six months, and then stopped, seemingly doing well. But when her father went away for four months of military training, she began to have intense outbursts, sometimes in public, and couldn’t be calmed.

In Fiona’s sessions with Huryn, she had drawn a series of frames of the events of the day Malachi died—a long scroll, unfurling her memories. In it, she depicted her brother as a leaf. As she continued to describe the moments illustrated in her scroll, it emerged that Fiona was struggling with a more profound guilt—that maybe she’d done something wrong that had led to her brother’s death.

“That hadn’t even crossed our minds,” Huryn says. The account that had been given was that Malachi had wandered out to the pool, unnoticed, on his own. As Fiona continued to open up, her mother, Deb, detected significant discrepancies between what Fiona was saying and the original account. In fact, Fiona’s grandmother had left the children alone in the

pool. Fiona had warned her brother not to go into the deep end, but had been helpless to do more.

“In the process of telling the story, you’re asking them to describe the emotions,” Huryn says, and to let all the secrets out. With Fiona, there still was that secret. “I think what she was doing was knowing that Grandma doesn’t want Mom to know, so I can’t let Mom know.” Confusion was stacked upon guilt; in time, it tumbled. Her parents then resumed her sessions with Huryn.

Now seven and in first grade, Fiona remembers snippets of her visits with Huryn—blowing soap bubbles, the bigger the better, because it means you’re breathing slowly; throwing a big squishy ball back and forth; breathing deeply while thinking of floating on clouds above. She remem-



Steady progress: Scott Akin says his daughter shared her anxieties in bits and pieces.

are given standardized tests that address their behavioral and emotional functioning. Ninety percent of the children in the program start out showing partial or full post-traumatic stress disorder, says Hagele. “What the research shows is that more than 80 percent of the kids will be fine after the treatment, and our program is higher than 90 percent,” she says. “Ninety percent of the kids will drop below the threshold where we consider them to not have a problem anymore.”

The therapy has been tested and shown to work for ages three to nineteen. Clients have included children who have experienced sexual abuse, medical trauma, domestic violence, and traumatic grief, including some who have witnessed horrible deaths. To be considered evidence-based, a treatment must be proven

opment of a “trauma narrative,” through words or drawings or both, which children present at the end of the sessions to their parents or guardians. “Interestingly, when you talk to a kid who has been sexually abused or is telling someone for the first time, our assumption would be that [the abuse] is the worst thing in their lives, or the thing that’s giving them their symptoms,” Hagele says.

“What I’ve learned about trauma,” she says, “is that you can’t make assumptions and rank somebody else’s experience.” The proximate issue “might be the ongoing domestic violence in that house, or it might be that the only resource in that crazy environment was a grandmother who just died.” Finding the key to the gateway is the therapist’s task; the narrative then turns the key.



Fiona had drawn a series of frames of the events of the day Malachi died—a long scroll, unfurling her memories.

with their child on the same exercises that she conducts in her office. Clontz has seen parents grow through the experience. Give the parent some direction, she says, “and the child will follow.”

Huryn agrees. At the end of a session she explains to the parent, “This is what we did; this is the coping mechanism you need to learn.” Confidentiality, though, is also critical. “Until we get to the final session, they may not have talked with their parent about what they’re telling me.” She thus must first get permission from the child to talk with the parents about what’s been discussed.

“A lot of parents come to us feeling like failures, like they missed the signs or somehow are responsible for their child’s trauma or suffering,” says Ashley Fiore of Morganton. Fiore received funding from The Duke Endowment to develop the Southmountain Center of Excellence in Evidence-Based Treatment in Morganton, and she has helped spread TF-CBT to five counties in western North Carolina. It’s important, Fiore says, to give parents the skills to help their child heal, to be a catalyst in their child’s return to a healthy life. “I love the parallel process that happens between the therapist and the caregiver,” she says. “We’re using the same skills with the parent that we want them to use with their children, and this is what changes behavior.”

“We’re making parents and children experts on trauma,” she continues, “which means giving parents and children the courage to face the trauma—to remember the experience but be freed from the emotional pain associated with it so they can label what happened to them as unacceptable and move on with their lives.”

Ashley and Scott Akin wondered if they should have known that something

bers that it was fun, that she played. “It has to be fun for the child,” Huryn says. “Otherwise, you’re making trauma on trauma.”

The active participation of a parent or guardian in TF-CBT treatment is also essential. “If the child does treatment alone,

they may reduce their trauma symptoms, but it will likely not have as much of a reduction in depressive symptoms and their sense of the shame,” says Clontz, who’s led five children through completion of the program. She encourages parents to work

Guiding the Guides

In a conference room in Asheville, two Duke physicians lead a group of fifty or so social workers and psychologists in a frank discussion of how parents respond to their children’s trauma. They take turns role-playing, responding to anxious comments

training in TF-CBT, a new model of therapy for children who suffer traumatic experiences. Duke is helping spread the clinical use of TF-CBT through the North Carolina Child Treatment Program.

To participate in the training, clinicians must complete an online course, and their

agencies must demonstrate an organizational commitment to put the treatment into practice. The lessons cover more than just effective therapy; they include sessions on overcoming organizational obstacles—such as legal issues,

Medicaid billing, and language barriers—that can make or break the program.

“We need to train them on both clinical content and on the implementational side,” says Duke professor Lisa

Amaya-Jackson, codirector of the program. The whole process takes eight months, including follow-up phone consultations and check-in meetings with senior leaders.

Amaya-Jackson says the success of the program, launched in 2006, has far exceeded expectations. She was told by health-care providers that it would be hard to get buy-in from local agencies, but, “we’re not finding any resistance. In fact, we’re turning [clinicians] away” for lack of sufficient resources to train them.

Amaya-Jackson says the first round of training—focused on a twenty-eight-county region in northeastern North Carolina, the poorest area of the state—had a 200-person waiting list. The program has now trained more than 300 clinicians. Primary funding has come from The Duke Endowment, the Kate B. Reynolds Charitable Trust, and the state.

—Taylor Sisk



Catharsis: Social worker Jean Huryn working with Fiona Gardner

such as, “My child’s innocence has been lost,” and, “How could I have let this happen?”

The group is the first cohort of clinicians in western North Carolina to go through



Family unity: Fiona with her parents and younger brother, Jobin



Dearly departed: Fiona in her bedroom with a photo of her brother, Malachi, on the ledge above

was wrong in Savannah's life. "She had a lot of anger issues and a lot of insecurities and fear," Ashley says. Savannah had trouble sleeping, often waking with nightmares. She was afraid to walk alone down the hall to the bathroom. Being first-time parents, "we didn't know if that just might be a stage."

"When she started talking," Ashley says, "it seemed she was glad to get it out."

"It was little bits and pieces every time," Scott says, "just chipping away, chipping away."

"It's definitely working for her, for whatever reason," he says of Savannah's sessions with Clontz. "Her demeanor, her behavior, her fears, her anger—everything is just significantly better."

Savannah still has some trouble sleeping, still has days in which she's scared and upset; just a couple of weeks ago she was going through a "weird stage," her mother says. But her breathing exercises have helped. She's now in kindergarten. And the Akins now have a dog, Savannah having overcome what was once a deep fear of them.

This past Christmas, Fiona Gardner was

both a gray mouse and a white rabbit in the *Nutcracker*. A year or so after Malachi drowned, she asked to take swimming lessons. She was afraid that if she couldn't swim, she too would drown, and her mom and dad would be left with no kids. "That was her protection of us," Deb Gardner says. She now has a younger brother, Jobin.

Fourteen ("and a half," she adds) now, and in the eighth grade, Crystal Collins dreams of attending Johnson & Wales University in Charlotte and becoming a chef. She's living with her great aunt, who's been her rock, committed to Crystal's treatment. She's playing clarinet in the school band.

For a while, after she'd been removed from her father's house, Crystal imagined that the mom she'd never met would soon come for her. Huryn explained to her that families come in a number of forms, and that in many ways she's a lucky young woman. Her life is defined by many things; each day she rewrites her story.

"Terrible things can happen to kids, and it doesn't have to be who they are, or it can give them strengths," Dana Hagele says. "What we call that in our model is 'normalizing' these experiences. It doesn't mean it was good to be sexually abused.

But lots of people are sexually abused, and it's not shameful any more than asthma or a car crash or anything else is. It's just, 'I was sexually abused.' That's how we approach it." A trauma narrative is an encapsulation of a child's experience, "and it's just a good way to learn.... A trauma narrative can get to the heart of it."

In her narrative, Crystal wrote about the decision to speak up: "So I told a counselor—I was tired of it! Then the counselor took me to his office. I forgot what he said, and he called Social Services. I was feeling happy because my father would no longer rape me."

"I didn't know if it was wrong, and I didn't know if he did," she says today of her confusion then. "I thought, 'What did I do?' I thought it was my fault. I was nervous." She's now learned: "You can't be afraid to tell."

"I'm writing a book now, like Maya Angelou," Crystal says. "I read *I Know Why the Caged Bird Sings*. That inspired me."

Her journal entry closes: "I was happy that I told. I was relieved. And you, too, can tell other people." ■

Sisk is a North Carolina-based writer and editor.

Making the

In the late 1980s, **Alisa Lepselter '85** was just another New Yorker in love with Woody Allen's films. She never imagined she would one day work alongside the famed director. Fourteen films later, she can't imagine doing anything else.

By Bridget Booher

Photography by Frank Fournier

In a low-lit mixing room in New York's Sound One studios, Alisa Lepselter and two audio engineers are tinkering with the sound levels of a scene from Woody Allen's new film, *To Rome With Love*. Set in a bustling café, the scene includes the clatter of dishes and silverware, scraping chairs as diners are seated, and the steady hum of multilingual conversations. Over the course of the next half hour, the three of them will watch the same stretch of film—about forty-five seconds long—as they tweak the levels of background noise and amplify or moderate the actors' lines of dialogue.

It's January, five months before *To Rome With Love* opens in the U.S. Lepselter and Allen have finished editing the film, tightening a two-and-a-half-hour rough cut to a final length of just under two hours. Now, she's moved on to additional postproduction work, including sound editing and mixing, color correcting, video mastering, and overseeing foreign translations.

"I have responsibilities a lot of editors don't have because Woody doesn't work within a traditional studio system," says Lepselter, as the engineers rewind the scene again. "We have a very small crew, so there's very little turnover; we're like a mini studio."

Ever since she was a girl growing up in New Jersey, Lepselter has loved movies. She and her mother used to trek into the city to see a Cary Grant double feature at the now-defunct Regency on the Upper West Side, or *Gone With the Wind* at Radio City Music Hall. Years later, after she'd graduated from Duke and was

That's a wrap: Lepselter at New York's Sound One studios



trying to figure out what to do with her life, movies provided a welcome diversion. She especially loved queuing up with other New Yorkers to take in the latest Woody Allen movie.

“It was a cultural event,” she recalls. “You would wait in a line that stretched around the block.”

Yet even as she bought tickets to *Hannah and Her Sisters* and *Radio Days* in the late 1980s and early '90s, Lepselter had no inkling that her lifelong leisure pursuit could become a vocation. And she certainly couldn't have guessed that she would one day become Allen's trusted film editor, working side-by-side with him on fourteen films and counting.

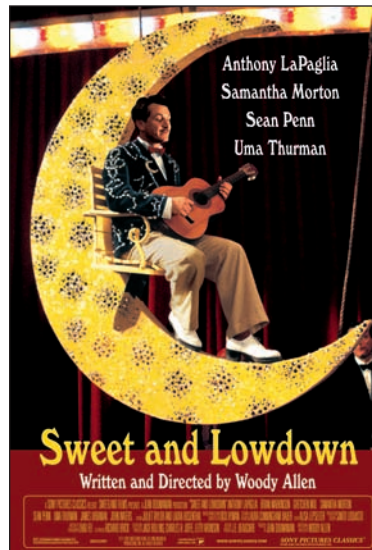
Her aunt steered her to Sound One. Located in the historic Brill Building on Broadway, Sound One has been a hub of postproduction film activity for decades.

“I brought my résumé and just started knocking on doors,” she says. “It was teeming with activity, and people were often looking for an extra set of hands. This was before digital editing, when you had to have people managing all that celluloid. You had room after room of people filing film trims.”

One of the doors she knocked on was answered by editor Craig McKay, who was working with director Jonathan Demme on *Something Wild*. McKay offered her an unpaid internship as an

Lepselter's top 5

Sweet and Lowdown: Lepselter's first film with Allen. “I was given the script to read, and I couldn't believe how much I loved it. I had been reading scripts for many years, but I had never read a Woody Allen script, and I just thought it was so brilliant and well-crafted and funny. I could immediately envision the period piece that it was going to be and how beautiful it was going to look.”



Cassandra's Dream: “People expect Woody to make movies about the upper crust, and this was a side of London that I didn't expect to see from his point of view. The drama and acting were wonderful, and I was disappointed that it wasn't better received.”



After completing a major in art history at Duke, Lepselter moved back home and lived with her parents while saving up enough money to live in New York. She landed jobs as a photo researcher at the Bettmann Archive and as an auction-house assistant at Sotheby's but longed for meaningful, soul-sustaining work. “Film had never seemed academic enough to me when I was a student,” she says. “Duke didn't have a film department back then, and I didn't know anyone who went on to film school. But as I was trying to figure out what it was that I loved, I started to think more seriously about film as a career.”

Her aunt, who had worked as an accountant for a film production company, encouraged Lepselter to consider editing. Coincidentally, her then-boyfriend (now husband), Charles Roos '85, bought her a copy of *The Film Editing Room Handbook*. “I didn't know that I wanted to be a film editor,” she says. “I just knew that I wanted to learn about the production end of things.”

apprentice film editor. The workload was intense, but the perks were priceless. “I was so eager and had no pretensions,” she recalls. “I hadn't gone to film school, and I didn't see myself as someone who should walk in the door and be given a job. I was happy to learn. People are so grateful for that attitude. I did whatever was asked of me, and nothing was beneath me. And because I had a good attitude about the grunt work I was asked to do, I was also welcomed into the cutting room to listen to the director and editor talk about the film. The actual work I was doing was very low-level. But that's where I learned about editing.”

After the film wrapped, Lepselter was offered other similar apprenticeships, and Sound One soon became a second home. “I fell in love with editing,” she says. “When I realized it was something I could pursue, I became very devoted to it. And I learned a lot about how to work with directors by watching all these different personalities. Some editors could explain themselves in a way that ultimately got them what they wanted. They were diplomatic. And some people weren't cut out to be editors because they were too

confrontational. You have to have the kind of personality that can work with the director to achieve the director's vision; you can't be fighting for your own vision. And that's something I'm okay with because I thought editing itself was so much fun."

Lepselter also brought her liberal-arts education to bear on her work. Her intellectual curiosity, attention to detail, and ability to collaborate with a range of artistic temperaments eventually brought her to the attention of veteran editor Thelma Schoonmaker, who has worked with Martin Scorsese for more than forty years. Schoonmaker was looking for an assistant editor to work with her on Scorsese's adaptation of *The Age of Innocence*, and

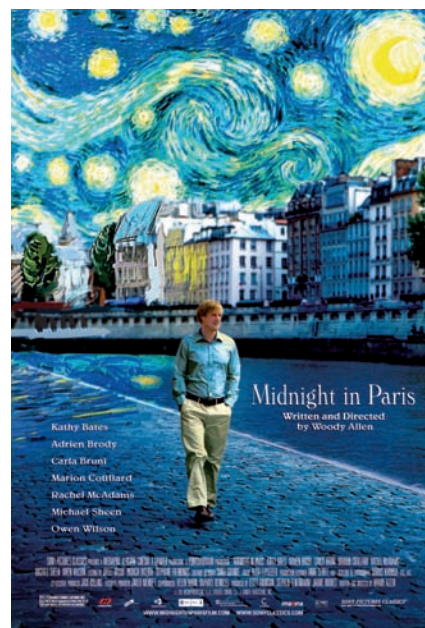
"Working on big-budget movies is all-consuming for the year that you're working on it," she says. "You don't have any time for yourself. You're working long, long hours, and you're expected to be on call that entire time. You can't even make plans for Saturday night, let alone a vacation. People used to ask me what I would do when I had children, and I always told them I would figure that out when the time came."

As it turned out, Lepselter loved being a stay-at-home mom. When her son was nine months old, she was at a new-mothers' support group when her phone rang. It was her agent, telling her that Woody Allen was looking for a new film editor and that Lep-



Match Point: "Creating the tension that built throughout that movie was very satisfying from an editorial point of view. And the opera music that we chose"—arias by Italian tenor Enrico Caruso and the climactic scene featuring Giuseppe Verdi's *Otello*—"added to the dramatic tension."

Vicky Cristina Barcelona: "So many things came together in the editing process that I hadn't been able to anticipate just reading the script. The city of Barcelona became such a central character. And the energy among the actors was so palpable onscreen; it wasn't something that was immediate to me on the written page."



Midnight in Paris: "I loved *Midnight in Paris*. The scenes with Hemingway to me were priceless. I would laugh during dailies to the point where I had to take a break."

several people recommended Lepselter. When Schoonmaker called, Lepselter proposed that they meet, assuming that Schoonmaker was vetting a number of potential assistants. Instead, Schoonmaker asked when she could start.

"Thelma is a brilliant editor, and when I worked for her and Marty, it was better than going to film school," Lepselter says. Throughout the editing process, Scorsese periodically invited the crew to screenings of movies that he liked—screenings that occasionally included an appearance and talk by a fellow director, such as Elia Kazan. "Working on *The Age of Innocence* was my film school."

In 1996, Lepselter landed her first job as a lead editor when she was hired by director Nicole Holofcener to edit *Walking and Talking*. She hired an agent. By then, she and Roos had married. In 1997, they had their first child, and Lepselter wasn't sure how she was going to balance parenthood with the grueling life of film editing. She took some time off to consider her next move in the film industry.

Lepselter's name had been suggested.

"I laughed because I'd only done one film as an editor and I didn't think I could seriously be in the running," she recalls. "But I thought, gosh, wouldn't it be exciting to meet Woody Allen?"

In the recent PBS *American Masters* series documentary about Allen, his casting agent, Juliet Taylor, talks about the audition process for actors being considered for a part. Meetings between Allen and actors are usually quite brief—a few minutes of small talk at most. Lepselter arrived at Allen's offices expecting to be quickly ushered in and out of a sleek, sophisticated setting befitting one of film's most esteemed directors.

Instead, she walked into the office/editing room that Allen has maintained (but not modernized) for more than thirty years. They sat on a comfortably worn couch and ended up talking for about ten minutes, mostly about the technical aspect of editing. Lepselter had made the transition from celluloid to digital, but



“Everyone thinks that they know Woody, and he’s constantly getting requests from people who want something from him. I get that people are curious about him, but I don’t want to be a conduit for that. **I’m very protective of him in a way that comes before my ego.**”



Allen hadn’t. “I’d been told that he would never switch, so I didn’t push it too hard,” she recalls. “I told him that it was just a tool, but a great tool, and he would probably like it.”

Lepselter knew that the encounter was designed to gauge Allen’s comfort level with her. “That’s how he hires people. Is it someone he feels a good vibe about? Is it someone he’d want to sit next to while editing his films, someone he’d be comfortable being with in close quarters?”

Lepselter thought nothing more about it. A few weeks later, her agent called to tell her that Allen wanted to hire her. “I had such limited experience as an editor that it came as a surprise. There were people who seemed much more qualified than me, but that’s not what he was going by. He was going by personality. He liked me, and that was it.”

Through his assistant, Allen says that he chose Lepselter because “she was head-and-shoulders above the other editors I interviewed. She showed real intelligence and a great understanding and appreciation of film, and that was important to me.”

Upon hearing the news that she was offered the job, Lepselter felt strong, conflicting emotions—exhilaration about the opportunity to work with a director she had revered her whole life, but also apprehension about what it meant for her family. But the moment passed quickly. “How could I say no to Woody Allen?” she says.

As it turned out, Allen’s prolific output meant that Lepselter would enjoy a more predictable and efficient schedule than she had on big-budget projects. “Since he makes a film a year, Woody doesn’t have his whole career resting on a particular film. There are other directors who have so much riding on the movie they’re working on

that they never want to go home, whereas Woody will look at his watch at 6 o'clock and say, 'That's enough for today.'

That sense of easy familiarity took time, though. Lepselter was "incredibly nervous, for years. It took me awhile to become comfortable with him not only because of the respect I have for him as one of our most creative filmmakers, but also because he is very businesslike in the editing room."

The pair's first collaboration together was *Sweet and Lowdown* in 1999, followed by *Small Time Crooks*. "No one knew what was going to happen after the first one, but after *Small Time Crooks*, it was just assumed I wasn't going anywhere," she says. "It was never a conversation we had."

A pivotal moment in their relationship happened during the editing of *Curse of the Jade Scorpion*, their third film together. "Woody wasn't happy with some of what he was seeing in the dailies," she recalls. "He took me aside and asked me my opinion in a way that revealed his reliance on me. That one conversation did a lot for my confidence."

There is a predictable rhythm to their work. Lepselter usually receives a new script in the early months of a new year. Casting and shooting take place over the spring and summer, and editing and postproduction transpire in the fall and into winter. Dailies are sent to Lepselter after each day of shooting. She begins to envision how the film will look and makes some preliminary notes about the tone and pacing of the movie. A comedy will have a different rhythm than a drama. But the editing itself doesn't begin until shooting is wrapped.

Unlike many directors, Allen likes to edit in sequence, from the first scene of the movie through the closing credits. The first rough assembly takes about three weeks—"at that point it is very raw," she says—and then they begin the more laborious process of deciding what scenes and takes should stay and which should go. They also begin considering what music the narrative suggests. During the time she has worked with him, Allen has only commissioned original music for one film; the others have all featured soundtracks that are careful compilations of songs that Allen and Lepselter select together.

"Woody is an accomplished musician and has particular ideas about the soundtrack of his films," she says. "He has such a huge selection of jazz music that we used to just see what he had in his collection. But not every movie wants a jazz score." With the availability of digital music, and Allen's venture into international settings for his films, the musical landscape has expanded. One scene in *To Rome With Love*, for example, sent Lepselter in search of Italian pop songs from the 1970s.

Fourteen years after she was hired, Lepselter is a trusted member of Allen's inner circle, and the two of them have developed a deep level of mutual respect. As part of that circle, Lepselter says she feels a strong obligation to honor Allen's need for privacy. When pressed for details about a specific conversation or collaborative moment, Lepselter makes it clear that she is not comfortable talking about her boss. "Everyone thinks that they know Woody, and he's constantly getting requests from people who want something from him. I get that people are curious about him, but I don't want to be a conduit for that. I'm very protective of him in a way that comes before my ego."

She will say that despite the strictly business nature of their relationship—they've never socialized outside of work, for example—their sensibilities are well-matched. "When we were working together on *To Rome With Love*, there was a scene that had me doubled over with laughter. I had to stop and catch my breath. Woody just waited for me to pull myself together and

said he hoped other people would have a similar reaction to the movie. He does occasionally make a sublimely funny remark, and I get the feeling that he can't help but be funny even when he is not at all trying to be."

She concedes that they don't always agree about the way a particular scene should be cut, and she will push him to a certain degree, "but I can sense when enough is enough. And he's eager to have that back-and-forth. He sometimes has less patience than I do with the actual editing process, which I probably find more enjoyable than he does."

Allen says he appreciates that Lepselter understands what he's after, citing her keen sensitivity to the material. "She has worked closely with me for years, wherein we've tackled many difficult problems that a lesser editor would have been lost trying to cope with. She is everything I could have wanted in an editor to work on my films."

Allen has been nominated eighteen times for an Academy Award and has won three, most recently a screenwriting Oscar for *Midnight in Paris*. Lepselter has been nominated by the American Cinema Editors Guild for her editing work on *Vicky Cristina Barcelona* and *Midnight in Paris*, and while she is flattered by the recognition from her peers, she says that, like her boss, awards don't motivate her.

Lepselter says she has no immediate plans to look for work with other directors. "Woody might be the least neurotic person I have worked with in this business," she says. "Maybe that

tells you something about this business. He is low maintenance and approachable, the opposite of a diva."

Should Allen decide to stop making movies, she says she could imagine working with up-and-coming writer-directors, as she did with Holofcener on *Walking and Talking*. She also keeps an eye on new talent such as Lena Dunham, who gained critical acclaim for her quirky, independent film, *Tiny Furniture*, and whose new show, *Girls*, airs on HBO. Lepselter says she could also envision segueing in to the production side of films.

Regardless of how long her partnership with Allen lasts, Lepselter says she can't imagine a more ideal professional situation than the one she's in. She has summers free to spend with her family. Each year brings a new project that she helps shepherd from start to finish. And she's become an invaluable colleague to an artist who is both wildly creative and reassuringly even-keeled.

"I know it might look like I have a charmed life right now," she says, "but I worked hard for so many years, and it worked out for me in the end. I saw a lot of people who weren't cut out for it. I remember learning at a certain point that I didn't have a reputation for being very nice, and I was shocked. I realized that as I was walking around the halls of this building, I had an intense look on my face because I was always very hard-working, and I wasn't stopping to chat at the water coolers. And the editors that I worked for appreciated that."

"So it may have seemed lucky that I got the job with Woody, but I had a lot of years before that where I pounded the pavement. I always stress that to young people—the right attitude will get you far." ■

Allen says
Lepselter
"is everything
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Sports

London Isn't Calling

Becca Ward is having too much fun to regret passing up the Olympics. | By Michael Penn

Deep in the digital detritus of Becca Ward's computer are some peculiar mementos of her days as a teenage fencing phenom. Sometime around age thirteen, when she began traveling the globe to compete in international matches, she started taking pictures of pigeons. It began as a joke—because how is a pigeon in Poland any different from one in Portland, really?—but the birds soon became a metaphor for her itinerant life.

"You would fly into somewhere, go to a competition venue, fence for two days, and then fly home," says Ward, whose other souvenirs include a gold medal from the 2006 World Fencing Championships and two bronze medals from the 2008 Olympics in Beijing. "It's not really that exotic. It's just pigeons."

Now twenty-two and about to graduate with a major in public policy, Ward doesn't think much about jet-setting. Although she would be a favorite to win a medal at this summer's Olympic Games in London, she decided not to try out for the U.S. team, preferring to enjoy the sunset of her Duke career. Training with the national team would have required her to miss much, if not all, of her final year at Duke, she says. "And I just couldn't imagine leaving my friends, my class...leaving everything behind to chase a life I've already had."

The life she chose instead has had no shortage of athletic glory. In her four years wielding a saber for the Duke fencing team, Ward won NCAA championships in 2009, 2011, and 2012, becoming the first Duke student-athlete ever to win three in-

dividual national titles. In a sport often referred to as "physical chess," she dominated with a rare combination of lightning reflexes and mental agility. It didn't hurt that she has the fiery heart of a born competitor, one who often let loose a spontaneous shout of joy after winning a key point.

But it's the quieter moments that underscore Ward's devotion to Duke. She has served on the First-Year Advisory Council and the Undergraduate Conduct Board and writes for *Rival*, a magazine produced jointly by Duke and the University of North Carolina at Chapel Hill. In March, she did her first stint tenting in K-ville. Still on her "Duke bucket list" are a trip to the Duke Lemur Center and tea at the Washington Duke Inn. "Duke is an amazing place, and

"Honestly, I didn't want to be a fencer, to just be a fencer. I came to Duke to not be defined by it."

there are so many things I want to be involved in. I just wanted to make the most of my time here and not sit idly," she says.

In that respect, Ward got what she hoped for when she chose Duke: "a real college experience." As a teenager, she trained with the elite Oregon Fencing Alliance in Portland, completing high school through correspondence courses. By sixteen, she was the top-ranked women's saber fencer in the world, but she says she often felt isolated and confined.

"Honestly, I didn't want to be a fencer, to just be a fencer," she says. "I came to Duke to not be defined by it."

That was not so easy at first. Ward arrived for Duke freshman orientation less than a week after winning the second of her medals at the Beijing Olympics. Bob Costas had interviewed her in prime time after the U.S. swept the saber fencing medals, and in Durham, she found it difficult to escape her fame. How many freshmen have a sign posted over the door of the Wilson Recreation Center, welcoming them to campus? When President Richard H. Brodhead mentioned her by name in his opening convocation speech, "I don't think my face has ever been redder," Ward says. Though she always introduced herself to classmates as "Becca from Portland," something inevitably would spark recognition and out her as "the fencer girl."

Ward would smile and answer patiently her classmates' questions about the Olympics: Was it amazing? Was it glamorous? But the truth was her Olympic experience was neither amazing nor glamorous. She wasn't permitted to participate in opening ceremonies because she was scheduled to compete the next day. There were tensions with her coach, who had wanted her to attend a college near Portland so she could continue to train there. "It was just a very taxing



DUKETICKER

SWIMMING: At the 2012 NCAA Men's Swimming and Diving Championships, senior **Ben Tuben**, left, earned first team All-America honors in the 100-meter butterfly, placing eighth in the event. Graduate student **Piotr Saffronczyk** collected honorable mention All-America honors in the 100-meter breaststroke with a fifteenth-place finish.

TRACK AND FIELD: Junior **Curtis Beach** won the men's heptathlon at the 2012 NCAA Indoor Track and Field Championships, breaking his own world record for 1,000 meters in the event with a time of 2:23:63. He finished the event with 6,138 total points, which is the third-highest total in collegiate heptathlons. He was named National Field Athlete of the Year for the indoor season.

WOMEN'S GOLF: At the ACC Championships, junior **Lindy Duncan** shot a three-under-par 210 to win the individual championship by six strokes, making her the eleventh Duke golfer to win an ACC individual title. Duncan's score helped the Blue Devils win their first ACC team championship since 2008 and marked her fourth tournament title of the season.



Ward: After three NCAA titles, she's ready to move on.

experience," she says.

At Duke, Ward has turned that international experience into an asset for her teammates. "Becca is a wonderful leader," fencing coach Alex B eguinet says. "She has learned that a good leader won't ask others to do something she wouldn't do." This past season, with Ward as team captain, the women's squad won a team-record twenty-two matches and placed eleventh at the NCAA championships.

But Ward's senior year also brought tantalizing reminders of her international fame. In January, competing in her first U.S. national event since 2010, she sliced through a field of the country's best fencers—including Olympic contender Ibtihaj Muhammad '07—erasing any doubts that she is still among the world's elite.

So who walks away from that, from knowing you can be the best in the world? From a chance for Olympic gold?

Someone who knows the cost of gold.

"Objectively, I know I will never be as good at something as I am at fencing," she says. "But I can do other good things. I can have other accomplishments, and I can be happy knowing I had that experience. I had that life, and I chose to do something better. I'll just direct that competitive spirit elsewhere."

She hopes elsewhere will be an environmental policy job in Washington, ideally with a small fencing club nearby. But don't expect to see her jetting off to tournaments anytime soon. There may be lots of pigeons in London, but Becca Ward doesn't need them anymore. She found her place to roost.

Jon Gordinier



THE SCORE

352

Career-victory total of women's tennis coach **Jamie Ashworth** after his team won a match over eighth-ranked Virginia in March. The win gave Ashworth, in his sixteenth year leading the program, the most career victories ever by an ACC women's tennis coach.



WRESTLING: Freshman **Tanner Hough** overcame the odds to earn a place at the NCAA Championships. Seeded fifth in the 141-pound division at the ACC Championships, Hough wrestled his way to a third-place finish, earning an invitation to the national meet. Hough is only the second freshman at Duke to advance to the NCAA Championships.

WOMEN'S BASKETBALL: Freshman center **Elizabeth Williams**, who led the Blue Devils in points, rebounds, and blocked shots during the team's run to the Elite Eight, was named the U.S. Basketball Writers Association's National Freshman of the Year. The USBWA also elected sophomore point guard **Chelsea Gray** to its ten-member All-America team.

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Muse

FILM

Garbage Can-Can

When choreographer Allison Orr approached a group of Austin, Texas, trash collectors about creating a dance performance, she was met with silence and skepticism. A year later, on an abandoned airport runway, two dozen workers and a fleet of trucks—accompanied by a live music combo—presented a spectacle of sound and movement for an audience of more than 2,000 people.

Director Andrew Garrison chronicled the unlikely collaboration in *Trash Dance*, which won the Audience Award at the 2012 Full Frame Film Festival, held in downtown Durham in April. Now in its fifteenth year, the festival is presented by Duke's Center for Documentary Studies and attracts cinephiles from around the world for four days of morning-to-midnight programming. *Special Flight*, a Swiss film directed by Fernand Melgar, won the festival's top jury prize.



Muse

Actors of War

Christopher Sims '95 goes to the imaginary front to document an unseen side of combat.

When we think of war, our mind's eye sees scenes of destruction and suffering. The war-related images captured by photographer Christopher Sims '95 contain no battle scenes or wounded civilians, yet they provide intimate access to combat's countless ancillary activities.

Sims, winner of the 2010 Baum Award for Emerging American Photographers, recently landed a spot on *Oxford American's* list of "The New Superstars of Southern Art." The recognition is for his growing body of work, including a behind-the-scenes look at life in Guantanamo Bay, and for the ongoing series "Theater of War: The Pretend Villages of Iraq and Afghanistan."

Located in the forests of North Carolina and Louisiana, and in the desert near Death Valley in California, the simulated villages are used to train U.S. soldiers preparing for deployment. Military veterans, spouses of active-duty soldiers, and immigrants from Iraq and Afghanistan play specific roles during the training exercises. Sims has had a bit part himself, playing a war photographer on assignment.

"The villages are places of fantastic imagination," says Sims, who teaches photography at the Center for Documentary Studies. "The actors continue playing their roles as police officers, gardeners, and café owners during the long stretches of day between training exercises. Some villagers plant crops that they harvest months later for food for their lunches and dinners.



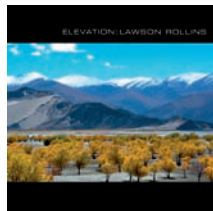
Others pass their leisure time painting murals on the interior walls to beautify their surroundings, or making arts and crafts to trade with other villagers."

Sims' work has been shown at the Griffin Museum of Photography, the Houston

Center for Photography, the Light Factory, the Southeastern Center for Contemporary Art, and the Halsey Institute of Contemporary Art. His earlier project on Guantanamo Bay was featured in *The Washington Post* and on the BBC World Service.

MUSIC

Fusion/avant-garde/jazz guitarist **Lawson Rollins** '92 possesses a world-music sensibility and high-speed fingerpick guitar style that has garnered him critical acclaim, *Billboard* hits, and millions of YouTube fans. His new album, *Elevation*, was recorded in Nepal, the U.S., and Iran, and contains thirteen international, genre-crossing soundscapes. Contributors include Persian-American musician Shahin Shahida, multi-platinum producer Dominic Camardella, avant-garde guitarist Buckehead, Nepali flute star Ruben Shrestha, tabla master Raju Maharjan, and Grammy-winning violinist Charlie Bisharat.



The X-Teens were among North Carolina's leading New Wave/pop bands in the 1980s. Despite giving up the rock 'n' roll lifestyle when the band broke up in 1987, keyboardist and songwriter **Todd Jones** '80 never stopped playing music. On his latest CD, *Mister Sensitive*, Jones' trademark smart-aleck pop/rock compositions range from the sublime ("How I Want to Die") to the ridiculous ("My Pet Tapeworm.") (Jones is married to *Duke Magazine's* Bridget Booher.)



FILM

SCREEN TIME: Actor Segun Akande '07

Segun Akande got his first standing ovation for a dramatic monologue he delivered at summer camp. But as a varsity running back at Duke, he didn't have much opportunity to pursue his interest in acting. Now, he's making up



Courtesy Segun Akande

for lost time. He's racked up credits in commercials, film, theater, and music videos.

Akande's next big project is the film *One Night in Brooklyn*, now in pre-production. It focuses on

a tight-knit group of recent college graduates living in Brooklyn. Akande plays Capital H, an ambitious rapper whose drive to succeed threatens to eclipse his personal relationships. He's also been shortlisted for a lead role in a major Hollywood film and a CBS prime time show.



Setting the scene: Producer/director Lee, left, and director/editor Shasta Grenier in Paradise Valley

Matt Arkins

STARTING OVER: Filmmaker Sabrina Lee '91

Retired Marine Colonel Eric Hastings came back from Vietnam haunted by the experience. He found solace and healing through fly-fishing in the trout streams of Montana. *Not Yet Begun to Fight*, the latest documentary by producer/director Sabrina Lee, follows Hastings as he reaches out to a new generation of young men returning from wars in Iraq and Afghanistan.

"We've taken a subject that's very politically charged—the nature of war—and presented something that's not political, controversial, or polarizing," says Lee. "We're telling an intimate story about the human costs of war—post-traumatic stress disorder, the loss of identity and masculinity, having to start over, and the physical challenges of combat-related injuries."

The film debuted at the Atlanta Film Festival in March, won the Audience Award at the Florida Film Festival, and is making the rounds of the independent film festival circuit. Lee's previous documentary, *Where You From*, a feature-length film about rural rap, was acquired by IndiePix films in 2009.

HOOPS HISTORY: Filmmakers Amy Unell '03 and Madeleine Sackler '05

In this day of one-and-done athletes and win-at-any-cost athletics programs (we're looking at you, John Calipari), the documentary *Duke 91&92: Back to Back* is a bittersweet reminder of what the sport of college basketball has lost. It seems unimaginable that a basketball team will

ever again have players who stick around for four years and coalesce into a squad with a deep history of shared experiences. The film, produced and directed by Amy Unell and Madeleine Sackler, follows the Blue Devil teams that overcame skeptics, setbacks, and internal squabbles on the

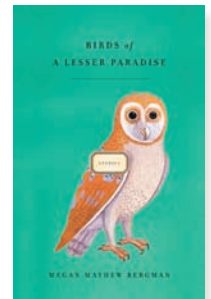
way to winning two national championships. The filmmakers intersperse historical footage—The Shot!—with present-day interviews with Grant Hill '94, Christian Laettner '92, Bobby Hurley '93, and Coach K, among others.

BOOKS

Washington Food Artisans (Sasquatch Books) by Leora Bloom '89. Bloom has worked in restaurants in Washington, D.C., and San Francisco and runs her own bakery in Bellevue, Washington. Her culinary love letter to her home state includes profiles of seventeen food artisans who are producing wine, cheese, lavender, honey, meat, and fruit. Guaranteed to whet your appetite, the book also includes gorgeous photography and fifty recipes, inspired by the farmers' products, by some of Washington's leading chefs.



Birds of Lesser Paradise (Scribner) by Megan Mayhew Bergman A.M. '07. Bergman lives on a farm in Vermont with her veterinarian husband, two young daughters, and a menagerie of animals. In her debut book of short stories—some of which have appeared previously in *Best American Short Stories* and *New Stories from the South*—Bergman draws from personal experience to craft poignant tales of familial love and loss, and the untamed beauty of the natural world. A former fiction scholar at Breadloaf, she teaches literature at Bennington College.





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E. Rhodes and Leona B. Carpenter
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Duke in Cuba: Scenes from the Duke Alumni Association's inaugural travel program trip to the Caribbean republic

Forever

Duke

DUKE ALUMNI ASSOCIATION

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"I'd been back from the Peace Corps for about four months, and I stood on the street outside Crate & Barrel, and I just cried, because I didn't really need eight highball glasses and I knew it."

Jason Carter '97, on completing his wedding-gift registry shortly after serving in the Peace Corps, during a Duke Idea event with his grandfather, former President Jimmy Carter, and President Richard H. Brodhead in Atlanta



Beth Ray-Schroeder '83

Beth Ray-Schroeder '83

Thomas England

DAAConnections

ENGAGE. CONNECT. CELEBRATE.

iVamos Duke!

DUHLAA aims to increase support for Duke's Hispanic/Latino community.

Roberto Olivares III '88 has a long-range perspective on the experiences of Hispanic/Latino students at Duke. While he enjoyed his undergraduate experiences, there weren't many other Hispanic/Latino students that he could identify with.

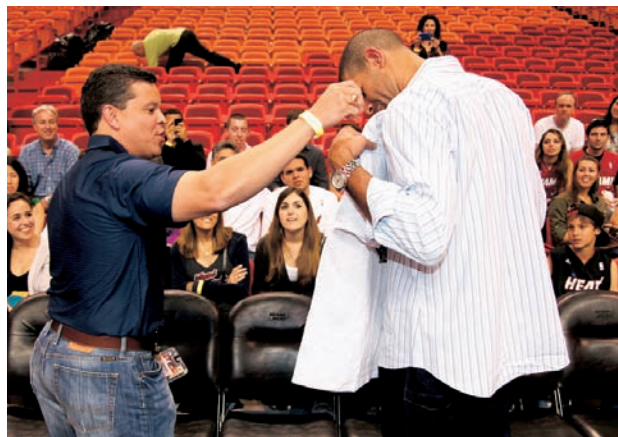
His son, Roberto Olivares IV '12, belongs to the 7 percent of Hispanic/Latino students that comprise the undergraduate student body. The younger Olivares and his peers have an array of organizations geared specifically to them, including Sabrosura, a Latin dance group; Mi Gente, Duke's Latino student association; and La Unidad Latina, Lambda Upsilon Lambda, Duke's first Hispanic/Latino fraternity. The Latino/a Studies program, established in 1997, began offering undergraduate courses toward a certificate in the spring of 2009.

"Things are getting better, but Duke still has a ways to go to be competitive when it comes to recruiting and supporting the interests of Hispanic/Latino students and faculty," says the older Olivares. For example, at MIT, Harvard, Yale, Stanford, Columbia, and the University of Pennsylvania, Hispanic/Latino students make up between 11 and 12 percent of the Class of 2015.

Through the Duke Alumni Association (DAA), Olivares and other Hispanic/Latino alumni are working through DUHLAA, the Duke University Hispanic/Latino

Alumni Association, to foster greater support for and expand Duke's Hispanic/Latino community. "We hope that DUHLAA will serve as a central hub for graduate and undergraduate students, faculty, and alumni to gain visibility and have a voice," he says. More than 3,000 alumni identify as Hispanic/Latino.

DUHLAA evolved from efforts begun in 2004 to create an affinity group for Hispanic/Latino alumni. That year, a \$100,000 scholarship endowment was created for undergraduate students of Latino/a heritage, and part of DUHLAA's emphasis in the



Compadres: DUHLAA chair-elect Nelson Bellido '89 presents a DUHLAA shirt to Shane Battier '01.

coming years is to continue adding to the endowment. (The fund currently has a market value of \$350,000.) DUHLAA members also come to campus during Latino Student Recruitment Weekend to encourage accepted students to matriculate.

Last summer DUHLAA crafted and approved a constitution and elected a board of officers. In March this year, DUHLAA held its inaugural national conference in Miami. Vice provost for undergraduate education Steve Nowicki shared perspectives on how Duke's efforts to serve its Hispanic/Latino community compare to that of peer institutions. And associate professor of literature Antonio Viego discussed the Latino/a Studies program and ideas for broadening the curriculum. Michael Bennett '77 and Reggie Lyon '84, members of DUBAC (Duke University Black Alumni Council), shared their experiences building and expanding that affinity group.

DUHLAA communications chair Roberta Oyakawa B.S.E. '86 says the group's efforts dovetail with the larger missions of the university and the DAA. "We want to engage with alumni in an effort to promote the best interests of the university, while attending to the specific needs of the Hispanic and Latino community. Our goals are to track statistics and metrics about the Hispanic/Latino community, support and expand that community, and sponsor outreach events such as our national conference."

Interested in joining or learning more? DUHLAA has its own affinity page on the Alumni Communities section of the DAA website—duhlaa.org—and has a Facebook group page.

Alumnae Outreach

DAA programs geared to engaging women.

What was lost when the Woman's College merged with Trinity in 1972? Why are women's athletic opportunities still not equal to those for men, despite the passage of Title IX? How do state battles over reproductive rights and health care affect women disproportionately? For the more than 300 attendees at "Winning Women: Advocates, Educators and Athletes" in February, exploring the answers to these and other questions resulted in intense discussions, fond recollections of shared experiences, and inquiries about what role alumnae

play in shaping Duke today.

Organized by the Duke Alumni Association and Duke Athletics, the program is part of the DAA's larger outreach efforts to engage alumnae. At the local level, Women's Forums throughout the country provide ongoing networking events around topics such as women entrepreneurs, education and leadership, and sustainable food. For information about Women's Forums, including how to start one in your community, visit www.dukewomensweekend.com.

NEXTSTEPS

CONNECT Do you have a rising high-school sophomore, junior, or senior in your family? Make plans to attend the Jump-Start College Admissions Process at Duke on June 15. Designed exclusively for alumni families, the day-long conference covers how to select the right college, crafting a great admissions essay, understanding the significance of standardized tests and other credentials colleges consider, and how to estimate the cost of—and pay for—higher education. [MORE: dukealumni.com](http://MORE:dukealumni.com)

• • •

CELEBRATE Although they're likely to have already connected electronically, members of the Class of 2016 can meet some of their fellow freshmen face-to-face during this summer's send-off parties. Hosted at homes in local communities from Savannah to Seoul, the informal get-togethers give students a chance to meet—and their parents a chance to reassure each other as nests begin to empty.

[MORE: dukealumni.com](http://MORE:dukealumni.com)

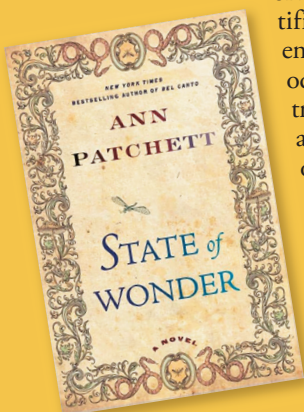
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FOREVER LEARNING More than 400 Duke students are embarking on dozens of DukeEngage summer projects in domestic and international settings. New international locations include programs in Southeast Asia and the Middle East.

[READ THEIR BLOGS FROM THE FIELD:
dukeengage.duke.edu/our-blogs](http://READ THEIR BLOGS FROM THE FIELD:dukeengage.duke.edu/our-blogs)

• • •

WHAT WE'RE READING *State of Wonder* by Ann Patchett, the summer reading book for incoming students in the Class of 2016. Part scientific thriller, part engaging personal odyssey, the novel traces the steps of a forty-two-year-old pharmacologist whose work takes her to a Brazilian jungle.



How are you ForeverDuke?

Jeff Staubach '97 could barely walk when he arrived at K Academy last year to participate in the fantasy basketball camp. Days earlier, he had completed a twenty-hour, fifty-mile walk through Carry the Load, a nationwide event to raise money for veterans and their families. Participants carry mementos in honor of servicemen and women who have given their lives while in the military.

"I had blisters and shin splints and was limping around," he says. "By the end of camp, everyone knew my story, so when it came time to think about who I would walk in honor of this year, I immediately thought of the Duke community."

When Staubach walks in this year's Carry the Load event in late May, he will wear a T-shirt printed with the names of all Duke alumni killed in active duty—nearly 300—from World War II through the Iraq and Afghanistan wars. "I'm calling them the Bravest Blue Devils, because they gave the ultimate to their country," says Staubach, the son of Hall of Fame quarterback and Navy veteran Roger Staubach. "The goal of Carry the Load is to go farther and carry more than you think you can. So when I begin to get exhausted in the twelfth or fourteenth hour of the event, I'll think about the sacrifices they made, and it will inspire me to keep pushing through the pain."

"I respect and admire what [Duke] stands for," says Staubach,

who played varsity baseball for the Blue Devils. "From its classrooms to the playing field, Duke represents excellence. But I am also Forever Duke because I refuse to wear that lighter shade of blue. I even had a hard time seeing my infant son wearing baby blue."



Courtesy Jeff Staubach

Life's Broad Sea

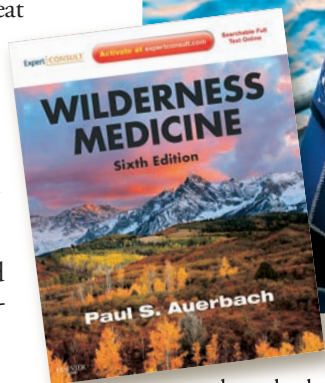
ALUMNI IN THE SPOTLIGHT

Paul Auerbach '73, M.D. '77 takes the scouting motto of “Be Prepared” to a whole new level. His new book, *Wilderness Medicine, Sixth Edition*, weighing in at ten pounds, includes information about snake bites, lightning strikes, bear attacks, poisonous mushrooms, seafood pathogens, frostbite, sunburn, heat stroke, volcano hazards, dehydration, bone fractures, emergency evacuation, vertigo, toxic plants, bacterial infections, high-altitude sickness, tropical diseases, and parasites. (There’s a lot more, but you get the idea.)

A professor of surgery at Stanford University and an avid outdoorsman, Auerbach has edited the book since its first edition in 1983. (His med school classmate Edward Geehr M.D. '76 helped edit the first two editions.) His interest in emergency and wilderness medicine dates to a summer externship spent working with the Indian Health Service in Montana between his second and third years of medical school. Since



Safe adventures: Auerbach on a dive in Mexico



then, he has pioneered wilderness medicine, a specialty that is useful not only for outdoor enthusiasts but also during humanitarian crises, in the wake of natural disasters, and in austere settings where resources are scarce.

Auerbach has put his expertise into

practice in Haiti as a first responder after the 2010 earthquake and has led wilderness-medicine workshops at the base camp of Mount Everest. He’s also involved with efforts to help Nepal create a worldwide burn prevention and treatment program.



Corin: Romeward bound

Lucy Corin '92 has been awarded a Rome Prize by the American Academy of Arts and Letters. Also known as the “Rome Fellowship in Literature,” the award goes to two “young writers of promise” and includes a one-year residency at the American Academy in Rome. Corin, an associate professor at the University of California-Davis, is the author of the short-story collection *The Entire Predicament* and the novel *Everyday Psychokillers: A History for Girls*. Her stories have appeared in *American Short Fiction*, *Conjunctions*, *Ploughshares*, *Tin House Magazine*, and *New Stories from the South: The Year's Best*.

During her residency, Corin will work on her novel-in-progress about “people who are not mentally ill trying to conceive of and do right by people they love who are,” she says. “I am incredibly excited and grateful. It’s an amazing feeling to get this kind of support.”

At the age of seventy-one, **Hiroshi Hoketsu A.M. '68** is preparing for an unlikely return to the Olympic Games. Hoketsu, an equestrian sport rider, first represented his native Japan at the 1964 Olympics in Tokyo, where he finished 40th in show jumping. He gave up competition to pursue degrees in economics, but returned in 2008 to qualify for the Olympics in Beijing. Competing in dressage, an event where riders execute a series of tests that are judged for grace and execution, Hoketsu and his chestnut mare, Whisper, finished ninth in the team grand prix and 35th in individual competition. He has earned wide admiration for competing with athletes young enough to be his grandchildren. In Japan, he is called “The Hope of Old Men” and is a spokesperson for a health-food company. “If I feel that I am not progressing, that I am not as good as before, then I will quit [after London],” Hoketsu told the Associated Press in March. “But fortunately, I don’t feel like that. I feel I am still improving.”



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Back in the saddle: Hoketsu and Whisper at the 2010 World Equestrian Games

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Half-Century Club

1940s

Allan H. Meltzer '49 published *Why Capitalism?* The book explores the success of democratic capitalism and the failure of alternatives. He is a professor of political economy at Carnegie Mellon University and a visiting scholar at the Hoover Institution.

1950s

George C. Megill M.Div. '52 received the Volunteer of the Year Award at Central Prison in Raleigh for his involvement in the Kairos Prison Ministry program.

Ronald P. Nelson '52 has relocated from Connecticut to Pebble Beach, Calif., following the death of his wife. He is a volunteer interviewer of Duke applicants and was a marshal at the AT&T Pebble Beach golf tournament in February.

George E. Ogle B.D. '54 published *Our Lives in Korea and Korea in Our Lives*, which he cowrote with his wife. The book is a personal memoir detailing the 20 years the couple lived in South Korea as missionaries.

Herbert K. Lodder '55 was named to Maryland's Alzheimer's Disease and Related Disorders Commission.

Luciano L'Abate Ph.D. '56 published three books in 2011: *Hurt Feelings: Theory, Research, and Applications in Intimate Relationships*; *The Seven Sources of Pleasure in Life*; and *Sourcebook of Interactive Practice Exercises in Mental Health*. *Hurt Feelings* was nominated for the 2011 Book of the Year Award by the Georgia Writers Association. He is professor emeritus of psychology at Georgia State University in Atlanta.

Richard W. Bevis '59 published *Dudes & Savages, The Resonance of Yellowstone*, a book about the summer of 1957 when a group of Duke students worked at Yellowstone Park service stations.

1960s

Winifried "Fred" R. Dallmayr Ph.D. '60 published *Return to Nature? An Ecological Counter-history*. The book demonstrates how nature has been marginalized, colonized, and abused in the modern era.

Hoyt Mel Gilley '61 published *Sam and the Sad Dinosaur*, a children's book inspired by his grandchildren.

Barry Farnham '62 retired in August 2010 after 41 years as a public, international, independent social administrator. He lives in the historic section of Old San Juan, P.R., where he does community advocacy and modeling.

Jessica D. Richards Linden '62 won the 2011 Volunteer of the Year Suzi Award, in recognition of more than 20 years of support for Atlanta's nonprofit theater community.

'63 50th Reunion April 12-14, 2013

Robert L. Heidrick '63 was named chairman of the board for the conservancy of Southwest Florida in Naples, Fla. Heidrick retired in 2007 as vice chairman of Spencer Stuart, a leading executive search firm. He was president of the Duke Alumni Association from 1988 to 1989.

James M. "Jay" Ferguson '66 and his wife, Ranny, were awarded the Dignity & Respect Champion Award by the Center for Inclusion at the University of Pennsylvania Medical Center. He is chairman of Fifth Third Bank of Western Pennsylvania. He serves on the boards of directors of the Western Pennsylvania School for Blind Children and UPMC St. Margaret Memorial Hospital.

Jay W. Jackson '66 recently became president and CEO at Stuller Inc., the largest domestic manufacturer and distributor of fine jewelry, headquartered in Lafayette, La. Jackson serves as local chairman for the Duke Alumni Admissions Advisory Committee.

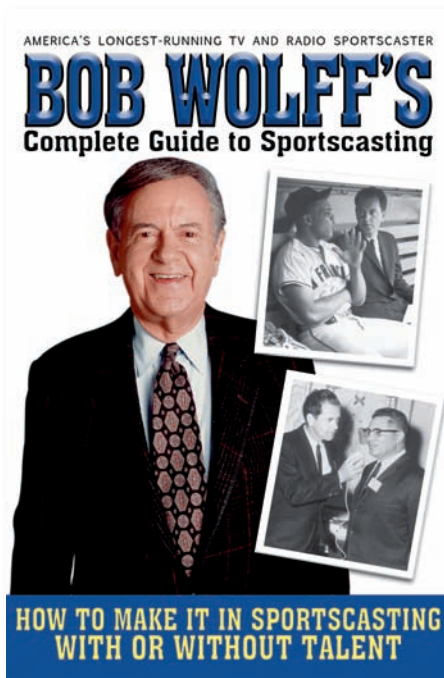
'68 45th Reunion April 12-14, 2013

Patrick A. Morelli A.M. '68 presented an illustration of his creation of the "Behold" monument overlooking the tomb of Martin Luther King Jr. at the King National Historic Site in Atlanta in February. He is an internationally recognized sculptor and architectural designer who lives in Albany, N.Y.

1970s

Adrian Juttner M.F. '70 celebrated the 40th anniversary of his New Orleans tree service business. He recently edited and published *Evoke* by Anne Bruder, a story set in Budapest at the twilight of the Austro-Hungarian Empire.

Richard C. Stuecker '70 has published the third in his series of books on youth development: *Inspiring Leadership in Youth*. He is an author for Research Press, and he writes fiction and poetry. He lives in Louisville, Ky.



'42

Bob Wolff '42 has published *Bob Wolff's Complete Guide to Sportscasting*, which chronicles his seventy-two-year career as a sports commentator for television and radio. Wolff got his start at WDNC as an undergraduate and has covered the World Series, the NFL championship, the NBA finals, and the Stanley Cup, as well as horse shows, college sports,

and the Westminster Kennel Club Dog Show. His book offers aspiring sportscasters tips on how to stand out in a crowded field, the art of the interview, and the enduring need for accuracy and good grammar.

David W. Erdman B.S.E. '71 was named a Leader in the Law by *North Carolina Lawyers Weekly* magazine. He is a partner at Erdman Hockfield & Leone in Charlotte, where he practices family law.

Elizabeth G. Ferris '71 is a senior fellow at the Brookings Institution, where she researches and writes on humanitarian issues. Her most recent book, *The Politics of Protection: The Limits of Humanitarian Action*, was published in 2011.

Harry A. Swagart III '71 was named a fellow in the Litigation Counsel of America, an honorary society, and was named in *South Carolina Super Lawyers 2012*. He is a shareholder in Harry A. Swagart III in Columbia, S.C., where he concentrates in business, investment, estate and trust, and contract litigation.

James E. Douthat M.Div. '72, Ed.D. '77 will retire as president from Lycoming College in June 2013. Douthat was president of the Williamsport, Pa., school for 23 years and was previously dean of student life at Duke.

Cary A. Moomjian Jr. J.D. '72 has established CAM OilServ Advisors and a private consulting practice in Plano, Texas, to provide advisory, consulting, mediation, and legal services to the drilling, oil service, and petroleum industries. He was previously vice president and general counsel to Santa Fe International Corp. and EnSCO.

'73 40th Reunion April 12-14, 2013

James C. Camp '73 recently became assistant dean for property administration and development at Southwestern Law School in Los Angeles.

Robert D. Peltz '73 was named in *Florida Super Lawyers 2012* in the field of admiralty/transportation litigation. He specializes in maritime law and is a partner in Leesfield & Partners in Miami.

Louise G. Upchurch Johnson '74 has been appointed to a five-year term as a trustee of the Charlotte W. Newcombe Foundation. She serves as associate pastor at the Presbyterian Church of Lawrenceville, N.J.

Jerome R. Smith '74 was named senior vice president, general counsel, chief compliance officer, and corporate secretary at Multimedia Games Holding Co. His expertise is in gaming law, corporate governance, and intellectual property.

Clarence "C.J." Gideon Jr. '75 was selected as a top lawyer in the field of medical malpractice by several publications, including *The Best Lawyers in America 2012*, *U.S. News & World Report*, *Mid-South Super Lawyers*, and the *Nashville Post*. He is a partner at Gideon & Wiseman in Nashville, Tenn.

Hilarion A. "Lari" Martinez '76 was named associate dean of undergraduate education at

Florida International University in Miami. He is developing new international institutional linkages, having recently retired from the Foreign Service after 25 years of work as a diplomat.

Paul M. Newby '77 of the North Carolina Supreme Court hosted a delegation of international judges for a week of education about the North Carolina justice system. The visiting judges were from the Supreme Judicial Council of Moldova.

John C. Stavros M.H.A. '77 was named senior vice president of marketing and development at Catholic Health, a health-care system in Buffalo, N.Y.

'78 35th Reunion April 12-14, 2013

John J. Coleman III '78, J.D. '81 was ranked a leading practitioner in the 2012 edition of *Chambers USA*, a directory featuring America's leading business lawyers. He practices labor and employment law in the Birmingham, Ala., office of Burr & Forman.

James T.R. Jones J.D. '78 published his memoir, *A Hidden Madness*, recounting his 30-year bout with bipolar disorder. He has delivered more than 50 speeches on severe mental illness, stigma, and the value of treatment.

1980s

Joseph T. Chun '80 was appointed chief of the division of plastic surgery at the University of Tennessee Medical Center.

Jonathan T. Upson B.S.E. '82 is as a senior development and government affairs manager for Australia's largest wind farm owner, Infigen Energy.

'83 30th Reunion April 12-14, 2013

Gregg A. Harris '83 recently founded TEMP Expertise, a business-development consultancy focused on emerging medical technology, in Tualatin, Ore.

Katherine Roberts Hite '83 published *Politics and the Art of Commemoration: Memorials to Struggle in Latin America and Spain*. She is a professor of political science and director of Latin American and Latino studies at Vassar College.

Louis A. Ruprecht Jr. '83, M.A. '85 published *Wincklemann and the Vatican's First Profane Museum*. The book documents the work of Johann Joachim Wincklemann, who helped create the first public art museum. Ruprecht is the inaugural holder of the William M. Suttles Chair in religious studies at Georgia State University.

Daniel D. Briere '84, M.B.A. '85 founded and launched Startup Connecticut as part of President Obama's Startup America initiative to overhaul America's startup ecosystem. He is working on a number of projects, including MoxMe!, a social networking startup focused on communities.

Anne P. Melick Brumbaugh '84, Ph.D. '95 recently became co-managing partner and chief analytics officer at Qintuit in Charleston, N.C. She joins **Karen Lesieur** '84, the company's founder, co-managing partner, and CEO.

John Chae B.S.E. '84 was elected to the Institute of Medicine of the National Academies and to

the College of Fellows of the American Institute for Medical and Biological Engineers. He is professor and vice chair of physical medicine and rehabilitation, and professor of biomedical engineering at Case Western Reserve University.

Tonya Denise Clayton '84 published *How to Read a Florida Gulf Coast Beach: A Guide to Shadow Dunes, Ghost Forests, and Other Telltale Clues from an Ever-Changing Coast*.

Daniel M. Ferber '84 was honored by his book *Changing Planet, Changing Health: How the Climate Crisis Threatens Our Health and What We Can Do about It* being named one of the top 10 health and wellness books of 2011 by *Booklist*. He is an independent science journalist in Indianapolis.

Scott K. Tippett '84 was named a director at Carruthers & Roth in Greensboro. Tippett is a member of the firm's business, tax, and estates group.

Karl G. Benzio Jr. B.S.E. '85 was interviewed recently on NBC 10 in Philadelphia as a representative of Lighthouse Network, which he founded and serves as executive director. Benzio, a Christian psychiatrist, discussed the effects of a Supreme Court decision that separates the business practices of religious institutions from government interference.

A. Wesley Burks HS '85 was elected president of the American Academy of Allergy, Asthma & Immunology. He is also chair of the pediatrics department at UNC-CH and physician-in-chief of North Carolina Children's Hospital.

Joseph D. Wargo '85 is a partner in the Atlanta-based law firm Wargo French, focusing on commercial litigation, intellectual property, and class-action litigation.

Melissa L. Kelley '86 recently became executive director of the Sonoma County Regional Parks Foundation in Santa Rosa, Calif.

Wendy L. Johnson Lario '86 was named one of *NJBIZ* magazine's Best 50 Women in Business for 2012. She is a shareholder in the labor and employment practice of Greenberg Traurig's New Jersey office.

Francis J. Mootz III A.M. '86, J.D. '86 was appointed dean of the McGeorge School of Law at the University of the Pacific in Sacramento, Calif. He was previously a professor and associate dean at the law school of the University of Nevada.

Michael S. French '87, J.D. '90 is a partner in the Atlanta-based law firm of Wargo French. His expertise is in complex commercial litigation, intellectual property, and class-action litigation.

'88 25th Reunion April 12-14, 2013

Michael Harman '88 was elected to the Darien, Conn., board of education after spending two years on the town council. He also works for an innovation consulting firm.

William K. Mask M.D. '88 cowrote a children's book, *Griffin the Dragon and the Jump House*, with his 5-year-old son, Joshua.

Frank J. Squillace M.H.A. '88 recently became director of member services at the Charlottesville Regional Chamber of Commerce in Virginia.

Leora Y. Ger Bloom '89 published *Washington Food Artisans*, a book that chronicles the stories of seven food artisans and includes more than 50 recipes from Washington state chefs.

Kenneth B. Jacobs '89 was elected to the board of directors of Synovus Bank. He is managing shareholder of the Jacksonville office of GrayRobinson.

MARRIAGES: **Jennifer A. Parnell** '85 to Kenneth Warner Jr. on Oct. 16, 2010. Residence: Kodiak, Alaska... **Laura Hart Powell** '87 to Joseph P. Factor on Nov. 5, 2011. Residence: Powell, Ohio.

BIRTHS: Katherine Lynn to **Jeffrey A. Rzepiela** '89 and Leanne W. Rzepiela on Feb. 2, 2012.

1990s

Michael D. Kabat J.D. '90 made partner at the Atlanta-based law firm of Wargo French. His expertise is in labor and employment litigation.

Theodore C.M. Edwards II '91, J.D. '94 was appointed president of the Wake County Bar Association. He is a partner with Smith Moore Leatherwood in Raleigh, specializing in construction law and commercial litigation.

Matthew R. Carlson '92 is the CEO of Sunnovations, a manufacturer of solar water heating equipment.

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'88

Amanda Lamb Griffin '88

has published *I Love You to God and Back*, a compilation of 100 bedtime prayers made by her then six-year-old daughter and Lamb's own spiritual reflections on those prayers. She is a TV journalist covering the crime beat for WRAL in Raleigh and teaches writing and journalism at Wake Tech. She lives in Cary, N.C.



Courtesy Non-Fiction Trade Book Group

Theodore W. Connolly '92 joined Looney & Grossman in the Boston law firm's bankruptcy and insolvency practice.

Derek J. Hardesty '92 was promoted to COO at King & Spalding in Atlanta. He will oversee non-legal operations of the firm.

Karen E. Terry '92 is listed in *The Best Lawyers in America 2012*. A lawyer in the West Palm Beach, Fla., office of Searcy Denney Scarola Barnhart & Shipley, she represents victims injured in catastrophes and medical malpractice cases.

'93 20th Reunion *April 12-14, 2013*

Donna Reefer Childress '93 joined Rowan Diagnostic Clinic in Salisbury, N.C., as an internal-medicine physician.

Robert L. Plummer '93 published *Journeys of Faith*, which explores the theological migrations taking place within Christianity today.

Zarena Doreen Aslami '94 published her third book, *The Dream Life of Citizens: Late Victorian Novels and the Fantasy of the State*. She is an assistant professor in the English department at Michigan State University.

Shannon M. Barrett '94 recently joined the Washington, office of O'Melveny & Myers as a member of its financial-services practice.

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Left: Gilda Doria, Women's Soccer, Class of 2014
Right: Andre Dawkins, Men's Basketball, Class of 2013

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Jason N. Heffer '94 published his first novel, *Hump Day*, a surrealist satire of the travails of the middle of the work week.

Joshua S. Broder '95 published *Diagnostic Imaging for the Emergency Physician*, which won the 2011 PROSE Award in Clinical Medicine. He is an associate professor and residency director in emergency medicine at Duke University Medical Center.

Jonathan C. Krisko '95 was named to *Charlotte Business Journal's* "40 Under 40," an annual award recognizing young professionals for their leadership, achievements, and community contributions. He works in the litigation department of Robinson Bradshaw's Charlotte office.

Joseph C. Pickens '95 was named among the "Ohio Rising Stars 2012" by *Super Lawyers*. He was recognized for his general litigation practice. He practices at Chester Willcox & Saxbe in Columbus, Ohio.

Robert F. Roscigno Ph.D. '96 was promoted to executive vice president at GeNO, a company that uses rocket-fuel chemistry to make inhaled medication for cardiopulmonary diseases.

Luba V. Zakharov M.T.S. '96 was named an associate professor and special-collections librarian at Azusa Pacific University.

Eric J. Gottesman '97 was selected to appear in the 2012 *deCordova Biennial*, a survey exhibition featuring artists across New England.

'98 15th Reunion April 12-14, 2013

Christopher C. Lam '98 joined Nexsen Pruet as a partner in their business litigation group. He focuses on disputes related to contracts, trade secrets, motorsports, defamation, and professional discipline.

Andrew J. Thomson '98 recently became an assistant district attorney in Philadelphia, in the special-operations division.

Chris W. Winland '98 was named to the 2011 "40 Under 40" in the *San Antonio Business Journal*. He is a principal in Good Company Associates, a business-development consulting firm specializing in clean energy.

Graham W. Gerhardt '99 became a partner at Bradley Arant Boult Cummings in Birmingham, Ala. He works in the firm's litigation and banking and financial-services practice groups.

Dara Zelnick Kesselheim '99 was named a partner at Choate, Hall & Stewart in Boston. She practices in the firm's government enforcement and compliance and major commercial litigation practice groups.

Kathryn Lea Reeve '99 was named a middle-school science teacher at Salisbury Academy in Salisbury, N.C.

Reginald H. Williams '99 was elected president of the South Carolina Association for the Ed-

ucation of Young Children. He is an assistant professor of early childhood education at South Carolina State University.

MARRIAGES: Sara L. Ayres '94 to Michael Craig on Feb. 25, 2012. Residence: Fort Wayne, Ind.... Jennifer Eileen Coker B.S.E. '98 to Robert J. Bechtloff on May 28, 2012. Residence: Portland, Ore.... Elizabeth Barbee Kyle '99 to Patrick O'Hanlon on Nov. 12, 2011. Residence: New York.

BIRTHS: Emily Dyer to Matthew R. Carlson '92 and Caroline Carlson on Nov. 26, 2011... Jack Rogan to Justin E. Mitchell '92 and Leslie Brock Mitchell on March 7, 2011... Samara Madison to Ayanna K. Barrow Chance '94 and Rawle J. Chance on Aug. 7, 2011... Caroline Siler to Chad C. Sturgill '94 and Melissa Sturgill on Aug. 21, 2011... Kate Diana to Suzanne Bryan Crandall '95 and J. Taylor Crandall on Dec. 6, 2011... Phoebe Jane to Heather Goldberg Mendelow '95 and Daniel B. Mendelow on Feb. 2, 2012... Ava Nicole to Michelle Kitchman Strollo '95, M.D. '02 and Michael Strollo on Dec. 13, 2011... Lauren Elizabeth to Kathleen M. Greaney B.S.E. '96 and Michael Schmidt on Dec. 22, 2011... Ryan Colby to Barry S. Persh '96 and Sherri S. Persh on Jan. 4, 2012... Caitlyn Julie Heins to Amanda J. Crowe '97 and James W. Heins on Dec. 20, 2011... Eliana Jane to Jory M. Zand Lieber '97 and Matthew S. Lieber '99 on June 14, 2011... Elizabeth Delia Lucile to Percy L. Strickland '97, M.T.S. '99 and Susangeline Schmidt Strickland '99

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on Feb. 24, 2012...Richard Godwin to **Kevin R. Kirchner** '98 and Susie L. Kirchner on Nov. 1, 2011...Caroline Megan to **Andrew J. Thomson** '98 and Megan G. Thomson on Aug. 29, 2011...Jude Alexander Ramsey to **Colette Rae Ann Alvis** '99 and **Peter Ramsey** '99 on Oct. 27, 2011...Jack Robert to **Jennifer Johnsen Brownlie** B.S.E. '99 and Jason Brownlie on Jan. 26, 2012...Landry Robbins Howard to **Hilary Howard Heieck** '99 and Adam H. Heieck on Dec. 17, 2011...Eli George to **Dara Zelnick Kesselheim** '99 and Jared Kesselheim on July 13, 2011...Kyle Parker to **Kristin Hendren Magee** '99 and **Matthew S. Magee** B.S.E. '99

on Jan. 8, 2012...Robin James to **Riley Weber Murdock** B.S.E. '99 and Jamie Murdock on Feb. 8, 2012...Noah Gabriel to **Joanne Hrusovsky Nazif** '99 and Tamim Nazif on Dec. 14, 2011...Panguitch Noice to **Andres N. Oliveros** '99 and Leah Oliveros on Jan. 3, 2012...William Makoto to **Benjamin A. Powell** '99 and Diane T. Powell on Dec. 30, 2011...Corbin Chao to **Susan Chao Reed** '99 and **Ryan S. Reed** '00 on Nov. 18, 2011...Samuel Ryder to **Todd H. Waldman** '99 and Elizabeth Z. Waldman on Dec. 19, 2011...Kennedy Madison to **Reginald H. Williams** '99 and Shannon Stukes Williams on Aug. 10, 2011.

2000s

Taylor S. Pendergrass '00 was named a senior staff attorney at the New York Civil Liberties Union. He specializes in criminal justice reform litigation.

Chad J. Rubin '00 was named a partner at Duane Morris in Philadelphia. He practices corporate and securities law, mergers and acquisitions, and securities offerings and compliance.

Barry H. Uhrman J.D. '00 was named the new assistant city attorney of Phoenix.

Alexandra K. Jaritz M.B.A. '01 was named senior vice president of brand strategy and marketing for Choice Hotels International Inc. She also is responsible for owner relations, franchise management, and procurement services.

Corinne Elizabeth Martin '01 was recognized as one of the "Law Leaders Rising" by the *Nashville Post*. She is an associate at Stites & Harbison and is past vice chair of the Nashville Bar Association environmental committee, secretary of the executive committee and board for Urban Green Lab, and secretary of the Lawyers' Association of Women.

Jenna B. Kiziah McGee '01, J.D. '04, LL.M. '04 recently became a partner at Parker Poe Adams & Bernstein in Charleston, S.C. She practices complex commercial and construction litigation.

Alisa D. Nave-Worth '01 joined the Las Vegas office of Brownstein Hyatt Farber Schreck as an associate in the litigation and government relations groups. She focuses on commercial litigation and local and state government.

Eric J. Huang '02 became an associate at Pepper Hamilton in Boston. He practices intellectual-property litigation.

Sarah Pfuhl J.D. '02 was promoted to partner at WilmerHale in New York.

Kenny J. Walden M.Div. '02 became university chaplain and assistant professor of philosophy and religion at Claflin University in Orangeburg, S.C.

'03 10th Reunion April 12-14, 2013

Joshua E. Fein '03 joined a group dentistry practice in northern Virginia, after serving as chief resident in endodontics at the University of Maryland since 2009.

Sabrina Beth Magid '04 was named in *Westchester Magazine's* "Top 22 People to Watch in Westchester County in 2012." She practices at Advanced Dentistry of Westchester in Harrison, N.Y.

Paul W. Redhage A.M. '04 was named president-elect of the National Agri-Marketing Association. He serves as strategic communications manager of FMC Corp.


Audra Eagle Yun '06 recently became an archivist at the University of California-Irvine.

Elizabeth Hill Flowers Ph.D. '07 published *Into the Pulpit: Southern Baptist Women and Power Since World War II*.

'92

Timothy J. Talley M.B.A. '92 has launched U-Lace, a customized, interchangeable lacing system for sneakers that is sold internationally. Previously, he was senior director of fashion headwear at New Era Cap Co.
































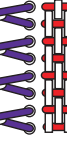
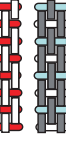







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Alexander Calder and Contemporary Art: Form, Balance, Joy is organized by the Museum of Contemporary Art, Chicago. The exhibition is sponsored by The Northern Trust Company. Lead foundation support is provided by the Terra Foundation for American Art and the Chicago Community Trust. Major support for the exhibition is generously provided by The Kenneth and Anne Griffin Foundation. Additional generous support is provided by Margot and George Greig, Anne and Burt Kaplan, Ruth Horwich, The Broad Art Foundation, Gagosian Gallery, Lindy Bergman, Helyn Goldenberg, Sara Szold, and The Elizabeth F. Cheney Foundation.

At the Nasher Museum, major individual support for the exhibition is provided by Frances P. Rollins, Marilyn M. Arthur, Trent and Susan Carmichael, Drs. Victor and Lenore Behar, Kathi and Stephen Eason, and Mindy and Guy Solie. Additional generous support is provided by Deborah DeMott, Nancy Palmer Wardropper, The E. T. Rollins Jr. and Frances P. Rollins Fund, Jo and Peter Baer, Paula and Eugene Flood, Pepper and Donald Fluke, Kelly Braddy Van Winkle and Lance Van Winkle, Carolyn Aaronson, Diane Evia-Lanevi and Ingemar Lanevi, Caroline and Arthur Rogers, Angela O. Terry, and Richard Tigner. Major corporate and grant support for the exhibition is provided by the Mary Duke Biddle Foundation, NetApp, and the N.C. Arts Council, a division of the Department of Cultural Resources. Additional support is provided by Carolina Biological Supply Company, Duke's Pratt School of Engineering, The Research Triangle Park, Parker and Otis, Sigma Xi, The Scientific Research Society, Clinical Ambassador, *American Scientist* magazine, and Tech Shop.

ABOVE: Alexander Calder, *Blue Among Yellow and Red*, 1963. Painted sheet metal and steel wire, 43 x 63 inches diameter. Museum of Contemporary Art Chicago, The Leonard and Ruth Horwich Family Loan (EL1995.12). © 2012 Calder Foundation, New York / Artists Rights Society (ARS), New York. Photo by Nathan Keay, © MCA Chicago.



www.ncarts.org

Daniel K. Miller M.Div. '07 received a Ph.D. in theology and ethics from the University of Edinburgh in Scotland. He also published a book, *Animal Ethics and Theology: The Lens of the Good Samaritan*.

'08 5th Reunion April 12-14, 2013

David A. Graham '09 recently joined *The Atlantic* as an associate editor on the politics channel. Graham previously worked at *The Daily Beast* and interned at *The Wall Street Journal*.

Sidney L. Gullede IV '09, Navy ensign and marine of the 11th Marine Expeditionary Unit, participated in a community-service project at the House of Family children's shelter in Sihanoukville, Cambodia. The shelter serves as a refuge for HIV/AIDS-positive orphans and vulnerable children.

Andrew L. Simon M.B.A. '11 was made a senior consultant for Deloitte, a professional-services firm. He resides in Cincinnati.

Nicholas L. Simon J.D. '11 clerks for U.S. District Judge Karen K. Caldwell in Lexington, Ky.

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MARRIAGES: **Jessica Meredith Lillesand** '02 to Wade Bauger on May 8, 2010. Residence: St. Petersburg, Fla....**Joshua E. Fein** '03 to Danielle Kiefer on Dec. 30, 2011. Residence: Pikesville, Md....**Christopher Boston** '04 to **Cortney D. Cooper** '06 on April 19, 2010. Residence: New York....**Elena J. Edelman** '04, Ph.D. '08 to **David A. Orlando** Ph.D. '09 on Oct. 15, 2011. Residence: Somerville, Mass....**Benjamin L. Burnham** B.S.E. '05 to **Megan Hanson** B.S.E. '05 on July 25, 2009. Residence: Evanston, Ill....**Katherine E. Page** B.S.E. '05 to Paul D. DePenning on July 16, 2011. Residence: Denver....**Brianna Elizabeth Powers** '05 to Haris Kulovic on May 28, 2011. Residence: Washington....**Margaret B. Andrews** '06 to Hart G. "Chip" Dillard on Aug. 27, 2011. Residence: Atlanta....**Anne Burchards Giguere**

'06 to Lee Kester on Oct. 22, 2011. Residence: Greenville, S.C....**Rebecca B. Crotty** '07 to **Bayard H. Friedman II** '07 on June 4, 2011. Residence: Dallas....**Ryan D. Lusk** M.B.A. '08 to **Melissa Malone** M.B.A. '08 on June 4, 2011. Residence: New York....**Julia Symmes Robertson** '08 to Peter Barbieri Jr. on Dec. 10, 2011. Residence: Darien, Conn....**Lisa Patterson** '09 to Grady Wier on Oct. 1, 2011. Residence: San Antonio.

BIRTHS: Tabitha Ruth to **Bernadette A. Hall Bruha** '00 and Adam J. Bruha on Nov. 17, 2011....Lana Margot Caulier Darrot to **Julie Darrot** LL.M. '00 and Thibaud Caulier on Oct. 21, 2011....Benjamin David to **Sara Burchell Kestner** '00 and Cory Kestner on Nov. 2, 2011....Luke Henley Juhn Ho to **Tanya Henley Lam** M.S.N. '00 and **Gordon Ka Wing Lam** M.D. '01 on Oct. 14, 2011....Lainey Mia to **Dana Ehrlich Miller** '00 and **Daniel A. Miller** '00 on Dec. 7, 2011....Corbin Chao to **Ryan S. Reed** '00 and **Susan Chao Reed** '99 on Nov. 18, 2011....Isaac Robert to **Alexis Heiden Stauss** '00 and **Jared M. Strauss** '00 on Jan. 28, 2012....Sahana Kanchana to **Priya Ramaswami Baraniak** B.S.E. '01 and **Andrew P. Baraniak** Ph.D. '06 on Sept. 9, 2011....Elle Madison to **Jana Gasn Beauchamp** '01 and **Kyle Beauchamp** '02 on Jan. 27, 2012....Twins, Lillian Claire and Madeline Grace to **Brian Brockett** '01 and **Julie Doty Brockett** '01 on Aug. 11, 2011....Margaret Kay to **Shelly Renee Culpepper** M.B.A. '01 and John S. Culpepper on March 20, 2011....Brooke Elizabeth to **Lauren Nuechterlein Louis** B.S.E. '01 and Andy Louis on Dec. 10, 2011....Cameron Leigh to **Mandi Silberman Mielke** '01 and Brian Mielke on Jan. 19, 2012....Marcelle Vivienne to **Joseph M. Miller III** '01 and Patricia K. Miller on Nov. 7, 2011....Ruby Abigail to **John Douglas Reid** '01 and **Pamela Wells Reid** '01 on Nov. 8, 2011....Hadley Mae to **Jason S. Taub** '01 and **Sarah Plavner Taub** '01 on Feb. 7, 2012....Jackson Richard to **Kevin T. Chu** '02, M.B.A. '08 and Lara Oliver Chu on Jan. 19, 2012....Twins, Thomas Joseph Grocki and John Adams Grocki, to **Christopher M. Grocki** B.S.E. '02 and **Rebecca J. Tomlinson** '02 on Jan. 11, 2012....Lauren Elizabeth to **Jaclyn E. McGowan Hanifen** B.S.E. '02 and Thomas J. Hanifen on Oct. 23, 2011....Afedi Elijah to **Naakoshie G. Lamptey Nartey** '02 and Emmanuel Nartey on Jan. 15, 2012....Logan Robert to **Aaron E. Salsberg** '02 and **Jodi Schlesinger Salsberg** '03 on Jan. 11, 2012....Greta Katharine to **Samuel S. Wellman** M.D. '02 and **Danielle Lemuth Wellman** H.S. '09 on Dec. 23, 2011....Eva Lynn to **Gregory C. Collison** B.S.E. '03 and Amanda Collison on Jan. 30, 2012....Ella Torii to **Russell Richards** '03 and **Sara Zielske Richards** '03 on Feb. 25, 2012....Mackenzie Carol to **Jamie Krzyzewski Spatola** '03, M.A. '10 and Christopher M. Spatola on Jan. 4, 2012....Zachary Stephen to **Lori Peacock Blasdel** '04 and Steve Blasdel on

'05

Jennifer Beall '05 is the founder and CEO of CleanBee-Baby, an eco-friendly cleaning, installation, and repair service for baby car seats and strollers. She devised the company's business plan while earning an M.B.A. in marketing and entrepreneurship from the Kellogg School of Management at Northwestern University. Based in Los Angeles, the business was profiled in a spring 2012 issue of *Entrepreneur* magazine.



Neilhan Mandel

CHANGEAGENT



Joey McMahon '09

Dollar by Dollar

After his beloved grandfather died of bone cancer in December 2009, Joey McMahon felt compelled to do something constructive with his grief. His soul-searching led him back to Durham, where he launched The Monday Life, a nonprofit that works to improve the treatment experience for children in hospitals.

"All my life I've had the feeling that I wanted to do something good for other people, but I was never really sure of how to go about it," says McMahon, recalling how his mother, Robin, had volunteered at Duke Children's Hospital painting scenes on windows. In its pilot year, The Monday Life raised almost \$50,000, which has been used to provide iPads for children and their families at the Duke hospital, expand music and art-therapy programs, provide massage therapy for parents, and sponsor a summer camp.

The idea behind The Monday Life is that donors sign up to give one dollar every Monday. "Most people hate Mondays, but when you think about it, Mondays are one-seventh of your life, so why not turn that day into something positive? That's a simple commitment, and it can do a world of good," says McMahon.

McMahon is enrolled in the M.B.A. program at the Fuqua School of Business to learn more about expanding The Monday Life model on a national and international scale. He's already negotiated to bring The Monday Life to five other locations this year.

"My long-term goal is to help as many children as possible heal faster," he says. "We are looking to expand this internationally including places where hospitals lack basic supplies. There's no limit to how much good we can do, one dollar at a time."

Feb. 29, 2012...Emma Michelle to **Brad L. Dolian '04** and **Lauren Michelle Dolian '05** on Nov. 30, 2010... Robert Broyhill to **Laura Beach Dugan '05**, J.D. '08 and **Brendan C. Dugan M.B.A. '07** on July 9, 2011...Owen Dain to **Kyle D. Eckermann M.B.A. '05** and **Robyn Adair Eckermann M.B.A. '05** on Jan. 14, 2012...Sydney Marie to **Lauren Troyer Saternus '06** and **Matthew J. Saternus '06** on March 1, 2012.

2010s

MARRIAGES: **Andrew L. Simon M.B.A. '11** to Andrea Fischer on July 11, 2011. Residence: Cincinnati...**Nicholas L. Simon J.D. '11** to Jennifer Von Deylen on Aug. 20, 2011. Residence: Lexington, Ky.

BIRTH: Yasmina Hatem Al-Shihabi to **Hatem Al-Shihabi M.B.A. '11** and Lana Dajani on Feb. 29, 2012.

INMEMORIAM

Nellie Boone Coon R.N. '35 of Springfield, Va., on March 29, 2011. She is survived by a son, a daughter, two sisters, a brother, two grandchildren, and a great-granddaughter.

Alma Mewborn Herb '35 of Wyomissing, Pa., on Feb. 7, 2012. She was a member of the Chapel Choir and received her degree in education. She worked in the Wilson school district as an English teacher and guidance counselor until her retirement in 1980. She is survived by a son; a daughter, **Barbara Herb Wright '58**; two brothers; a sister; five grandchildren; and eight great-grandchildren.

Janet Earl Miller '35 of Greensboro, Vt., on Jan. 6, 2012. She was an editor of the Quaker Oats Co. magazine and wrote stories for the radio show *The Lone Ranger*. Survivors include two daughters.

Harriet Way Shealy '35 of Columbia, S.C., on Feb. 1, 2012. She was the president of the Women's Auxiliary to the Columbia Medical Society, the Women's Auxiliary to the South Carolina Medical Association, and the local and state chapters of the Daughters of the American Revolution. She was also chair of the board of trustees for the Columbia YWCA. She is survived by a daughter, **Attelia Shealy Blackard '61**; a son; five grandchildren; and nine great-grandchildren.

Sue Massenburg Starr R.N. '35, B.S.N. '40, of Towson, Md., on March 23, 2011. She is survived by a son.

Georgia "Garnett" Goodson Saunders '36 of Winston-Salem, on Dec. 6, 2011. She was a member of the Philocalian Book Club, the Dogwood Garden Club, and the Winston-Salem Debutante Committee, and served on the board of the Child Guidance Clinic. She is survived by two sons, two daughters, a brother, 10 grandchildren, and 14 great-grandchildren.

Margaret Ormond Hardin '38 of Winston-Salem, on Dec. 8, 2011. She was an elementary-school teacher. She is survived by two sons, **Marvin O. Hardin '66** and **Elliot W. "Wannie" Hardin Jr. '62**, M.Div. '67; two daughters;

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a daughter-in-law, **Carol Whetstone Hardin** '68; a sister; seven grandchildren, including grandson **Edward Miles Hardin** '93; and 12 great-grandchildren.

Howard C. Ris Sr. '38 of Golf, Fla., on Jan. 11, 2012. He worked with his father at their printing paper-distribution company (first Keith Products, then Ris Paper Co.) in New York before serving in World War II with the Army Intelligence Corps. After the war, he continued at Ris Paper, eventually becoming president and CEO. He is survived by a son, **Howard C. Ris Jr.** '70; a daughter; five grandchildren, including **Elisabeth "Lillie" Marie Ris** '06; and two great-grandchildren.

C. Curtis Collins Jr. M.D. '40 of Jacksonville, Fla., on Dec. 14, 2011. He was a full commander in the Navy during World War II on the USS *Missouri* before completing his residency in general surgery at Cincinnati General Hospital. He was also chief of staff at St. Luke's Hospital in Jacksonville. He is survived by his wife, Mercy; a daughter; a son; a sister; and several grandchildren and great-grandchildren.

Ida Leane Warren Flax A.M. '40 of Potomac, Md., on Sept. 26, 2011. She worked as a cryptanalyst during World War II and deciphered coded messages for the Army in Virginia. She was also a member of the Piasecki Helicopter Corp., where she helped develop the tandem-rotor helicopter, or the "flying banana." She is survived by her husband, Alexander; a daughter; and two brothers.

Gustav F. Forssell '40 of Queens, N.Y., on Nov. 29, 2011. He earned his degree in mathematics and was a member of Phi Kappa Sigma and the Duke Players. Survivors include two sons and two daughters.

Mary McCart Hildebrandt A.M. '40 of Dayton, Ohio, on Nov. 27, 2010. She taught language arts in Tennessee and Dayton. Survivors include a son and a daughter.

William D. Peters Sr. '40 of Paramus, N.J., on March 29, 2011. He was a sales manager for International Paper Co. in New York for 35 years and served in the Army in World War II. He is survived by a son.

James W. "Bill" Bew II '41, M.E. '41 of Stuart, Fla., on Jan. 8, 2012. He was a manager of engineering for 35 years at Trans World Airlines and served in World War II as an Army Air Corps captain. He is survived by a son, a daughter, a sister, three grandchildren, and three great-grandchildren.

Mary Elizabeth Bunce '41 of Bernardsville, N.J., on Dec. 18, 2011. She majored in economics and was a substitute teacher in the Bernardsville and Basking Ridge school systems in New Jersey. She volunteered as a life guard at the YMCA and with the Visiting Nurse Association. She is survived by four daughters, three grandchildren, and a great-grandchild.

Ruth Stockdale McClure '41, A.M. '42 of Suwanee, Ga., on Jan. 11, 2012. She was a member and honorary secretary of the Shakerag Hounds Hunt Club. At Duke, she received her degrees in chemistry and was a member of Alpha Phi. She is survived by a daughter, two sons, two grandchildren, two step-grandchildren, and 11 great-grandchildren.

Leonora Hall McEnerney '41 of Clearwater, Fla., on Dec. 5, 2007. She is survived by a son, two grandchildren, and five great-grandchildren.

Robert H. Moyer '41, of Harrisburg, Pa., on Jan. 30, 2012. He was a member of the first basketball team to play in Cameron Indoor Stadium and was employed with DuPont from graduation until retirement in 1979. He worked in dyes and chemicals, marketing, and, during World War II, he was the company's representative on the Manhattan Project. He is survived by his wife, Ellen; a daughter; two sons; and two grandchildren.

Frances Freiler Nobles '41 of Hazlehurst, Miss., on Jan. 25, 2012. She was bookkeeper and eventual manager of her father's cattle company in Hazlehurst, as well as a Daughter of the American Revolution and member of the Hazlehurst Garden Club. She is survived by three daughters, including **Russell Ann Nobles** '69 and **Susan Nobles Smith** '73; a son; a sister; and four grandchildren.

Donald R. "Dick" Beeson Jr. B.S.C.E. '42 of Johnson City, Tenn., on Jan. 9, 2012. He enrolled at Duke at the age of sixteen and served as a Navy lieutenant during World War II. He then joined his father's practice, Beeson & Beeson Architects (now Beeson, Lusk & Street), and was thought to hold the oldest active architectural license in Tennessee. He is survived by a son, a daughter, two sisters, six grandchildren, and five great-grandchildren.

Virginia Haile Ramsey '42 of Baltimore, on Jan. 27, 2012. She taught mathematics at Towson high school in the 1940s and was a member of the Towson United Methodist Church and the Girl Scouts of Central Maryland. She is survived by her husband, Wilbur; two sons; two daughters, including **Catherine Ramsey Kane** '69; three grandchildren; and a great-grandson.

Frederick H. Berry '43, M.F. '44 of Columbus, Ohio, on Jan. 14, 2012. He worked with the U.S. Department of Agriculture for 37 years until his retirement in 1983. He was also a member of the Society of American Foresters. He is survived by his wife, Norma; a son; a sister; a grandson; and two great-grandchildren.

Douglas V. Henshaw '43 of Morristown, N.J., on Feb. 1, 2012. He served in the Army Air Corps during World War II in England and France before beginning his career with N.J. Bell Telephone and AT&T. He is survived by his wife, **Helen Brinson Henshaw** '43; two sons; seven grandchildren; and a great-granddaughter.

Robert R. Lassiter Jr. '43 of West Yarmouth, Mass., on Sept. 24, 2011. He majored in English and was a member of Sigma Phi Epsilon. He is survived by his wife, Beatrice; a son; and a daughter.

Iris Melton Whitaker B.S.N. '43, R.N. '43 of Fuquay-Varina, N.C., on Jan. 22, 2011. She was a nurse at Lenox Baker Children's Hospital in Durham and a charter member of Binkley Baptist Church in Chapel Hill. There, she was a member of the AIDS care team and caretaker of the sanctuary. She is survived by three daughters, a son, seven grandchildren, and a great-grandchild.

Richard N. Wrenn '43, M.D. '47 of Anderson, S.C., on Jan. 26, 2012. He served as a lieutenant in the Navy before becoming the director of Or-

thopaedic Services for Carolinas Health. He was elected to the National American Orthopaedic Association, after bringing hip-joint replacement to the Southeast and establishing orthopaedic clinics in several countries in the developing world. He is survived by his wife, **Doris Bain Wrenn** R.N. '48; three sons; eight grandchildren; and three great-grandsons.

George B. Halperin Jr. '45 of Hanover, N.H., on Dec. 7, 2011. He was a hospital corpsman for the Navy during World War II and was awarded the Navy Commendation Medal and two Navy Unit Commendations during his 20 years of service. After the military, he was assistant principal of

Stowe High School and taught history in West Germany. He is survived by his wife, Kathleen; a son; two stepchildren; a sister; six grandchildren; and a great-grandson.

Doris Dill Holaday '45 of Indianapolis, on Jan. 17, 2012. She worked in fashion merchandising in New York for several years before earning a degree in library science at Rutgers University. She then worked as a high-school librarian in the Somerville, N.J., school district for 20 years. She is survived by two sons, a daughter, and 16 grandchildren.

Julian D. Sanger J.D. '45 of Richmond, Va., on Feb. 7, 2012. He practiced with Cutchins &

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Cutchins for several years, then was employed by the State Corporation Commission as a charter examiner for 31 years. He was also a member of Kiwanis and The Shepherd's Center. Survivors include a cousin and 10 nieces and nephews.

Lawrence B. Simons '45 of Hilton Head, S.C., on Dec. 29, 2011. He was the former assistant secretary of the Department of Housing and Urban Development and commissioner of the Federal Housing Administration under the Carter administration. He was named Man of the Year by the National Housing Rehabilitation Association in 1980 and admitted into the National Association of Home Builders Hall of Fame in 2002. Survivors include his wife, Annalou; a son; a daughter; a sister, **Ruth Simons Weisgal** '57; four grandchildren; and five great-grandchildren.

Maurice Kenneth M. Starr '45 of Bloomfield, Conn., on Dec. 4, 2011. He was an intelligence officer in the Navy and taught in China at the Tsingtao American School from 1947 to 1948. He was active in several professional museum organizations and was curator of Asiatic archaeology and ethnology at the Field Museum in Chicago for more than 10 years. He is survived by his wife, Betty, and a daughter.

Robert L. Weaver '45 of Jacksonville, Fla., on Jan. 15, 2012. Survivors include a niece.

Deane Kern Barbour '47 of Northfield, Minn., on Dec. 23, 2011. She was a summer camp counselor and continued her dedication to summer camp by recruiting young men she

thought would benefit from camp experiences and finding scholarships, clothing, and transport for them. She was a teacher and deacon at the United Church of Christ. She is survived by her husband, **Ian G. Barbour** A.M. '47; two sons; two daughters; a brother; and three grandchildren.

W. Lester Brooks Jr. M.D. '47 of Charlotte, on Jan. 14, 2012. While working toward his medical degree at Duke, he played on the golf team and later became a lifetime member of the Iron Dukes. He was a first lieutenant in the Army during the Korean War. After a career in medicine, he established the Brooks Laboratory for Back Pain Research at the Carolinas Medical Center in Charlotte and a chair in rheumatology at Duke University School of Medicine. He was also a member of the North Carolina Medical Society and president of the Mecklenburg County Medical Society. He is survived by his wife, Patty; a son, **William L. Brooks III** '76; two daughters, including **Janet Brooks Dudley** '73; a brother-in-law, **Benjamin M. Frizzell** B.S.E.E. '57; six grandchildren, including **John Brooks Dudley** '10; and two great-grandchildren.

Jack G. Goss '47 of Claremont, Calif., on Oct. 1, 2011. Survivors include a daughter.

Marjorie Caveness Hales '47 of Raleigh, on Jan. 24, 2012. She majored in zoology and worked in the zoology department at N.C. State University. She is survived by two sons; a daughter; a sister, **Betty Caveness Edens** '50; a brother-in-law, **John C. Edens** '50; six grandchildren; a niece, **Brenda Edens Kerr** '75; and

a cousin, **Doris Caveness Kirk** '48, and her husband, **William D. Kirk Sr.** '48.

Frank B. Hornor '47 of Richmond Hill, Ga., on Dec. 15, 2011. He was a lieutenant in the Navy during World War II. He worked in the banking industry for 40 years, retiring as senior vice president at First Virginia Bankshares Corp. He volunteered for the American Heart Association and the American Cancer Society. He is survived by a daughter, a son, a brother, eight grandchildren, and three great-grandchildren.

Barbara E. Peterson Lohrstorfer R.N. '47 of Battle Creek, Mich., on Jan. 16, 2012. After completing her nursing degree, she completed an additional year of premed education at Duke before women were removed from the program at the end of World War II. She was a nurse at several hospitals, a member of the Texas Skydiving Club, and president of the Battle Creek Women's Football Club. She is survived by her husband, John; eight sons; a daughter; 24 grandchildren; and 22 great-grandchildren.

N. Ellen Goforth Montero R.N. '47, B.S.N. '48 of Rutherford County, N.C., on Jan. 20, 2012. She won the Bagby Award in pediatrics as top senior nurse while at Duke, eventually teaching nursing at the Medical College of Georgia. She was a Red Cross volunteer, a former president of the Utility Club, and a charter member of the Griffin Spalding Historical Society. She is survived by a son, a daughter, a sister, five grandchildren, and two great-grandsons.

John C. Morfit Jr. '47, of Cary, N.C., on Feb. 5, 2012. He served in the Navy and was an editor with the Federal Broadcast Information Service in Kauai, Hawaii, and Okinawa before transferring to the Central Intelligence Agency. He worked with the CIA for 35 years, first as an editor, then as the executive, for the scientific technology analysis group and was awarded the Career Intelligence Achievement Medal. He is survived by his wife, Gail; a daughter; two sons; two stepdaughters; a stepson; 14 grandchildren; and a great-grandchild.

Harold D. Spears J.D. '47 of Ironton, Ohio, on Feb. 8, 2012. He was a Navy lieutenant and gunnery officer during World War II and received a Letter of Commendation for valor during the invasion at Luzon, when he shot down a suicide plane diving at his ship. He practiced law and received the Ohio State Bar Foundation's Honorary Life Fellowship Award. He is survived by his wife, **Wanda White Spears** R.N. '47; two sons, including **Harold C. Spears** '76, J.D. '79; two daughters; nine grandchildren; and six great-grandchildren.

Robert C. Welsh M.D. '47 of Miami, on Jan. 8, 2012. He launched the Volunteer Eye Surgeons Association, developed a portable eye-operating microscope, and went on mission trips to the Philippines, Haiti, Jamaica, and other areas. He won the Honor Award from the American Academy of Ophthalmology and the Maumenee Gold Award from Baylor College of Medicine for excellence in cataract-surgery education. He is survived by his wife, Judi; two sons; and a sister.

Mary Jean Armistead '48 of South Roanoke, Va., on Nov. 27, 2010. She worked in Washington for 32 years, serving much of her time as the chief legislative assistant for six congressmen and a senator. Survivors include a niece, **Amanda Jean Smith** '96.

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Lillian M. Bryson Campbell '48 of Lynchburg, Va., on Dec. 24, 2011. She was an elementary-school teacher with the Lynchburg public school system for 40 years, as well as one of the first female graduates of Duke. She was also a member of the Quaker Memorial Presbyterian Church and the Lynchburg Retired Teachers Association. She is survived by two daughters, three grandchildren, and four great-grandchildren.

Noble J. David '48, M.D. '52 of Jacksonville, Fla., on Nov. 30, 2011. He was a medic during the Korean War in Fukuoka, Japan. He was a professor of neurology at the University of Miami and chief of the neurology service at Jackson Memorial Hospital. Survivors include two sons, including **Jonathan N. David** '87; two daughters; a sister; a brother-in-law, **John M. Howell** Ph.D. '54; a granddaughter, **Lisa Kathleen David** '14; four nieces, including **Lisa Howell Neal** '78 and **Christiane E. Stahl** M.D. '79; four nephews, including **Clifford B. David** '68, M.D. '72, **Richard J. David** M.D. '74, **David N. Howell** '76, M.D. '80, Ph.D. '82, and **Joseph L. Howell** '79; and a great-nephew, **Charles J. David** '01.

Enid Troxler Dula R.N. '48 of Winston-Salem, on Jan. 12, 2012. She was a nurse in the medical department of the R.J. Reynolds Tobacco Co. in Winston-Salem and a member of the North Carolina Nurses Association. She is survived by a son, a grandson, and two great-grandchildren.

Zeno L. Edwards Jr. '48 of Washington, N.C., on Aug. 20, 2011. After serving in the Navy, he practiced dentistry for many years. He later served four terms in the N.C. General Assembly, where his main contributions were made in the healthcare field. He is survived by his wife, **Rosemarie Wilson Edwards** '49; three sons, **Zeno L. Edwards III** '74, **Thomas W. Edwards** '79, and **Seth H. Edwards** '87; a daughter; a sister, **Lucinda Edwards Minton** '50; 12 grandchildren; and a great-granddaughter.

Patricia Reuter Hawkins '48 of Fort Myers, Fla., on Dec. 12, 2011. She was a bookkeeper and a volunteer for Hospital Women's Auxiliary and the Welcome Wagon. She was a member of The Red Hat Society and the Rosary Society. She is survived by eight sons, a daughter, a sister, and numerous grandchildren and great-grandchildren.

Henry L. Shapiro B.S.M.E. '48 of Palm Beach Gardens, Fla., on Aug. 2, 2011. He was a member of Zeta Beta Tau. Survivors include his wife, **Fay Rees Shapiro** '50.

Mary Katheryne Jordan Corrigan '49 of Tampa, Fla., on Dec. 2, 2011. She was an underwriter for Poe & Associates. She volunteered with the Girl Scouts and Boys Scouts and the Tampa General Hospital Healthpark clinics, where she provided translation services. She is survived by a son; a daughter, **Katheryne R. Doughty** '80; a sister, **Margaret Jordan Stevens** '53; and two granddaughters.

David O. Speir '49 of Greenville, N.C., on Jan. 18, 2012. He served in the 1885th Engineer Aviation Battalion during World War II, stationed in Guam and Okinawa, before graduating from Duke. He was president and CEO of Bethel Manufacturing Co. in North Carolina and later served on the board of trustees for Pitt Memorial Hospital, Pitt Industrial Relations Board, and the Pitt

County Development Commission. He is survived by his wife, **Betty Smith Speir** '49; two daughters; and eight grandchildren.

John P. Briggs HS '50 of Amherst, Mass., on Nov. 28, 2011. He became the senior resident psychiatrist at the Wisconsin School for Boys in Waukesha after four years in the Navy. He was also the chief psychiatrist and clinical director at Children's Village in Dobbs Ferry, N.Y. He served as chair of public information for the American Academy of Psychoanalysis and editor of its journal, *The Academy*, for several years. He is survived by two sons and two grandsons.

Eugene C. Drozdowski A.M. '50, Ph.D. '64 of Winston-Salem, on Dec. 29, 2011. He taught history at Appalachian State University before his retirement in 1986. He received a Purple Heart for his service in the Pacific during World War II. He is survived by three daughters, including **Catharine Isabella Drozdowski** '79; a son; a brother; and a granddaughter.

Fred A. McNeer Jr. '50 of Charlotte, on Jan. 27, 2012. He served in the Navy at the end of World War II and was called back for two years during the Korean War. He was a real-estate appraiser and commercial real-estate loan solicitor and worked with what is now Bank of America for 25 years before retiring in 1990. Survivors include several cousins.

Betty Swofford Turner M.R.E. '50 of Maryville, Tenn., on Nov. 21, 2011. She was a member of the Holston Conference of the United Methodist Church and served as minister of music

at several Methodist churches. She was also the administrator of Asbury Acres Retirement Community in Maryville for 20 years. She is survived by two daughters and a granddaughter.

Louis H. Adcock '51, A.M. '53 of Wilmington, N.C., on Nov. 18, 2011. He received his degrees in chemistry and went on to teach the subject at UNC-Wilmington for 47 years. He is survived by three daughters, two sisters, and two grandsons.

James E. Dimmette M.D. '51 of Las Vegas, N.M., on Oct. 23, 2010.

Ernest D. Eppley '51 of Boone, N.C., on Dec. 5, 2010. Survivors include his wife, Anita, and three sons.

Charles W. Griffin '51 of West Jefferson, N.C., on June 3, 2010.

Robert F. McLeod '51 of Southern Pines, N.C., on March 11, 2011. He majored in economics and became an accountant for Exxon petroleum. He is survived by his wife, Jean; two daughters; a son; and a brother.

John W. Snow '51, M.D. '55 of Jacksonville, Fla., on Dec. 11, 2011. In 1964, he became the first hand surgeon in Jacksonville. He published more than 40 different articles in medical journals and created a number of medical techniques that bear his name. He is survived by his wife, Patricia; two sons; three daughters, including **Stefanie Hunter Snow** '87; and a son-in-law, **Jeffrey B. Coopersmith** '86.



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Ruthann Imler Wood '51 of Jacksonville, Fla., on Oct. 2, 2011. She was president of the sophomore Woman's College class and a member of Kappa Alpha Theta and the cheerleading squad. After Duke, she became a member of the Laurel Garden Circle, the Tale Spinners Book Club, and the Audubon Society. She is survived by two daughters; a son; five grandchildren; and a niece, **Lee Clark Johns** '64.

James Edwin Fisher '52 of Henderson, N.C., on Dec. 4, 2011. He served in the Navy during World War II. He was a project manager for the Vance County schools. He is survived by his wife, Mary; a son; three brothers; two grandchildren; and three great-grandchildren.

Nancy Wright King R.N. '53 of Shelby, N.C., on Dec. 7, 2010. Survivors include four daughters, three brothers, a sister, seven grandchildren, and four great-grandchildren.

Page D. Huckabee Link '53 of Silver Spring, Md., on Dec. 27, 2011. She is survived by two daughters; a sister; a brother; four grandsons; and an aunt, **Alice Huckabee Crowell** '32.

Mervin Swing Jr. '53 of Tucson, Ariz., on Nov. 3, 2011. Survivors include his wife, Mary.

James E. Vann '53, M.A.T. '54 of Wilmington, N.C., on Feb. 1, 2012. He served in the Marine Corps as a captain and later became the founding president of Samson Community College, where he was employed for 10 years. He was also executive director of a NASA science and technology research center. He is survived by his wife, **Martha Curlee Vann** '55; two daughters; and five grandchildren.

Robert W. Bradshaw Jr. '54, LL.B. '57 of Raleigh, on Jan. 20, 2012. He helped found one of Charlotte's largest law firms, Robinson, Bradshaw & Hinson, in 1960. He worked closely with former Gov. Jim Martin, who then helped Bradshaw become the state Republican Party chair. He is survived by his wife, Janet; a son; a daughter; two brothers; three grandchildren; and five step-grandchildren.

Ronald D. Ertley '54 of Wilkes-Barre, Pa., on Jan. 7, 2012. He served in the Air Force and retired as a captain before directing the Pennsylvania Automobile Association and founding Tech Aviation and Ertley MotorWorld (now MotorWorld), a large auto dealership. He is survived by his wife, Carole; three daughters; a son; two sisters; and four grandchildren.

Richard B. Hood '54 of Albuquerque, N.M., on Jan. 25, 2012. He taught at Colorado State University and the University of New Mexico before retiring in 1993 after serving as the chair of the speech and hearing sciences department for seven years. He then started a hearing-aid business from home. He is survived by his wife, Suzanne; two daughters; a sister; a brother; and four grandchildren.

John D. Johnston Jr. '54, LL.B. '56 of Hendersonville, N.C., on Dec. 18, 2011. After a brief career with J.P. Morgan & Co., he taught at Duke law school and at New York University law school until he retired in 1990 as professor emeritus. He specialized in property law and land-use regulation and was a champion of gender equality. He is survived by his wife, Diana; five daughters; a son; two stepdaughters; a sister, **Aileen Johnston Trollinger** '54; 17 grandchildren; and a great-grandson.

Ernest C. "Johnny" Long HS '54 of Antigua, Guatemala, on Sept. 2, 2011. He served in the British Royal Air Force during World War II. After spending a sabbatical in Guatemala to help develop its medical infrastructure, he remained to continue his work in medicine. He also published a collection of fiction in 2009 and worked to establish a library in Antigua. Survivors include his wife, Annette.

Anne Williams McAllister '54 of Hickory, N.C., on Nov. 6, 2010. She helped spearhead the fundraising and restoration of Caldwell County's Fort Defiance, home of Revolutionary War General William Lenoir. She received two publishing awards from the North Carolina Genealogy Society, in addition to having eight of her publications selected for the North Carolina Collection at UNC-CH. She is survived by three sons and two grandsons.

Graham T. Rowley '54 of Salisbury, Md., on Feb. 1, 2012. He was an officer in the Air Force and a member of the Chapel Choir and Glee Club at Duke. He is survived by a son, **Daniel T. Rowley** B.S.E. '86; a daughter; a brother; a stepbrother; a stepdaughter; and two grandsons.

Marshall R. "Cass" Cassidy Sr. LL.B. '56 of Tallahassee, Fla., on Dec. 5, 2011. He retired from the Marine Corps as a lieutenant colonel before joining Turnbull & Senterfitt in Orlando, Fla. He also established McFarlain & Cassidy in 1980, retiring in 1996 after holding several positions, including president of the Florida Society of Association Executives. He is survived by his wife, Donna; two sons; two daughters; and 11 grandchildren.

Hugh H. Crawford HS '56 of Palm Springs, Calif., on Oct. 25, 2009. He was a pioneer in hand trauma and reconstructive surgery and was a field surgeon with the Marine Corps during the Korean War. He also volunteered two civilian tours in Vietnam before opening his own practice in 1969, where he stayed until his 1996 retirement. He is survived by his partner, Patrick Daltroff, and a sister.

Robert M. Graper '57 of Durham, on Jan. 15, 2012. He worked for the Research Triangle Institute in the office of human resources until his retirement in 1998, when he began work for the Durham Habitat for Humanity as a member of the "Geezers." He was active in the Durham Chamber of Commerce and the American Red Cross. He is survived by his wife, Jane; a daughter; a son; a sister; a brother; three grandchildren; and several nieces and nephews, including **Karen Griffin Tyrrell** '84.

James R. Warbasse HS '57 of Baltimore, on Jan. 7, 2012. He was the chief of cardiology at the former U.S. Public Health Service Hospital in Wyman Park and contributed many articles to medical literature concerning the evaluation and treatment of coronary heart disease. He is survived by a daughter, three sons, and five grandchildren.

Robert H. Knight B.S.M.E. '58 of Oxnard, Calif., on Jan. 4, 2012. He worked for NASA's Moon Discovery Program, working on the design of the first moon landing and the original "golf cart" left on the moon. He was also an electronics engineer for the Department of Defense, the Navy, and the Pacific Missile Range Facility in Kauai, Hawaii. He is survived by his wife, Connie; two daughters; a son, **Robert A. Knight** B.S.E. '73; a stepdaughter; two stepsons; 14 step-grandchildren; and four step-great-grandchildren.




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John P. Boineau M.D. '59 of St. Louis, on Nov. 7, 2011. A longtime cardiologist and professor for the School of Medicine at Washington University, he is survived by his wife, Wanda; two sons; three daughters, including **Robin Elizabeth Boineau** HS '96; two brothers; and four grandchildren.

Arthur C. Chandler Jr. M.D. '59 of Durham, on Dec. 25, 2011. He was Duke's public-address announcer for 40 years of basketball games beginning in 1970, at which time Cameron Indoor Stadium was called Duke Indoor Stadium. He was also a colonel in the Army Reserve and a professor emeritus of comprehensive ophthalmology at UNC-CH. He is survived by his wife, Sarah; three sons; a daughter; a stepdaughter; and 10 grandchildren.

Joseph A. DeAngelis Sr. B.S.M.E. '59 of Ocean View, Del., on Jan. 17, 2012. He received his degree in mechanical engineering. He enjoyed boating later in life, held a captain's and master's license, and was a member of the Paulsboro Road Rods, a hot-rod enthusiasts' group. He is survived by his wife, Lois; two sons; a sister; and six grandchildren.

Joseph W. Dowless '59 of Charlotte on Nov. 30, 2011. He served in the 82nd Airborne Division of the Army. He worked in sales and management for American Scientific Products. He was a volunteer for Habitat for Humanity, Charlotte Rescue Room, and his church. He is survived by his wife, Carolyn; two daughters; a son; and four grandchildren.

Charles P. Hayes Jr. M.D. '59 of Jacksonville, Fla., on Dec. 10, 2011. He had a practice in nephrology at Riverside Clinic in Jacksonville. He was a driving force behind the establishment of north Florida's first free-standing kidney dialysis clinic and helped develop renal care in Florida. He also served as chair of the Medical Advisory Board for Northeast Florida. He is survived by his wife, **Jo Moore Smithwick Hayes** B.S.N. '58; a daughter; a son; a sister; and two grandchildren.

M. Eleanor Craig Snellings Ph.D. '59 of Richmond, Va., on Dec. 7, 2011. She was an associate professor emerita of economics at Virginia Commonwealth University, where she taught from 1966 to 1992, and an economist in the research department at the Federal Reserve Bank of Richmond. She is survived by a son, a brother, and two granddaughters.

Bruce W. Soule '59 of Frankfort, Mich., on Dec. 8, 2011.

Elizabeth "Betty Ann" Marston Atkinson B.S.N. '60 of Fort Walton Beach, Fla., on Dec. 22, 2011. She was a registered nurse for more than 20 years and held several positions, including director of cardiac rehab and Senior Friends at HCA Twin Cities Hospital. She is survived by three daughters and seven grandchildren.

Willis Hines Jr. '60 of Newport, N.C., and Boone, N.C., on May 16, 2010. He is survived by his wife, Barbara; four daughters; a son; a brother; and 13 grandchildren.

Abraham D. Kriegel A.M. '60, Ph.D. '65, of Memphis, Tenn., on Jan. 18, 2012. He was a chair of the history department he helped build at the University of Memphis. He also helped develop the Marcus Orr Center for the Humanities and the Bornblum Judaic Studies Program. He won a Guggenheim Fellowship and was published in sev-

eral literary magazines. He is survived by his wife, Reva; two daughters, including **Miriam Suzanne Kriegel** '94; a brother; a grandson; and two step-grandchildren.

Thomas J. Banton Jr. M.D. '61 of St. Louis, on Dec. 25, 2011. He was an orthopaedic surgeon and served on the staff of DePaul and Christian hospitals. He was also an associate with the Northland Orthopedic Group in St. Louis. He is survived by his wife, Martha; a daughter; a son; and five grandchildren.

Charles E. "Nick" Carter M.D. '62 of Santa Rosa, Calif., on Jan. 28, 2012. He served in the Navy and was a member of the Naval Officer Medical Corps, the American Medical Association, the Sonoma County Medical Association, the American Board of Radiology, and the Sonoma County Trailblazers, an equestrian group in California. He is survived by his former wife, **Joan M. Carter-Jones** P.T. Cert. '60; a daughter; two sons; a sister; and four grandchildren.

Gretchen Gimbel Durham '62, of Durham, on Jan. 11, 2012. She was a supervisor with the Centers for Disease Control and Prevention's AIDS Hotline and cofounder of the AIDS Community Residence Association. She founded a Teen/AIDS hotline in 1994 and earned multiple awards, including from UNC, the state, and the *Independent Weekly*. She is survived by two sons, a brother, and three grandchildren.

Joseph H. Enright '62 of Riverdale, N.Y., on Nov. 29, 2011. He taught English for the Peace

Corps in Ecuador. He was professor and director of career services at Lehman College. He is survived by his wife, Pilar; a son; a daughter; and a grandson.

Douglas J. Duskin '63 of Camden, S.C., on Jan. 9, 2012. He served in the Navy on the destroyers of the U.S. Pacific Fleet and the coastal patrol boats in the Mekong Delta during the Vietnam War and attained the rank of lieutenant commander while in the Navy Reserve. He was a geologist who explored and developed the Ridgeway gold deposit in Ridgeway, S.C., and developed and produced the Diavik Diamond Mine in Yellowknife, Canada. He is survived by his wife, Minna; a daughter; a son; his mother; three sisters; three brothers; and four grandchildren.

Jerry L. Jones M.D. '63 of Modesto, Calif., on Jan. 11, 2012. He was a captain in the Air Force and served two years in the Vietnam War. He was an Eagle Scout and the subject of two medical studies about lung cancer at Stanford University School of Medicine. He is survived by his wife, Martha; two sons; a daughter; and five grandchildren.

Marion P. "Spike" Spigener Jr. '63 of New Haven, Conn., on Dec. 8, 2011. He was director of advertising and manager of international and domestic marketing support with Sikorsky Aircraft until his retirement in 2001, at which time he became a volunteer with Yale-New Haven Hospital. He is survived by a sister.

Freeman A. Berne M.D. '64 of Sheldon, S.C., on Jan. 22, 2012. He served in the Air Force after graduating from Duke and later founded the Lumberton Radiological Associates in Lumberton,

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N.C. He is survived by his wife, Billie Jean; three sons; two sisters; and five grandchildren.

David M. Goodner '64, M.D. '68 of Chestnut Hill, Pa., on Jan. 25, 2012. A gynecologist and obstetrician for more than 30 years, he was president of the Obstetrics Society of Philadelphia and wrote many articles for various medical journals. He served in the Army Medical Corps in Korea and cofounded the Susan S. Teeter Award at Princeton for outstanding senior-year swimmers. He is survived by a daughter; a son, **Blake B. Goodner** '96; a daughter-in-law, **Lois Schragger Goodner** '01; two brothers; and three grandchildren.

Lois M. Nyberg Hinds '64 of Oak Park, Ill., on March 7, 2011. She is survived by her husband, Alan; a son; a daughter; a sister; and a granddaughter.

Francis F. "Mel" Manning M.H.A. '64 of New Iberia, La., on Dec. 13, 2011. He served in the Army in South Korea. He was CEO of Academic Physicians and Surgeons at the Medical College of Hampton Roads in Virginia. He was published in national medical journals and received the Harry J. Harwick Award for his contributions to health care. Survivors include his wife, Mary Jo; two daughters; two stepdaughters; and three granddaughters.

John Adam Shartle Jr. '64 of Wilmington, N.C., on July 17, 2011. He majored in Spanish and was a member of Lambda Chi Alpha while at Duke. He is survived by his wife, Sheila.

Robert A. Maxwell M.A.T. '65 of Rocky Mount, N.C., on Dec. 15, 2011. He worked for 30 years at the Seaboard Coast Line Railroad as an administrator and a locomotive engineer. He is survived by his wife, Patricia, and two sons.

Fred W. Hill Ed.D. '66 of Kernersville, N.C., on Feb. 4, 2012. He was a minister for 50 years and a member of Brower's Memorial Wesleyan Church in Asheboro, N.C. He was a professor at High Point University in High Point, N.C., for 16 years. He is survived by his wife, Doris; a son; a daughter; two brothers; six grandchildren; and a great-grandson.

Harry E. "Sid" Varney Ed.D. '68 of Columbia, S.C., on Nov. 21, 2011. He was the director at the University of South Carolina-Florence, the USC dean of applied and professional sciences, and the dean of nursing for several years. He received the Order of the Palmetto, South Carolina's highest civilian honor, in 1994. He is survived by his wife, Carmen; two sons; a brother; five grandchildren; and a great-granddaughter.

Linda Howard Muncy '70 of Potomac, Md., on Jan. 30, 2012. She was a Foreign Service officer with the U.S. Department of State for 27 years. She served in Montreal, Bangladesh, South Africa, Yemen, Washington, and Afghanistan. She is survived by her husband, Don; a son; a daughter; her father; and a sister.

Carlos M. Bray A.H.C. '71 of Macon, Ga., on Jan. 14, 2012. He was the first certified physician's assistant in Georgia and worked with the state Department of Corrections for 17 years. He is survived by his wife, Kathy; two sons; two daughters; and five grandchildren.

Roger R. Solomon '71 of Chicago, on April 27, 2011. He is survived by his wife, Jeri, and a sister.

Barbara Gail McCloskey '73 of New Castle, Del., on Jan. 18, 2012. She was a program coordinator at the Boys and Girls Club of America and a psychotherapist. She is survived by her husband, Don; two sons, including **Matthew I. McCloskey** '02; a daughter; a sister; and four grandchildren.

John A. Menefee Ph.D. '74 of Hattiesburg, Miss., on Dec. 8, 2011. He worked for Watson Wyatt Co., an international human-resources consulting firm, where he managed the analysis of global dissemination of compensation and human resource information. He is survived by his wife, Jean; two sons; and two granddaughters.

William A. Graham III M.F. '75 of Durham, on Jan. 11, 2012. He taught business law at N.C. State University as an adjunct professor. He also served on the Selective Service Board and was a member of the Society of the Cincinnati, a historical organization that seeks to preserve the ideals of the American Revolutionary War. He is survived by his wife, Karen; three sons; a daughter; a brother; and two grandchildren.

Benjamin Brunard Blaylock Jr. '77 of Albany, Ga., on Feb. 1, 2012. He served three years in the Air Force and wrote the original EMS Aide's Protocol for Dougherty County in Georgia. He was also past president at Jefferson Street Boys' and Girls' Club and past president of Merry Acres Middle School Parent-Teacher Organization. He is survived by his wife, Brenda; four daughters; four sisters; a brother; and four grandsons.

Wayne K. Ruth M.D. '79 of Alpena, Mich., on Jan. 27, 2012. He was a practicing physician in North and South Carolina before moving to Michigan to work as a pulmonologist and sleep-medicine specialist. He is survived by his wife, Elizabeth; a son; two stepsons; a brother; and a sister.

Susan Mazzola Ganz '80 of Boston, on Jan. 10, 2012. After several years in private practice, she did pro bono legal work for CASA, an organization that advocated for abused and neglected children. She is survived by her husband, Bryan; three daughters; and two brothers, including **Domenic E. Mazzola** B.S.M.E. '83.

John L. Goff Jr. Ed.D. '80 of Gastonia, N.C., on Dec. 7, 2011. He served in the Navy Reserve for two years. He was assistant superintendent for special services at Gardner Park Elementary School. He was elected Distinguished President of the Noon Optimist Club of Gastonia and volunteered for Habitat for Humanity and the United Way. Survivors include a son, a daughter, a brother, two sisters, four grandchildren, and two great-grandchildren.

Stephen B. Rhoades M.Div. '80 of Washington, W.Va., on Oct. 26, 2011. He was a United Methodist pastor in West Virginia for nearly 40 years. He is survived by his wife, Joanna; five daughters; a son; six grandchildren; and a great-grandchild.

Jennifer Hope Crabb '82 of Elk Grove, Calif., on Dec. 11, 2011. She worked with Weintraub

Genshlea & Sproul in Sacramento, Calif., as assistant general counsel of Dillingham Construction, and general counsel for Raley's Supermarkets. She is survived by her husband, Tony; two daughters; a son; her father, **Richard B. Crabb** '56; her mother; a sister, **Mary Wendell Crabb** '88; two brothers, including **Colin S. Crabb** '83; and a sister-in-law, **Mika Yoshino** B.S.E. '83.

Douglas J. Wagenaar A.M. '82, Ph.D. '85 of Los Angeles, on Oct. 18, 2011. He was an assistant professor of radiology at Harvard Medical School, as well as a senior research scientist at Siemens Medical Solutions in Chicago. He was also director of research at Gamma Medica in Los Angeles, where he practiced molecular breast-imaging for women. He is survived by his wife, Marty; a daughter; a son; his mother; and two brothers.

Gray W. Bennett '83 of Eaton, Ohio, on March 4, 2012. He was the third generation to practice and operate Bennett Law Offices, and owned and operated Gray's Inn Dairy Farm. He is survived by his wife, Debbie; three sons; a daughter; his mother; three sisters, including **Sarah Louise Bennett** '88; and a brother-in-law, **John Frederick Heuser** '88.

George S.E. Aitken HS '84, HS '88 of Durham, on Feb. 13, 2012. He was a fellow of the American Academy of Orthopaedic Surgeons, a member of the Piedmont Orthopedic Society, and an examiner for the American Board of Orthopaedic Surgery. He established the first outreach program for the Duke Division of Orthopaedic Surgery and Duke Private Diagnostic Clinic by starting Duke Orthopaedics of Person County. Survivors include his wife, **Martha Catherine Sizemore** B.S.N. '79, and two sons.

Patricia Woodward Partin Ed.D. '84 of Shelby, N.C., on Jan. 12, 2012. She was a teacher, school counselor, and college professor. She taught in the graduate counselor-education program at North Dakota State University and was active in state and national counseling organizations. She is survived by a sister, two nephews, and a niece.

Colin A. Rankine B.S.E.E. '85 of Ridgefield, Conn., on Dec. 11, 2011. He worked with IBM for 12 years as a technical marketer and consultant. He held senior management positions with Giga Information Group and Forrester Research, where he served as vice president of the computing infrastructures group. He is survived by his wife, Dawn; a son; two daughters; and two sisters.

Lisa Gershowitz Flynn '88 of New York, on Nov. 1, 2011. She worked at Simpson Thacher & Bartlett and at Merrill Lynch before becoming general counsel for Ipreo, an execution software and market intelligence company for investment banks and corporations. She is survived by her husband, John; a son; a daughter; her parents; and a brother.

Kenneth E. Lewis B.H.S. '89, M.H.S. '95 of High Point, N.C., on Jan. 9, 2012. He was a physician's assistant at Duke University Medical Center, Baptist Hospital, FirstHealth Moore Regional Hospital, and Moses Cone Hospital. He is survived by a brother.

Charles C. "Chris" Pressley '89 of Roanoke, Va., on Jan. 29, 2012. He was a banker in New

York before returning to school to study medicine and work with ACV Inc. He is survived by his wife, Ami; three daughters; his mother; his father; his stepparents; and a sister.

Larsen Chase Gregory '90 of Atlanta, on Jan. 22, 2012. She worked at Trust Company Bank and was a provisional member of the Junior League of Atlanta. She previously worked for the American Red Cross in Baltimore. She created, wrote, and published INK, the monthly newsletter for INVESCO/AMVESCAP in Atlanta. She is survived by her mother, **Meriel Mitchell Gregory** '64, and her brother.

Elena Lynn Lawrence '90 of Fort Collins, Colo., on Dec. 15, 2011. After receiving a law degree from the University of Virginia, she worked in Denver for the Securities and Exchange Commission. After being diagnosed with cancer, she sought to help other victims by acting as a peer mentor to struggling women. She is survived by her mother and her two brothers, including **R. Stephen Lawrence** '92.

Philip T.L. Conrad M.H.S. '96 of San Diego, on Nov. 15, 2011. He was an orthopaedic physician assistant and swim coach. He is survived by his wife, Sally; a son; a daughter; and two brothers.

Charles R. Harris '96 of Charlotte, on Jan. 1, 2012. He majored in English. He is survived by his father, **C. Marcus Harris** '65, J.D. '72; his mother; his aunt, **Ann L. Harris Matney** '74; his uncle, **Thomas A. Harris** '68, J.D. '71; and his grandmother, **Margaret Adams Harris** LL.B. '40.

Adam J. Horowitz '01 of West Caldwell, N.J., on Jan. 24, 2011.

Robert E. Kinder '08 of Raleigh, on Jan. 1, 2012. He is survived by his wife, Melissa.

Abhinav Kapur B.S.E. '09 of Prospect, Ky. He was a third-year medical student at the Pritzker School of Medicine at the University of Chicago. He had been involved in global health initiatives since his time at Duke and most recently was elected to the New Life Volunteering Society Free Health Clinic executive board. He is survived by his parents.

Matthew S. Hanger '11 of Richmond, Va., on Jan. 30, 2012. He was a business analyst at Capital One Financial, having graduated with a major in economics. He was ranked by the U.S. Tennis Association in the top 25 of the Middle States Region and the top 500 nationally. He is survived by his mother, **Luanne E. Thorndyke** '79; his father, **John R. Hanger** '79; a sister; and his grandmother.

DAA BOARD

Robert T. Harper '76, J.D. '79 of Pittsburgh, on Feb. 27, 2012. He was lawyer with Klett Rooney Lieber & Shorling and served on the board of directors and as vice president for administration, co-chair of the corporate practice group, and chair of the health-law practice group. When Klett Rooney merged with Buchanan & Ingersoll in 2006, Harper served as co-chair of the health-care section. He represented both profit and nonprofit entities throughout his career, aiding in acquisitions and corporate matters. He also advised corporations and boards in sales, financing, and reorganizations. He was listed in *The Best Lawyers in America* for corporate law and health law for 17 consecutive years and frequently spoke for the American Bar Association, the National Institute on Mergers and Acquisitions, and the Pennsylvania Bar Institute. He was named Pittsburgh Health Care Lawyer of the Year by *Best Lawyers* in 2010 and Pittsburgh Corporate Lawyer of the Year in 2012. At Duke, he graduated summa cum laude in 1976 before receiving his J.D. from the law school three years later. He was president of the Duke Alumni Association (1996-97) and a trustee (1997-98), as well as chair of the libraries board. He is survived by his wife, Susan; two daughters, including **Elizabeth Lane Harper** '06; and his mother.

Classifieds

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MISCELLANEOUS

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Retro

Royal Treatment

Duke put on its best for Princess Irene's visit. | By Valerie Gillispie

With an architectural style reminiscent of European castles, Duke's West Campus looks like a place where you might find a princess. And on a Sunday in January 1967, it was.

That day, Duke was visited by Her Royal Highness Princess Irene of Greece and Denmark, the twenty-four-year-old daughter of the late King Paul of Greece and younger sister of King Constantine II, the last of Greece's kings. An accomplished concert pianist, she had come to America as part of a six-week tour of the U.S., sponsored by the Lincoln Center for the Performing Arts in New York. But it was her friendship with two of Duke's most steadfast supporters, Mary Duke Biddle Trent Semans '39, Hon. '83 and James Semans, Hon. '99, that brought her to North Carolina.

The Semanses had met Princess Irene in Greece in 1965 at a dinner party at the home of Gina Bachauer, a well-known concert pianist who mentored the princess on piano. Bachauer had toured throughout the U.S., including visits to Duke's Department of Music, and was well-acquainted with the Semanses, who were active supporters of music performance and education. The princess shared their interests in music education, and the couple remained friendly with both women.

Princess Irene arrived in Winston-Salem on Saturday, January 28, 1967, where she toured the North Carolina School of the Arts with Mary Semans. From there, the entourage traveled to Durham. That evening, Duke senior John Ruggero '67 and music professor Paul Earls, among other musicians, performed a recital for the royal party at Pinecrest, the Semanses' estate in Durham.

On Sunday, the princess toured the Duke campus, with stops at Duke Chapel and carillon tower and the library's Biddle Rare Book Room, where she examined a collection of Greek manuscripts. A luncheon was held in the Old Trinity Room of the West Union building. Attendees included Duke administrators, North Carolina Gov. Dan K. Moore, U.S. Sen. Sam Ervin, Durham Mayor Wense Grabarek, and a number of prominent members of the Durham Greek community. The *Durham Herald* reported, "Several Greek dishes were served along with an entrée of Breast of Chicken Smithfield with supreme sauce. The princess, a vegetarian, was served a special egg dish." Following the luncheon, the princess met with more than 200 residents

of Greek descent and was served homemade Greek desserts by women of Durham's Greek community.

The most intimate brush with royalty, however, was reserved for two Duke students. Steve Sapp '68 and John Alden '67 were selected to serve as chauffeurs for the royal party, ushering the princess and her traveling companions from Winston-Salem and around campus.

The *Durham Sun* reported that the students "stated that they did not know why they were chosen for this honor, but both agreed that the experience had been most enjoyable and they were impressed by Princess Irene's informality and charm." One remarked that he was impressed the princess introduced herself to him at the Winston-Salem airport.

Mary Semans—a member of Duke's royal family in her own right—came away with a similar impression of Princess Irene's warmth and modesty. Semans described her in the *Durham Sun* as "so gracious and so informal—she just couldn't be easier to have around."

Though brief, the princess' visit stands out as an opportunity for Duke to highlight

The students "were impressed by Princess Irene's informality and charm."

THEN&NOW COMMENCEMENT

The General Assembly of North Carolina enacts a revised charter for **Normal College** (the predecessor of Trinity College and Duke University) that allows it "to grant such degrees and marks of honors as are given by Colleges and Universities generally." The first graduating class to earn college degrees totaled two: brothers

1852

Dougan and Lemuel Johnson of Trinity, North Carolina.

In the early days, Trinity College marked commencement with a party. Here, President John F. Crowell is pictured on an invitation to the 1888 commencement party.

1888



1931

Class of 1931 marches toward an unfinished Duke Chapel. Commencement moved from Page Auditorium to the chapel in 1932.



Duke University Archives

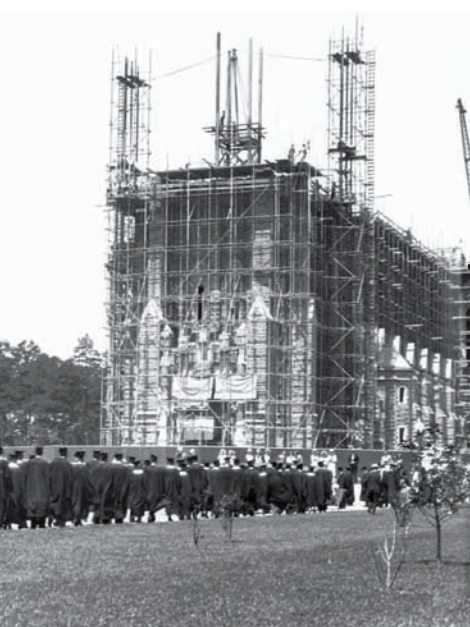
Regal: Princess Irene, holding purse, in front of Duke Chapel with a Duke-Durham contingent that included Mary Semans, second from left

its treasures and its ambitions to be recognized as a global university. It also brought a moment of glamour to a rapidly changing campus, where students were increasingly ac-

tive in Vietnam War protests and the civil rights movement. Duke was a place of debate and discussion—and often disagreement. But for one sunny Sunday afternoon

forty-five years ago, Duke and Durham were fit for a princess.

Gillispie is Duke's university archivist.



On sunny days, commencement has been held in the **football stadium**, one of many venues used for commencement over the years.

1939



Some students wear **white armbands** during commencement to protest militarization and discrimination in the wake of the U.S. invasion of Cambodia and the shootings at Kent State University.

1970

Duke University Archives



Devil's Own

In its heyday in the late 1930s, the soapy radio serial *The American Family Robinson* aired on more than 300 U.S. radio stations. But as listeners followed the travails of Luke Robinson, a small-town newspaper editor, and his eccentric family, they were getting a heavy dose of political propaganda. Created in 1934 by the National Industrial Council—a front for the powerful National Association of Manufacturers—the program interlaced its plot with frequent screeds against New Deal policies and praise for unfettered capitalism. A second set of episodes was made in

1940, chronicling the U.S.'s preparations for World War II.

Few of the original sixteen-inch discs, which were made from an experimental type of acetate that degrades quickly, have survived. Randy Riddle, a technology consultant at Duke, collected fourteen of the rare discs, comprising forty episodes, and donated them (along with other recordings) to the David M. Rubenstein Rare Book & Manuscript Library, making it the only library in the country with a set of the discs.

LISTEN dukemagazine.duke.edu



Rare record: Acetate discs from the Robinson collection

Les Todd



2012 HOMECOMING WEEKEND

SEPTEMBER 21 - 23

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. Memphis football game, the President's Dance, affinity group gatherings, and more!

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Meet Andrew Rotolo T'14...

The summer following his freshman year, Andrew participated in DukeEngage in Kenya. DukeEngage provides funding for undergraduates to pursue an immersive summer of service in partnership with a U.S. or international community. During Andrew's 10-week program, **he put his international comparative studies major to work at an organization that serves orphaned and at-risk youth.**

His DukeEngage experience sparked a passion for Kenya—and gave him a chance to learn Swahili, a critical language for ROTC cadets like Andrew. This summer, he is returning to Africa, where he will live with a host family and take courses on historical, political, and social issues of Kenya. He will also do an internship with Carolina for Kibera, an NGO that fights poverty and promotes youth leadership and ethnic and gender cooperation.

"I'm grateful that **Duke Annual Fund supporters help make programs like DukeEngage possible,**" said Andrew. "The experience not only gave me a chance to make a difference, but also helped validate my decision to pursue a career addressing global social problems. The experience was life-changing."

As the June 30 close of the fiscal year approaches, please take this opportunity to offer your support and help provide the resources that ensure a distinctive Duke experience for all of our students.

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