



DukeMed AlumniNews

SPRING 2012



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A WORLD AWAY

Duke connections save
medical student's life



Message from the Dean

My annual State of the School talk in February marks the beginning of a new season in Durham. Soon after, our campus brightens with flowers, and lush green leaves return to the trees. We send out acceptances to a highly select group of medical school applicants and start to feel the energy of the new class. Our graduating students think about their own new beginnings as they open their Match Day envelopes in mid-March. It's a time when we feel promise and focus on new opportunities.

Although spring is in the air, this is not an easy time

for our school, or for any other medical school in the country. My State of the School talk was longer this year because I wanted to outline the many challenges we face and how we are approaching them. There is uncertainty and trepidation about the changes health care reform will bring, less public funding available for research, and ever increasing demands on the time and energy of our faculty

and students. There are very real stresses on academic medicine, and they won't be alleviated soon.

The good news is that we face these challenges from a position of great strength. We have a community of extraordinary people and academic assets that very few institutions can match. Although we must continue to be very careful in identifying our

priorities and making choices over the next few years, we keep moving forward.

As you will read in this issue, there are tangible signs that we are moving forward. Our new Cancer Center opened in February, fostering a novel, holistic approach to patient-centered care. Our Learning Center, built almost entirely through philanthropic support from alumni and friends, will soon provide a physical space that reflects the quality and innovation of Duke medical education. As you will read (page 6), we attract remarkable medical students, many of whom come in with life experiences that profoundly shape their medical careers. We are always refreshing our faculty with new talent. Some, like Dr. Kafui Dzirasa (page 16), come up through our training programs; others are recruited from outside. They enter a distinctive Duke culture of collaboration that foments synergies across disciplines, continuously yielding new discoveries and new ways to improve health.

As I begin my second term as your dean, I've reflected back on how much has changed over the past five years. I didn't come into this job expecting a severe economic downturn or planning to spend as much time focused on finances as I've had to and will continue to have to. But I am very proud of what we have managed to do in spite of the challenges. The tremendous success of our students, faculty and alumni makes me very optimistic about our future.



Nancy C. Andrews, MD, PhD
Dean, Duke University School of Medicine
Vice Chancellor, Academic Affairs
Professor, Pediatrics
Professor, Pharmacology and Cancer Biology

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Please contact us at:
DukeMed Alumni News
512 S. Mangum St., Suite 400
Durham, N.C. 27701-3973
email: dukemed@mc.duke.edu

Jenny Jones
Director
Alumni Affairs

Editor
Marty Fisher

Assistant Editor
Jim Rogalski

Contributing Writers
Bernadette Gillis, Karyn Hede

Graphic Designer
David Pickel

Photography
Michael Benford
Kenneth L. Hawkins, Jr.
Duke Photography
Jared Lazarus
Megan Morr
Les Todd
David Pickel

Artwork
Jennifer Sweeting

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Victor J. Dzau, MD
Chancellor for Health Affairs,
Duke University
President and Chief Executive Officer,
Duke University Health System

Nancy Andrews, MD, PhD
Dean, Duke University School
of Medicine
Vice Chancellor for Academic Affairs,
Duke University

Edward G. Buckley, MD
Professor of Pediatrics
Vice Dean for Medical Education
Duke University School of Medicine

Theodore N. Pappas, MD, MBA
Vice Dean for Medical Affairs,
Duke University School of Medicine

Scott Gibson
Executive Vice Dean for
Administration,
Duke University School of Medicine

Augustus Grant, MB ChB, PhD
Vice Dean for Faculty Enrichment,
Duke University School of Medicine

Sally Kornbluth, PhD
Vice Dean for Basic Science,
Duke University School of Medicine

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Vice Dean for Clinical Research,
Duke University School of Medicine

Judy Seidenstein
Chief Diversity Officer
Duke University School of Medicine

Billy Newton
Vice Dean for Finance and
Resource Planning
Duke University School of Medicine

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Caroline Haynes and Lanre Jimoh

Duke Students Top Competitors on Match Day

Lanre Jimoh, MSIV, says even the most confident students can find Match Day extremely nerve-racking. “No matter how sure you feel, it’s not confirmed until you open (the envelope) because anything can happen.”

Jimoh was among the 81 Duke medical students who matched to residency positions on March 16, 2012.

“The NRMP (National Resident Matching Program) match is becoming more competitive each year as the number of U.S. medical school gradu-

ates rises each year and the number of residency positions available is stable,” says Caroline Haynes, MD’79, PhD’83, HS’84-’89, director of student affairs and associate dean for medical education. “We are delighted that our students continue to reach for their dreams and achieve wonderful matches in highly-regarded programs in fields of their choosing.”

Jimoh, who also earned an MBA while in medical school, will complete an internal medicine residency at Vanderbilt and eventually hopes to use his two degrees to make a difference in his native country, Nigeria. “I see myself going back after practicing a few years,” he says. “I plan to be involved in the restructuring of my country’s health care system.”

Duke 9th in Latest Rankings

Duke University School of Medicine once again is ranked in the top 10 medical schools in the country according to the latest *U.S. News & World Report* rankings.

Duke ranks ninth for medical schools with a research focus, down from a four-way tie for fifth last year.

The rankings are based on MCAT,

GPA, NIH funding, and student-faculty ratio, among other criteria.

Edward Buckley, MD, E’72, MD’77, HS’77-’81, vice dean for medical education at Duke, said Duke doesn’t rely as heavily on MCAT scores as other schools when evaluating prospective students, but instead takes into account students’ life experiences, drive, and potential for success.

Duke placed in the top 10 in four other categories as well: fourth for internal medicine, fifth for geriatrics, seventh for AIDS research; and ninth for women’s health.

Andrews Reappointed as Dean

Nancy C. Andrews, MD, PhD, has been reappointed to a second five-year term as dean of Duke University School of Medicine, Victor J. Dzau, MD, chancellor for health affairs at Duke, announced March 1.

The reappointment followed her review conducted in accordance with university policy. A committee chaired by Michael Merson, MD, professor of



medicine and director of the Duke Global Health Institute, collected comments from the university committee and submitted a report to Dzau and Provost Peter Lange.

“Nancy effectively led the School of Medicine through the historically challenging

financial crisis at the end of the last decade and has advanced our academic mission through recruiting new department chairs, strengthening laboratory cores and developing new initiatives,” Dzau said in a message to faculty announcing the reappointment. “I look forward to the contributions Nancy will continue to make across our clinical, research, and educational missions.”

Andrews also carries the title of vice chancellor for academic affairs for Duke Medicine. A pediatric hematologist/oncologist by training, she is also a professor in the departments of Pediatrics and Pharmacology & Cancer Biology.

She came to Duke in 2007 following a successful career as a physician/scientist at Harvard Medical School, where she also was dean for basic sciences and graduate studies.

At Duke, Andrews has maintained an active NIH-funded research laboratory studying mouse models of human diseases. A Howard Hughes Medical Institute Investigator from 1993 to 2006, she has authored more than 100 peer-reviewed articles and 16 book chapters. Her numerous research awards and honors include memberships in the Institute of Medicine of the National Academies and in the American Academy of Arts and Sciences. She is a past president of the American Society of Clinical Investigation.

Cancer Center Opens

On February 27, 2012, Duke opened the Duke Cancer Center, the first free-standing facility dedicated to the care of cancer patients at Duke. The seven-story, 267,000-square-foot facility features a state-of-the-art environment designed to align research with personalized service for every patient. Read more in the spring issue of *DukeMed Magazine*. The magazine mails in April and is dedicated to coverage of the Cancer Center Grand Opening and the future of cancer research and care at Duke.



Alumni Association Announces 2012 Awardees

The Duke Medical Alumni Association has selected five highly accomplished alumni and faculty to receive 2012 Distinguished Awards, to be presented during Medical Alumni Weekend, Oct. 18-21.

Distinguished Faculty Awards

- **Edward G. Buckley, E'72, MD'77, HS'77-'81**, professor of ophthalmology and pediatrics, chief of the Division of Pediatric and Neuro-ophthalmology, and vice dean of medical education at Duke. He is considered one of the foremost academic pediatric ophthalmologists in the country and is recognized internationally for his residency training program. He was nominated by fellow recipient David L. Epstein, MD.
- **David L. Epstein, MD**, the Joseph A. C. Wadsworth Professor of Ophthalmology and chair of the Duke Department of Ophthalmology. This year he celebrates his 20th anniversary as chair.

He is recognized internationally as one of the leading experts in the understanding and treatment of glaucoma. He was nominated by R. Rand Allingham, MD, a professor and chief of the Duke Eye Center's Glaucoma Services.

- **Mark F. Newman, MD, HS'88-'89**, the Merel H. Harmel Professor of Anesthesiology and chair of the Duke Department of Anesthesiology. He is a pioneer in the field of perioperative neurological outcomes research, having largely defined the now widely accepted demographic, procedural, and genetic risk factors for cognitive dysfunction after cardiac surgery. He was nominated by Joseph P. Mathew, MD, the Jerry Reves, MD, Professor of Cardiac Anesthesiology at Duke.

Distinguished Alumnus Award

- **Robert L. Goldenberg, MD'68**, professor of obstetrics and gynecology at Drexel University in Philadelphia. He has distinguished himself as a leader in the field of premature births and has led research involving nutritional, behavioral, psychosocial, socioeconomic, and geopolitical issues related to prenatal health. He was nominated

by **Stephen S. Entman, MD'68**, the chair of the Department of Obstetrics and Gynecology at Vanderbilt University Medical Center.

William G. Anlyan, MD, Lifetime Achievement Award

- **James R. Urbaniak, MD'62, HS'62-'69**, the Virginia Flowers Baker Professor of Orthopaedic Surgery at Duke. He served as chief of the Division of Orthopaedic Surgery from 1985 to 2002. His career is marked by significant contributions to the field of orthopaedic surgery, and during his 17-year tenure, Duke orthopaedic and hand surgery programs have become among the most highly respected in the country. He was nominated by **William C. 'Billy' Andrews Jr., T'76, MD'80, HS'82-'86**, an orthopaedic surgeon in Lynchburg, Va.

The Medical Alumni Association Awards will be presented at a dinner celebration on Friday evening, October 19. Reuniting classes for Medical Alumni Weekend are those ending in 2 and 7, but all alumni are welcome and encouraged to attend.



Buckley Epstein Newman Goldenberg Urbaniak

Stay tuned to medalum.duke.edu for news and information about the 2012 reunion.



From left: School of Medicine Dean Nancy C. Andrews, MD, PhD; Medical Alumni Association President Dale R. Shaw, T'69, MD'73, HS'73-'77; Chancellor for Health Affairs Victor J. Dzau, MD; and current medical student Navid Pourtaheri, G'08, pose for a photo during the Annual BlueTie/White Coat Celebration in March.

Students, Alumni, Faculty Unite at Blue Tie/White Coat Event

More than 300 Duke medical students, faculty, and alumni gathered March 9 at the Washington Duke Inn for the third annual Blue Tie/White Coat Celebration.

The event, sponsored by the Duke Medical Alumni Association, brings together medical students from all classes and allows them to engage with Medical Alumni Council members, faculty, and other local alumni. Several large television screens allowed participants to watch the Duke men's basketball team beat Virginia Tech in the opening round of the ACC Tournament.

During halftime, participants watched a short, humorous video titled, "Duke Med Students Get Buckets, Too!" It can be seen at youtube.com/duke-medalumni.

A silent auction and raffle raised more than \$2,700 for the Duke Medical Annual Fund.



Medical students and guests show some spirit during the celebration.



Raffle winners David L. Feldman, T'80, MD'84, MBA, HS'89-'92, right, his wife Debra, left, and their daughter Jessica, a Duke undergraduate student, pose with the basketball they won. It was signed by the Duke men's basketball team and Coach K.

New Network Connects Students with Alumni

A group of Duke medical students have teamed up with the Duke Medical Alumni Association to create a new career advisory network to build and strengthen connections between Duke medical students and alumni.

The network helps students find alumni with similar backgrounds and interests such as geographic location, institution, medical specialty, career interests and more.

The Duke Medical Career Advisory Network is an opt-in program for alumni. Alumni opt-in by logging into the Duke Medical Alumni Directory at medalum.duke.edu and clicking the "Career Advisory Network" link in the left



hand menu, then filling in the appropriate information. Students who log into the directory can then search the Career Advisory Network.

An integral part of the program is a beefed-up Medical Alumni Directory in which new information fields have been added, including hospital affiliation, specialty, and fellowship institution.

The Medical Alumni Directory is a private directory accessible only to Duke medical alumni and current medical students. The directory allows alumni to link with former classmates.

The three Duke medical students helping with the Career Advisory Network are **Jacob Berchuck, MSIII**; **Julien Cobert, MSIII**; and **Joseph Christianbury, MSIII**.

If you have any issues with your log-in or password, please contact Karen Bernier at karen.bernier@dm.duke.edu or 919.385.3167.

Surgery Profs Pen Tribute to Sabiston

A pair of Duke Department of Surgery professors has penned an insightful and entertaining tribute to Duke's legendary former chair of the Department of Surgery, David C. Sabiston, MD. Theodore N. Pappas, MD, and **Walter Wolfe MD, HS'64-'72**, co-wrote "Attending Rounds with 'The Man,'" to honor Sabiston, who died in January



Sabiston

2011. Sabiston was the pre-eminent surgeon of his time, establishing a level of clinical achievement that earned him international respect in science and medicine.

Known in private to his residents as "The Man" and other monikers, Sabiston inspired an equal level of fear and respect from the thousands of charges he mentored over his 30-year career.

To read "Attending Rounds with 'The Man,'" visit medalum.duke.edu, click on "Membership Information" in the left-hand menu, then click on "Duke Medicine Giants" in the top menu. The essay is listed under the information about Sabiston.



Choi

Nseyo

Okafor

Raney

Four Students Win Schweitzer Fellowships

Three Duke graduate medical students and one graduate student in physical therapy have been selected as 2011-2012 North Carolina Albert Schweitzer Fellows. Over the next year, in addition to their regular graduate school responsibilities, the students will join approximately 260 other 2011-2012 Schweitzer Fellows across the country in conceptualizing and carrying out service projects that address the health needs of underserved individuals and communities.

The Duke students are:

- Bryan Choi, MSIV, who will work to enhance transitional care for brain tumor patients immediately post-craniotomy in

Duke Hospital and the Durham Veterans Affairs Medical Center, Division of Neurosurgery.

- Uniwanaobong Nseyo, MSIV, and Eziama Okafor, MSIV, who will expand the "You Are What You Eat" awareness-centered nutrition education program to include high school students and additional curriculum content.
- Kelly Raney, DPTIII, who will seek to improve the health and quality of life of African-American seniors by creating a targeted falls-prevention program.

Fellows also work at the Schweitzer Hospital in Lambaréné, located in the west central African nation of Gabon. They collaborate with hospital staff to help provide skilled care during more than 35,000 outpatient visits and more than 6,000 hospitalizations annually for patients from all parts of Gabon.



Classmates and friends reunite at a recent Medical Alumni Weekend.

Inaugural Young Alumni Reunion Launches This Fall

This October's Medical Alumni Weekend will feature the inaugural Young Alumni Reunion for graduating classes from the past 10 years. Alumni from the classes of 2002 to 2012 are encouraged to return to Duke's campus October 18-21.

As planning for Young Alumni Reunion continues, ideas and suggestions are greatly welcomed, and alumni still can join the Young Alumni Reunion Committee by contacting Karen Bernier at karen.bernier@duke.edu or 919.385.3167, or Anna Corliss at anna.corliss@duke.edu or 919.385.3163.

Duke Connections Save Med Student's Life

FELLOW STUDENT'S
CAPE EXPERIENCE
HELPS DIAGNOSE
DEADLY STROKE

Kendall Bradley, left, and Nick Tsipis, pose with three fellow coaches and a student in Vietnam last summer.



When Nick Tsipis, T'11, MSI, suddenly was stricken with a crushing headache, dizziness, and nausea in Vietnam last summer while volunteering at a sports camp, fellow Duke soccer player and camp volunteer Kendall E. Bradley, T'11, MSI, equated his symptoms with a neurological problem—something she admits seemed a bit hasty.

Bradley, you see, was fresh off four years in Duke's CAPE Program—the Collegiate Athletic Pre-Medical Experience—that exposes promising female undergraduate athletes interested in medicine with hands-on experience in the field. Much of her time in CAPE was spent in Duke's Preston Robert Tisch Brain Tumor Center, where she helped to take medical histories and screen patients. She even got to witness brain surgeries up close.

"It's funny, but the first time I got a headache after working in the brain tumor center I thought, 'Oh my God. I have a brain tumor,'" she said laughing. "So with Nick, I told myself, 'you can't think it's neurological because that's all you see. That's all you've been thinking about for years.'"

For Tsipis, that was a good thing. Bradley's instincts helped save his life.

IMMEDIATE, EXCRUCIATING PAIN
The two friends, who have known each other since they were freshmen on their

respective Duke varsity soccer teams, had been in Vietnam with a humanitarian group coaching soccer and teaching basic academics to children in grades six through nine. On a typical Tuesday morning that had dawned hot and sunny, Tsipis was lecturing in a classroom when a blast of excruciating pain suddenly shot through his head. The room spun like a dizzying carnival ride. He felt sick and lost balance, catching himself on a chair as he collapsed.

"At first I thought I was just dehydrated, but this hit me out of the blue. Clearly, something was wrong," Tsipis related.

After dogged insistence from Bradley to camp organizers, she and a camp leader drove Tsipis to the small community hospital in Can Tho about an hour away over rutted dirt roads. He was given an IV and medication to help stop the vomiting. Bradley recalls that "insects were everywhere" inside Tsipis's room and she constantly brushed them away from his

BY JIM ROGALSKI



face. Several times in the hallway she noticed rats scurrying about.

During Tsipis's three-day hospital stay, Bradley was frequently on the phone with her mother, **Kathryn Andolsek, MD, HS'76-'79**, a professor of Community and Family Medicine at Duke; **Chris Woods, MD'94, HS'94-'97, '99-'02**, a Duke professor of infectious diseases and global health; and **David T. Dennis, MD**, a global health professor at the Duke-NUS Graduate Medical School in Singapore. Woods and Dennis both had traveled to Vietnam in the recent past.

Andolsek cleared every procedure and medication with the Vietnamese doctor,

"I learned in CAPE that uneven pupils and difficulty walking could be signs of a neurological problem."

— Kendall E. Bradley

who concluded Tsipis was dehydrated and suffering from a gastrointestinal issue, despite an ultrasound showing no signs of one.

Meanwhile, Bradley and Tsipis kept Tsipis's family apprised via Skype. Tsipis felt that all he needed was rest, and was glad to be released from the hospital, even though the headache continued.

"I really thought the headache was from dehydration," he said. "I had been vomiting for 36 hours."

Bradley wasn't so convinced.

The two noticed that Tsipis's pupils were uneven. Bradley also observed a weak shuffle in Tsipis's gait when he walked to the bathroom.

"His pupils just didn't look right so

I pulled out my iPhone and used the flashlight to look," she said. "His pupils were reactive, but I still asked the doctor if it was something we should worry about. I learned in CAPE that uneven pupils and difficulty walking could be signs of a neurological problem."

The doctor said not to worry, that Tsipis was just tired and needed rest. The two friends went back to their hostel, where during the night, things took a turn for the worse.

"MY HEAD WAS BEING CRUSHED"

Tsipis didn't sleep that night because of a menacing headache that felt like his head was being crushed. "It was the worse thing I've felt in my life," he said.

Bradley wasn't keen on Tsipis returning to the hospital in Can Tho, where she said, "I fought with them for two and a half days to get Nick care."

She decided that they had to go to Ho Chi Minh City, five hours away, to seek medical care. Tsipis wanted to tough it out in Can Tho, knowing he was scheduled to fly home in just three days and would see a doctor then.

Bradley insisted.

Over the long and bumpy car ride he deteriorated pretty quickly, according to Bradley. "He was lying down with his head on my lap and his headache was getting worse."

At an international clinic in Ho Chi Minh City, an English-speaking French doctor examined Tsipis and ordered an MRI. The only MRI machine in the city was across town in a derelict hangar-like building.

"There were little medical units off to the sides with motorbikes in the middle," Bradley said. "It was pretty scary."

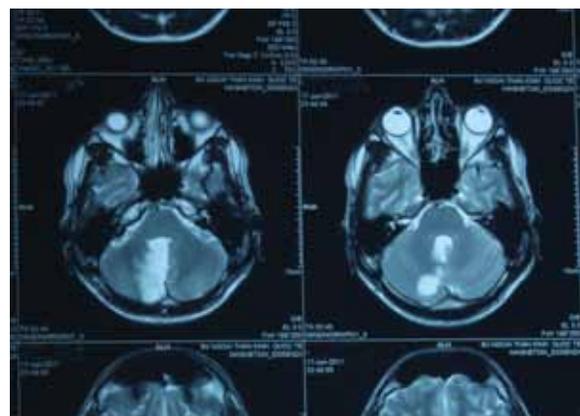
After Tsipis got the MRI they returned to the clinic and waited nearly four hours for the report. Every hour or so the French doctor asked Tsipis telling questions.



Tsipis teaches a class at a summer camp in Vietnam last June.



Tsipis lies in a hospital bed in Can Tho, Vietnam, several hours after collapsing.



An MRI of Tsipis's brain, taken in Ho Chi Minh City three days after he collapsed, shows a large white area where circulation was cut off due to a stroke.

Tuesday, June 14

7:45 am: Nick collapses while teaching a class in the village of Thuan Hung, Vietnam.

9:45 am: Nick and Kendall arrive at a small community hospital (Hoan My Cuu Long Hospital) in Can Tho. Nick is admitted and spends three days there. His diagnosis is dehydration and GI bacterial infection.

Wednesday, June 15

4:00 pm: Kendall notices a shuffle in Nick's gait and that his pupils are uneven.

Thursday, June 16

4:30 pm: Nick is discharged and returns to his hostel in Thuan Hung.

9:00 pm: Nick experiences an excruciating headache through the night.

Friday, June 17

6:00 am: Kendall insists she and Nick go to an international clinic in Ho Chi Minh City, 5 hours away.

12:30 pm: They arrive in Ho Chi Minh City and Nick has an MRI taken. It reveals a large, white mass on the right side of his brain.

7:30 pm: Kendall contacts Duke doctors Allan and Henry Friedman at the Tisch Brain Tumor Center and emails an iPhone photo of the MRI to them. They insist Nick be medically evacuated to Bangkok, Thailand, to see a Duke-trained neuro-oncologist.

Saturday, June 18

9:30 am: Nick and Kendall are medically evacuated to Bangkok, where Nick is immediately admitted and given medication. He remains in the intensive care unit for 10 days.

Monday, June 27

7:30 pm: Kendall and Nick leave Bangkok and fly home.

Tuesday, June 28

10:30 am: Nick arrives at Duke Hospital and is released the next day.



“She asked me if there was any history of stroke or blood clots in my family,” he said.

“And if his traveler’s insurance covered medical evacuation,” Bradley said. “As soon as she mentioned stroke I got very worried.”

“It didn’t really register with me that I could have had a stroke,” Tsipis said. “I’m a healthy, athletic 22-year-old and there’s no history of it in my family.”

Once the doctor confirmed the diagnosis of stroke, Bradley immediately phoned the Duke Brain Tumor Center to discuss Tsipis’s situation with Duke’s acclaimed brain tumor specialist **Allan Friedman, MD, HS’74-’80**, and noted neuro-oncologist **Henry Friedman, MD, HS’81-’83**, (not related) founders of the CAPE program.

The doctors wanted to see the MRI, but the clinic had no way to digitize, and email it.

“So I took a photo of it with my iPhone and emailed it to them,” Bradley said. “About 85 percent of

his right cerebellum was completely white—a very bad thing.” An occlusion in his right vertebral artery had cut off most of the blood supply to Tsipis’s right cerebellum.

When they received the email of the MRI, the doctors Friedman grew concerned and asked to have Tsipis get an MRA image of the vessels in his head and neck.

Getting the MRA proved more frightful than the MRI. Bradley describes the hospital with the MRA machine as something out of the Cold War. They entered the dimly lit, dingy, yellowing hallway of the Emergency Department, where to the right she saw a woman lying on a gurney. It appeared the woman had just had surgery.

“She was alone and writhing on the table,” Bradley said. “She had drains coming out of her head and one of them was pooling blood on the floor. I immediately turned Nick’s chair around.” But not before he got a look.

“It was like something out of a horror

movie,” Tsipis said. “It was one of the most terrifying places I’ve ever been.”

Later on, back at the clinic, the news got worse.

“YOU’VE GOT TO GET OUT OF THERE”

The situation was compounded when Allan Friedman recommended that Tsipis immediately be put on several medications, “but the doctor wasn’t comfortable with that,” Bradley said.

There were two issues the Friedmans were particularly worried about. The first was that if Tsipis went untreated for too long he could have had a second stroke—this one in his basilar artery—that would have been devastating. The second concern was that if significant swelling developed from the initial stroke it could have been fatal.

“You’ve got to get out of there as soon as possible,” Bradley says the Friedmans told her.

Bradley thought about worst-case scenarios and asked one of the Vietnamese doctors what the plan was if Tsipis developed a brain bleed. The doctor told her there was a public hospital in the city that “might be able to deal with it, but it was overcrowded and extremely busy and Nick probably wouldn’t get seen,” Bradley said. “So I said, ‘You’re telling me that if he starts to bleed there’s nothing we can do and he’s going to die?’ And she said ‘yes.’”

The Friedmans began the process of having Tsipis evacuated to Bangkok, Thailand, to be treated by **Sith Sathornsumetee, MD, HS’00-’07**, a neuro-oncologist who trained for seven years under the Friedmans at Duke.

“Henry was on the phone with senators and everyone up the ladder to Hillary Clinton’s office in the State Department,” Tsipis said. New passports needed to be created because Bradley’s and

Tsipis’s were being held in Can Tho. The offices of U.S. Senators Richard Lugar and Tom Daschle were key to getting the new expedited passports.

Bradley said Henry Friedman stressed to her the direness of the situation.

“He told me Nick had around a 70 percent chance of not making it through the night,” Bradley said. “It took me a while to process that. What I could do was keep working to get our passports.”

One fear was that a change in altitude pressure during the flight to Bangkok could cause complications.

Tsipis, meanwhile, although still in pain, was able to maintain a sense of humor.

“He didn’t know the percentages and I wasn’t going to tell him,” Bradley said. “But he was messing with me the whole night, and still acting like Nick. That’s what I told his parents.”

The two were medically evacuated around 9:30 a.m. The flight to Thailand went smoothly, and about two hours later Tsipis was delivered safely to Sathornsumetee at Bangkok Hospital.

“It’s amazing to me how far around the world Duke reaches,” Bradley said. “It was such a relief to be with ‘Dr. Sith.’ He had a complete team ready when we arrived and it felt like we were back in an American hospital. Everything was brand-new and the level of care was fantastic.”

Sathornsumetee ran tests, took an angiogram, and administered the blood-thinner warfarin. Tsipis remained in the intensive care unit of Bangkok Hospital for 10 days. Bradley stayed in Bangkok as well.

Tsipis did not require surgery. Collateral blood vessels in his head have taken over and now supply the right side of his



“What do you say to someone who gives you a second chance at life? ... She’s going to be an incredible physician.”

– Nick Tsipis

brain. He suffered no long-term side effects of the stroke.

Once in Durham, Tsipis was seen by the Friedmans, kept overnight at Duke University Hospital, and released. One month later, he and Bradley started medical school at Duke.

A HEART OF GRATITUDE

“Without Kendall, I can’t imagine getting out of there alive,” Tsipis said. “Yes, the coaches would have taken me to the hospital in Can Tho, but the doctor there probably would have listened to me when I said I wanted to tough it out. Anything could have happened after that.”

So many things fell into place, he said, not the least of which was the fact that Bradley had an international plan on her cell phone, which he did not, and was able to stay in close contact with doctors at Duke, as well as with his family.

“I’m extremely thankful she was on this trip, and that she was trained to do neurological exams,” Tsipis said.

He’s thankful for Bradley’s tenacity with the physicians in Vietnam, for her ability to function on very little sleep, and to deal with so many issues at once, including his insurance company, all the while comforting him and helping to care for him, rarely leaving his bedside.

“There are so many times that things could have gone horribly wrong,” he said.

Words aren’t enough to thank her, he said. “What do you say to someone who gives you a second chance at life?”

The best way he knows “is to live a worthwhile life,” he said. That means becoming the best doctor he’s capable of, and modeling Bradley’s thoroughness, persistence, and compassion.

“She’s going to be an incredible physician,” Tsipis said.

Both Bradley and Tsipis currently are undecided about their respective specialties. Bradley is interested in orthopaedics, and Tsipis in oncology, but they both are open to exploring many areas of medicine. ▀



Durham School of the Arts boys’ and girls’ soccer coach, Amy Green, center, talks with first-year medical students Rachele Degraff and Tony Fuller during a planning meeting for HEY-Durham.

Medical Students Teach Sex Ed to High Schoolers

Giggles and awkward moments are a given in high school sex and health education classes, especially when the teachers are old enough to be the students’ parents. But having someone a little closer in age lead discussions on sensitive topics like sexually transmitted diseases, drugs, and peer pressure is what has made one Duke medical student-run community outreach program a success.

Founded in 1999, HEY-Durham (Health, Education, and Youth-Durham) is a 12-week program for ninth-graders. Once a week, medical students from Duke teach students at the Durham School of the Arts during their one-hour health and physical education classes. Using interactive activities such as a health-focused version of the game show *Jeopardy*, the Duke students cover topics including sexuality, alcohol and drug abuse, and gang violence.

David Mellinger, MD, who serves as the program’s faculty advisor, says discussing such topics is crucial during adolescence. “Specific and truthful education about these

topics will help the students to think about the risks they are taking,” says Mellinger, who also is an associate professor of pediatrics at Duke. “Too often the health profession does not have the opportunity to do this.”

HEY-Durham not only gives the ninth-graders a chance to open up with someone less intimidating than their teachers, it also gives the medical students valuable teaching experience and lessons on community service.

“They will likely be involved in community activities during their careers and have to teach and give presentations in front of groups, so this a good opportunity to get involved and practice those skills early on,” Mellinger says.

HEY-Durham is one of several community projects sponsored by the Department of Community and Family Medicine’s Learning Together Program. The program’s curriculum has worked so well for the medical students that Kim Nichols, a program coordinator for Learning Together, says lessons from the HEY-Durham curriculum will be used this year in another program in which Duke pediatric residents teach at the City of Medicine Academy, a specialized high school in Durham, as a part of the residents’ required community outreach rotation. ▀

Five Medical Students Benefit from Schatz Travel Scholarships

ONE OF THE MOST IMPACTFUL experiences **Richard A. Schatz, MD'77**, had as a medical student at Duke was his third-year research project in 1976 when he studied at Oxford University in England.

“On my first day there I was introduced to the guy I would be sharing a desk with,” Schatz says. “It was Hans Krebs.”

Krebs won the Nobel Prize in 1953 for his discovery of a key sequence of metabolic chemical reactions that produces energy in cells. It is known today as the Krebs cycle. In Oxford, Schatz also saw the lab where penicillin was discovered, and the Osler



House—the Georgian-style childhood home of world-famous physician Sir William Osler, MD, known as the father of modern medicine and one of four founders of Johns Hopkins Hospital.

“It was an inspiring time on many different levels,” Schatz says, “including the social setting and learning how their medical system works.”

Schatz has made his own mark in medical history as a pioneer in coronary stent technology. He is best known for the co-development of the first successful coronary stent, the Palmaz-Schatz stent. He currently is the research director of cardiovascular

intervention at the Heart, Lung, and Vascular Center at Scripps Clinic in La Jolla, Calif., and also lectures worldwide.

His Duke medical education “changed my entire life,” he says, pointing out that Duke University School of Medicine admitted him despite not having a bachelor’s degree. “I thought that was pretty progressive thinking.”

Schatz is a regular contributor to the Duke Medical Annual Fund, but in 2011 he wanted to do something different that reflects how much he appreciated his opportunity to study abroad.

With an initial \$10,000 gift, he has established the Richard Schatz Travel Scholarship in the school of medicine. Five medical students each received between \$1,000 and \$2,600 for travel abroad expenses for the 2011-2012 academic year.

They are:

- **Logan Christensen, MSIII**, who is in Rosario, Argentina, studying the health system and the prevalence and detection of anemia and the medication adherence of the publicly funded iron supplementation program for children.

.....
 “There is a wide breadth of training opportunities overseas, and this is exactly what I want this money to be used for.”

– Richard A. Schatz

- **Cassandra Ligh, MSII**, who spent four weeks in Capetown, South Africa, studying general surgery at Groote Schuur Hospital, where the first heart transplant took place in 1967.

- **Nazaneen Homaifar, T'06, MSIV**, who spent a month in Kigali, Rwanda, helping to test Rwandan medical students on their knowledge of obstetrics and the factors that influence the retention of that knowledge.

- **Katherine Gray, MSIII**, who is spending the academic year in Moshe, Tanzania, focusing on examining rates and risk factors of tuberculosis mycobacteremia in HIV-infected children. She is learning how to conduct socially and ethically responsive clinical trials.

- **Andrew Bouley, T'07, MSIII**, who also is in Moshe, Tanzania, for the academic year, working on three projects involving a multi-country typhoid fever surveillance program; analyzing data from a previous surveillance study to determine the incidence of brucellosis and its clinical characteristics in northern Tanzania; and screening patients with HIV for Hepatitis B.

Schatz says he will offer the scholarship program each year.

“There is a wide breadth of training opportunities overseas, and this is exactly what I want this money to be used for,” he says. ♥

– Jim Rogalski

Andrews, MSI, Re-ignites Duke's Wilderness Medicine Group

DURING VIGOROUS U.S. Army Special Forces Green Beret training from 2002-2004, Jon S. Andrews, MSI, backed into medicine by default when he was selected to become a field medic. One of his required textbooks was the 2,300-page bible of wilderness medicine titled simply, *Wilderness Medicine*. The book's 97 chapters on everything from treating altitude sickness, frostbite, and burns to knot tying and living off the land ignited in him a passion for the subject.

"Practicing medicine out there with next to nothing is the true root of medicine," Andrews says. In other words, if you can make it there, you can make it anywhere. He referenced the book often during deployments to Iraq and Afghanistan, especially when his Special Forces unit was assigned to high altitude locations.

He's now a first-year medical student at Duke and only recently learned that the author of *Wilderness Medicine* is also a Dukie—Paul S. Auerbach, T'73, MD'77.

Auerbach, who also co-founded The Wilderness Medical Society (wms.org), is "considered the be-all, end-all of wilderness medicine," Andrews says. "He really started this movement. I think it's pretty cool that he's from Duke."

Upon arriving at Duke last fall, Andrews didn't take long to re-ignite the Duke Wilderness Medicine Group that had been dormant for several years. He set up an information table at a student fair and was inspired that 60 medical students signed up.

"People are more active now," Andrews says. "A lot of medical students are into the outdoors—rock climbing, backpacking, mountain biking—so people are interested in wilderness medicine."



Jon S. Andrews is pictured in the mountains of Afghanistan as a U.S. Army Special Forces Green Beret.

So far, the group has hosted two seminars: the first on spelunking and cave rescue given by Patrick P. Craft, MD, the Duke Wilderness Medicine Interest Group's faculty advisor and professor in the Department of Community and Family Medicine. The second was on treating snake bites, given by Charles J. Gerardo, MD, from the Division of Emergency Medicine.

Andrews has been in contact with Auerbach about being a guest speaker in the future. Auerbach is a professor of surgery in the Division of Emergency Medicine at Stanford University.

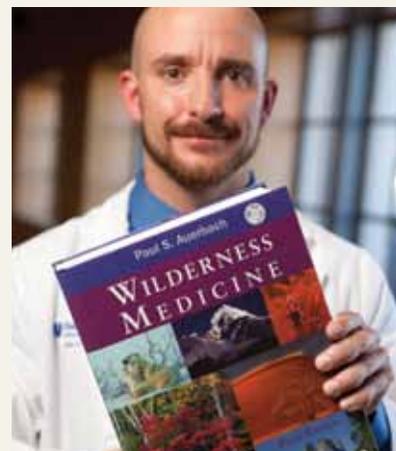
Andrews, 35, was just married on March 11. His current enlistment in the Army National Guard Special Forces runs through 2014.

For a profile on Auerbach, visit medalum.duke.edu and click on "Alumni Profiles" under the main photo. Contact Andrews about the Wilderness Medicine Group at jon.andrews@dm.duke.edu ■

— Jim Rogalski

"Practicing medicine out there with next to nothing is the true root of medicine."

— Jon S. Andrews



Andrews poses with the book *Wilderness Medicine*, written by Duke medical alumnus Paul S. Auerbach, MD.



In 2010 Jennifer Segura, MD, knew nothing about photography beyond the point-and-shoot variety, and zero about video editing and audio recording. Yet last year, through a pioneering collaboration between the Duke University School of Medicine and the Duke Center for Documentary Studies, the fifth-year child and adolescent psychiatry resident made her first documentary.

"I've always been interested in art and documentary work," she says. "I wanted to show the humanity of addiction and break down the stigma associated with it."

The Documenting Medicine Program is a unique course that teaches Duke medical residents the interpersonal and technical skills necessary to produce a photographic, multimedia, or audio

story that shines an insightful light on patients, caregivers, or other aspects of medicine.

Through copious and rich interactions with patients through the documentary-making process—in clinical settings and patients' homes—residents in the program develop a much keener sense of empathy. Helping residents raise their capacity for compassion is one of the main goals, says **John W. Moses Jr., T'78, MD**, an associate professor of pediatrics and co-organizer of the Documenting Medicine Program.

"In general, physicians are not very good listeners," Moses says. "This program gives them the ability to connect with patients and get to know them in-depth—all the things that are harder and harder to do in the current medical atmosphere."

Moses is an instructor in the program and a photographer. He has contributed his documentary photographs to several publications.

For her project, Segura edited together photos and audio interviews of four care providers and a mother with a child who was undergoing treatment at the Intensive Outpatient Program at the Duke Center for Adolescent Substance Abuse Treatment.



Allison Sweeney, MD, captured this photo of premature baby Charlotte and her mother in Duke's neonatal intensive care unit. At the time, Sweeney was the chief pediatric resident at Duke Hospital and enrolled in the Documenting Medicine Program.



"Welcome to the sickle cell life," says Derrick, a frequent flyer to the Duke Emergency Department as he pats his "pain pump." The photo was taken by Andrew Parker, MD, while he was a resident at Duke.

documenting medicine:

Unique Duke program teaches residents documentary skills, infuses empathy

BY JIM ROGALSKI



For his Documenting Medicine project about frequent flyers to the ER, Andrew Parker, MD, photographed Julia, who has kidney failure. She visits the Emergency Department three times a week for dialysis.

"The counselors' stories about what brought them to this line of work were powerful and personal," Segura says. "The mother felt so alone going into the process and she was so honest and open."

Her finished project consists of a Web site (aiopduke.wordpress.com) centered on a 20-minute video. The Web site is being used as a marketing tool to help educate the public and raise awareness of Duke's outpatient program.

Andrew Parker, MD, a fourth-year emergency medicine resident at Duke, produced a photo documentary titled "Frequent Flyers," that followed several regular repeat visitors to Duke Hospital's Emergency Department. His project illustrates a national health care policy problem.

"This experience gave me deeper insight into the lives of frequent flyers, and now I can anticipate what their needs are. It makes me a better doctor," Parker says.

"Residents work to really get to know them," Moses says.

The program is initially being paid for with seed money from the Duke Graduate Medical Education Innovation Fund. Moses and Liisa Ogburn, the program director, are actively seeking funders in hopes of sustaining it.

In May, they are hosting a four-day intensive workshop on documenting the patient experience. The workshop is open to all Duke students and residents.

For more information, visit documentingmedicine.com or contact Ogburn at liisa.ogburn@duke.edu or Moses at john.moses@dm.duke.edu



Dzirasa and his team have recorded some of the first images of complex brain patterns in mice and have found intriguing clues about the role of disrupted brain circuits in obsessive compulsive disorder, bipolar disorder, depression, and post-traumatic stress disorder.

A “Pacemaker” for Mental Illness?

DZIRASA USES ENGINEERING TOOLS TO MAP BRAIN ELECTRICAL PATTERNS

With a crackle, a hiss, and a low background hum, the sounds of one mouse thinking are coming in at the rate of one data point every 1.6 milliseconds for each of 96 individual neurons firing information along the brain’s neural networks. In the lab of Kafui “Kaf” Dzirasa, PhD’07, MD’09, neurobiologists are listening in as the mouse explores its environment, eats, grooms itself, and interacts with other mice. Individual electrodes in a paper-thin microarray half the size of a postage stamp record the brain’s electrical patterns in real time, allowing the researchers to follow complex patterns of behavior for the first time ever. The project’s goal is no less than to map the abnormal patterns responsible for mental illnesses, with an eye toward developing new forms of therapy targeted to correcting specific patterns of brain activity.

“Our framework for thinking about mental illnesses has to change,” he says. “This is what drives me: addressing these illnesses.”

Combining the cool reasoning of an engineer and the compassion of a doctor seeking help for his patients, Dzirasa wants to unite the fields of neurobiology and

psychiatry behind a new understanding of psychiatric illness based on patterns of neural networks, not subjective evaluations of symptoms.

“These illnesses still carry a stigma,” he says. “If we could show that these illnesses are simply a network problem, and we could provide a network solution, it could remove some of that stigma.”

He sees the work at the Duke Institute for Brain Sciences (DIBS) as the logical next step in research that has allowed doctors to bypass damaged nerves in an amputated arm. If it’s possible to teach the brain to manipulate a prosthetic limb, why not do the same for people with psychiatric illnesses, he reasons. He likens the approach to a pacemaker, which bypasses short-circuited electrical circuitry in the heart to restore a steady heartbeat.

“If you have the ability to read brain systems and circuits in real time, you could bypass the dysfunctional circuit

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BY KARYN HEDE

and send the information directly to the other side to reconnect the network,” he says.

The problem is that until very recently, the ability to record neural activity in the brain has been limited by a lack of tools capable of measurement in real time.

“These are ultimately network problems and we didn’t have network tools until 20 years ago,” says Dzirasa. Now, he says, we have a framework and computing infrastructure to tackle network problems.

When Dzirasa graduated from the University of Maryland, Baltimore County, with a degree in engineering, his goal was to ask questions of the human body through the lens of engineering. He saw the human body as a complex machine, with the brain as the ultimate neural network. As an MD/PhD student at Duke, he was drawn to the work of Miguel Nicolelis, MD, PhD, who pioneered the use of miniature electrical circuits to measure the activity of many individual neurons firing in the brain.

“Miguel was really one of the world leaders in this area,” he says. During his graduate training, and then as a postdoctoral scientist, Dzirasa built on the work of Nicolelis and Rui Costa, PhD, another Duke postdoctoral student, to expand the study from three areas of the brain to 11. This expansion allowed the group to look at electrical impulse patterns across the entire brain at the same time.

Now Dzirasa is systematically mapping the patterns of brain activity in both normal mice and mice that carry genetic defects known to be reliable models of human mental illnesses.

The research team has recently found that they could mimic the brain patterns of obsessive-compulsive disorder (OCD) in mice. When the researchers treated a normal mouse with a medication that halved the amount of the neurotransmitter norepinephrine in the brain, it radically shifted the pattern of the brain’s neural network connections. At the same time, the researchers observed that the mouse began repetitive

grooming behaviors. Searching through the medical literature, they discovered that the disrupted circuits they observed have also been implicated in OCD. Since low norepinephrine is not implicated in OCD, yet the pattern of brain activity was similar, the finding suggested that brain activity can be disrupted in different ways, and yet produce similar symptoms.

Dzirasa, Nicolelis, and postdoctoral scientist Sunil Kumar, along with several collaborators, recently showed that mice carrying a mutation in a gene known to predispose people to bipolar disorder had disruptions in brain patterns to and from the nucleus accumbens, a portion of the brain known as our “reward” system.

“It looks like the reward area loses its functional connection with the parts of the brain that deal with fear and anxiety,” he says. “We suspect that this functional change no longer allows fear or anxiety to be moved into decision-making, which is why you see the impulsivity and grandiosity in bipolar disorder. They are just not considering that something might be dangerous.”

The research team was able to show that treating the mice with lithium, a common treatment for psychiatric disorders, restored normal brain patterns in the affected mice, but had no effect on the normal mice.

More recently, Dzirasa has been collaborating with Herb Covington, PhD, also a faculty member at DIBS, to examine brain patterns of mice in socially stressful situations as a model for depression and post-traumatic stress disorder (PTSD).

“We started with this idea that if we could understand the brain not from a chemical standpoint but from a network standpoint, we could apply our understanding across different disorders,” he says. “For example, depression is diagnosed by a constellation of symptoms. The problem is these constellations of symptoms don’t tell us about the underlying biology of the disease.”

In work that is still underway, the scientists have gained hints that depression-like behaviors in mice can be reversed by stimulating specific cells that synchronize the electrical networks in the brain. The research is like a more targeted variation of deep brain stimulation currently used to treat chronic depression. The research even suggests

that some mice are more emotionally resilient and less prone to depression.

“It may mean that there are subtle differences in the brain that make some of us more prone to be vulnerable to stress,” he says.

By mapping these networks, Dzirasa hopes to create targeted “network tools,” to treat not only depression, a condition in which the brain’s networks may temporarily get derailed or change tracks, but also schizophrenia, a condition in which patients lose network connections permanently. He hopes to one day be able to reconnect these missing neural

networks using his network pacemaker.

While correcting mental illnesses with a pacemaker may seem to belong to the realm of science fiction, Dzirasa and his Duke colleagues have already shown that, at least in mice, they are on a promising track. ■

Dzirasa hopes to create targeted ‘network tools’ to treat not only depression...but also schizophrenia.



Dzirasa holds the special micro-array helmet worn by mice in his lab. Electrodes in the helmet record brain patterns in real time.

1940s

William P. Wilson, T'43, MD'47, HS'49-'54, of Durham, recently received *in absentia* the President's Heritage Award from the Christian Medical and Dental Association at the association's annual meeting in Mt. Hermon, Calif. Wilson is considered a pioneer in Christian psychiatry. He served on Duke's faculty from 1955-1958 and from 1960-1984.



▲ **Robert M. Sinskey, MD'48, HS'49-'50, '53-'54**, published his autobiography, *A Life in Focus*, in 2010. Also that same year, he was awarded a doctor of science, *honoris causa*, from Washington and Lee University. He has a pediatric eye care clinic named after him in Ethiopia, where he successfully tested a radical new procedure to correct nystagmus. The Sinskey Pediatric Eye Care Clinic is supported by the American Society of Cataract and Refractive Surgery. Sinskey owns an organic and biodynamic winery in Napa, Calif., where he has produced award-winning wines. He and his wife, Loraine, have five children and 10 grandchildren between them and a new puppy named Maggie.

John W. Wilson Jr., T'46, MD'49, HS'52-'56, of Conway, S.C., retired in July 2011 after 55 years of practicing internal medicine in the same location. He and his wife have four sons, three of whom are physicians. They also have seven grandchildren, "none of whom want to be physicians," he writes.

1950s

Wilma Jeanne C. Diner, MD'50, attended the dedication of and ribbon-cutting ceremony for the Diner Learning Center for radiology residents at the University of Arkansas for Medical Sciences (UAMS) on May 27, 2011. The event also included the Diner Memorial Lecture in Radiology, which was established in memory of Wilma's late husband, Jack Diner, in 1990. Wilma and her family have a long history of serving UAMS. She served as a faculty member for 41 years and as director of the radiology residency program for 14 years. In 2009, she established the Diner Family Endowment for the Education of Radiology Residents. Retired since 1997, she enjoys swimming, staying involved in the community, and spending time with friends and family. She has three children and three grandsons.

Charles D. Williams Jr., MD'50, is a facilitator for a new Parkinson's disease support group at Plantation Estates Retirement Community in Matthews, N.C., where he lives.



▲ **C. Hilmon Castle, MD'51, HS'51-'52, DC**, retired, served on the University of Utah Medical Alumni Board from 2006-2012. In 2009, he received a distinguished service award from the University of Utah School of Medicine. He published his memoir, *From The Top of the Stairs*, in 2008. He and his wife Linda have six children, all with advanced degrees; 12 grandchildren; and four great-grandchildren. They live in Salt Lake City, Utah.

George W. Paulson, MD'56, HS'57-'59, DC, of Columbus, Ohio, has written five books in the last five years. Topics include William Thornton, MD, who designed the U.S. Capitol; the old state hospital, "Hilltop," in Columbus; the history of the Ohio State University College of Medicine; and Art James, MD, who established Ohio State's cancer hospital. Paulson also was science editor for *Encyclopedia of the Midwest*. His wife Ruth, a retired dentist, now enjoys quilting and doing community service. They have five children. **John, T'79**, is a public health doctor at the Ohio Department of Public Health; **Erik, MD'85, HS'85-'86**, is a professor of radiology at Duke; Henry has been

named chair of neurogenetics at the University of Michigan; Chris is a lawyer and glass artist; and Ruth Ann Castillo is a lawyer and mother of four.

H. Courtenay Harrison, MD'59, HS'59-'60, '63-'66, retired since 2006, recently became a Fellow of the American College of Physicians. In 2005, he received the Physician of the Year Award from the Virginia Beach General Hospital. He writes that he loved every minute of his endocrine practice and misses it daily. He and his wife Barbara have four children and 12 grandchildren.

1960s

Richard L. Reece, T'56, MD'60, has written his 11th book on health care innovation and reform titled, *The Health Reform Maze: A Blueprint for Physician Practices* (Greenbranch, February 2011). It is available on amazon.com. He maintains a blog titled *medinnovations.com*, in which he has written nearly 2,000 posts. He and his wife, Loretta, live in Old Saybrook, Conn.

Stanley I. Worton, MD'60, DC, a retired radiologist, currently serves on the board of directors for the Health Foundation of South Florida. He and his wife, Joan, live in Miami. They have four daughters: Marcelle, Debby, **Linda, T'84**, and Diane; and eight grandchildren.



▲ **John W. Brown, MD'61, HS'61, '65-'66, DC**, was awarded the Order of the Palmetto—South Carolina's highest civilian honor—in 2011 by Governor Nikki Haley. Brown was honored for helping people in need through the creation of free health clinics throughout South Carolina, and his service abroad during disaster relief. He is a general, vascular, and thoracic surgeon, and medical director of wound care at Newberry County Memorial Hospital in Newberry, S.C. He is pictured with his wife, Susandale. They have four children and live in Irmo, S.C.

William A. Gay Jr., MD'61, HS'62-'71, DC-Century, recently completed a seven-year term as executive director of the American Board of Thoracic Surgery. He and his wife, Frances, live in St. Louis, Mo.



▲ **Charles B. Hammond, MD'61, HS'61-'64, '66-'69, DC**, has finished a book started by his daughter Sharon Hammond McAlister, who

Broyles and Family Find a New Beginning in Bolivia

Selling your comfortable home and moving your family to a poverty-stricken city thousands of miles away probably aren't high-ranking items on most new retirees' to-do lists. But that was the plan all along for **Kevin Broyles, MD, MHS-CL, HS'86-'89, S'03**.

Over the past 25 years, Broyles has made it a priority to serve others in his capacity as a Duke urgent care physician and as an individual driven by faith in God. His volunteer service outside of Duke has been on both local and global levels, from educating poor families in Durham on fire prevention to providing medical care and school supplies to children in the slums of Nairobi, Kenya.

These days, he is committed to helping orphans and the estimated 30,000 children who live or work in the streets of La Paz, Bolivia. Intense poverty has produced a society filled with children fighting to survive on their own. Some of the girls even have children of their own, having been raped by men in their families and subsequently thrown out of their homes.

A volunteer with the faith-based relief organization HOPEworldwide since it began in 1991, Broyles had known for years he'd eventually end up doing fulltime mission work overseas, most likely in Kenya. But he made the decision last year to help the organization establish a team in Bolivia, taking on a full-time position as director.

It took only one visit in early 2011 to convince Broyles and his wife, Noelle, to leave Chapel Hill and make La Paz their permanent home. Indeed, they were awed by the breathtaking views of snow-capped mountains surrounding the city, located more than 10,000 feet above sea level. But Broyles says the sight of neglected children in dire need, and learning of the plight of sexually abused, unwed mothers made their choice easy, even though neither he nor Noelle spoke Spanish.

"I can't forget what I saw. The things we take for granted in the U.S. are a gift," he says. "I believe God has a special place for orphans, widows, and the poor."

Broyles retired as medical director of Duke Urgent Care Services, and he and Noelle settled in a small apartment in La Paz in August. Their younger daughter, Brianne, came along as well to devote a year between high school and college to volunteering.

Friends and family weren't surprised by the trio's life-changing move. "Our family has always had a mission mindset," says Broyles, who has been joined by his wife and two daughters on several mission trips in the past.

The HOPE Bolivia team is working in partnership with Foundation



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"I believe God has a special place for orphans, widows, and the poor."

– Kevin Broyles

Broyles, left, his daughter Brianne, and wife Noelle hope to make lasting change in Bolivia.



Arco Iris (FAI), a local nonprofit organization that runs a 100-bed hospital and social programs, including two orphanages and a home for teen mothers and their babies. Broyles spends most of his days working with FAI founder The Reverend Jose Neuenhofer and other leaders to find ways to sustain the hospital and provide leadership development among hospital doctors, nurses, and staff. In February, the hospital started the country's first nursing assistant program.

Brianne, who is fluent in Spanish, initially volunteered with FAI's two daycares and now serves as a translator for her parents. A high-right-leg amputee and former nurse, Noelle volunteers at the girls' orphanage and the home for teen moms. "They have endured unthinkable wounds that have shattered their hopes," she wrote of the girls on the HOPE Bolivia team's blog. "But these girls possess great strengths."

Brianne will return to the U.S. in May and plans to attend Kennesaw State University this fall. The Broyles' older daughter, Candice, will soon graduate from the University of Georgia.

Broyles still holds a Duke faculty appointment and hopes to get more Duke providers and medical students involved in Bolivia. *Read the HOPE Bolivia team's blog at hopeinbolivia.wordpress.com.*

– Bernadette Gillis

died in 2009. *Lucky Girl* chronicles Sharon's diagnosis and treatment of stage III breast cancer at the age of 42 and her husband's battle with and death from Lou Gehrig's disease. The book also includes reflections from Hammond, who is professor and chairman *emeritus* in Duke's Department of Obstetrics and Gynecology.

Harry C. Huneycutt Jr., MD'61, HS'61-'66, DC, has practiced medicine for more than 40 years but continues to work two to three days a week. He sees patients on a weekly basis in his Reno, Nev., office; performs surgeries; assists other doctors with difficult cases; and trains younger doctors who move to the area. He also attends national and local medical conferences each year. He and his wife have six children between them. They also have six grandchildren ranging in age from 24 to 2. One of their youngest daughters is completing a doctorate degree in psychology, and another plans to pursue a master's degree in fine arts in the next year. Their youngest son, Joseph Kenneth, died July 2010 at the age of 50 due to complications associated with a birth defect. One granddaughter is a third-year medical student. Huneycutt helped deliver his twin grandchildren, who are now 2.

Yank D. Coble Jr., T'59, MD'62, DC, of Ponte Vedra Beach, Fla., received a Health Care Hero Lifetime Achievement Award from the *Jacksonville Business Journal* for his contributions to the health care field. He currently

is a distinguished professor in the Brooks College of Health and director of the Center for Global Health and Medical Diplomacy at the University of North Florida. He was a Jacksonville clinical endocrinologist for more than 35 years.

Nancy R. Haslett, MD'63, HS'64-'68, DC, of New Orleans, La., is semi-retired but continues to work in child psychiatry. She is also enjoying the "usual" retirement activities, including trips to Europe and various sites in the United States.



▲ **A. Everette James Jr., MD'63**, and his wife, Nancy Farmer, PhD, were inducted into the Riddick Society for service provided to North Carolina State University (NCSU). They have been active members of the foundation of the NCSU College of Veterinary Medicine, with James serving as president. James also has been elected to the board of the North Carolina Decoy Collectors Society. Selections from his collection of antique waterfowl decoys are displayed in Roanoke Island Festival Park's Visitor Center and Roanoke Adventure Museum. The couple lives in Chapel Hill.



▲ **Thomas F. Henley, MD'68, HS'69-'73, DC**, of Greensboro, N.C., won a gold medal in the discus men's 65-69 year old category at the 2011 National Senior Games in Houston, Texas. He also placed seventh in shot put. He and his wife, Sandra, have three children. Tommy is married with one daughter; Brian is married with three daughters; and Kristen is married with three daughters.

Joe Leigh Simpson, T'64, MD'68, DC, has been named senior vice president for research and global programs at the March of Dimes. He currently is executive associate dean for academic affairs at Florida International University Herbert Wertheim College of Medicine in Miami. At the March of Dimes, he will guide the organization's global partnerships with academic medical centers, international organizations, and non-government organizations in middle- and lower-income countries to help improve maternal and infant health. Prior to his new appointment, Simpson served on the March of Dimes' Scientific Advisory Board, Scientific Advisory Committee on Prematurity, and Prematurity Research Initiative Advisory Council.

1970s

Timothy M. Boehm, MD'71, DC, writes that he has had two 20-year careers. He spent 20 years in the U.S. Army, retiring as a colonel, and he has spent nearly 21 years with Little Rock Diagnostic Clinic in Arkansas. He lives in Little Rock.

John F. Modlin, T'67, MD'71, HS'71, chair of pediatrics at Dartmouth Medical School and Dartmouth-Hitchcock Medical Center, will serve as interim director of the Children's Hospital at Dartmouth. He is an internationally recognized expert on vaccines and viral diseases. As interim director, he will oversee a system with 269 pediatric physicians, surgeons, and mid-level practitioners at five main locations and several smaller practices around New Hampshire. Modlin arrived at Dartmouth in 1991. He and his wife, Sharyn, live in Grantham, N.H.

John M. Peterson, PhD'68, MD'72, ended his general medicine practice in May 2011 but continues to work one to two days a week doing wound care and hyperbaric oxygen treatments at the Trinity Medical Center Wound Care Center in Bettendorf, Iowa. He has long been interested in diving and hyperbaric medicine and says, "This is a good step toward retirement. It's interesting and gratifying work with no call." He and his wife Linda live in Rock Island, Ill.

Paul R. Lambert, T'72, MD'76, HS'76, currently serves on the executive committee for the American Board of Otolaryngology and has been named president-elect of the American Otolological Society. He and his wife Debbie live in Charleston, S.C. Their daughter **Lara, T'02**, is in the second year of a pulmonary-critical care fellowship. Their son Paul is a third-year dental student. Daughter **Leslie, T'05**, is a coordinator for the fifth- and sixth-grade church school at Peachtree Presbyterian Church in Atlanta, Ga.

William G. Ward, MD'79, HS'84-'89, a professor of orthopaedic surgery at Wake Forest University Baptist Medical Center and founding director of the community bank Southern Community Financial Corporation, has been named the bank's chairman of the Board of Directors. He and his wife, Corrine, have four children and live in Winston-Salem.

1980s

Kemp H. Kerstine, T'78, MD'82, has been named chair of thoracic surgery at the University of Texas Southwestern Medical Center in Dallas. Kerstine is a nationally renowned expert in minimally invasive lung and chest surgery. Prior to this appointment, Kerstine was director of the lung cancer and thoracic oncology program at City of Hope Medical Center and Beckman Research Institute near Los Angeles. He and his wife, Cassandra, live in Valencia, Calif.

Karas Tackles Concussions as Falcons' Physician

Sure, being the team physician for the National Football League's (NFL) Atlanta Falcons franchise makes him the envy of many sports medicine friends, admits **Spero G. Karas, MD, HS'93-'99**. It can be pretty heady stuff.

But Karas is much more interested in other heady issues with professional football—specifically concussions.

In addition to treating sprains, cramps, muscle pulls, dislocated joints, and broken bones, Karas, an orthopaedic surgeon at the Emory Sports Medicine Center and associate professor of orthopaedics at Emory University School of Medicine, is fervid about protecting Falcons players' brains from long-term damage from concussion, often caused by violent helmet-to-helmet collisions.

Stiffer penalties for players who commit dangerous hits and a heightened safety protocol followed the 2010 collective bargaining agreement between the NFL Players' Association and NFL management. The brain injury has been linked to serious long-term health problems including Alzheimer's and Parkinson's disease, and depression.

"If there is any doubt that a player has a concussion, then he is immediately removed from the game and sent to the locker room for evaluation," Karas says. "What the human brain needs after a concussion is rest."

The NFL reports that about 150 players suffered mild or severe concussions during the 2010 season.

Karas began his duties last February. He says Falcons head coach Mike Smith has never interfered with his medical team's assessment or treatment plan for a concussed or suspected concussed player. "They let us do our job," he says.

When a player complains of being "woozy" after a hard hit to the head, or if Karas sees a violent hit to the head of one of his players, he immediately pulls him from the field and conducts an initial sideline assessment consisting of cognitive drills like reciting a list of numbers backwards, balancing exercises, and looking for physical signs like glassy eyes, confusion, or a bruise.

If a concussion is suspected, "the player is done for the day," Karas says. He is brought to the locker room to rest in a dark room to avoid eye stress.

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"Not only did I receive top-notch mentorship, but I got to work with the men's basketball team and help elite athletes like Elton Brand and Shane Battier."

– Spero G. Karas

On Monday and Tuesday, Karas evaluates all players injured in the previous day's game and performs follow-up treatment. A concussed player is sent home both days to rest, even if he is asymptomatic. This is not an NFL rule, but Karas' policy.

On Wednesday, Karas conducts baseline neurological and cognitive tests and measures the results against the player's baseline cognitive scores that are taken once every 2 years. If scores are normal the player will be allowed to exercise lightly on a treadmill. If no problems develop, he is allowed to participate in non-contact practice.

On Thursday, an independent neurological examiner not employed by the team evaluates the player. Based on that, Karas submits a preliminary injury report to the coach, listing the player as eligible, probable, questionable, or injured.

"In 2012 there are multiple layers of protection," Karas says. "But players don't necessarily approach you and you might not



Spero G. Karas on the sidelines during an Atlanta Falcons football game in 2011.

see every impact." So another new NFL policy was introduced in which a certified athletic trainer—called an NFL observer—sits in the press box watching the game on closed circuit television. If he sees a hit to the head that went unnoticed he alerts the bench and the player must be evaluated.

Karas credits Duke for his passion for sports medicine. His professors were sports medicine legends like William Garrett, MD; Frank Bassett, MD; **John Feagin, MD'61**; and **James Urbaniak, MD'62, HS'62-'69**, the former chair of the Department of Orthopaedic Surgery.

"I came through Duke at a time when we were really rocking," he says. "Not only did I receive top-notch mentorship, but I got to work with the men's basketball team and help elite athletes like Elton Brand and Shane Battier. I got to see them be coached by one of the greatest coaches the sport has ever seen. I'll carry those experiences and memories with me forever."

Karas, his wife Johanna, and their three children live in Atlanta.

– Jim Rogalski



▲ **Etta D. Pisano, MD'83**, gave the 16th Annual A. Everette James Jr. Lecture in Radiological Sciences at Vanderbilt University School of Medicine in November. Her lecture was titled, "What We Learned from DMIST and What We Still Need to Know About Breast Cancer Screening." Pisano, who currently serves as dean of the College of Medicine and vice president for medical Affairs at the Medical University of South Carolina, was principal investigator of the Digital Mammographic Imaging Screening Trial (DMIST), the largest clinical trial ever run by a radiologist. She and her husband, **Jan Kylstra, MD'83**, have four children. Their hobbies include hiking, watersports, reading, and travel. They live in Sullivan's Island, S.C.

Alexander M. Eaton, T'82, MD'87, DC, founder and director of Retina Health Center in Fort Myers, Fla., has been named to the Best Doctors in America database for 2011-2012. It is his fifth straight year of being named to the list. Best Doctors Inc. was founded in 1989 by Harvard Medical School. He lives in Fort Myers.

Lisa G. Rider, T'83, MD'87, was named the 2011 Physician Researcher of the Year by the Physicians Professional Advisory Committee of the U.S. Public Health Service. She was cited for groundbreaking research in the area of juvenile dermatomyositis. A captain in the Commissioned Corps of the U.S. Public Health Service, she is deputy chief of the National Institute of Environmental Health Sciences' Environmental Autoimmunity Group in the Office of Clinical Research at the National Institutes of Health. She is attending physician at the Myositis Clinic in the Division of Rheumatology and clinical professor in the Department of Medicine at George Washington University. She lives in Bethesda, Md.

1990s



▲ **Michael S. Cuffe, MD'91, HS'91-'95, MBA'09, DC**, began duties in October as president and CEO of physician services for HCA Healthcare based in Nashville, Tenn. HCA operates 164 hospitals and 111 ambulatory surgery centers around the country. Prior to taking the position, Cuffe was vice president for ambulatory

services and chief medical officer of Duke University Health System.

Todd S. Barry, MD'95, PhD'95, has been appointed medical director of PathCentral Inc., a company based in Irvine, Calif., that provides a range of technology-based solutions and services for community pathologists. In his role as medical director, he will serve as the company's senior clinical officer, establishing and maintaining strict laboratory quality and patient safety standards. He will also oversee PathCentral's continuous quality improvement programs. Barry previously served as hematopathologist and medical director at Clariant (now GE) and director of molecular pathology and hematopathology at PhenoPath Laboratories. He and his wife, Marjorie, live in Mission Viejo, Calif.

Aurora D. Pryor, E'91, MD'95, HS'95-'03, is chief of the Division of General Surgery at Stony Brook University Medical Center in Stony Brook, N.Y. She is building a bariatric practice as well. She and her husband of 17 years, **William E. Beasley Jr., E'90**, have two children, Sage, 13, and Ariana, 10, and

live in Stony Brook.

Jeffrey M. Hardacre, MD'96, was recently promoted to associate professor of surgery and named section head of pancreatic surgery at University Hospitals Case Medical Center in Cleveland, Ohio. His wife, **Hadley M. Wood, T'94, MD**, is a staff urologist at the Cleveland Clinic Foundation specializing in genitourinary reconstruction. They live in Shaker Heights, Ohio, with their two children, Beatrice, 5, and Rosie, 1.

Cynthia M. Boyd, MD'97, and **Gregory M. Lucas, MD'94**, of Towson, Md., welcomed a baby girl, Jane Susanna Lucas, on Sept. 6, 2011. The couple also has two other children, Graham, 8, and Liam, 6.

Gregory J. Della Rocca, PhD'98, MD'99, DC, has been promoted to associate professor of orthopaedic surgery at the University of Missouri and continues as co-director of the orthopaedic trauma service. He and his wife, Kelly, welcomed their second child, Miles, in August 2011. The family lives in Columbia, Mo.

2000s

Gregory E. Grunberg, MBA'00, MD'01, has joined

Longitude Capital, a life sciences venture capital firm in Menlo Park, Calif., as managing director. He will focus on medical device investments. Prior to joining Longitude, Grunberg was a principal at Rho Ventures, a multi-stage, multi-sector fund where he focused on medical device, biotechnology, and other health care investments. He lives in Palo Alto, Calif.



▲ **George A. Manousos, MD'02, HS'02-'05**, completed his first marathon last year in Wrightsville Beach in 4 hours and 7 seconds. Since he was so close to breaking 4 hours, he said he'll likely run another marathon "down the road." He's pictured with his daughter Eva. Manousos is a pediatric hospitalist at Levine Children's Hospital in Charlotte. His wife **Erica, MD, HS'01-'04**, is a pediatrician with University Pediatrics in Charlotte. The family lives in Mint Hill, N.C.



1960s



▲ **Charles P. Darby Jr., MD, HS'61**, received the Jerry Zucker Lifetime Achievement Award from *Charleston Magazine*. He is currently executive director of the Center for Child Advocacy, which provides government relations, advocacy, and development services in support of the Medical University of South Carolina (MUSC) Children's Hospital. Darby founded MUSC Children's Hospital in 1987. In the past 30 years, his career has also included helping to generate more than \$101 million in philanthropic funding for pediatrics programs, and he recently helped secure a \$1 million donation for the Boeing Center for Promotion of Healthy Lifestyles in Children and Families. Darby and his wife, Joyce, live in Charleston and have five children and 16 grandchildren.

Sushil S. Lacy, MD, HS'63-'64, was elected in May 2001 to a one-year term as president of the American Urological Association (AUA). Lacy is a clinical professor of urology at the University of Nebraska Medical Center and is in private practice in Lincoln, Neb., with seven other urologists. Lacy has served on the AUA Board of Directors and several AUA

committees. He currently serves on the AUA Foundation Development Council and is a mentor in the AUA Leadership Program. He and his wife, Jane, live in Lincoln.

1970s

Richard H. Daffner, MD, HS'70-'73, of Pittsburgh, Pa., recently had the third edition of *Imaging of Vertebral Trauma* published by Cambridge University Press. In 2010 he was honored by the American Board of Radiology with its Lifetime Service Award.



▲ **Barton F. Haynes, MD, HS'73-'75**, director of the Duke Human Vaccine Institute, has won the 2011 Alexander Fleming Award from the Infectious Diseases Society of America. Haynes, the Frederic M. Hanes Professor of Medicine and Immunology, is known for his work on the origins and development of the human immune system, for his work in HIV pathogenesis and HIV vaccine development, and for work performing the basic thymus biology studies that, along with **Louise Markert, MD'79, PhD'81**, at Duke, made possible human thymus transplantation as a curative treatment for DiGeorge Syndrome. Haynes and his wife, **Caroline Haynes, MD'79, PhD'83, HS'84-'89**,

the associate dean for medical education at Duke, live in Durham.

C. Bruce Alexander, MD, HS'75-'79, was named in October as president of the American Society for Clinical Pathology, which has more than 100,000 members. He will hold the position for one year. Alexander is professor and vice chair of the Department of Pathology at the University of Alabama at Birmingham. He lives in Birmingham.

1980s

W. Randolph Chitwood Jr., MD, HS'74-'84, received the Bakoulev Premium Medal from the Bakoulev Scientific Center for Cardiovascular Surgery and the Russian Academy of Medical Sciences. It is Russia's highest recognition for cardiovascular science. Chitwood is director of the East Carolina Heart Institute and professor of cardiovascular sciences and senior associate vice chancellor for health sciences at East Carolina University in Greenville, N.C. He was recognized for his groundbreaking work in minimally invasive cardiac procedures, especially those that use robotics. He and his wife, Tamara, live in Greenville.

Darryl C. Zeldin, MD, HS'86-'89, has been named scientific director of the National Institute of Environmental Health Sciences (NIEHS), which is part of the NIH. In this role, he will lead and manage a \$114 million biomedical research program focused on discovering how the environment influences human health and disease. Zeldin has spent most of his professional career at NIEHS,

where he has served in several leadership roles, including as president of the NIEHS Assembly of Scientists. He also currently holds a faculty position at Duke.

1990s

Marcel R. van den Brink, MD, HS'91-'93, has been named chair of the Division of Hematology Oncology at Memorial Sloan-Kettering Cancer Center in New York City. Van den Brink, an immunologist and medical oncologist, is an expert in allogeneic (donor provided) blood stem cell transplantation for adult cancer patients. He and his wife, Lia Palomba, MD, have two children and live in New York City.



▲ **Orlando E. Silva, MD, HS'91-'94**, associate professor of medicine and faculty member of the Jay Weiss Center for Social Medicine and Health Equity, received the Outstanding Hispanic Award at the Americano's First Annual Hispanic Forum, held in Washington, D.C., in December. Silva is a medical oncologist with the Braman Family Breast Cancer Institute at the Sylvester Comprehensive Cancer Center at the University of Miami. The Cuban-born doctor followed in his father's footsteps by becoming a doctor and

focused on breast cancer after the death of his mother. He lives in Coral Gables, Fla.



▲ **Amy P. Murtha, MD, HS'92-'96**, the vice chair for research in the Duke Division of Obstetrics and Gynecology, was inducted into the American Association of Gynecology and Obstetrics Society last September. She and her husband, Robert Bedlam, and their two daughters live in Hillsborough.



▲ **Chyke A. Doubeni, MD, HS'95-'98**, associate professor at the University of Massachusetts School of Medicine, is one of 94 recipients of a 2010 Presidential Early Career Award for Scientists and Engineers. It is the highest honor bestowed by the United States government on science and engineering professionals in the early years of their independent research careers. With the funding support associated with the award, he

will examine the effectiveness of screening colonoscopy in reducing death among average-risk adults. He lives in Worcester, Mass.

Angela Alvarez Secord, MD, HS'94-'95, '98, MHS'11, an associate professor in the Duke Division of Gynecology Oncology, was inducted into the American Association of Gynecological and Obstetrics Society last September. She and her husband, Steve Secord, have three children and live in Chapel Hill.

2000s

John J. Warner, MD, HS'99-'00, has been named CEO of University of Texas (UT) Southwestern Hospitals. He previously was assistant vice president for hospital planning and was a leader in the planning process for the 460-bed University Hospital now under construction at UT Southwestern. Warner is an interventional cardiologist who serves as medical director of the Doris and Harry W. Bass Jr. Clinical Center for Heart, Lung, and Vascular Disease. He lives in Dallas.

Omar S. Manejwala, MD, HS'97-'01, an addiction medicine specialist, has joined Catasys Inc., a health care services management company based in Los Angeles, as senior vice president and chief medical officer. The company provides specialized health management services to health plans, employers, and unions through a network of licensed and company-

managed health care providers. He is responsible for Catasys' clinical affairs and clinical development of the company's OnTrak program, designed to address substance dependence as a chronic disease. Manejwala has been interviewed on *Good Morning America*, *20/20*, *CBS Evening News*, and *ABC News Tonight*, and featured in articles in *The New York Times*, *Chicago Tribune*, and other major news media.

James R. McCurdy II, MD, HS'98-'01, a general and cardiac anesthesiologist with Anesthesia Associates of Colorado Springs, Colo., completed the San Juan Solstice Ultramarathon 50-mile race in 2010. He also completed the race in 2008. The average altitude of the Lake City, Colo., race is 11,000 feet. He and his wife, Caren, have three children, ages 11, 14, and 17, and live in Colorado Springs.

Kathleen M. Greaney, MD, E'96, HS'01-'04, and her husband, Michael Schmidt, welcomed their first child, Lauren, on December 22. Greaney is a pediatrician with Maple Avenue Pediatrics in Fair Lawn, N.J. The family lives in Suffern, N.Y.

Christopher Ratnasamy, MD, HS'06-'07, was recently appointed director of electrophysiology at the University of Arkansas Children's Hospital. He and his wife, Monica Christopher, live in Little Rock.

Full obituaries can be found on the Medical Alumni Association Web site at medalum.duke.edu. Please click on the magazine cover, then click on obituaries.

George S.E. Aitken, MD, HS'82-'88, of Durham died February 13, 2012, after a lengthy battle with cancer. He was 56. Dr. Aitken began practicing orthopaedic surgery in the Philadelphia area in 1989. He returned to Duke in 1995, serving as assistant professor of orthopaedic surgery. While at Duke, he established the first outreach program for the Division of Orthopaedic Surgery and Duke Private Diagnostic Clinic by starting and growing Duke Orthopaedics of Person County. He was a Fellow of the American Academy of Orthopaedic Surgeons and a member of the Piedmont Orthopaedic Society.

Thomas James Banton, Jr., MD'61, of Joplin, Mo., died December 25, 2011. He was 76. Dr. Banton was an orthopaedic surgeon associated with the Northland Orthopaedic Group in St. Louis and served on the staff of De Paul Hospital and Christian Hospital. A longtime St. Louis resident, he was in practice 30 years before retiring in 1995. He also served as a captain in the U.S. Army.

Freeman A. Berne, MD'64, of Sheldon, S.C., died January 22, 2012, following a short illness. He was 73. Dr. Berne founded Lumberton Radiological Associates (LRA) in Lumberton, N.C., and is considered by many in the area to be a pioneer in medicine in Robeson County. He served in the U.S. Air Force from 1965-1967 and moved to Lumberton in 1970. He retired from LRA in 1997 and moved to Bald Head Island, N.C., before he and his wife, Billie Jean, moved to Brays Island Plantation in Sheldon.

John P. Briggs, MD, HS'49-'50, of Amherst, Mass., died of cancer November 28, 2011. He was 90. After entering private practice in 1955, Dr. Briggs served for 23 years on the attending faculty of Columbia Presbyterian Medical Center and the N.Y. State Psychiatric Institute and Hospital, and was assistant clinical professor of psychiatry at Columbia University's College of Physicians and Surgeons. For 27 years before his retirement in 1992, he also was psychiatric consultant to the Reed Clinic in Westchester County, N.Y.

W. Lester Brooks Jr., MD'47, died January 14, 2012, at Southminster Health Care in Charlotte, N.C., after a gradual decline in health. He was 88. During the Korean War, he served as a first lieutenant in the U.S. Army. A native of Charlotte, Dr. Brooks first established a practice as a family physician in Charlotte in 1954 and later established Charlotte Internal Medicine Associates. He was an active member of the N.C. Medical Society and served as president of the Mecklenberg County Medical Society.

Charles E. "Nick" Carter, MD'62, HS'63-'64, '66-'68, died January 28, 2012, in Santa Rosa, Calif. He was 75. Dr. Carter worked at Grady Memorial Hospital in Atlanta, Ga., and in private practice at Redwood Radiology for 30 years. He was a veteran of the U.S. Navy and a member of the Naval Officer Medical Corps, the American Medical Association, and the American Board of Radiology.

C. Curtis Collins Jr., MD'40, of Jacksonville, Fla., died December 14, 2011. He was 96. Dr. Collins served as a full commander in the U.S. Navy during WWII on board the battleship *Missouri*. He began practicing medicine in Jacksonville in 1953 and served as chief of staff at St. Luke's Hospital.

Porter F. Crawford, MD, HS'52, of Palm Harbor, Fla., died September 17, 2011. He was 89. Dr. Crawford's career included serving as head of the dermatology department at the Upjohn Company in Kalamazoo, Mich., and practicing privately in Pinellas County in Florida.

John N. Christie Jr., T'54, MD'58, of Cashiers, N.C., died August 25, 2011. Dr. Christie served in the U.S. Army before returning to his hometown of Jacksonville, Fla., where he practiced medicine for more

Planned Gift was Inspired by Duke's Faith in Eager Student

It's hard to argue that C. Thomas Caskey, MD'62, HS'63-'65, wasn't an extremely driven undergraduate student, considering that after only two years of college, he decided it was time to move on to medical school. Unfortunately for the University of South Carolina student, his state medical school didn't agree.

Neither did Duke—at least not at first. Upon receiving Caskey's application, School of Medicine administrators suggested that he complete one more year of undergraduate studies. But Caskey wasn't having any of that and continued to make his case for admission. After all, his hard work taking extra classes and attending summer school had put him just six



C. Thomas Caskey

"Duke took a gamble on me."

hours short of a bachelor's degree. He was put on a deferred list initially, but not long after, the 20-year-old was accepted into the medical school.

"Duke took a gamble on me," Caskey says. It was a risk that paid off handsomely for Caskey, whose mind was broadened to think beyond traditional medical practice, and for the school itself, which can proudly count a genetics pioneer among its alumni ranks.

Once enrolled, Caskey was nurtured and guided by some of Duke's greatest minds in medicine, including E. Harvey Estes Jr., MD, HS'52-'54, who gave Caskey his first research job, and James B. Wyngaarden, MD, whom Caskey worked under as a biochemical fellow. It was Wyngaarden who introduced Caskey to biochemist Marshall Nirenberg, PhD. Caskey went on to work as a research associate with Nirenberg at the National Institutes of Health, and their research led to Nirenberg's winning a Nobel Prize for breaking the genetic code.

Today Caskey is a professor of molecular and human genetics at Baylor College of Medicine, and his numerous achievements include establishing Baylor's molecular genetics program and discovering 11 genetic disease genes. He also developed the forensic DNA system that is used by crime scene investigators worldwide.

As a way of saying thanks to Duke and the professors who put him on the path to become a renowned researcher, Caskey and his wife, Peggy, WC'61, established a \$50,000 gift annuity with the School of Medicine.

"We already had Duke in our will, but I said, 'What the hell? Why shouldn't I set up the gift annuity?'" He adds, "I will always be grateful to Duke and what the school did for me in my early years."



For more information about how you can make a difference with a Duke Medicine charitable gift annuity, please contact Joseph W. Tynan, JD; Director of Gift and Endowment Planning; Duke Medicine Development and Alumni Affairs; 512 S. Mangum Street, Suite 400, Durham, NC 27701-3973; tynan002@mc.duke.edu, or 919.667.2506. Visit us on the Web at dukemedicine.org/giving.

than 30 years at the Riverside Clinic. He retired to Cashiers permanently after living there part-time for years.

Thomas W. Critchfield, MD, HS'47, of Lake Stevens, Wash., died October 17, 2011. He was 91. In 1944, Dr. Critchfield joined the U.S. Navy Medical Corps, where he was assigned to a troop ship stationed in the South Pacific. He went on to become

a prominent physician with the Everett Clinic in Lake Stevens for 29 years. The obstetrician delivered nearly 8,000 babies during his career. In his time off, he had a passion for boating.

James C. Crutcher, MD'49, of Atlanta, Ga., died October 11, 2011. He was 87. Dr. Crutcher was a first lieutenant in the U.S. Army and saw active duty as a

battlefield surgeon in the First Cavalry Division in the Korean War. He was chief of medicine at the Veterans Administration Hospital in Atlanta for 26 years and chief medical director of the National Veterans Administration Hospital System in Washington, D.C., for two years. His career also included serving as professor of medicine and professor of health science

Heyman Was Pioneering Researcher, Founder of Duke Stroke Center

Albert Heyman, MD, a groundbreaking neurology researcher and founder of the Duke Center for Cerebrovascular Disease, which today is called the Duke Stroke Center, died Feb. 10, 2012. He was 95. Heyman was a longtime faculty member in the Duke Division of Neurology, and in 2004 received the Duke Medical Alumni Association's William G. Anlyan, MD, Lifetime Achievement Award.

His national organized studies on the relation of stroke to estrogen-based birth control pills helped change these contraceptives and made them safer for young women. His epidemiological studies raised awareness of the risk of stroke in African-Americans.

He joined the medical faculty at Duke in 1954 as an associate professor of neurology. As a full professor of neurology from 1961-1986, he was a valued teacher and generous mentor, reminding young physicians to respect and attend to the whole person. Beginning in 1979, he turned his focus to Alzheimer's disease. In the years that followed, his research and collaborative studies standardized the way the disease was diagnosed throughout the world.

From 1961-1990 he held a National Institutes of Health Career Award. Duke University School of Medicine recognized him with its Distinguished Teacher Award in 1991.

He was born in Baltimore and earned bachelor's and medical degrees from the University of Maryland. He spent his first nine years as a physician in Atlanta, where he held a joint appointment at Emory University and the Georgia Department of Health.

His wife, Dorothy Keyser Heyman, preceded him in death. Surviving are his daughters, Mical Heyman Schneider and her husband, Mike, and Leslie Heyman Tepper and husband, Elliot; six grandchildren; and six great-grandchildren.

Chandler Was the 'Voice of Cameron Indoor Stadium'

Longtime Duke men's basketball public address announcer **Arthur C. Chandler Jr., MD'59, HS'59-'60**, known as the "Voice of Cameron Indoor Stadium" for 40 years, passed away on Christmas Day 2011. He was 78.

Chandler retired from the position at the close of the 2009-10 season. He left a lasting impression on the Duke fan base with his signature introduction of, "Here comes Duke!" which he began using at the suggestion of former Blue Devil Alaa Abdelnaby. Chandler manned his first game behind the microphone in 1970. During four decades at the scorer's table, he saw four national championship teams, 12 ACC Tournament championships, and a plethora of All-America athletes.

"Art Chandler was a great friend of the program," said head coach Mike Krzyzewski. "He not only helped out at Duke but was also active with his military service. Art went out of his way to help mankind and I greatly respected that about him. Our thoughts and prayers go out to his family. He will be missed."

Chandler was a longtime Duke faculty member and professor emeritus of comprehensive ophthalmology at UNC-Chapel Hill. He enjoyed a lifelong dedication to teaching medical students and residents at both Duke and UNC.

He proudly served in the U.S. Army Reserve, achieving the rank of colonel and acting commander as the southeast regional medical director for the 81st Regional Support Command.

He is survived by his wife of 31 years, Sarah Chandler; three sons, Arthur Chandler III and wife, Lisa, of Tivoli, N.Y.; Matthew of Huntington, N.Y.; and John and wife, Alex, of Valatie, N.Y.; daughter Ashley of Carlsbad, Calif.; stepdaughter Amy Wienken-Barger and husband, Geoffrey, of Harper's Ferry, W.Va.; and 10 grandchildren.

at Emory University and as district health director for Gwinnett, Newton, and Rockdale counties in Georgia.

Noble J. David, T'48, MD'52, HS'56-'60, DC, died November 30, 2011, in Rotterdam, Holland, after complications following valve replacement surgery. He was 83. A resident of Coral Gables, Fla., he served as a professor of neurology at the University of Miami and as chief of the neurology service at the Veterans Affairs Medical Center. He also worked in the neurology department at Jackson Memorial Hospital. He was a pioneer in fluorescein angiography, and his research significantly advanced the ability of neurologists to predict outcomes in stroke.

William C. Evans Jr., T'49, MD'53, of Gainesville, Fla., died November 27, 2011. He was 82. Dr. Evans established his medical practice as a family practitioner in Gainesville in 1957 and practiced until retiring in 1991. He was a lifetime member of the American Academy of Family Physicians. He served in the U.S. Army as a captain in the Medical Corps. He was a game hunter and an avid fisherman.

Thomas E. Frothingham, MD, founder of Duke's Division of General Pediatrics, died in Durham, N.C., on December 27, 2011. He was 85. Dr. Frothingham founded and served as chief of the Division of General Pediatrics in the Department of Pediatrics and as director of the pediatric clinics from 1974-1987. During that time, he was involved in the Area K pediatrics community health program in rural parts of North Carolina. As a Duke professor emeritus of pediatrics, he helped found the Center for Child and Family Health, a treatment center for N.C.'s abused and neglected children. During the 1960s and 1970s, he also worked in Haiti, Panama, Barbados, and throughout sub-Saharan Africa investigating tropical diseases.

William T. Grimsley Jr., MD, HS'59, died July 20, 2011, in Green Valley, Ariz. Dr. Grimsley served in the U.S. Navy on a destroyer in the Pacific during WWII. He practiced solo medicine in Guilford County, N.C., for more than 35 years and was a Diplomat of the American Board of Family Practice. He served as a

Mary D.B.T. Semans' Passion for Duke Was Endless

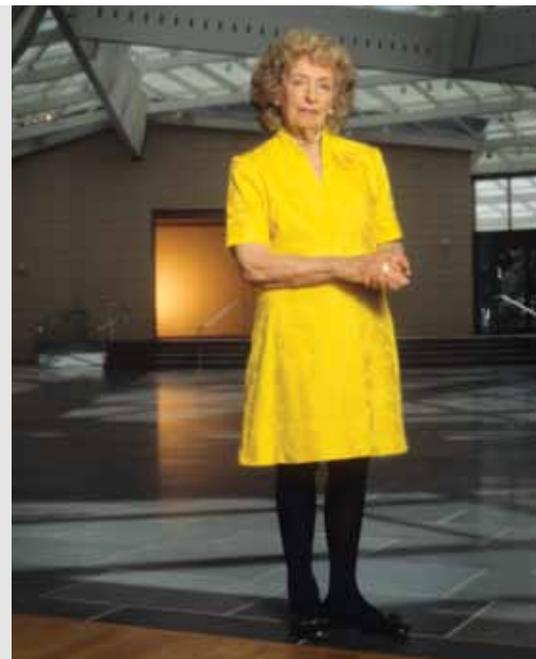
Mary Duke Biddle Trent Semans, WC'39, G-Hon '83, the scion of the family that founded Duke University, died on January 25. She was 91. Although small in physical stature, she was a towering figure in progressive causes throughout her life, championing education, human rights, the arts, and health care.

Victor J. Dzau, MD, chancellor for health affairs and CEO for Duke University Health System, said Semans "has truly been the heart and soul of Duke Medicine."

"She spoke often of the importance of humanity in the practice of medicine and effectively modeled her conviction through personal actions and by sharing her unwavering support and encouragement to Duke physicians and health care providers," Dzau said.

Semans supported the university and Duke Medicine through the Mary Duke Biddle Foundation (begun by and named after her mother), the Josiah Charles Trent Memorial Foundation, the Josiah Charles Trent Collection of the History of Medicine, and the Mary Duke Biddle Scholarship, among other efforts.

The great-granddaughter of industrialist-philanthropist Washington Duke, for whom Duke University is named, Semans was born Mary Duke Biddle on Feb. 21, 1920, the daughter of Mary Lillian Duke and Anthony J. Drexel Biddle Jr., who was U.S. Ambassador to Poland when Hitler invaded that country in 1939, and later U.S. Ambassador to Spain. She was raised in Manhattan. At age 14, Semans moved to Durham to live with



her grandmother, Sarah P. Duke. She enrolled at Duke University when she was 15 and graduated in 1939.

While at Duke, she met Josiah Charles Trent, a medical student at Duke and later a surgeon and chief of Duke Hospital's Division of Thoracic Surgery. The couple married in 1938 and had four children. In 1948, Trent died of lymphoma at age 34.

In 1953, she married James Semans, MD, G-Hon '99, a surgeon and associate professor of urology at Duke who pioneered rehabilitative and urinary surgery. The couple had three children. James Semans died in 2005 at age 94.

She received numerous awards, including the University Medal for Distinguished Meritorious Service—Duke's highest honor; the National Brotherhood Award presented by the National Conference of Christians and Jews, and many others.

Semans is survived by seven children, 16 grandchildren, and 29 great-grandchildren. For more about Mary Semans' life, visit today.duke.edu/2012/01/marysemans.

volunteer with USAID from 1966-1967 and later served in the N.C. legislature for two years.

Rufus R. Hambright, MD'50, DC, of Beaufort, N.C., died February 22, 2012. He was 87. Dr. Hambright served in the U.S. Navy during WWII, and later he served as a medical officer in the U.S. Army during the Korean Conflict. He began his obstetrics and gynecology practice in 1958 in Greensboro, N.C., where he remained until retiring to Beaufort in 1990. His career also included serving as chief of obstetrics and gynecology and chief of staff at Wesley Long Hospital in Greensboro.

Charles P. Hayes Jr., MD'59, HS'59-'60, '62-'64, DC, of Jacksonville, Fla., died December 10, 2011. He was 77. Early in his career, Dr. Hayes spent five years on Duke's faculty. He later entered practice at Riverside Clinic in Jacksonville in 1969. His medical career spanned 30 years. He was a driving force behind the establishment of North Florida's first freestanding kidney dialysis clinic, and held numerous leadership roles in Jacksonville and the state of Florida's medical communities, including serving as president and CEO of Riverside Hospital.

Jerry L. Jones, MD'63, of Modesto, Calif., died January 11, 2012, after a long battle with cancer. He was 75. Dr. Jones was a captain in the U.S. Air Force, serving two years in the Vietnam War. He practiced orthopaedic surgery and was an avid golfer and skier. Near the end of his life, he enrolled in two medical studies at Stanford University School of Medicine in the hope of helping to advance the research and development of lung cancer treatment.

Ernest B. Page Jr., MD'49, HS'49, '53-'55, of Raleigh, died at home on September 13, 2011, after a 16-month battle with pancreatic cancer. He was 85. Dr. Page spent two years in the U.S. Air Force and later opened his medical practice in Raleigh in 1955. He practiced internal medicine for 37 years. He was active in various medical organizations, holding leadership positions that included president of the Raleigh Society of Internal Medicine. He also devoted much of his free time to community service. He took 14 medical mission trips to Villahermosa, Mexico, and volunteered with schools in Raleigh.

Oscar M. Reinmuth, MD'52, HS'52-'53, died September 23, 2011, in Tucson, Ariz. He was 83. Dr. Reinmuth spent 20 years in the Department of Neurology at the University of Miami. He then served as professor and chairman of the Department of Neurology at the University of Pittsburgh School of Medicine for 16 years. He was a pioneer in the study of cerebral blood flow and was a major contributor in the area of cerebral stroke. In 1993, after a short retirement, he passed the Arizona State Medical Exam and became a clinical professor at the University of Arizona College of Medicine at age 68.

John M. Rhoads, MD, professor emeritus of psychiatry at Duke, died January 29, 2012, at his home in Durham. He was 93. Dr. Rhoads was a veteran of WWII. He began his career at Duke as a professor of psychiatry in 1956. Over the years, he held many positions at Duke, including director of the Department of Psychiatry's residency program, member of the Duke University Institutional Review Board of Clinical Investigations, and member of the Duke University School of Medicine Admissions Committee. He also was a founding member and teaching analyst at the UNC-Duke Psychoanalytic Institute and was a lecturer in the divinity schools at Duke and Temple University.

Wayne K. Ruth, MD'79, of Alpena, Mich., and formerly of Asheville, N.C., died January 27, 2012. He was 60. Dr. Ruth practiced medicine in North Carolina and South Carolina for more than 20 years before moving to Alpena, where he was a pulmonologist and sleep medicine specialist at Alpena Regional Medical Center.

John W. Snow, T'51, MD'55, HS'55-'56, of Jacksonville, Fla., died December 11, 2011. He was 82. Dr. Snow started a hand and reconstructive plastic surgery practice in 1964. He was the first hand surgeon in Jacksonville, then a new surgical specialty. During his 30-year practice, his innovative surgical procedures improved the lives of thousands of people who had been severely injured. During his medical career, he created a number of innovative medical procedures that still bear his name.

Dean R. Taylor, MD'62, HS'62-'63, '65-'68, of Glyndon, Md., died November 19, 2011, at Johns Hopkins Hospital. He was

74. In 1970, Dr. Taylor joined the Division of Cardiology at Johns Hopkins Hospital, where he became the first director of the Coronary Care Unit. In 1974, he went into private practice. He was the first physician to perform a coronary angioplasty procedure at St. Joseph's Hospital. He retired from active practice in 1991 but held an appointment as assistant professor of medicine at Johns Hopkins until his death.

Douglas J. Washing, MD, HS'06, of Sylvania, Ohio, died October 16, 2011, after a long battle with psoriatic arthritis. He was 41. Dr. Washing served as a missionary in Peru, where he rendered medical and pathology services. He had been looking forward to beginning a career in pathology.

Richard N. Wrenn, T'43, MD'47, HS'47-'54, DC-Century, of Charlotte, died January 26, 2012. He was 88. Dr. Wrenn served as a lieutenant in the U.S. Navy. In 1956, he established an independent practice in orthopaedic medicine in Charlotte. He later joined the Miller Clinic, where he served as president, and upon retirement from the Miller Clinic, he became director of orthopaedic services for Carolinas Healthcare System. He also initiated a statewide medical care program for high school athletics that was emulated nationwide, and established orthopaedic clinics in third-world countries.

Jo Rae Wright, PhD, of Durham, who stepped down as dean of the Duke University Graduate School in October 2011, died of cancer on January 11, 2012. She was 56. Dr. Wright was a professor of cell biology, medicine, and pediatrics, and a vice provost of graduate education. She was honored twice with the Excellence in Basic Science Teaching Award at Duke. She was appointed associate dean for graduate programs in 2000 and then vice dean of basic sciences in the medical school in 2002. She became dean of the graduate school in 2006.

“Duke gave me the ability to practice good medicine, for which I am forever grateful.”



Norman H. Garrett Jr.

DAVISON CLUB DONOR SINCE DAY 1

Norman H. Garrett Jr., MD’50, HS’52-’54, has many fond, life-changing memories of his time at Duke—from being a junior resident under the direction of “the chief of everything,” Eugene A. Stead Jr., MD, to meeting his future wife, **Rebecca, N’49**, in the spring of 1947.

So it’s no surprise that Garrett has made it a priority to give to the Davison Club every year since the annual giving club was in its infancy. “Duke taught me how to keep on learning,” says the retired endocrinologist. “Duke gave me the ability to practice good medicine, for which I am forever grateful.”

A Duke education allowed Garrett to have a successful solo practice for nearly 40 years in Greensboro, N.C., and to become a leader in his local community. These days, he enjoys working on his family’s 30-acre farm, woodworking, and splitting time between his and Rebecca’s homes in Greensboro and North Myrtle Beach, S.C.

Garrett feels good knowing his contributions to the Davison Club, which provides unrestricted support for medical education at Duke, will help current medical students realize their dreams of having long, fulfilling careers in medicine as well.

Your gift of \$1,000 (\$500 for young alumni classes of 2001-2011, or \$1,500 for family membership) qualifies you for membership in the Davison Club. *Make your gift online at dukemedicine.org/giving or mail to:*

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Learning Center on the Rise

Construction of the new Duke University School of Medicine Learning Center is on schedule and progressing well toward its early 2013 opening. The \$53 million, six-floor, 84,000 square-foot Learning Center will house teaching and clinical labs, a ground floor auditorium, and flexible, state-of-the-art classrooms to accommodate team-based learning activities. The entire fifth floor will be dedicated to simulation laboratories, and a fourth-floor student life center will offer areas for dining, social, and study activities.

