TOTAL IMMERSION
The art and science of water in our world

ALSO INSIDE:
They, Robots • Whirligig Wonders • Slaves’ Poignant Searches
FROM THE DEAN

Carolina Arts & Sciences • Fall 2012

Finding solutions at home and abroad

As our magazine was going to press, Chancellor Holden Thorp announced he would step down from his post at the end of June and return to his teaching and research as a distinguished professor of chemistry. We remain grateful for his extraordinary leadership and integrity during a time of growth and challenges. During his term, Carolina rose to ninth place nationwide in funding for research and development, continued to attract outstanding students and professors, and, with your help, raised a record amount of private support for faculty, students and academic programs. He also has been addressing a number of areas that need improvement, and is fully engaged in enacting reforms that will leave the University in an even better place.

The hallmark of Chancellor Thorp’s administration has been his encouragement of innovation and entrepreneurship across our campus. He has inspired faculty and students to work together on the world’s biggest problems. One of the greatest challenges is the scarcity of safe drinking water in many parts of the globe.

Every 20 seconds, a child dies from a water-related illness, according to Water.org. That’s a sobering statistic, and at UNC we are hoping to do something about it.

Beginning this fall, the College of Arts and Sciences and the University will take a deep look at water issues through a new two-year academic theme, “Water in our World.” This is being led by Terry Rhodes, a music professor and senior associate dean for fine arts and humanities in the College, and Jamie Bartram, a distinguished public health professor and director of UNC’s Water Institute.

Throughout the pages of this issue, we highlight how College faculty, students and alumni are focusing on water — and the impact of its bounty and its scarcity.

We share the excitement of discovery, such as when marine scientists dig up new information about the BP oil spill, or when a composer records hidden music under water. You’ll find features focusing on water — and the impact of its bounty and its scarcity.

The magazine is jam-packed with other stories as well.

Historian Heather Williams talks about her new book focused on former slaves’ searches for family members after the Civil War and her new documentary film project tracing the lives of Jamaican immigrants. Computer scientist Ron Alterovitz and his team are working to program robots to perform useful human tasks. UNC alumni and faculty are restoring the giant whirligig sculptures of Jamie Bartram, N.C. artist Vollis Simpson. Andy Griffith scholarship winners tell us about the amazing impact the late actor’s gift to the College has had on their lives.

Activities and more are made possible by a combination of public and private funds, thanks to the generosity of North Carolina taxpayers, as well as our alumni and friends. We would like to thank our supporters who have contributed to the College in the last academic year. We highlight their gifts in the Honor Roll.

We remain grateful to all of you for staying connected to Carolina and the College.

— Karen M. Gil, Dean

Gillian T. Cell, 1937-2012

The College mourns the passing of Gillian T. Cell, former Dean of the College of Arts and Sciences and emeritus member of the Arts and Sciences Foundation Board of Directors.

Her influence will be felt on campus and in the community for years to come.

College of Arts and Sciences

• Karen M. Gil, Dean
• Michael Crimmins
  Senior Associate Dean, Natural Sciences
• Jonathan Harlyn
  Senior Associate Dean, Social Sciences and Global Programs
• Shannon Kennedy
  Interim Senior Associate Dean, Program Development, and Executive Director, Arts & Sciences Foundation
• James W. May
  Director of Campaign Planning for the College
• Tammy McHale
  Senior Associate Dean, Finance and Planning
• Bobbi Owen
  Senior Associate Dean, Undergraduate Education
• Terry Rhodes
  Senior Associate Dean, Fine Arts and Humanities

Arts and Sciences Foundation Board of Directors

• James L. Alexandre ’79, Haverford, PA, Chair
• Vicki Underwood Craver ’92, Riverside, CT, Vice Chair
• Karen M. Gil, Chapel Hill, NC, President
• Jonathan Harlyn, Chapel Hill, NC, Vice President
• Tammy J. McHale, Chapel Hill, NC, Treasurer
• James W. May, Jr., Chapel Hill, NC, Secretary
• R. Frank Andrews ’90, ‘95 MBA, Washington, DC
• Valerie Ashby ’88, ’94 PhD, Chapel Hill, NC
• Amy Berry Barry ’91, Naples, FL
• Constance Y. Battle ’77, Raleigh, NC
• Laura Hobby Bedworth ’80, Houston, TX
• Paul Bitter ’86, New York, NY
• R. Duke Buchanan III ’85, West Palm Beach, FL
• Sunny H. Burrows ’84, Atlanta, GA
• Courtney Miller Cavatori ’93, Atlanta, GA
• Mark P. Klein ’81, Chevy Chase, MD
• G. Munroe Cobey ’74, Chapel Hill, NC
• Sheila Ann Corcoran ’92, ’98 MBA, Los Angeles, CA
• Jaroslav T. Folda III, Chapel Hill, NC
• Emmett Boney Haywood ’77, ’82 JD, Raleigh, NC
• Joseph M. Kampa ’66, Potomac, MD
• M. Steven Langman ’83, New York, NY
• Wendell A. McCain ’82, Chapel Hill, NC
• Edwin A. Poston ’89, Chapel Hill, NC
• John A. Powell ’77, San Francisco, CA
• Betsy Shiverick, New York, NY
• H. Martin Sprock III ’87, Charlotte, NC
• Karen L. Stevenson ’79, Los Angeles, CA
• Thomas M. Uhlman ’71 WS, ’75 PhD, Madison, NJ
• Eric P. Vick ’90, Oxford, UK
• Loyal W. Wilson ’70, Chagrin Falls, OH
## Features

14 • Remembering Andy  
Scholarship winners are grateful to the late Andy Griffith  

16 • Total Immersion  
We feature water initiatives throughout the College in this issue. Look for the “Water in our World” logo.  

18 • Troubled Waters  
20 • Oyster Culture  
21 • Fluid Music  
23 • The Future of the Outer Banks  
24 • Water in the Classroom  

26 • ‘Help Me to Find My People’  
Historian chronicles slaves’ search for lost family members  

28 • They, Robots  
Computer scientist is teaching robots to perform human tasks  

---

### Table of Contents

**Carolina Arts & Sciences • Fall 2012**

**Departments**

**Inside Front Cover**

**From the Dean**
Finding solutions at home and abroad

**Highlights**

- Larry Band discusses water woes,  
- New dangers for ocean corals, Climbing  
- El Capitan, A monumental Galilee discovery, Whirligig wonders,  
- Enhancing faculty diversity, Honoring master mentor Jean DeSaix,  
- Endowment supports Spanish work, and more

**Profile**

Precious Resource  
Alumnus promotes safe drinking water worldwide

**College Bookshelf**

Remembering the late Doris Betts, a page-turner from Bart Ehrman, a tribute to Woody Durham and poems from New Orleans, plus books on the fascinating world of the hip-hop DJ, Cherokee stories, life in a West Virginia coal-mining town; and more

**Honor Roll**

We thank our many alumni and friends for their generous support.

**Final Point**

Was the Old Well ever new? Daniel Wallace explains in this tribute to UNC’s beloved landmark.

---

COVER PHOTO: UNC music professor Lee Weisert records water sounds at a rock quarry pond in Caswell County, N.C. Cover photo and photo editing by Steve Burn.
Videos

Explore the magazine online with this extra content at http://college.unc.edu/extras.

For more videos, visit our YouTube channel at http://youtube.com/user/UNCCollege.

4. New Dangers for Coral Reefs

Marine scientists Karl Castillo and Justin Ries drill for coral samples in southern Belize.

5. Hands-on Learning: N.C. Estuaries

A spring Maymester class on the Neuse River.

8. Whimsical Whirligigs

Windmill artist Vollis Simpson is getting help from UNC friends.

10. Professors with Passion

Claudio Battaglini’s research benefits breast cancer patients.

Essay

Read: Turtle Party

Read historian Bernie Herman’s online essay about Theodore Peed’s annual turtle party.
A new two-year academic theme around water, we asked Larry Band to break down the top five water worries for North Carolina and the world. Band is director of UNC’s Institute for the Environment and the Voit Gilmore Distinguished Professor of Geography.

1. DROUGHT
North Carolina has seen two historically unprecedented droughts during the past decade — one in 2002 and another in 2007 to 2008. Add to that our rapidly growing population, and we’ve got trouble.

“We’re pretty sure that our population is going to double over the next few decades,” Band says. “These last two droughts were wake-up calls.”

Drought combined with depleted rivers and groundwater can devastate local food supplies, especially in certain parts of the world. Northern China and northern India, for example, are quickly exhausting their groundwater resources.

“We’ve had to begin asking ourselves some tough questions. Do we have enough water to get through the hard times? And can our infrastructure and water policies handle a population explosion?”

Drought combined with depleted rivers and groundwater can devastate local food supplies, especially in certain parts of the world. Northern China and northern India, for example, are quickly exhausting their groundwater resources.

2. FLOODING
Inland flooding and storm surge have caused millions of dollars in damage to homes, farms and livestock in eastern North Carolina. Landslides and flash flooding in the western part of the state can be just as destructive.

Our cities are particularly vulnerable to flash floods, Band says. Impervious surfaces in urban areas keep heavy rainfall from draining properly.

So how do we deal with excess water? And how do we manage population growth so that residents aren’t living in active floodplains? UNC researchers are working on ways to predict flooding and storm surge so that locals can be warned long before rising waters stream into their living rooms. Scientists are also looking at the health and environmental effects in surrounding communities when, say, a large hog farm is flooded, and waste and chemicals from barns and containment lagoons are unleashed into the local water supply.

3. POWER SHORTAGES
Energy companies need plenty of water to keep their thermoelectric generators running at safe temperatures. On the hottest summer days, when air conditioners are running on high, companies usually use hydroelectric power from dams to keep up with the increased power demand.

But during North Carolina’s last two droughts, energy companies had to limit the amount of power they produced. The reservoirs were too low.

“The companies had to import or buy electricity on the market from elsewhere,” Band says. And it wasn’t cheap. The market price of electricity always goes up during a drought.

4. TOXIC DRINKING WATER
In recent years, North Carolina has seen several troubling cases of polluted well water, including high levels of nitrogen, pesticides and even naturally occurring arsenic.

“Typically, well water is tested once, when you construct the well,” Band says. “Then you don’t notice any pollutants coming out until people start showing up at the doctor.”

The Centers for Disease Control and UNC researchers are now working to find out whether certain contaminants are, as some data indicate, linked to birth defects such as gastrochisis, a type of hernia.

Internationally, many countries don’t have the capacity to maintain clean water. Dehydration from diarrheal diseases is one of the top killers in the world.

5. FISH KILLS
Lakes, rivers and wetlands need sufficient water quantity, but also high water quality, which has everything to do with the nutrients and contaminants in a body of water.

Too much nitrogen and phosphorous, for example, can cause harmful algal blooms. As the algae die, the oxygen levels in the water plummet, resulting in anoxia. Tens of thousands of fish can go belly-up all at once. Fish kills like this have plagued North Carolina’s waters over the years.

Many bodies of water in the state, including the Neuse River, Jordan Lake and Falls Lake, are now classified as “nutrient-sensitive water,” meaning that local authorities have some detective work to do. They’ll have to identify not only which contaminants are present, but where exactly they’re coming from (a local farm, a nearby city?) and how to lower them to safe levels.

Restoration plans like this can be expensive and difficult to implement, Band says. But we won’t be able to maintain healthy water supplies without them.

Nathe is a writer at Endeavors magazine online.
Caribbean corals feel climate change

UNC marine scientists have linked the decline in growth of Caribbean forereef corals — due to recent warming — to long-term trends in seawater temperature on the ocean side of the reef. The research was conducted on the Mesoamerican Barrier Reef System in southern Belize.

The results were revealed online in *Nature Climate Change*, a journal that publishes research on the impacts of global climate change.

The Mesoamerican Barrier Reef System is the second largest reef ecosystem in the world and the largest in the Western Hemisphere, stretching along the coasts of Mexico, Belize, Guatemala and Honduras. In February 2009, UNC researchers Karl Castillo and Justin Ries used a large pneumatic drill to extract 13 core samples from massive starlet corals on the reef and measured the thickness of their annual growth bands in order to estimate trends in their growth rates over the last 100 years. They found a decline in skeletal growth in corals closest to the open ocean, while growth in corals from the other two reef zones — the nearshore (located closest to the shore) and the backreef (located directly behind the reef crest) — remained relatively unchanged.

Castillo, an assistant professor of marine sciences, is a native of Belize. He said they surmised that this decline in skeletal growth in the forereef zone was due to a recent rise in seawater temperature, but they wanted to test their hypothesis in this new study.

They gathered sea surface temperatures for the study site from 1982 to 2008 from the National Oceanic and Atmospheric Association’s (NOAA) high-resolution seawater temperature database. They compared that dataset with seawater temperatures extracted from temperature loggers Castillo had installed at the study site in 2002.

Historically, corals in the area closest to the open ocean have seen cooler and more stable seawater temperatures, while those located closest to the shore and behind the reef crest have experienced warmer and more variable seawater temperatures.

Since 1982, the average summer sea surface temperature has been increasing in all three reef zones. Castillo said they found that with an increase in sea surface temperatures, skeletal growth declined over the 1982-2008 interval in the zone closest to the open ocean, while coral growth rates remained relatively stable over that same period in the other two reef zones.

“It looks like forereef corals are the first of this species to be affected on this reef system, suggesting that they may be most vulnerable to recent and future global warming,” Castillo said. “However, because backreef and nearshore coral colonies have historically been exposed to warmer and more variable seawater temperatures, they seem to be less affected.”

The findings of this new research study offer insights into how corals are likely to respond to future warming. They also highlight the importance of understanding cross-reef differences in the corals’ tolerance for rising sea temperatures in an era of rapid global climate change. By identifying which corals are most vulnerable to warming, this work may help coral reef managers triage the reef ecosystem that they are trying to protect, the scientists said.

The researchers, accompanied by graduate and undergraduate students, headed back to Belize last summer to collect additional coral core samples that span the entire reef system, a length of approximately 200 miles. Their previous study covered less than one-fifth of that region.

Ries is an assistant professor of marine sciences. The other study authors are Jack Weiss, an adjunct assistant professor in the curriculum for the environment and ecology, and Fernando P. Lima from the University of South Carolina.
Classroom on the Water

A group of 14 UNC students enjoyed checking out this sailboat and others docked in Beaufort Harbor as part of a spring Maymester class, *N.C. Estuaries: Environmental Processes and Problems*. The students, with guidance from marine scientist Marc Alperin, spent two days on the water getting a close look at how an estuarine system functions. The first day included a trip down the Neuse River, while the second was spent exploring Beaufort Inlet and the Rachel Carson Estuarine Reserve.

To see a multimedia feature on the class, visit [http://college.unc.edu/extras](http://college.unc.edu/extras).
UNC geology graduate student Roger Putnam fulfilled a dream assignment last summer that combined his love of both climbing and geology. He scaled El Capitan, the famous 3,000-foot granite cliff in Yosemite Valley, a favorite of rock climbers, in order to map the cliff for his master’s research. Putnam answered some questions about the experience in this Q&A interview. When he’s not rock climbing, Putnam also enjoys surfing, skiing, fishing and trail-running.

Q: You are working on creating the first comprehensive map of the southeast face of El Capitan. What goals are you trying to achieve with the research?
A: The significance of this study is threefold:

This project will greatly contribute to the understanding of the mechanics of pluton emplacement; how these granite bodies form and how they get emplaced in the crust. The product of this study will be 3D reconstruction of a volcano’s roots and will help lead to a better understanding of how volcanic systems in these environments behave.

Perhaps the most immediate significance of this study will be its contribution to the field of rock-fall analysis. Yosemite’s cliffs are among the most accessible in the world, making them particularly prone to accidents. Over 600 rock-falls have been recorded in Yosemite National Park since documentation began in 1857, most of which occurred in Yosemite Valley. This study will contribute to understanding rock-fall genesis and frequency in Yosemite Valley — helping to save lives and property.

Finally, this study will create an immensely valuable interpretive tool. Yosemite National Park is a UNESCO World Heritage Site and boasts an annual visitation of more than 4 million people from around the world. While in Yosemite Valley looking at the majestic cliffs, the majority of visitors are having the most intimate experience with plutons they will ever have. Having knowledge of the mechanisms whereby the cliffs were created is paramount to communicating their natural history as well as the discipline of geology in general.

Q: How many times have you climbed El Capitan before?
A: Before this study began, I had climbed El Capitan 12 times by 9 different routes. My slowest time on the wall had been three-and-a-half days and my fastest was 10 hours, 27 minutes.

Q: Explain the processes you undertook in studying this giant monolith.
A: We took a series of high-resolution gigapan images of the face of El Capitan. We will be overlaying these images on LiDAR (basically laser-radar) data in GIS. This will give us a 3D image of the face on which we can digitize the contact lines between the different types of granite. To determine what type of rock these polygons on the map are, these areas of the cliff must be visited. This is being accomplished by climbing and rappelling established climbing routes. As I climbed the rock, I took samples to help us better understand the rock units exposed on the face and how they geochemically interact.

Q: If you had to “tweet” about the experience of climbing El Capitan, what would you write?
A: I am not in the Twitter world … so this is my best shot: “I was blessed to be there, climbing one of the most famous monoliths in the world, trying to understand how it formed.”
An international research team including a UNC professor and students discovered a monumental synagogue building dating to the Late Roman and Byzantine periods (ca. 4th to 6th centuries C.E.) in archaeological excavations at Huqoq in Israel’s Galilee last summer.

The excavations were led by UNC-Chapel Hill’s Jodi Magness, and David Amit and Shua Kisilevitz of the Israel Antiquities Authority. The research is sponsored by UNC, Brigham Young University in Utah, Trinity University in Texas, The University of Oklahoma and the University of Toronto in Canada. Students and staff from UNC and the consortium schools participated in the dig.

Huqoq is an ancient Jewish village located approximately two to three miles west of Capernaum and Migdal (Magdala). This second season of excavations revealed portions of a stunning mosaic floor decorating the interior of the synagogue building. The mosaic, which is made of tiny colored stone cubes of the highest quality, includes a scene depicting Samson placing torches between the tails of foxes (as related in the book of Judges 15). In another part of the mosaic, two human faces (apparently female) flank a circular medallion with a Hebrew inscription that refers to rewards for those who perform good deeds.

“This discovery is significant because only a small number of ancient (Late Roman) synagogue buildings are decorated with mosaics showing biblical scenes, and only two others have scenes with Samson (one is at another site just a couple of miles from Huqoq),” said Magness, the Kenan Distinguished Professor in UNC’s department of religious studies. “Our mosaics are also important because of their high artistic quality and the tiny size of the mosaic cubes. This, together with the monumental size of the stones used to construct the synagogue’s walls, suggest a high level of prosperity in this village, as the building clearly was very costly.”

Excavations are scheduled to continue in summer 2013.

London Calling!

In a new program at Winston House, first-year Honors students spent time in London this summer before coming to UNC. They visited with Sir Christopher Meyer, former British Ambassador to the U.S., who arranged a briefing on Syria and the Eurozone crisis.
HIGHLIGHTS

Whirligig Wonders
Preserving and promoting the folk art of Vollis Simpson

By Kim Weaver Spurr ’88

Past tobacco fields down a winding country road, the drive is reminiscent of many of North Carolina’s rural landscapes. But around the bend, at the intersection of Willing Worker and Wiggins Mill roads in Lucama, they start to rise up out of the field — massive, 50 and 60-foot-tall spinning sculptures that look like pinwheels on steroids.

You feel like you’ve entered another world — a larger-than-life game board, a Santa’s tree-top workshop for giants.

For more than 25 years, both locals and visitors from near and far have traveled to the “whirligig farm” of 93-year-old folk artist Vollis Simpson, a former machine repair shop owner and World War II veteran.

He made his first windmill for utilitarian purposes when he used a junked B-29 bomber to power a large washing machine on the South Pacific island of Saipan during the war. He lost his best buddy there, 18 years old, on their third day there.

After returning from the war, Simpson and his friends opened a machinery repair shop, and following in his father’s footsteps, a house-moving business. But when retirement time rolled around in 1985, Simpson didn’t want to sit by idly twiddling his thumbs. He started using junk he had collected — HVAC fans, bicycle parts, ceiling fans, stovepipes, textile mill rollers, highway road signs and the like — to create intricate whirligigs in the field across from his shop. Airplanes, animals and bicycles are often themes in his work.

Over the years, Mother Nature has not been kind to the whirligigs, and Simpson is not able to climb and repair them like he used to do. That’s where UNC folks are stepping in through a unique public-private partnership that could be an economic, artistic boom for the area where tobacco was once king. They are dismantling about 30 of the sculptures — some weighing several tons — and restoring them to their former glory in an old warehouse in UNC friends are helping to restore the whimsical whirligigs of beloved N.C. folk artist Vollis Simpson (pictured at right in his workshop in Lucama).
downtown Wilson. Simpson’s now famous works will be moved to a two-acre park nearby that will offer an amphitheatre, a performance stage, a water feature, benches and more. Organizers envision a site for concerts, reunions, weddings, festivals, a farmer’s market. The Vollis Simpson Whirligig Park is scheduled to open in November 2013.

Wilson native Betty McCain (music ‘52), former long-time secretary of the N.C. Department of Cultural Resources, is a champion of the project. She believes it will draw tourists off I-95 into downtown, which already boasts an art gallery, a science museum and a revitalized community theater.

“We’ve really had to diversify because we were the world’s largest Brightleaf tobacco market,” she said on a visit to the restoration headquarters. “There’s a great deal of tobacco still being done on contract, but the warehouse system is over. The people in the tobacco industry worked all over the world, and they know what this whirligig park will mean.”

When project manager Jenny Moore (art education ’72, art history ’86) first heard about the conservation venture, she immediately called Henry Walston (business ’70), head of the project committee, and told him she wanted to return home to be involved. The effort has received grants from significant funders, including the National Endowment for the Arts (NEA), the Kresge Foundation, the Educational Foundation of America and the N.C. Arts Council. Retired engineers, welders and master machinists are helping with the project, and a new grant from the N.C. Rural Center will help support job training for under-privileged youth.

“There’s a real focus in the country, from the NEA and private foundations, on economic development in relation to the arts,” said Moore, who is among many with UNC ties involved in the endeavor. Bill Ferris of UNC’s Center for the Study of the American South serves as an adviser. “Most of our funding has come to this project not just as a sculpture park, but more of what it’s going to mean to the community. When you get people coming to the park because they want to have a picnic with their kids and have fun, they are having an art experience in a public place whereas they might not have intentionally gone to a museum to see art.”

On most days, you’ll find Simpson in his repair shop early in the morning, dressed in blue jeans and wearing his U.S. veterans baseball cap, still creating colorful works of art and trying new things — but on a smaller scale. His work can be found at the American Visionary Art Museum in Baltimore, the American Folk Art Museum in New York City and the N.C. Museum of Art in Raleigh. Four whirligigs were commissioned for the 1996 Olympics in Atlanta. He has won honors ranging from the North Carolina Award (the state’s highest civilian honor) to Southern Living magazine’s “Heroes of the New South.”

“When I started this here, you never heard tell of the word art,” he said, as a black cat meowed at his feet. He has mixed feelings about the sculptures being moved, but knows that the timing is right. The work can be dangerous — he caught on fire in a serious welding accident several years ago — but he said “everything I’ve ever done is dangerous.”

“I’m not able to climb no more and I reckon it’s a good thing. I really hate to see them go, though,” he said, pausing. Then with a big grin he added, “But we’ve all got to go.”

Jeff Currie, who is pursuing his master’s in folklore at UNC, is overseeing surface conservation and documentation of the initiative. Simpson’s life informs his work, Currie said.

“He is a great engineer and mechanic and a very good artist, but he’s also really, really patient,” Currie said. “Some of the things he does, you feel the patience in them. Doing one thing — [like cutting and drilling tiny pieces of reflectors] — 2,000 times. He’s among that generation that has to work.”

Like many of her project colleagues, Laura Bickford said working with Simpson has been a labor of love. Bickford (art history and folklore ’10) is an intern with the project and will be doing a master’s thesis at The Art Institute of Chicago on Simpson’s work.

“Vollis’ work to me is so honest,” she said. “And to see it here, now being restored by people from this same place, and seeing how it can become a new source of pride for the town is so amazing, and it’s what art should be doing everywhere. That is the point of art.”

“Art can change the world. It can make a difference.”

ONLINE EXTRA:
Watch a multimedia feature at http://college.unc.edu/extras.
PROFESSORS WITH PASSION:
Claudio Battaglini

Claudio Battaglini wears many hats—and each one helps someone lead a better life. From cancer patients to athletes to students at UNC-Chapel Hill, Battaglini dedicates his passion, teaching and scholarship to improving the health and wellness of others (and he still finds time to train for triathlons!).

When asked why exercise is so important, Battaglini chuckles. “You know, I’m very biased because I am an avid exerciser. I have been exercising since I was 4 years old,” he said. “I have been involved in sports my whole life.”

Battaglini is an associate professor of exercise and sport science (specializing in exercise physiology) in the College. After eight years at Carolina, he says the best part of his job is his students. “They’re invested in their education,” he said. “I absolutely love working with them.”

In addition to teaching, Battaglini is the co-founder and co-director of the Get REAL & HEEL After Care Breast Cancer Program. The program, which began in 2006, is designed to provide breast cancer survivors with physical and psychological tools to help them rehabilitate their minds and bodies from the debilitating effects of radiation and chemotherapy treatments.

“I think one of the beauties of the program is seeing these patients getting back to work, functioning again and enjoying time with their families,” Battaglini said. “That’s the whole point.”

Online Extras:
For more information about Get REAL & HEEL, visit www.unc.edu/depts/recreate.
For a multimedia feature on Battaglini, visit http://college.unc.edu/extras.

ABOVE: Patricia S. Parker has been appointed director of Faculty Diversity Initiatives for the College of Arts and Sciences, a new position recommended by the College’s Faculty Diversity Task Force.

Enhancing faculty diversity across the College

Patricia S. Parker has been appointed director of Faculty Diversity Initiatives for the College of Arts and Sciences, a new position recommended by the College’s Faculty Diversity Task Force.

Parker, associate professor of communication studies, will advise the dean and senior associate deans, and work with diversity liaisons in every department of the College to enhance the recruitment, retention and advancement of faculty from diverse backgrounds. She also will coordinate a speaker series highlighting diversity issues and initiatives, and help to implement other aspects of the 2011 Faculty Diversity Task Force Report.

“Enhancing faculty diversity across the College is one of my top priorities,” said Dean Karen M. Gil. “Pat is an expert on race, gender and organizational leadership. I look forward to her leadership and advice on best practices and policies to strengthen faculty diversity going forward.”

Parker writes and teaches about race, gender and class in organizational and collaborative processes. She joined the UNC faculty in 1998 and was promoted to associate professor in 2004. She is also the founder and executive director of The Ella Baker Women’s Center for Leadership and Community Activism, which engaged teenage girls in vulnerable communities as leaders and advocates for positive change in their neighborhoods and beyond.

Parker has been a frequent faculty fellow and mentor in UNC’s Moore Undergraduate Research Apprenticeship Program (MURAP), which encourages minority students interested in academic careers. She also was a Burress Fellow at the Institute for the Arts and Humanities, a Scholar in Residence at the Center for Urban and Regional Studies, a Kauffman Faculty Fellow for Entrepreneurship and an Academic Leadership Program Fellow.

She received a Ph.D. in communication studies from the University of Texas at Austin, a master’s degree in speech communication from California State University, Long Beach, and a B.A. degree in speech, theater and journalism at Arkansas Tech University.
Jean DeSaix,
IN BIOLOGY

Jean DeSaix left her hometown of Williamston, N.C., years ago. But it never left her. DeSaix, a UNC biology master lecturer, understands those university students from small towns and rural areas. Many students are overwhelmed by what seems at first to be an enormous campus.

DeSaix has always been an advocate for these students. “People born in rural counties are just as smart as those born in Greensboro,” she quipped. “But some arrive at UNC not as confident or not aware of how smart they are.” She sees a dual role with her students: helping those who are already on the fast track but also focusing on the diamonds in the rough. “Those students are special to me,” she said.

“People born in rural counties are just as smart … But some arrive at UNC not as confident or not aware of how smart they are. Those students are special to me.”

• A MENTOR AND A SCHOLAR

DeSaix arrived in Chapel Hill in 1967 for graduate school. One of two female students in the zoology program, she was occasionally asked to serve cookies and punch during special events. Nonplussed, she earned a master’s in zoology and a doctorate in curriculum and instruction from UNC.

DeSaix has taught about 800 students in each of her nearly 40 years at Carolina. But she also chose a role that extends her reach beyond the biology lecture hall. DeSaix serves as director of the Health Professions Advising Office, faculty adviser for UNC’s Habitat for Humanity program, and, along with her husband Peter, adviser to the Episcopal Campus Ministry.

• PAYING IT FORWARD

Meredith Gilliam (chemistry/Asian studies ’07) recalls DeSaix’s welcoming demeanor at the Episcopal Campus Ministry gatherings. “She was a constant presence, welcoming new students, collecting updates on our personal lives and making us feel at home,” said Gilliam, who is now pursuing an MD/MPH degree from UNC. She said DeSaix is someone who truly enjoys helping people. Once Gilliam left her planning notebook in DeSaix’s office. By the time Gilliam checked her email, DeSaix had alerted her where her notebook was and emailed her the appointments she had the next morning.

Alumnus Paul Shorkey (biology ’11) believes DeSaix was instrumental in his receiving a Rhodes Scholarship. “It was through her incredible support that I had the confidence to apply. She was extraordinarily helpful in keeping me grounded in the weeks before the interview.”

Ryan C. Vann, one of DeSaix’s former teaching assistants, said he has not made any major professional decisions without first seeking her advice.

“When I think of all the individuals who have had profound effects on my academic and professional development, no one comes to mind more often than Jean DeSaix,” said Vann (biology ’98, clinical lab science ’03). “That a shy freshman from rural Yadkin County caught her eye as a potential instructor speaks to her eye for teaching talent and to her willingness to nurture that talent.”

DeSaix was surprised to receive UNC’s 2012 Mentor Award for Lifetime Achievement for contributions to teaching and mentoring. Beyond the classroom. Her students and colleagues were not. “While we’re here on this earth we can all make things better,” she said. “All who do well can point to those who helped them. We all need a mentor.”

— By Eleanor Lee Yates ’78
As a longtime faculty member in the department of sociology, Glen Elder (Ph.D. ’61) is aware of the funding challenges faced by students. That’s why, when he and his wife decided to make a planned gift to UNC, they chose to support graduate students in sociology.

Elder, the Howard W. Odum Distinguished Research Professor of Sociology, and Sandy Aldridge Turbeville ’63, recently made a bequest to establish the Glen H. Elder Jr. Fund in Sociology. Elder and Turbeville hope the endowment will one day provide one-year fellowships to enable the department’s most outstanding doctoral students to concentrate on completing their dissertations.

“We love the idea of supporting a specific activity of graduate students,” said Elder, who also holds joint positions as a research professor of psychology and a fellow of the Carolina Population Center. “Their dissertation is something that will significantly influence their careers, and this fund will give them the chance to focus without having to worry about money.”

Department chair Howard Aldrich said the gift will provide a critical source of support for graduate students in sociology.

“One of the biggest financial problems we face is that there is limited funding for graduate support,” Aldrich said. “The fact that Glen and Sandy stepped forward and created this planned gift is tremendous for us. When this comes to pass, essentially 15 to 20 percent of our students could be supported by this gift, which is a huge boost to our graduate program.”

For Elder, supporting those just getting started in their careers has a special meaning beyond simply helping the department. Throughout his nearly 50-year academic career, he has mentored dozens of graduate students, postdoctoral researchers and junior faculty.

“I’ve loved mentoring, and I’ve done a lot of it,” Elder said. “Mentoring enables me to pass on to younger generations the great opportunities I have enjoyed over my career.”

Michael Shanahan is one of Elder’s former postdoctoral researchers. Now a professor of sociology at UNC, Shanahan worked with Elder from 1992 to 1995.

“In addition to being a world-class scholar, Glen is a positive, energetic person who is always brimming with ideas and a sense of excitement for the future,” Shanahan said. “Glen is an exemplary mentor. He takes a great personal interest in the success of his students and follows their careers with enthusiasm. He’s always seeking ways to foster their careers, whether they are just starting out or being promoted to a chaired professorship.”

“We love the idea of supporting a specific activity of graduate students. Their dissertation is something that will significantly influence their careers.”

Elder is one of the founders of life course studies, an area of research focused on how people’s lives reflect social forces. His 1974 book, *Children of the Great Depression*, is among the most-cited and respected works in the behavioral sciences. Although much of his research has had implications for other disciplines, especially psychology, Elder says that sociology has always provided the foundation for his work. He collaborated with the late Robert Cairns in psychology to establish the Carolina Consortium on Human Development in the late 1980s, and several years later the Center for Developmental Science.

Elder earned his bachelor’s degree from The Pennsylvania State University and his master’s degree from Kent State University in Ohio before first arriving in Chapel Hill to pursue his doctorate in sociology. After graduating in 1961, he worked as a researcher and professor at the University of California-Berkeley before returning to UNC in 1967 as an associate professor of sociology. With the exception of a brief tenure at Cornell University in the early 1980s, Elder has spent the latter half of his career at UNC.

Although he no longer teaches, Elder remains involved in a number of collaborative research projects and still travels to conferences and professional meetings in the field. Despite his many research and teaching contributions to UNC and beyond, he considers his bequest to the department to be one of his most important legacies.

“I’ve put my life into this work, so why shouldn’t we support the department?” Elder said. “I couldn’t think of anything better to do.”
In a distinguished 40-year career at UNC, W. Grant Dahlstrom did great things in a quiet way. A graduate fellowship honoring the Kenan Professor of Psychology is now providing support for a clinical psychology student.

“Grant’s slogan could have been just that: ‘doing great things in a quiet way,’” said Donald Baucom, Richard Lee Simpson Distinguished Professor of Psychology, who delivered a eulogy for Dahlstrom after his death in 2006.

Known as the leading authority on the Minnesota Multiphasic Personality Inventory (MMPI) — still considered the “industry standard” in personality tests — Dahlstrom was a scientist of the highest order. But his humble demeanor and his sincere interest in his students belied his greatness as a scholar.

“I met him when I was a college freshman in 1967 and I was looking for a work study job,” Baucom said. “Grant mentioned that he and his wife and a colleague, George Welsh, were working on a book, and if I was interested, he’d be honored to have me work with him. He’d be honored for me, a freshman from a small town in North Carolina to work with him.”

Dahlstrom later served as chair of Baucom’s doctoral dissertation committee. The two became colleagues when Baucom returned to UNC to join the faculty in 1980. Baucom and his family spent many evenings with Dahlstrom and his wife Leona, who assisted Dahlstrom in his work as he suffered from a severe visual impairment.

“At the time he retired, I believe he had supervised more doctoral dissertations than anyone else in the department,” Baucom said.

One of Dahlstrom’s more than 60 doctoral dissertation supervisees was Lucy Daniels, a clinical psychologist in Raleigh and founder of the Lucy Daniels Center, a nonprofit dedicated to helping children live emotionally healthy lives.

“He presented things in an interesting way, with a quiet manner that made you want to listen,” Daniels recalled. “He had a great reputation as a scholar and was academically rigorous and demanding, but he was also very interested in his students as people.”

Daniels, a leading contributor to the Dahlstrom Graduate Fellowship, completed her doctorate when she was in her 40s and the mother of four.

“I understand that graduate students have lives outside the classroom and the research lab,” Daniels said. “I hope that this fellowship will provide students with the funding they need to achieve their academic goals while still being able to support themselves and their families.”

With more than 200 former students, colleagues and friends contributing to the fund, the Dahlstrom Graduate Fellowship’s market value was more than $327,000 as of June 30, with an estimated annual payout of nearly $19,000.

Mitch Prinstein, Bowman and Gordon Gray Distinguished Professor and director of clinical psychology, said the Dahlstrom Graduate Fellowship will help the department attract outstanding students.

“It is very difficult to offer financial packages to students that allow us to remain competitive,” Prinstein said. “The Dahlstrom fund allows us to make a generous offer to a highly promising student to work exclusively on their research without needing to split their efforts on other tasks like a teaching assistantship.”

The Dahlstrom Fellowship was awarded for the first time this fall to Christopher Sheppard, a first-year clinical psychology graduate student who will work with Prinstein. Before coming to UNC, Sheppard was a study coordinator in the child and adolescent mood program at Emory University. He earned his undergraduate degree with distinction in psychology from Duke University in 2010.

“One of the things I learned from Grant is that if you want to be both happy and successful, surround yourself with good people,” Baucom said. “And he did that. He had excellent colleagues and students flock to him.”

Now the new fellowship will attract even more good people to UNC to honor Dahlstrom’s legacy.

The department of psychology is still raising money for the Dahlstrom Fellowship, with the goal of reaching $500,000, the new minimum endowment amount for a graduate student fellowship. At this level, the fellowship would provide an annual stipend of about $25,000, which is competitive with peer institutions. Anyone interested in contributing may contact Kelleigh Smith, associate director of capital gifts at the Arts and Sciences Foundation, kelleigh.smith@unc.edu or (919) 843-4454.
Remembering Andy

Scholarship recipients reflect on influence beloved actor had on their lives

By Del Helton

While millions of fans worldwide remember the late Andy Griffith ’49 as a beloved TV icon, a group of Carolina students have a personal connection to the actor and musician.

Since 1973, Griffith’s philanthropy has provided critical tuition support for nearly 200 students majoring in music or dramatic art who possessed plenty of promise, but needed financial help to complete their Carolina education. He created the Andy Griffith Scholarship in 1972, adding his wife Cindi’s name in the 1980s, to the fund in the College of Arts and Sciences.

The endowment, which has grown substantially thanks to the Griffiths’ annual gifts and the fund’s investment earnings, has produced annual awards ranging from $250 to $3,000 based on a student’s need. In the past academic year, 25 students received Griffith Scholarship support.

“Andy and Cindi Guthrie Scholarship is one of the most meaningful awards the department of dramatic art is honored to give,” said McKay Coble, chair.

“The breadth of talent and standard of excellence exhibited by Mr. Griffith himself is an inspiration to our students. We award this scholarship to outstanding majors who are not only bound together by the award but by their own commitment to excellence and service.”

In the department of music, where Griffith earned his degree, many of the very best students have been scholarship recipients, said Mark Katz, chair.

“Like Mr. Griffith, these students have used their training in music and the liberal arts not only for their personal betterment but for the betterment of those around them,” Katz said. “Andy Griffith will be remembered at Carolina not just for his talent and humanity, but for his devotion to the education of future generations.”

Griffith Scholarship recipients remember the beloved actor, who died July 3 at age 86, and the impact the scholarship has had on their lives.

• Harry Shifman ’74

In summer 1974, Harry Shifman, a new Carolina graduate and aspiring actor, caught a ride to New York City and slept in Washington Square Park that night.

“The next day I found an apartment and an actor’s job — as a waiter,” said Shifman, who within six months founded the PoorMan’s Theatre in a loft in Chelsea.

He has been directing, playwriting and teaching theater ever since.

“For the past 20 years, I have been blessed to direct and teach the little geniuses at LaGuardia Performing Arts in the city, the Fame school, helping to make possible for others that which Andy Griffith helped to make possible for me,” said Shifman, whose own students include Adrian Grenier of HBO’s Entourage.

“Were it not for the generosity of Andy Griffith, and my selection by the faculty, I doubt that I would have been able to continue at college that year. That scholarship provided the boost I needed, both in confidence and financially to complete my education,” Shifman added.

• Susanna Rinehart ’86

“The passing of Andy Griffith led me to I shared Andy Griffith’s passion in bringing joy and laughter to audiences, while cultivating an appreciation for performing arts and its ability to provide insight into the human soul.”

“Every time I watch the Andy Griffith Show, I think of his connection to Carolina and to the state. His generosity and willingness to create the Andy and Cindi Griffith Scholarship helped me and many others earn an invaluable education at the first, and best, state university in the country,” added Jao, programming and engagement manager at the Clifton and Dolores Wharton Center for Performing Arts at Michigan State University.

• Bryan Jao ’01

“UNC, along with the privilege of receiving the Andy and Cindi Griffith Scholarship, provided me with an experience that has allowed me to pursue a career in the performing arts,” Jao said. “I like to believe that I shared Andy Griffith’s passion in bringing joy and laughter to audiences, while cultivating an appreciation for performing arts and its ability to provide insight into the human soul.”

“Like Mr. Griffith, these students have used their training in music and the liberal arts not only for their personal betterment but for the betterment of those around them,” Katz said. “Andy Griffith will be remembered at Carolina not just for his talent and humanity, but for his devotion to the education of future generations.”

Griffith Scholarship recipients remember the beloved actor, who died July 3 at age 86, and the impact the scholarship has had on their lives.

• Harry Shifman ’74

In summer 1974, Harry Shifman, a new Carolina graduate and aspiring actor, caught a ride to New York City and slept in Washington Square Park that night.

“The next day I found an apartment and an actor’s job — as a waiter,” said Shifman, who within six months founded the PoorMan’s Theatre in a loft in Chelsea.

He has been directing, playwriting and teaching theater ever since.

“For the past 20 years, I have been blessed to direct and teach the little geniuses at LaGuardia Performing Arts in the city, the Fame school, helping to make possible for others that which Andy Griffith helped to make possible for me,” said Shifman, whose own students include Adrian Grenier of HBO’s Entourage.

“Were it not for the generosity of Andy Griffith, and my selection by the faculty, I doubt that I would have been able to continue at college that year. That scholarship provided the boost I needed, both in confidence and financially to complete my education,” Shifman added.

• Susanna Rinehart ’86

“The passing of Andy Griffith led me to think of how deeply honored I was to receive the Griffith Scholarship as a dramatic art major. I knew then, as a young aspiring actress, what a profound honor and encouragement the award represented,” said Rinehart.

“I am now associate professor of theater and cinema at Virginia Tech, continuing to perform, direct and train the next generations of young American actors. I hope Mr. Griffith would be proud. I know I am deeply proud to have my name even remotely associated with an extraordinary man.”

• Bryan Jao ’01

“UNC, along with the privilege of receiving the Andy and Cindi Griffith Scholarship, provided me with an experience that has allowed me to pursue a career in the performing arts,” Jao said. “I like to believe that I shared Andy Griffith’s passion in bringing joy and laughter to audiences, while cultivating an appreciation for performing arts and its ability to provide insight into the human soul.”

“Every time I watch The Andy Griffith Show, I think of his connection to Carolina and to the state. His generosity and willingness to create the Andy and Cindi Griffith Scholarship helped me and many others earn an invaluable education at the first, and best, state university in the country,” added Jao, programming and engagement manager at the Clifton and Dolores Wharton Center for Performing Arts at Michigan State University.

• Bryan Jao ’01

“UNC, along with the privilege of receiving the Andy and Cindi Griffith Scholarship, provided me with an experience that has allowed me to pursue a career in the performing arts,” Jao said. “I like to believe that I shared Andy Griffith’s passion in bringing joy and laughter to audiences, while cultivating an appreciation for performing arts and its ability to provide insight into the human soul.”

“Every time I watch The Andy Griffith Show, I think of his connection to Carolina and to the state. His generosity and willingness to create the Andy and Cindi Griffith Scholarship helped me and many others earn an invaluable education at the first, and best, state university in the country,” added Jao, programming and engagement manager at the Clifton and Dolores Wharton Center for Performing Arts at Michigan State University.

• Bryan Jao ’01

“UNC, along with the privilege of receiving the Andy and Cindi Griffith Scholarship, provided me with an experience that has allowed me to pursue a career in the performing arts,” Jao said. “I like to believe that I shared Andy Griffith’s passion in bringing joy and laughter to audiences, while cultivating an appreciation for performing arts and its ability to provide insight into the human soul.”

“Every time I watch The Andy Griffith Show, I think of his connection to Carolina and to the state. His generosity and willingness to create the Andy and Cindi Griffith Scholarship helped me and many others earn an invaluable education at the first, and best, state university in the country,” added Jao, programming and engagement manager at the Clifton and Dolores Wharton Center for Performing Arts at Michigan State University.

• Bryan Jao ’01

“UNC, along with the privilege of receiving the Andy and Cindi Griffith Scholarship, provided me with an experience that has allowed me to pursue a career in the performing arts,” Jao said. “I like to believe that I shared Andy Griffith’s passion in bringing joy and laughter to audiences, while cultivating an appreciation for performing arts and its ability to provide insight into the human soul.”

“Every time I watch The Andy Griffith Show, I think of his connection to Carolina and to the state. His generosity and willingness to create the Andy and Cindi Griffith Scholarship helped me and many others earn an invaluable education at the first, and best, state university in the country,” added Jao, programming and engagement manager at the Clifton and Dolores Wharton Center for Performing Arts at Michigan State University.
Carolina students taking Spanish can thank Duke Buchan III ’85 and his early obsession with the World Book Encyclopedia for innovative learning experiences that make the language more relevant than ever.

Buchan is the highly successful founder and CEO of Hunter Global Investors L.P., a money management firm based in West Palm Beach, Fla., where he lives with his wife Hannah and their three young children. He has served on the Arts and Sciences Foundation Board of Directors since 2008 and was recently named to the University’s Campaign Planning Cabinet.

In 2011, he established The Buchan Excellence Fund in the Department of Romance Languages and Literatures. The fund is the largest single endowment at Carolina dedicated to support faculty, graduate students and undergraduates working in Spanish languages, literature and culture.

“We are confident that our support will help take UNC students, professors and the institution itself to a higher level,” Buchan said. “Our family is honored to give something back to the University that has given us so much.”

As a child in rural Vance County, N.C., Buchan devoured the photos and words in his World Book Encyclopedia, fascinated with places beyond the tobacco fields near his home. That quest for knowledge, coupled with dinner table discussions centered around Carolina basketball greats Charlie Scott or Billy Cunningham, set Buchan’s academic path in motion.

“Growing up in a small town less than 60 miles from Chapel Hill, Carolina was all I knew,” Buchan said. “Most importantly, our family knew that UNC offered one of the best college educations in the country at an unbeatable cost.”

After his high school Spanish teachers, both Cuban natives, encouraged him to spend a summer in Valencia, Spain, Buchan was “hooked on seeing the world.”

“The study of the Spanish language, literature and cultures provided me a passport to a world outside the U.S. and instilled in me a global perspective.”

At Carolina he continued his Spanish studies and added economics as a second major because of his interest in business and entrepreneurship. He enrolled in the University’s year abroad program in Seville, Spain, for what he describes as the most transformative year of his life.

“The study of the Spanish language, literature and cultures provided me a passport to a world outside the U.S. and instilled in me a global perspective,” Buchan said. “My first job out of Carolina was in Miami where I used Spanish on a daily basis.”

Buchan, a serial entrepreneur who earned his M.B.A. at Harvard Business School in 1991, saw the need to change and adapt as he watched his home state’s traditional industries — tobacco, textiles and furniture — decline over time.

In its first year, The Buchan Fund directly addressed the growing influence of Spanish language and culture and the change it is bringing to communities and the world.

Professor Darcy Lear oversees the minor in Spanish for the Professions, a program that has jumped in enrollment from 280 students in 2004 to more than 700 in 2012. Spanish is the fourth most spoken language in the world, according to Encyclopedia Britannica, and continues to grow in popularity.

“Experiences outside the classroom are vital to student training, and we accomplish this through community service-learning,” said Lear. The Buchan Fund has made possible a partnership with an area organization that focuses on local Latino micro-entrepreneurs.

“In the fall of 2011, 24 students prepared marketing programs for Acción Emprendedora USA and documented local entrepreneurs’ stories on its website (www. ae-usa.org). From this experience, students are practicing their language and interpersonal skills while learning about the reality of many low-income Hispanic entrepreneurs who live and work in the same community as they do,” she added.

During the spring of 2012, the Buchan Fund supported graduate teaching fellow Britt Newman, project director for “21st Century Pen Pals.” The program facilitated Internet video communication between three bilingual elementary school classes in Chapel Hill and three classes in Seville, Spain.

Newman worked with six undergraduates who helped the school children plan and prepare short bilingual videos in which they introduced each other to their favorite toys, likes and dislikes, their schools, families, cultures and daily lives. More schools will be added this academic year.

“We hope that our gift to the department will inspire more students to study the Spanish language and culture,” Buchan said. “Those students will, in turn, use that knowledge to make an impact in their communities.”
TOTAL IMMERSION
Carolina dives into ‘water, water everywhere ...’

By T. DeLene Beeland

WATER IN OUR WORLD
Water. Life depends on it, and this fall the Carolina campus is becoming immersed in it.

On World Water Day last spring, UNC announced that water would be the focus of a two-year, campuswide academic theme called “Water in Our World.” It’s the first time the University has adopted a theme meant to saturate every corner of campus: from professors’ research agendas to classroom curricula to student activities.

The water initiative is being led by Terry Rhodes, former chair of the department of music and the new senior associate dean for fine arts and humanities in the College of Arts and Sciences, and Jamie Bartram, a distinguished professor and director of the UNC Water Institute in the Gillings School of Global Public Health. Rhodes says that the theme will bridge the humanities and the sciences, and it seeks to make interdisciplinary connections among researchers on campus who work on water issues but may be unaware of each other.

While the theme will encompass technical issues about water such as water purity and supply, the University will also host “a water and health conference, dramatic performances, film screenings, directed book readings, visiting scholars, symposia, special academic courses, writing and photography competitions all tied to water,” according to Rhodes.

Bartram, who was one of the originators of the water initiative, says, “It was one of the very few topics that was relevant to every part of campus.”

Within the College, new courses are being developed in anthropology, African and Afro-American studies, Asian studies, geological sciences and history. Five professors in the College have received grants from the Center for Global Initiatives to support the development of new courses and curricula based on water (see story on page 24).

Outside the classroom, events and lectures are being planned as well as artistic ventures. Lee Weisert, an assistant professor in the department of music, previously designed two sound installations which explored the aesthetic qualities of water, and he plans to showcase those again as part of the new water theme (see story on page 21).

The first installation, called the “Argus Project,” will be presented at a nearby pond encircled by speakers. The second sound installation, titled “Cryoacoustic Orb,” will take place in a campus gallery space where large spheres of ice will have embedded microphones to amplify the sound of melting as the spheres are warmed by heat lamps.

“Both of the projects focus attention on the natural characteristics of aquatic environments and processes, with technology primarily functioning as a way of accessing and magnifying them,” Weisert says.

Bartram also hopes the University will create a mobile Web application that will allow students to calculate their “water footprint,” or how much water they use on campus.

continued
“It’s a real opportunity to see how our individual day-to-day lives affect a major natural resource,” Bartram says. Other campus discussions may include the effect of hydraulic fracturing (fracking) on local water sources, an issue the state of North Carolina has grappled with; water conservation; and connections between water, public health and poverty.

One goal of the campuswide theme is to address problems that are both global and local, such as water scarcity, potability and pollution. This fall, UNC will host the 2012 Water and Health Conference: Science, Policy and Innovation from Oct. 29 to Nov. 2. For information, visit http://whconference.unc.edu.

UNC is the only academic institution to be one of five founding partners in the U.S. Water Partnership. The partnership is a countrywide initiative which brings together the best of the U.S. to confront and respond to big water challenges, primarily in developing countries. In these pages, we feature some exciting projects in the College involving water.

Rhodes and Bartram are eager to hear your ideas about the water theme. Email them to watertheme@unc.edu. For more, visit http://watertheme.unc.edu.

“I wish I could say that the oil spill is not a long-term problem because the Gulf system is primed to handle oil spills. But that’s just not the case. Only now are we beginning to see some of the long-term impacts.”

Troubled Waters

There’s more beneath the surface of the BP oil spill

By Mark Derewicz

On July 29, 2010, Time magazine ran a story with the headline, “The BP Spill: Has the Damage Been Exaggerated?” Research from UNC and elsewhere shows that Time could have run a sidebar: “The BP Spill: Is It Too Early to Assess the Damage?”

When BP’s Deepwater Horizon oil rig failed on April 20, 2010, nearly five million barrels of oil and gas gushed into the Gulf of Mexico. Weeks later, oil washed ashore, killing wildlife and contaminating estuaries and beaches.
Amosti and Chris Martens, professors in UNC’s department of marine sciences and Institute of Marine Sciences. They found that much of the oil and gas never made it to the surface, never made it to shore, but still had a huge environmental impact.

Joye, who earned her undergraduate and doctoral degrees in biology and marine sciences from UNC, had been to the seafloor near the BP wellhead many times before the oil spill to take core sediment samples. Four months after the well was capped, she and Teske returned to the Gulf supported by multi-year National Science Foundation grants totaling more than $1 million. About two miles from the BP wellhead, all seafloor samples were covered in a brownish muck a couple inches thick. “But it wasn’t fresh crude oil,” Teske says. It was a kind of accumulated necromass — toxic petroleum byproducts mixed with dead organisms. “Whatever lived at the floor has been run over by this toxic sediment,” Teske says.

Joye found dead worms and other sea life in similar sediment as far as 100 miles from the BP wellhead. Dead deepwater coral were covered with muck; they died immediately. “I’ve seen this recalcitrant oily muck at a large range of sites spanning a wide area since the oil spill,” she says, “but I had never seen anything like this before the spill.”

Teske and Joye found that the sediment contains various types of oil-degrading bacteria, and other researchers found that the same sediment samples contained heavy petroleum compounds that microbes weren’t able to digest. Many of the nastiest compounds — polycyclic aromatic hydrocarbons — are well-known carcinogens and are likely still in that brownish muck at the bottom of the Gulf because they’re hard to degrade, Teske says.

Oil and volatile gases contain two other groups of compounds — alkanes and aromatic hydrocarbons. Many alkanes can be degraded by specialized bacteria, yeast and fungi. “They’re the only life forms that can consume oil,” he says, “and incorporate it into their own biomass or process it into less harmful molecules.”

And bacteria did consume alkanes and aromatics during and after the 2010 oil spill, but there weren’t enough microorganisms to eat all the hydrocarbons, Joye says. Many oil compounds remained in the water column long enough so that marine life ingested them or bacteria ate them, Teske says. Zooplankton eat bacteria. Shrimp eat zooplankton. Fish eat shrimp. Larger fish, dolphins and seabirds eat smaller fish.

The carcinogenic oil compounds, especially polycyclic aromatics, that cause mutations in marine life gradually percolated through the food chain. These effects wouldn’t have been evident immediately after the oil spill, Joye says. Even after the Exxon-Valdez accident in 1989, Alaskan herring fisheries didn’t collapse until two years later.

This year, commercial shrimpers on the Gulf have reported catching tons of shrimp and crabs that have no eyes. Researchers and commercial fishers who had never caught deformed fish have now documented catching many sickly fish with visible sores, toxic livers and malformed hearts.

“I wish I could say that the oil spill is not a long-term problem because the Gulf system is primed to handle oil spills,” Joye says. “But that’s just not the case. Only now are we beginning to see some of the long-term impacts.”

Derek is a writer at Endeavors magazine online.
Cultivating the foodways of a special coastal community
By Kim Weaver Spurr ’88

Bernie Herman is not a marine biologist, but he knows an awful lot about oysters. For instance, it doesn’t take much space to grow the mollusks. The gathering space on campus between UNC Student Stores and Lenoir Hall fondly known as The Pit “would easily grow a million,” he says.

There’s more. One oyster filters roughly 50 gallons of water a day. It takes about 24 months for a native oyster to grow to “market size.” Oysters need substrate — a hard surface like recycled oyster shells — on which to settle.

Herman, the George B. Tindall Distinguished Professor of American Studies and Folklore, raises about 70,000 oysters in a private restoration effort on roughly five acres of “lease ground” owned by the state of Virginia. Herman’s “Westerhouse Pinks” are cultivated in Westerhouse Creek on the Eastern Shore, a slender saltwater peninsula across the 20-mile Chesapeake Bay Bridge-Tunnel from touristy Virginia Beach. The shore community, which has a long history of persistent poverty, is also rich in local food, from oysters and clams to soft-shell crabs, spot fish and snapping turtles. Locals from miles around gather to consume the latter at an annual turtle party hosted by Theodore Peed. This is quite literally, Herman says, “the South you never ate.”

July 6, 2012: The temperature and stillness relegate oyster work to the early hours in the day when the air is still cool and the morning winds are stirring. … The first cage was full to bursting — in fact, the oysters were pushing the lid up and off. These are older native oysters that possess a pinkish hue to their shells that is particularly evident on new bill growth. — from Bernie Herman’s oyster diary

Herman lived here as a small boy, eating oysters and clams and puffer fish, also called “swelling toads.” It’s a place “defined by a powerful sense of belonging, a place where you drive around on the back roads and you always wave, a place where folks pull together,” he says.

How do you play to the strengths of an area with a distressed economy? What does this place already do best? These are the questions that Herman the cultural historian brought to the table with an idea for heritage-based, sustainable economic development.

“Does the Eastern Shore of Virginia have a cuisine that is as complex and varied as say New Orleans or Charleston — no it doesn’t. But it has a special cuisine,” he says. “And so I started talking with folks, documenting local foods, collecting recipes (like clam fritters) and listening to the narratives that go with food and place.”

He also involved his undergraduate students in the effort. Lauren Shor (American studies ’11), wrote her senior honors thesis on the cultural history of clam farming. She and Dylan Hubbard (business administration ’11) helped Herman bring 10 of the nation’s top food writers, chefs and culinary historians for a two-day immersion on the Eastern Shore in 2010. Author Molly O’Neill included stories and recipes from the Eastern Shore in her cookbook, One Big Table: A Portrait of American Cooking.

“It’s one thing to bring the food to somebody; it’s very different to get out there on Hog Island and you’re seven or eight miles off shore and you’re standing knee deep in water … with seven or eight million clams at your feet,” Herman says.

May 15, 2011: [Last] November, we held an oyster tasting in Chapel Hill at 3Cups;
in March we convened with Lorraine Eaton [food writer at The Virginian-Pilot] and conducted a six-creek-plus seaside taste test. Not unsurprisingly everyone held forth that their oyster was best. The larger point is that from creek to creek the flavor profiles varied as significantly as if we were tasting wines. — from Bernie Herman’s oyster diary

In addition to what has become an annual oyster love fest at 3Cups, Herman worked with oyster grower and mentor Tom Gallivan of Shooting Point Oysters and Eastern Shore seafood trucker Dean Hickman, who now makes a weekly run down South to area restaurants. One of the star chefs who has been supportive of Herman’s efforts is Andrea Reusing of Chapel Hill’s Lantern restaurant, praised for fusing fresh local ingredients with Asian flavors. Herman regularly sets aside some of his “Westerhouse Pinks” for Reusing’s use.

Herman has also written essays about the cuisine of the Eastern Shore for Southern Cultures journal. He’s had some successes promoting the region’s unique foodways, yet “there’s still a lot of work to do,” he says.

“It’s important to keep up the effort to get the word out there, create awareness and hopefully increase market demand,” he says. “I hope this could serve as a model for other communities. It would be great to work with UNC students and a North Carolina community.”

“Environmentalists, scientists and others would do very well to listen to the anecdotal knowledge of a person who has spent 10, 15 or 50 years working on the water. … That’s part of what a real liberal arts education should teach you is how to listen.”

“Environmentalists, scientists and others would do very well to listen to the anecdotal knowledge of a person who has spent 10, 15 or 50 years working on the water. … That’s part of what a real liberal arts education should teach you is how to listen.”

On March 29 we convened with Lorraine Eaton [food writer at The Virginian-Pilot] and conducted a six-creek-plus seaside taste test. Not unsurprisingly everyone held forth that their oyster was best. The larger point is that from creek to creek the flavor profiles varied as significantly as if we were tasting wines. — from Bernie Herman’s oyster diary

In addition to what has become an annual oyster love fest at 3Cups, Herman worked with oyster grower and mentor Tom Gallivan of Shooting Point Oysters and Eastern Shore seafood trucker Dean Hickman, who now makes a weekly run down South to area restaurants. One of the star chefs who has been supportive of Herman’s efforts is Andrea Reusing of Chapel Hill’s Lantern restaurant, praised for fusing fresh local ingredients with Asian flavors. Herman regularly sets aside some of his “Westerhouse Pinks” for Reusing’s use.

Herman has also written essays about the cuisine of the Eastern Shore for Southern Cultures journal. He’s had some successes promoting the region’s unique foodways, yet “there’s still a lot of work to do,” he says.

“It’s important to keep up the effort to get the word out there, create awareness and hopefully increase market demand,” he says. “I hope this could serve as a model for other communities. It would be great to work with UNC students and a North Carolina community.”

“Environmentalists, scientists and others would do very well to listen to the anecdotal knowledge of a person who has spent 10, 15 or 50 years working on the water. … That’s part of what a real liberal arts education should teach you is how to listen.” — Lee Weisert

When Lee Weisert first heard the chords in The Rite of Spring as a high school student, the hairs on the back of his neck stood up. “There was a physical quality to the music that created a direct engagement with sounds I had never heard before,” says Weisert, an assistant professor in the department of music. Inspired by Stravinsky’s opus and influenced by John Cage’s pioneering work in seeking out new models for musical composition, Weisert embarked on a path toward music composition.

Weisert composes three types of music. “I create acoustic chamber pieces for various combinations of cello, piano and other traditional instruments,” he says. “There are purely electronic pieces that I write for the computer, usually for a fixed multichannel playback. And then there are sound installations on which I collaborate with a colleague, Jonathon Kirk, a professor at North Central College in Illinois.”
These installations explore the sounds created by water in its liquid and solid states. Last year, Weisert and Kirk created “Cryoacoustic Orb,” which featured multiple illuminated acrylic orbs filled with slowly melting ice. Hydrophones (underwater microphones), frozen inside the ice, amplified the sounds of the melting process. Those sounds were then electronically processed and broadcast through the gallery space, creating a soundscape that evolved over the course of several hours.

“I’m interested in the acoustic ecology movement which is a cross between the natural sciences and music composition,” says Weisert. “People have been recording interesting sounds in the environment from different areas of the world with some of the most beautiful recordings being the ice floes cracking and moving in the Arctic.” Weisert says that this work was a trigger for his project, as were the hydrophones he and Kirk purchased for their 2008 collaboration, “The Argus Project.”

That site-specific sound installation explored the sound sources from beneath the surface of a natural pond. “The pond supplied all the sonic material, like the garglings and bubblings and the occasional fish trying to eat the microphones,” says Weisert. “All of those sounds were captured by the hydrophones. In addition, we had sensors that picked up changes in the environment, such as temperature and light, which was translated into data that the computer altered into sounds.” Weisert says that the pond becomes both the instrument and the performer. He plans to stage this piece in Chapel Hill in 2013.

“I am intrigued by the sonic accessibility to a place that you can’t access in a normal situation without all of this technology,” says Weisert. “That direct simple discovery of this sound world is exciting.” Weisert says that the sound installations inspire his other musical compositions.

“I, along with other composers of instrumental and computer music, am always looking for new things to base my compositions on outside of the traditional forms, ideas or gestures,” says Weisert. “These sound installations offer textures that I would never think of myself.”

Weisert says that he can take the sounds he discovers and reshape them for a string quartet or another more traditional piece of music. “Some of the sound worlds, behaviors and shapes that came out of the installation are definitely creeping in to the electronic part of a piece I am now writing for saxophone and electronics,” he says.

**ONLINE EXTRA:**

To watch a video of “Cryoacoustic Orb,” visit [http://music.unc.edu/facstaff/weisert](http://music.unc.edu/facstaff/weisert).
Climate change’s effect on N.C.’s barrier islands
By Margarite Nathe

Sometime when you’re in the mood to be amazed, take a look at a satellite view of North Carolina’s Outer Banks. They don’t look like much — just a sliver of terra firma standing between our coast and the deep, dark North Atlantic. But those barrier islands are our mainland’s first line of defense. They absorb energy from big ocean waves, protect estuaries, and help reduce flooding when tropical storms and hurricanes come barreling up the eastern seaboard every year.

The shape of the Outer Banks has slowly changed over the centuries, says Laura Moore, an assistant professor of geology in the College of Arts and Sciences. And now changes in the climate are speeding up the process. Bigger and stronger storms, rising sea levels, bigger waves and even changes in the islands’ vegetation have already subtly altered their topography.

Moore uses historical maps, geologic data and computational modeling tools to create simulations that show how the barrier has moved since it first formed about 8,500 years ago, and to calculate how the islands may continue to evolve in the decades and centuries to come.

Barrier islands wander continually. They sit hunkered low in the water, their heads held just above the surf. When a big storm comes along and the water level rises, wind and waves wash over the surface, picking up sand from the shore face and sweeping it to the other side of the island. Alongshore currents also drag some of the sand and sediment up or down the coast.

All of these processes combine to send barrier islands on a slow, landward migration. As long as currents and waves don’t carry away the islands’ sediment too quickly, there will be sand available to resupply the other side of the island and enough of a foundation to keep the top of the barrier above water.

Some states have tried to prevent barrier island migration by building seawalls and other structures. But these are only a temporary fix, Moore says, and they can do more harm than good. Eventually the sea will scour away the sand that makes up the beach — a huge structural loss for the island. As sea level rises, water will creep over the wall, or a storm will breach it. The island, having lost the protection of the beach, will be inundated by waves and storm surge.

For the moment, North Carolina law doesn’t allow seawalls. “But this is going to be an issue the state will face in the future,” Moore says. According to her models, it’ll take a high rate of migration over the next few centuries to keep the Outer Banks above sea level. “The islands need to be able to move,” she says. “But this is not something that many folks would want to see. We’ve got homes built on the barrier islands. There will be more pressure to build structures to keep our homes and infrastructure where they are. In this case, though, structures will only hasten the loss of the islands.”

When Moore first started studying barrier islands and climate change 12 years ago, she says, the field was mostly focused on sea level rise. And while that’s a big part of the changes coming for the Outer Banks, the picture is more complicated than that.

Moore and her team of students and postdocs are now putting their modeling tools to work on the complex questions of ecomorphodynamics — the relationships between biological and physical processes. Take, for example, the way grass, wind and changing temperatures all influence one another.

Temperature determines which species of vegetation can grow on an island. And the vegetation determines what paths the wind will take as it races over the dunes, scraping up sand from some spots and dumping it in others. The placement of the sand affects which vegetation is able to grow and where — which, in turn, determines the wind patterns. All of these things together shape the shoreline, which then affects the way the island is able to hold up to storms.

Computational modeling tools can help us better understand these complex interactions and their role in the future of the Outer Banks, Moore says. Knowing what our barrier islands are in for could help us to keep their heads above water.

Nathe is a writer at Endeavors magazine online.
A steady stream of new ideas will trickle into classrooms across UNC this fall. Opportunities to study water will span from its chemistry to its roles in different societies and even geopolitical conflicts. While some professors are retooling older courses to incorporate issues concerning water, other professors are researching and designing entirely new curricula.

To spur new classroom experiences tied to the water theme, the Center for Global Initiatives awarded $22,400 in six grants for curriculum development. College of Arts and Sciences professors scooped up five of these grants. Here are some of their refreshing takes on water:

• History professor Sarah Shields began to focus on water issues as a result of her students’ interests. Shields says it became clear that water has played many pivotal roles in the societies and politics of Middle Eastern peoples. Her new course, “Water, Conflict and Connection: the Middle East and Ottoman Lands,” will go beyond historical geography to survey the economic influences of water in coastal communities dependent upon fishing and pearl-diving. It will also examine the technological innovations that allowed distribution of water for irrigation, the impacts of water pollution in today’s Middle East, public health issues arising from water-borne diseases, the role of water in religious and cultural practices, and the contribution of water scarcity to cross-border political conflicts.

• Valerie Lambert, an anthropology professor who focuses on American Indian issues, is developing a new course which will examine how water issues contribute to global socio-political and economic inequalities. “Water has always been central to my research,” Lambert says, “because the American Indian story is in large part a story about non-Indian efforts to gain control over Indian land, water and other resources.” Lambert says she is also seeking to make local tie-ins, such as discussing how the Eastern Band of Cherokee Indians in North Carolina bottle and market their own water.

• Chemistry professor Brian Hogan is also creating a new course which will not only examine the biochemical properties of water, but also water pollution issues and how contaminated water is a public health issue contributing to poverty and instability. “This course is unique in that it is only the second [at UNC] to try to bridge chemistry and society,” Hogan says.

“Poverty, water-borne illness and pollution are all interrelated.” He plans to introduce students to the major causes of water-borne pathogens and ways to eliminate them. On a personal level, Hogan’s relationship with two of the “Lost Boys of Sudan” informed him about the importance of the Nile River to the Dinka people. He’s making Southern Sudan one of two geographic areas of focus in the course. The second is a remote indigenous village in Izabal, Guatemala, where he adopted his daughter and has worked on water purity issues. Hogan says he’s seen that the inordinate amount of time spent purifying water in this village detracts from girls’ ability to attend school and become literate.

• Other CGI grantees from the College include: Robin Visser, professor of Asian Studies, for her updated course, “Chinese Ecoaesthetics and Water Issues;” and geology professors Tamlin Pavelsky and Jason Barnes for their updated course, “Linking Hydrology and Geology in the Athabasca River Watershed, Canada.”

In addition, Eunice Sahle, chair of the African and Afro-American studies department, is working with colleague Reginald Hildebrand to devise ways to explore water and health issues in the context of Chapel Hill’s Rogers Road community. Water will also be the theme of her department’s annual conference in 2014. •
Precious Resource
Procter & Gamble scientist saves lives through clean water

BY PAMELA BABCOCK

Greg Allgood (B.S. '81, M.S.P.H. '83), a Procter & Gamble scientist, knew his company had developed a packet of chemicals that could clean dirty water in 30 minutes. The product drew widespread interest, but it was almost nixed.

Yet one day at a muddy watering hole in Kenya, Allgood learned its deeper value. He watched a woman and her children marvel as a bucket of filthy, germ-ridden water became drinkable using a purification packet. Seconds later, a man lurking in the distance grabbed the bucket and bolted off. The woman fell to her knees and begged Allgood for more packets.

Allgood knew he had something special, something needed enough that people would plead for it, something good enough to steal. The scene spurred him to create a non-profit to provide safe water globally.

“It was life-changing for me that it could mean so much if we could reach the right people that really had dirty water,” Allgood recalled.

Allgood is director of P&G’s Children’s Safe Drinking Water Program, which provides more than a billion liters of clean drinking water annually using packets developed in collaboration with the U.S. Centers for Disease Control and Prevention. Allgood led the program’s creation in 2004 after he urged the company to shift from selling packets for profit to a not-for-profit model that would disseminate them in the developing world.

The Cary native, who also is a senior fellow in sustainability at P&G, received his undergraduate degree in biology and master’s in public health from UNC before getting a doctorate in toxicology from N.C. State University. He joined P&G in 1986.

P&G sells the packets at cost to more than 100 humanitarian groups, including FHI 360, Population Services International, World Vision, Samaritan’s Purse, CARE and Save the Children. Each packet treats 2.5 gallons of water, even if it’s extremely contaminated.

The packets contain iron sulfite, which works like a dirt magnet to pull particles like worms and parasites together, and a disinfectant that kills bacteria and viruses that cause cholera, dysentery and typhoid fever. After contaminants settle, water is strained through a clean cloth.

Allgood estimates that the program has provided 5 billion liters of clean drinking water since its inception. P&G plans to celebrate this milestone with a Malawi family that is part of a UNC School of Medicine program for people with AIDS. A video by UNC students will mark the occasion. AIDS is a key focus since it’s critically important that people prone to diarrhea and infections have clean water.

The program has received numerous awards, including the Ron Brown Award — the highest given by the U.S. government for corporate citizenship — and the U.S. Secretary of State’s Corporate Excellence Award.

Allgood, based in Cincinnati, has traveled to more than 60 countries in Central America, Latin America, Africa and Asia. His previous passport became so thick that the director of P&G’s archives seized it to showcase.

The program has other close ties to UNC. The UNC Gillings School of Global Public Health did packet development research, and P&G works closely with the UNC Water Institute to promote household water treatment.

Allgood lectures on sustainability annually at Kenan-Flagler Business School. He’s also worked with Morehead-Cain Scholars and UNC School of Journalism and Mass Communication students. In July 2012, he joined a team in Malawi to document the P&G and UNC collaboration and create a series of short films.

On University Day in October 2012, Allgood will be honored with a UNC Distinguished Alumni Award. He’s also co-chair of the advocacy and communications working group of the WHO and UNICEF International Network to Promote Household Water Treatment and Safe Storage and serves on the advisory board of the Clinton Global Initiative.

To date, Allgood estimates that the packets have saved more than 25,000 lives. But he’s even more excited about the future. P&G hopes to grow the program until it saves one life an hour — or around 8,760 lives per year.

“We’re already more than halfway to that goal,” Allgood said. “It’s mind-blowing to me that we could actually be saving one life every hour in the not too distant future.”
Former slave Thornton Copeland placed an “information wanted” advertisement, just five sparse lines of text, in the *Colored Tennessean* after the Civil War — 21 years after being sold away from his mother. UNC historian Heather Williams found about 1,200 such ads in newspapers published by African-Americans after the war. She tells these stories of hope and loss, love and longing in her new book, *Help Me to Find My People: The African American Search for Family Lost in Slavery* (UNC Press).

Williams discovered the ads while doing research for her dissertation, finishing graduate school in 2002. After a few months, she had collected 400 of them. She began to piece together slaves’ stories, using census data, journals, letters, government documents and slave narratives.

“I just found them really powerful,” Williams said. “Here are these people, and they are telling you so much in just a few lines. They are telling you about who they lost; sometimes they lost a lot of relatives. I thought, ‘How can anyone have that degree of hope to still find a person?’”

Williams, an accomplished quilter, captures this feeling of loss on the front cover of the book, which features a quilt she made with the book’s themes in mind. A blue border featuring red and yellow flowers surrounds a child’s white dress in the center of the quilt. Underneath the dress and around the side of the quilt, Williams traced the handwriting of Vilet Lester, a slave who is featured in the book. Lester writes to her former mistress in 1857: “I wish to [k]now what has Ever become of my Presus little girl. I left her in Goldsborough with Mr. Walker and I have not herd from her Since ...”

“So you’ve got a dress without a little girl, and a mother without a daughter,” Williams said. “To me, the cover is sort of inviting you into the stories that are in the book.”

While writing the book, Williams encountered her own feelings of grief and sadness. Last October, as the book was going to press, Williams’ father lost his battle with lung cancer. She would work on the book-cover quilt at her father’s bedside.

“I had a chance to say goodbye [to my father], and I love you, but a lot of these people did not have that chance.”

Williams divides the book into three sections, addressing separation, the search and reunification. Other than ads, former slaves would also reach out to churches or travel long distances in search of family. In 1865, a reporter for *The Nation* met a man who had walked 600 miles from Georgia to Concord, N.C., in search of his wife and children. But most people never found their relatives,
for as Williams writes, “too many miles and too many years lay between them.”

While writing the book, Williams received support from fellowships sponsored by UNC’s Institute for the Arts and Humanities and the National Humanities Center. And throughout the process, input from her undergraduate students helped to inform the book.

Williams uses one of her history quilts called “My Spirit is Lifted” in her classes; it features the Thornton Copeland ad, along with a number of other primary source documents, such as spirituals and lists of people being sold. In her research seminar, students were assigned chapters from the manuscript to analyze.

For the rest of my life I think I’ll keep finding examples of separation and reunification,” she said.

A native of Jamaica, Williams has begun work on a new project that will stretch her creativity and scholarship in new ways. She received an Andrew W. Mellon Foundation New Directions Fellowship (see sidebar) to tell the stories of Jamaican immigrants who came to the United States in the 1950s and ’60s. She plans to produce a documentary film, a completely new medium for her.

But Williams said in many ways her current book will never really be finished.

“Here are these people, and they are telling you so much in just a few lines … about who they lost; sometimes they lost a lot of relatives. I thought, ‘How can anyone have that degree of hope to still find a person?’”

Williams has already interviewed the person who helped bring her into the world — her 88-year-old Aunt Amy, a public health nurse and midwife who now lives in Florida. Aunt Amy is very special because she and her husband were the first among family members to migrate to New York. Jamaicans often came to the United States as individuals or in small family groups.

“My father used to say that her house was our Ellis Island, because everybody came through there.”

Williams was struck by the pictures of President Barack Obama her aunt had displayed throughout her house.

“She gave this powerful speech about what it meant to her that he had been elected. … It interests me to see where people will go in the interviews. What’s important to them?”

Williams wants to tell immigrants’ full stories, including how they navigated in this new society, the bonds they formed and their consciousness of race.

“Jamaica is 98 percent black,” she said. “These people came to America when everything was changing in terms of race and equality and treatment of black people. The time that they came is really very significant. Where do you position yourself in that? How do other people see you and treat you? I think there’s a story there.”

Documentary film will capture the lives of Jamaican immigrants

By Kim Weaver Spurr ‘88

Heather Williams is a history professor, a book author, a quilt maker and a former Civil Rights attorney. A year ago, she couldn’t even turn on a video camera, but soon she’ll add documentary filmmaker to that list.

A native of Jamaica, Williams emigrated to Brooklyn, N.Y., when she was 11. She wants to capture the lives and stories of Jamaican immigrants who came to the United States in the 1950s and ’60s, often for better jobs and educational opportunities. She’ll conduct interviews in Jamaica, Florida, New York and Chicago, and see where those interviews take her.

That’s the beauty of her recently awarded Mellon New Directions Fellowship, which helps faculty members in the humanities who want to explore new projects outside their disciplines. She’ll take courses in documentary filmmaking at Duke University and courses in sociology and anthropology at UNC.

She credits an undergraduate student with turning her on to the idea of film. In Jamaica, she hopes to capture a church service, a primary school, the ocean, the marketplace, the fruit trees. She will also interview people who came to live in America but returned home, as well as some who chose not to come in the first place.

“I had been thinking about an oral history, just to capture these people’s stories, to collect an archive and create a narrative,” Williams said. “So one of my students said before I applied for the Mellon grant, ‘Will you videotape it?’ And it was just that meeting of generations. … A place like Jamaica is so visual. It’s a gorgeous place. You’ll see the contrast between the small, green, lush place they left to a big apartment building in New York. … I think film will reach people a book would not reach.”

Williams has already interviewed the person who helped bring her into the world — her 88-year-old Aunt Amy, a public health nurse and midwife who now lives in Florida. Aunt Amy is very special because she and her husband were the first among family members to migrate to New York. Jamaicans often came to the United States as individuals or in small family groups.

“My father used to say that her house was our Ellis Island, because everybody came through there.”

Williams was struck by the pictures of President Barack Obama her aunt had displayed throughout her house.

“She gave this powerful speech about what it meant to her that he had been elected. … It interests me to see where people will go in the interviews. What’s important to them?”

Williams wants to tell immigrants’ full stories, including how they navigated in this new society, the bonds they formed and their consciousness of race.

“Jamaica is 98 percent black,” she said. “These people came to America when everything was changing in terms of race and equality and treatment of black people. The time that they came is really very significant. Where do you position yourself in that? How do other people see you and treat you? I think there’s a story there.”

Read a New York Times review and listen to a “Talk of the Nation” interview with Williams at http://college.unc.edu/extras.
If you haven’t come across a robot lately, it’s because they’re still not very good with people, says computer scientist Ron Alterovitz. Humans are unpredictable — robots are limited by their programming. Humans are soft to the touch — robots are used to interacting with rigid materials. In the world of manufacturing, for example, robots do great at tasks involving wood or steel.

In Alterovitz’s lab, he and his team are teaching robots to work in the human world of variability and living tissue. Researchers don’t have to build whole machines from scratch — those already exist, Alterovitz says, and some of them are pretty impressive. Robots can wield a needle with precise control, or run, throw objects and carry things.

“We already have hardware that’s close to what we need,” Alterovitz says. “The challenge is, how do you actually program these robots so they can do something useful?”

He thinks of an elderly relative in an assisted-living center. “She had been this independent, spunky woman,” he says. “But the number of tasks that she couldn’t do by herself started increasing. One thing that was giving her trouble was putting on her compression stockings every day. I thought, ‘why is it that we don’t have a robot that can help her do things like that?’”

It wouldn’t make much sense to write a computer program just to have a robot help people put on their stockings. It would take a huge amount of code, and the result would be a robot extremely limited in its usefulness — what if you changed to a different type of hosiery?

Instead, Alterovitz’s team writes code that allows a robot to be taught new tasks by ordinary people. You guide the robot’s limbs by hand through a task several times, and the robot notices what changes on each repetition and what stays the same.

“There are so many things that seem trivial to our minds,” Alterovitz says. “For example, at some young age we learned that you have to hold a plate of food level or all of it will slide off onto the floor.”

“A robot knows nothing. You can
try to program all these nuances, or you can create a method to teach a robot to perform skills and have the robot be able to do those things again in new environments.”

Alterovitz and grad students in his lab have been working with a robot called Nao (“now”), a little two-foot humanoid made by a French company called Aldebaran Robotics. They’ve taught Nao how to add sugar to tea and how to wipe down a table. These are small steps, Alterovitz says, on the road to more complicated tasks such as putting on stockings. The important thing his group has shared with other computer scientists is how to have a robot judge what’s important about a new task it’s learning, like keeping the spoon level or maneuvering around obstacles.

On the surface, little Nao looks like the most advanced technology in the Alterovitz lab. But another robot that looks like just a couple of rods and boxes may start helping people sooner than humanoid robots will. It’s a surgery robot that the Alterovitz lab has tested its medical needle steering work, conducted with computer science grad students Sachin Patil and Luis Torres, is funded in part by the National Science Foundation and is a collaboration with the Division of Occupational Science and Occupational Therapy in the UNC School of Medicine. The needle steering project, funded by the National Institutes of Health, is also the work of computer science grad students Sachin Patil and Luis Torres, and is a collaborative effort with the UNC School of Medicine, Vanderbilt University, Johns Hopkins University and the University of California, Berkeley.

When the robot twists the needle’s base, the needle slides through tissue in a curving path governed by the direction of the slant on the needle’s head.

Human surgeons with regular needles are limited to pretty much a straight-shot path when they’re operating. This means a lot of places in the body are hard for them to reach without damaging other organs. On the other hand, robotic, curving needle could reach any number of places in the body are hard for them to reach without damaging other organs. When the robot twists the needle’s base, the needle slides through tissue in a curving path governed by the direction of the slant on the needle’s head.

The Alterovitz lab has tested its medical robot on animal organs, but mostly it practices with tissue phantoms — gels that bend like animal and human tissue. They place obstacles in the tissue, and the robot figures out how to get a needle around them to the target. The robot is good at predicting how much and where the tissue will move in response to the needle.

The prostate gland, for example, is a difficult target, and when a patient has prostate cancer, a common treatment is radiation seed therapy, in which a doctor has to place tiny doses of radiation precisely on the gland to damage the cancer while hurting as little of the surrounding tissue as possible.

Studies have shown that experienced physicians frequently misplace the radiation therapy. “Patients may end up with these seeds giving a high dose of radiation to healthy tissue, and the actual cancerous tissue isn’t getting enough of a dose,” Alterovitz says. “That can lead to recurrences and to side effects on the healthy tissue.”

The robot, on the other hand, can analyze medical images such as ultrasounds to figure out the safest path around organs, predicting how tissues will shift in response to a needle. It can also use the bevel-tipped needle, which is hard for a human hand to wield because our brains can’t easily predict the curved path the needle will travel as it turns.

“A ROBOT KNOWS NOTHING. YOU CAN TRY TO PROGRAM ALL THESE NUNANCES, OR YOU CAN CREATE A METHOD TO TEACH A ROBOT TO PERFORM SKILLS AND ... BE ABLE TO DO THOSE THINGS AGAIN IN NEW ENVIRONMENTS.”

There are a lot of medical procedures that need the same kind of help, Alterovitz says, such as removing a tumor near the surface of a lung. If surgeons go through the chest, they might disturb the pressure of the lung and collapse it accidentally. A robotic, curving needle could reach any point in the lung by going through the patient’s mouth.

Surgical robots won’t be outright replacing humans next to the operating table, Alterovitz says. But part of the point of robot-assisted surgery is to create a good digital replica of the patient. An accurate 3-D model, enhanced with information about the weight and resistance of each type of tissue, lets a robot, or a human, practice surgeries ahead of time.

“No one wants to be the first patient someone operates on,” Alterovitz says. “We want to let physicians realistically experience what a surgery will be like before they perform it.” •

Hardy is a writer at Endeavors magazine online. Alterovitz is an assistant professor of computer science in the College of Arts and Sciences. His assistive robotics work, conducted with computer science grad students Gu Ye, Chris Bowen and Jeff Ihnouski, is funded in part by the National Science Foundation and is a collaboration with the Division of Occupational Science and Occupational Therapy in the UNC School of Medicine. The needle steering project, funded by the National Institutes of Health, is also the work of computer science grad students Sachin Patil and Luis Torres, and is a collaborative effort with the UNC School of Medicine, Vanderbilt University, Johns Hopkins University and the University of California, Berkeley.

To learn more, visit http://robotics.cs.unc.edu.
On April 21, UNC lost one of its literary luminaries with the passing of creative writing professor Doris Betts, UNC Alumni Distinguished Professor Emerita. Carolina will host a gathering in her honor and memory Oct. 7 at 3 p.m. at the George Watts Hill Alumni Center.

“Doris Betts was an extremely serious and unsentimental artist, a candid and powerful teacher, a devoted and constant friend, and a profound warmth and joy underlay it all. Her advice and counsel were the best there was, and if one person could really help another get through sad, tough, trying times, she was that one. Legendary were her genius for friendship, her compassion, her capacity for work, and her tenacity in crafting the clearest and most compelling prose. She was as a literary artist the same way she was as a woman: direct, penetrating, surprising and wise.”

— Bland Simpson, Kenan Distinguished Professor of Creative Writing

**FALL • 2012**

- **Two Captains from Carolina: Moses Grandy, John Newland Maffitt, and the Coming of the Civil War** (*UNC Press*) by Bland Simpson. A born storyteller fascinated by coastal history, Simpson weaves together the lives of two 19th century mariners who never met — an African-American and an Irish-American. It’s a real-life saga of race, hardship and conflict in the Civil War-era South. Simpson is the Kenan Distinguished Professor of Creative Writing and member of the Tony Award-winning Red Clay Ramblers.

- **Groove Music: The Art and Culture of the Hip Hop DJ** (*Oxford University Press*) by Mark Katz. It’s all about “the scratch” in this new book about the figure that defined hip-hop. Katz (chair of UNC’s music department and an amateur DJ) delves into the fascinating world of the DJ, tracing the art of the turntable from its humble beginnings in the Bronx in the 1970s to its place in global culture today. DJs discuss a wide range of topics, including the transformation of the turntable from a playback device to an instrument in its own right.

- **27 Views of Asheville and 27 Views of Durham** (*Eno Publishers*). Authors with UNC ties contribute to the third and fourth in this series of anthologies of contemporary Southern towns. In Asheville, writers address everything from UNC alumnus Thomas Wolfe’s powerful legacy to the town’s celebrated Art Deco architecture. UNC creative writing professor Michael McFee’s poem tells of the time Babe Ruth fainted right after his arrival in Asheville. Durham writers capture the essence of the city known for its tobacco, diversity, sports and grit. UNC folklore M.A. grad Jim Wise opens the Durham anthology with the piece “A Sense of Place.”

- **Woody Durham: A Tar Heel Voice** (*John F. Blair*) by Woody Durham ’63 with Adam Lucas ’03. *Our State* magazine once said this about the long-time radio play-by-play man known as the “Voice of the Tar Heels”: “To his listeners, he’s what powder blue sounds like.” In this autobiography, Durham takes readers behind the scenes with the coaches and players he worked with during his 30-year tenure.

- **Did Jesus Exist? The Historical Argument for Jesus of Nazareth** (*Harper Collins*) by Bart Ehrman. Just when you thought you had UNC’s agnostic religious studies scholar figured out, Ehrman has a surprise in store. His newest book provides persuasive historic evidence that Jesus, the man, was for real. And it’s a page-turner. Ehrman is the James A. Gray Distinguished Professor of Religious Studies.

- **Hearing Sappho in New Orleans: The Call of Poetry from Congo Square to the Ninth Ward** (*LSU Press*) by Ruth Salvaggio. While sifting through trash in her flooded New Orleans home, Salvaggio discovered an old volume of Sappho’s poetry that was stained with muck and mold. In her efforts to restore the book, Salvaggio realized that the process reflected how the Greek poet’s own words were unearthed from the refuse of the ancient world. The UNC professor of English and comparative literature sets out to recover the city’s rich poetic heritage while searching through its flooded debris.

- **Enduring Injustice** (*Cambridge University Press*) by Jeff Spinner-Halev. Governments today often apologize for past injustices, and scholars increasingly debate the issue, with many calling for apologies and reparations. Spinner-Halev, UNC Kenan Eminent Professor of Political Ethics, argues that there are “enduring injustices” — those that begin in the past, continue today and will continue into the future unless specifically addressed.
Johnny Johnson, Series I, Volume 13 (Kurt Weill Foundation for Music) edited by Tim Carter. Originally produced by the legendary Group Theatre in 1936, Johnny Johnson (with book and lyrics by UNC playwright Paul Green) marked Weill’s first contribution to American musical theater. UNC musicologist Carter draws on a variety of surviving source material for this volume, including Weill’s manuscripts, rehearsal scores and sets of instrumental parts to bring this edition to full score. Carter is David G. Frey Distinguished Professor of Music.

The Tree of Forgetfulness (LSU Press) by Pam Durban. In her new novel, UNC’s Doris Betts Distinguished Professor of Creative Writing recovers the largely untold story of a brutal Jim Crow-era triple lynch in rural South Carolina. By interweaving several characters’ voices, Durban produces a complex narrative that resurrects a troubled past and the untold story of a brutal Jim Crow-era.

Colonial Entanglement (UNC Press) by Jean Dennison. From 2004 to 2006, the Osage Nation conducted a governmental reform process in which sharply differing visions arose over the new government’s goals, the Nation’s own history and what it means to be Osage. UNC anthropologist Dennison, a member of the Osage Nation, brings to light the complexities of defining indigenous citizenship and governance in the 21st century.

Neighbors and Other Strangers (Mint Hill Books) by Ruth Moose. Women in small-town life are the characters that populate this new collection of short stories — like Loretta, who makes a lemon pie with tofu for the second wedding of her first boyfriend. One reviewer wrote: “Ruth Moose is gifted with an unfailing ear for conversation, a sharp eye for details ... and a wit Mark Twain would approve.” Moose has retired from UNC’s creative writing faculty.

The Southern Journey of Alan Lomax: Words, Photographs and Music (W. W. Norton & Company) by Tom Piazza with an introduction by William Ferris. More than 50 years ago, Lomax traveled the South, uncovering little-known backcountry and blues music. This new volume features a collection of 65 largely unpublished photographs. Ferris discusses the life and career of the man known for introducing musicians like Woody Guthrie, Pete Seeger, Muddy Waters and Burl Ives to a mass audience. Ferris is the Joel R. Williamson Eminent Professor of History and senior associate director of the Center for the Study of the American South.

The Evening Hour (Bloomsbury USA) by Carter Sickels. The coal-mining world of Dove, Creek, W.Va., vividly comes to life in this debut novel by UNC alum Sickels (M.A. folklore ’10). Born and raised there, 27-year-old Cole Freeman has sidestepped work as a miner to become an aide in a nursing home. He’s also a drug dealer, reselling prescription drugs his older patients give him. Freeman has always dreamed of leaving, but when disaster befalls his hometown, he is forced to confront his fears and take decisive action.

Buenas Noches, American Culture (Indiana University Press) by María DeGuzmán. Often treated like the night itself — both visible and invisible — Latina/os make up the largest minority group in the U.S. In her newest work, DeGuzmán explores representations of night in art and literature from the Caribbean, Central and South America, and the U.S., calling into question night’s effect on the formation of identity for Latina/os. She is UNC professor of English and comparative literature and director of Latina/o studies.

The Renegades (Putnam) by Tom Young. A catastrophic earthquake ravages Afghanistan, and American troops rush to deliver aid, among them Lieutenant Colonel Michael Parson and his interpreter, Sergeant Major Sophia Gold. The devastation facing them is like nothing they’ve ever seen, however — and it’s about to get worse. This is the third in a series by Young (RTVMP B.A. ’83, M.A. ’87) who has logged nearly 4,000 hours for the Air National Guard in Iraq, Afghanistan, Bosnia, Kosovo and elsewhere.

Cherokee Stories of the Turtle Island Liars’ Club (UNC Press) by Christopher B. Teuton, with Hastings Shade, Sammy Still, Sequoyah Guess and Woody Hansen. This collection features 40 interwoven stories, conversations and teachings about Western Cherokee life, beliefs and the art of storytelling, known in the Cherokee language as gagaga, literally translated as “he or she is lying.” Teuton, a member of the Cherokee Nation, is UNC associate professor of American studies.

CAROLINA ARTS & SCIENCES • FALL 2012 • COLLEGE.UNC.EDU • 31
HONOR ROLL 2012

Thank You!

The College of Arts and Sciences gratefully thanks the 12,564 donors who supported its students, faculty, and programs in fiscal year 2011-2012. Every charitable gift made to the College strengthens its 219-year-old tradition of educating students in the arts, humanities, and sciences.

The 2012 Honor Roll recognizes donors whose gifts to the College of Arts and Sciences between July 1, 2011, and June 30, 2012, qualify them for membership in the following giving societies:

- **Cornerstone Society** — $25,000 and above
- **Chancellor’s Circle** — $10,000 to $24,999
- **Carolina Society** — $5,000 to $9,999
- **1793 Society** — $2,000 to $4,999
- **Dean’s Circle** — $1,500 to $1,999
- **Young Alumni Levels**
  - Students: $250
  - Classes 2002 to 2006: $1,000 and above
  - Classes 2007 to 2011: $500 and above

In academic year 2012, 1,180 donors made gifts to the College at the Dean’s Circle level or higher, providing the College with vital resources for creating and maintaining a first-rate academic experience at Carolina.

The Honor Roll does not include bequests or other planned gifts to the College. Furthermore, it omits the 22 anonymous donors. This list has been prepared with great care to ensure its accuracy. To report a mistake, please contact Tina CoyneSmith at (919) 962-1682 or tc@unc.edu.

Thank you, once again, for generously supporting the College of Arts and Sciences at Carolina!

---

**CORNERSTONE SOCIETY** ($25,000 and Above)
- Tom* and Donna* Bland, Columbia, MO
- Peter and Heather Bonemartin, Lawrence, NY
- Mr. Karl Franklin Brumback and Mrs. Eileen Pollard Brumback, New York, NY
- Mark Joseph Buono, Riverdale, NJ
- Mr. and Mrs. John W. Burness III, Winston-Salem, NC
- Lee and Sunny Burrows, Atlanta, GA
- Mr. and Mrs. Russell Miller Carter, Wilmington, NC
- W. Lowry and Susan S. Gould, Durham, NC
- Mr. Max C. Chapman, Jr., Houston, TX
- Mark P. Clee, Chevy Chase, MD
- Estate of Henry L. Cox, Seminole, FL
- Vicki L. and David F. Craver, Riverside, CT
- Rose and Steve Crawford, Brunswick, ME
- Olivia Ratledge Delacruz, Atlanta, GA
- Robin Richards Donohoe, San Francisco, CA
- Mr. and Mrs. Joseph W. Dom, Washington, DC
- Steven S. Dunlevie, Atlanta, GA
- Mr. Robert Lee Epting, Chapel Hill, NC
- Eli N. Evans, New York, NY
- Molly and Henry Fredrich, Charlotte, NC
- Duvall S. Furqua and J. Rev. Furqua, Atlanta, GA
- Ms. Joan Hecker Gellings, Chapel Hill, NC
- John and Sallie Glover, Raleigh, NC
- Peter T. and Laura M. Grauer, New York, NY
- Mr. and Mrs. Bernard Gray, Atlanta, GA
- Julia S. Grumbles and William Henry Grumbles, Chapel Hill, NC
- Estate of George Mills Harper, Pennington, NC
- C. Felix Harvey, Kinston, NC
- Richard Lee Hoyt and Judith Rhodes Hoyt, Raleigh, NC
- Barbara and Pitt Hyde, Memphis, TN
- Lynn Buchheit Janney and Stuart Symington Janney, Butler, MD
- Mr. and Mrs. Charles M. Johnson III, Richmond, VA
- George and Janet Johnson, Atlanta, GA
- Kyle V. Jones, Pittsboro, NC
- Estate of Fredrick Joyner
- Mr. Cary J. Kaminsky, Roslyn, NY
- Mr. and Mrs. Gary S. Kaminsky, Haverford, PA
- Joseph Michael Kempf, Potomac, MD
- Mercedes Kaufman and Robert Edward Kaufman, Boca Raton, FL
- Estate of Joseph Mordecai Kittner, Washington, DC
- David Mabon Knott and Virginia Commander Knott, Mill Neck, NY
- Mr. and Mrs. William M. Lamont, Jr., Dallas, TX
- Dee K. LeRoy, Chevy Chase, MD
- Howard Levine and Julie Lemor, Charlotte, NC
- Douglas and Shawn Mackenzie, Palo Alto, CA
- Stephen Nabel Malik and Kathleen Kitts Malik, Raleigh, NC
- Peter G. C. Mallinson, London, UK
- Mr. Peter H. McMillan, London, UK
- David and Christine McSpadden, San Francisco, CA
- Sandra and Bill Moore, Chapel Hill, NC
- Mr. and Mrs. Allen Morgan, Jr., Memphis, TN
- Stephen Nielack and Linda Marcus Nielack, New York, NY
- Mr. Dean E. Painter, Jr., Raleigh, NC
- Kim and Phil Phillips, Chapel Hill, NC
- James Arthur Pope, Raleigh, NC
- Edwin and Harriet Poston, Chapel Hill, NC
- Benjamin and Jennie Lou Reid, Coral Gables, FL
- Frances P. Rollins, Durham, NC
- Mr. David M. Rubenstein, Washington, DC
- Lee Ann and Peter Rummell, Jacksonville, FL
- Jane Beatwright Schwab and Nelson Schwab III, Charlotte, NC
- Edward M. Strong and Laurel Durst Strong, New York, NY
- Mr. and Mrs. Frank Charles Sullivan, Bay Village, OH
- Mr. and Mrs. Crawford L. Taylor, Jr., Birmingham, AL
- Evelyn M. Turner and John L. Turner, Key Largo, FL
- Tom and Betsy Uhlman, Madison, NJ
- Dr. Marcus B. Waller, Chapel Hill, NC
- Ted Wieseman, Jersey City, NJ
- Ward and Margaret Williams, Charlotte, NC
- Loyal and Margaret Wilson, Chagrin Falls, OH
- Libby and Jennifer Wood, Atlanta, GA

**CHANCELLOR’S CIRCLE** ($10,000 to $24,999)
- James and Julie Alexandre, Haverford, PA
- Ivan V. Anderson, Jr. and Renee Dobbins, Charleston, SC
- Donald A. Baer, Washington, DC
- Win and Rosanah Bennett, Greenwich, CT
- Phillip D. Bennett, London, UK
- Dan and Ann Bernstein, Briarville, NY
- Mr. and Mrs. Hyman Biebsky, London, UK
- Lelia E. Blackwell and John D. Watson, Jr., Paris, France
- Anne Whitten Bolyea, Fort Myers, FL
- Candall and Erienne Bowles, Charlotte, NC
- John L. Brantley, Ponte Vedra Beach, FL
- Mr. and Mrs. William S. Brenizer, Glen Head, NY
- Frank and Nancy Brenner, Greensboro, NC
- Kristin Breas and Geoff Burgess, London, UK
- Albert B. Brown, Philadelphia, PA
- James Asa Brutton III, Clifton, VA
- Cathy Bryson, Chapel Hill, NC
- Vaughn and Nancy Bryson, Vero Beach, FL
- Ann W. Burns, Richmond, VA
- Norman P. Chapel and Mary Beth Chapel, Edina, MN
- Anne-Lynne Charbonnet, New Orleans, LA
- Rebecca and Munroe Cobey, Chapel Hill, NC
- Robert Feaster Coleman III, Winston-Salem, NC
- Robert E. and Helen H. Conrad, Hillborough, NC
- Susan Barber Coppendge, Boston, MA
- Frederic Dallcroft and Jane Bultman Dallcroft, Chapel Hill, NC
- Mr. Michael A. Dilerio, Pok Fu Lam, Hong Kong
- Todd Gerald Dunicant, Mid Levels, Hong Kong
- Mr. and Mrs. Craig P. Dunlevie, Atlanta, GA
- Mike and Mindy Egan, Atlanta, GA
- Mr. Stuart Elliot Ezenstat, Chevy Chase, MD
- Lester G. Fant III, Washington, DC
- Mr. Jonathan Bernid Fassberg and Mrs. Edith Fassberg, New York, NY
- John A. Fichthorn, Dallas, TX
- Mr. Alan S. Fields and Mrs. Gail Fields, Lexington, MA
- Dr. and Mrs. Jaroslav T. Folda III, Chapel Hill, NC
- Dr. Marcus B. Waller, Chapel Hill, NC
- Lelia E. Blackwell and John D. Watson, Jr., Paris, France
- Anne Whitten Bolyea, Fort Myers, FL
- Candall and Erienne Bowles, Charlotte, NC
- John L. Brantley, Ponte Vedra Beach, FL
- Mr. and Mrs. William S. Brenizer, Glen Head, NY
- Frank and Nancy Brenner, Greensboro, NC
- Kristin Breas and Geoff Burgess, London, UK
- Albert B. Brown, Philadelphia, PA
- James Asa Brutton III, Clifton, VA
- Cathy Bryson, Chapel Hill, NC
- Vaughn and Nancy Bryson, Vero Beach, FL
- Ann W. Burns, Richmond, VA
- Norman P. Chapel and Mary Beth Chapel, Edina, MN
- Anne-Lynne Charbonnet, New Orleans, LA
- Rebecca and Munroe Cobey, Chapel Hill, NC
- Robert Feaster Coleman III, Winston-Salem, NC
- Robert E. and Helen H. Conrad, Hillborough, NC
- Susan Barber Coppendge, Boston, MA
- Frederic Dallcroft and Jane Bultman Dallcroft, Chapel Hill, NC
- Mr. Michael A. Dilerio, Pok Fu Lam, Hong Kong
- Todd Gerald Dunicant, Mid Levels, Hong Kong
- Mr. and Mrs. Craig P. Dunlevie, Atlanta, GA
- Mike and Mindy Egan, Atlanta, GA
- Mr. Stuart Elliot Ezenstat, Chevy Chase, MD
- Lester C. Faint III, Washington, DC
- Mr. Jonathan Bernid Fassberg and Mrs. Edith Fassberg, New York, NY
- John A. Fichthorn, Dallas, TX
- Mr. Alan S. Fields and Mrs. Gail Fields, Lexington, MA
- Dr. and Mrs. Jaroslav T. Folda III, Chapel Hill, NC
- Steve Cumbie and Druscilla French, Chapel Hill, NC
- Jeremy Randall Fry and Leigh Nicole Fry, Olath, KS
- Drs. R. Barbara Gitenstein and Donald B. Hart, Ewing, NJ
- N. Jay Gould, New York, NY
- Dr. Bernadette Gray-Little and Mr. Shade Keys Little, Lawrence, KS
- Andy* and Cindi Griffith, Manteo, NC
- Matthew Michael Guest, Maplewood, NJ
- Harriette J. Gusennov, Naples, FL
- Robert H. Hackney, Jr. and Shauna Hollman, New Preston, CT
- Henry G. Hagan, Gibson Island, MD
- Mr. Douglas A. P. Hamilton, New York, NY
- Mr. Henry F. Hamilton III, Katy, TX

*Deceased
CAROLINA SOCIETY ($5,000 to $9,999)

- Mr. and Mrs. Michael K. Alford, Jacksonvile, NC
- Mr. John Fredrick Alscherler and Mrs. Leah Harris Alscherler, Studio City, CA
- Drs. Q. Whitfield and Rebecca I. Ayres, McLean, VA
- Mr. and Mrs. Robert E. Barnhill III, Rocky Mount, NC
- Edward T. Baur, Saint Louis, MO
- Frederick D. Benton, Akron, SC
- Robert L. Susick and Kristine Bergstrand, Chapel Hill, NC
- Mr. and Mrs. John David Black, Charlotte, NC
- Mr. Ronald G. Boatwright, Colleyville, TX
- Dr. and Mrs. Ben W. Bolch, Nashville, TN
- Anne Faris Brennan, New York, NY
- R. Duke Buchanan III and Hannah Hovomy Buchanan, Palm Beach, FL
- Hacker and Kitty Caldwell, Charlotte, TN
- Mr. Leonard Cass, Chapel Hill, NC
- Mr. Robert William Chesney and Mrs. Mary Catherine Archer Chesney, Charlotte, NC
- Tiffany Miller Clark and William Grimes Clark IV, Tarboro, NC
- Dickie Clise, Charlotte, NC
- Sheila Corcoran, Los Angeles, CA
- G. Lee Cox, Jr., Lynn Spencer Cory, Charlotte, NC
- Blake Coles and Brenda Coles, Raleigh, NC
- Keith O. and Ann R. Cowan, Atlanta, GA
- Jason Ralph Cox, Central, Hong Kong
- Michael E. and Monica Longworth Coyne, New York, NY
- Neil and Laura Brown Cronin, Acton, MA
- James Lee and Jean L. Davis, New Bern, NC
- Claire Dewar, Dallas, TX
- Mr. Robin Hood Dial, Columbus, SC
- Christina Sampoea Downey, Riverside, CT
- Michael Nathan Driscoll, Manassas, VA
- Dr. and Mrs. Chip Ducket, High Point, NC
- Calvine Dunnan and Douglas Dunnan, Rye, NY
- Mr. and Mrs. Stephen A. Eason, Durham, NC
- Russell S. Edrminster, Cary, NC
- Charles W. Ehhardt and Judith Ehhardt, Tallahassee, FL
- Mr. and Mrs. Michael Elliott, Charlotte, NC
- Douglas R. Eubanks, Dallas, TX
- Dan Fitz, London, UK
- David and Nancy Fortensbery, Charlotte, NC
- Barbara L. Fredrickson, Chapel Hill, NC
- Dr. Paul W. Gabrielson and Mary Louise May, Hillborough, NC
- Gary J. Gala, Chapel Hill, NC
- Dr. Gordon P. Golding Jr., Paris, France
- Bill Rios and Susan Gravel, Chapel Hill, NC
- Mr. Timothy Richard Graves and Mrs. Cathey Stricker Graves, Manhattan Beach, CA
- Sanford and Susan Greenberg, Washington, DC
- Anthony S. and Hope R. Harrington, Easton, MD
- David R. Harris and Peter Mohrmann, Davis, CA
- Mr. and Mrs. William B. Harrison, Jr., Greensboro, NC
- Mr. Allan Niles Haseley and Mrs. Kelly Beck Haseley, Charlotte, NC
- Richard and Ford Hobbs, Raleigh, NC
- Patricia Jenny and Kent Hitcheish, Montclair, NJ
- Mrs. R. Brandon Hobbs, Chapel Hill, NC
- The Honorable and Mrs. Truman McGill Hobbs, Montgomery, AL
- Dr. and Mrs. Douglas K. Holmes, Raleigh, NC
- Mr. James W. Howard Jr., Mableton, GA
- James Richard Huddle and Jane Fuller Huddle, Charlotte, NC
- James C. and Nina Ford Jackson, Charlotte, NC
- Mr. Harold Luther James and Mrs. Vicki McBride James, Cotebrook, England
- Edward Kaplan and Irene Kaplan, Washington, DC
- Frank* and Betty Kenan, Chapel Hill, NC
- Lynne and Dick Kohn, Durham, NC
- Kimberly Kyser, Chapel Hill, NC
- Eugene Y. Lao, Burlington, CA
- John A. Larkin III, San Antonio, TX
- Hal and Holly Levinson, Charlotte, NC
- Lara Levin, New York, NY
- Perd. and Mrs. Ronald C. Link, Chapel Hill, NC
- Ms. Paula Jean Lombardi, Charlotte, NC
- Joe Lovelad, Atlanta, GA
- Mr. Nolan Delano Lovins, Lenoir, NC
- Richard B. and Linda C. Lupton, Westerville, OH
- Thomas Luther Lutz, Dallas, TX
- Alexander Huntley Mackintosh, St., Stanley, Hong Kong
- Frances Chapman and John F. Mangan, Charlotte, NC
- John Stephen Mann, Durham, NC
- D. G. and Harriet Martin, Chapel Hill, NC
- Morris I. McDonald, Jr., Englewood, CO
- Neil and Melanie McKnight, Brooklyn, NY
- Mr. Emmett McLean, Birmingham, AL
- Jim and Carol Medford, Greensboro, NC
- Dr. and Mrs. C. Curtis Mezher, Amelia Island, FL
- Helioe Merrill, Charlotte, NC
- Christian Keener Miller, Old Greenswich, CT
- Daniel and Leah Miller, Charlotte, NC
- Estate of Roy Truskow Mitchell, Martinsville, VA
- Dena and Chris Moore, Richmond, VA
- Philip Victor Moss, Annendale, NJ
- Ms. Constance B. Newberry, New York, NY
- John and Cynthia O'Hara, Chapel Hill, NC
- Josie Ward Patton, Chapel Hill, NC
- Mr. and Mrs. Jim W. Phillips, Jr., Greensboro, NC
- Daniel Craig Pignatiello, League City, TX
- Frank and Ellen Prout, Pok Fu Lam, Hong Kong
- R. M. Popp and D. L. Wood, York, SC
- Stephen David Prystowsky and Rochelle Prystowsky, Chapel Hill, NC
- Ed and Suzy Rankin, Fairview, NC
- Debra R. Raffit, Raleigh, NC
- Richard J. Razook, Miami, FL
- Sandy Reichman Richman, New York, NY
- John Erik Sandstrom, Westfield, NJ
- James M. Schnell and Harriet H. Schnell, Richmond, VA
- Dr. Stephen B. Seans, Siler City, NC
- Martha Castlebury Shaw*, Raleigh, NC
- Dr. and Mrs. Gary R. Smiley, Spartanburg, SC
- Alexander Randell Smith, Nashville, TN
- Randell Smith and Carolyn Smith, Nashville, TN
- Peter F. and Linda Spies, Moomouth Beach, NJ
- Ms. Christina Elizabeth Story, Park City, UT
- Colonel L. Phillip Stroud, Jr. and Lisa Matthews Stroud, Cary, NC
- Mr. James Edward Stuchell, Jr. and Mrs. Marie Stuchell, Williamsport, PA
- Qi Paul Su, Hong Kong, Hong Kong
- Jimmy and Elynn Tanne, Rutherfordton, NC
- J. M. Bryan Taylor and Carolyn Clark Taylor, Charlotte, NC
- Estate of Ann Homann Thibault, Chapel Hill, NC
- Justin Allen Thornton and Debra Wholes Rosen Thornton, McLean, VA
- Mark Valence and Susan Valence, Lyme, NH
- J. Stephen Vanderwoude and Denise Vanderwoude, Chapel Hill, NC
- Mr. and Mrs. David L. Ward, Jr., New Bern, NC
- George W. and Helen Wood Weaver, Plantation, FL
- Elijah White Jr, Houston, TX
- Charles Leigh Wickham III, London, UK
- Mr. and Mrs. Robert Williamison, Jr., New York, NY
• Nikhil Mittal and Priitha Mittal, New York, NY
• Victor B. and Anne N. Moore, Durham, NC
• Mr. and Mrs. Kevin and Elizabeth Murphy, Charlotte, NC
• Cynthia Drum Parke, Seattle, WA
• Shannon Lawing Paylor and Thomas Clayton Paylor, The Woodlands, TX
• Laura Chadwick Pease, Atlanta, GA
• Nathan Daniel Perez, San Francisco, CA
• Samuel George Pulliam, Lewiscville, NC
• Thomas E. Reynolds, Atlanta, GA
• Deborah and Ed Roach, Chapel Hill, NC
• Dr. and Mrs. Stanley Robboy, Chapel Hill, NC
• Grayson Knox Rodgers, Birmingham, AL
• Nancy Marie Rodriguez, The Woodlands, TX
• Nicole Wilson Rubin, Portola Valley, CA
• Celci Collins Scanlan, San Antonio, TX
• Mr. and Mrs. Jay Schwartz, Atlanta, GA
• Cheryl A. Smith and Jerome D. Smith, Cary, NC
• Grace Elizabeth Smith, Chapel Hill, NC
• Ed and Carol Smithwick, Chapel Hill, NC
• Dr. and Mrs. Richard L. Sprott, Potomac, MD
• Kelly Driggers Stasko, Pittsboro, NC
• James W. Stewart III, Montgomery, DE
• Rebecca Walters Taylor and Robert Brown Taylor Jr., Greensboro, NC
• Phillip Z. Timmons and Patricia A. Kournegay-Timmons, Raleigh, NC
• Dr. Murray W. Turner, Charlotte, NC
• William Tyne, London, UK
• Mr. and Mrs. Malchius L. Watlington, Charleston, SC
• Dr. William J. and Margaret J. Weatherly, Greensboro, NC
• Mr. and Mrs. Samuel K. Welborn, Jr., Nashville, TN
• James Alphonse Wellington, Philadelphia, PA
• Ryan Scott Weslar, Charlotte, NC
• Estate of Bonnie Ann Wester, Washington, DC
• Thomas Mitchell Whitehurst, Fort Payne, AL
• Christina Nelson Williams and Bradford Alan Williams, Raleigh, NC
• James H. Winston, Jacksonville, FL
• Lor B. Wilttin, Arlington, VA

CORPORATIONS, FOUNDATIONS, AND TRUSTS

• A. M. Pappas & Associates LLC
• Academy of Motion Picture Arts and Sciences
• Alpha Natural Resources Services
• AMD
• Anadarko Petroleum Corporation
• Anthem Foundation for Objectivist Scholarship
• Anschutz Foundation of Canada
• Archaeological Institute of America
• Asher Foundation
• Astronomical Research Institute, Inc.
• AT&T Foundation
• Bank of America Charitable Gift Fund
• BB&T
• Bowman & Gordon Gray Trust
• Brady Foundation, Inc.
• Brentwood Family Foundation, Inc.
• Brigham Young University
• Bryson Foundation
• Buckalew Family Foundation
• Capital One Associates Political Fund
• Cardinal Track Club
• Carolina Meadows
• Center for Documentary Studies
• Central Carolina Community Foundation
• Chapel Hill Durham Korean School
• Chapman Family Charitable Trust
• Charles G. Koch Charitable Foundation
• Charles H. Revis Foundation
• Charlesmead Foundation
• Class of 1962
• Coccia Foundation
• College Board
• Combined Jewish Philanthropies of Greater Boston
• Community Foundation for Greater Atlanta
• Community Foundation for Greater Greensboro, Inc.
• Community Foundation for the National Capital Region
• Community Foundation of Gaston County
• Community Foundation of Greater Memphis
• Community Foundation of New Jersey
• Connie B. & William W. White Foundation
• Covington & Burling LLP
• Cowan Foundation
• Cumberland Community Foundation
• Curtis Foundation
• Daniel-Mickel Foundation of South Carolina
• Dental Foundation of North Carolina, Inc.
• Disney
• Donald & Marilyn Keough Foundation
• Doris C. Quinn Foundation
• Drusilla French Foundation for Mythical Studies
• Duke Energy Foundation
• E. C. Smith Jr. and C. B. Smith Foundation
• E.T. Rolls, Jr. and Frances P. Rolls Foundation
• Earl N. Phillips Family Foundation
• Eason Foundation
• Elizabeth T. Williams Charitable Annual Lead Trust
• Ellison Family Foundation
• Elon University
• Ennovia Foundation
• Ettinger Foundation
• Felix Harvey Foundation
• Fidelity Charitable Gift Fund
• Formanek Charitable Trust
• Fred and Charlotte Hubbard Foundation
• Frey Foundation
• Georges Lucuy Charitable and Educational Trust
• Giving Assets, Inc.
• GlazoeSmithKline
• Greater Greensboro Community Foundation
• Gulf Coast Community Foundation of Venice
• Harris-Teeter
• Harvey McNairy Foundation
• Herman Goldman Foundation
• High Five Foundation
• Highland Vineyard Foundation
• Hobbs Foundation
• Howard Levine Foundation Fund
• Hutchins Family Foundation
• Hyde Family Foundations
• IBM Corporation
• Intel Corporation
• Interstate Transportation Equipment, Inc.
• JS
• Janney Montgomery Scott LLC
• Jewish Foundation of Greensboro
• Joe Pechesky Volkswagen, Inc.
• John W. and Harriette J. Gusenhoven Foundation
• John William Pope Foundation
• Justgiv
• Kaplan Funds
• Kelly-Webb Trust
• Kenan Family Foundation
• Kemsington Square Foundation
• Knott Family Foundation
• KPB Corporation
• Kölnyech Family Foundation II
• Kyzer Foundation
• Levine-Sklar Family Foundation
• Lookout Foundation, Inc.
• Mackenzie Family Foundation
• Mantissa Corporation
• Mealy Family Foundation
• Merck & Company
• Moore Family Foundation
• Morgan Stanley and Company
• Network Appliances, Inc.
• New York Community Trust
• North Oak LLC
• Olivia R. Gardner Foundation
• Owlesley Brown Charitable Foundation, NC
• PerrySchnell Ventures
• Peter B. and Adeline W. Ruffin Foundation
• Peter J. Frenkel Foundation
• Peter T. and Laura M. Grauer Foundation
• Prentice Foundation, Inc.
• Realan Foundation
• Renaissance Charitable Foundation
• ReSh Realty Corporation
• Richard & Karen Razook Family Foundation, Inc.
• Robert & Tracy Winston Foundation, Inc.
• Robertson Foundation
• Robin March Fanes Irrevocable Charitable Lead
  Untrust
• Roy A. Hunt Foundation
• Ryna & Melvin Cohen Family Foundation
• Schwab Fund for Charitable Giving
• Silicon Valley Community Foundation
• Silver Family Foundation
• Simon & Schuster
• Steamboat Foundation
• Sun Trust Banks, Inc.
• Taylor Charitable Trust
• TechWorx LLC
• The American Philosophical Association
• The Arizona Sports Foundation
• The B.W. & Barbara Miller Foundation
• The Dallas Foundation
• The Dickson Foundation
• The Eddie and Jo Allison Smith Family Foundation
• The Educational Foundation
• The Educational Foundation of America
• The Frank Borden Hanes Charitable Lead Trust
• The Mara and Ricky Sandler Foundation
• The Robertson Scholars Program
• The Selaw Foundation
• The Shubert Foundation
• The Square Family Foundation
• The Stuart S. and Birdie Gould Foundation
• The Teagle Foundation
• The Ted Hendricks Foundation
• Thomas S. Kenan Foundation
• Triangle Community Foundation
• Trinity University
• TSC Foundation
• TSWII Management Company
• Turkish Women's Cultural Association
• Umm Al Qura University
• United Way of Miami-Dade
• University of Hong Kong
• University of Oklahoma Foundation, Inc.
• University of Toronto
• Vanguard Charitable Endowment Program
• Craig E. Wall, Sr. Foundation
• William R. Kenan, Jr. Charitable Trust
• Willow Garage
• Winston-Salem Foundation
• Xerox Corporation

36 • COLLEGE.UNC.EDU • FALL 2012 • CAROLINA ARTS & SCIENCES
The thing about the Old Well is, it wasn’t always old: For years after it was built people referred to it as the New Well, because there wasn’t a newer well within 50 miles. A typical conversation would go something like:

— I’ll meet you over by the New Well.
— The New Well? I have no idea where that is.
— And why would you? It’s new. I’ll draw you a map.

Finally people figured out where the New Well was, but by then it was old, and it’s been old ever since.

★★★★

There used to be a lot of water in the Old Well. For a long time there was nowhere else on campus you could get water — nowhere. Of course, Sutton’s had lemonade, hot dogs and fries but, curiously, no water. True story. You had to go to the Old Well to get it.

The nineteenth century didn’t make much sense.

★★★★

The original well looked like this (first image, top), just a pleasant little wooden structure appropriate for wells.

But in 1897 all that changed. The neoclassical rotunda we now know was modeled after the Temple of Love in the Garden of Versailles. Campus tradition dictates that a drink from the Old Well on the first day of classes will bring a student straight A’s, but since when does drinking from the Temple of Love improve studying habits?

This is a tradition that demands further examination. They also say that if you leave a five dollar bill beside one of the columns someone will eventually come along and pick it up.

★★★★

The image of the Old Well can be seen everywhere these days. It’s the official stamp for Carolina apparel, for all of our publications, and more. It’s a law: The Old Well has to be visible on everything. Plans to tattoo incoming freshmen with the Old Well were scrapped due to the budget crunch, but the proposal is still out there if the economy ever turns around. Pray for sluggish growth.

★★★★

From a hole in the ground to a Temple of Love, the Old Well has come a long way. And if you’re wondering just how old the Old Well is now? It’s so old that it’s not even a well anymore: It’s a water fountain. That’s what wells become when they grow up.

Daniel Wallace is J. Ross McDonald Distinguished Professor of English and director of the Creative Writing Program at Carolina. His fifth novel, The Kings and Queens of Roam, will be released in May 2013.

Watch a time-lapse video of students stopping by the Old Well on the first day of fall classes at http://college.unc.edu/extras.
Stay connected to the College via web and social media

http://college.unc.edu/