Dealing with drought
Pinpointing mental illness
Clemson in Antarctica
Students vs. alcohol
**Features**

**Prime-time Clemson**
8
Clemson shines in the national spotlight during the S.C. presidential primary.

**Mapping the mind**
12
Discover a nationally renowned geneticist with a groundbreaking theory on mental illness.

**Our future written in water**
14
See what Clemson is doing to combat the pressing problems of drought and other water issues.

**EXtreme biology**
16
A biological sciences professor transports her research all the way from Antarctica to the Clemson classroom.

**Facing down alcohol abuse**
20
Students have begun fueling a culture change from the inside out.

**Alumni in action**
22
Meet five alumni improving the world through their expertise, boundless energy and sense of service.

**“Ol’ Sweets”**
25
This remarkable alumnus embraced Clemson, as he did his family, straight from the heart.

---

**Departments**

- President’s View
  - page 2
- World View
  - page 4
- Faces of Philanthropy
  - page 11
- Lifelong Connections
  - page 26
- Alumni National Council
  - page 28
- Student Life
  - page 30
- Classmates
  - page 32
- Commitment
  - page 46
- Taps
  - page 48

---

Cover photo by Patrick Wright

This page: Cadet Life Garden in the S.C. Botanical Garden
The Architect as University President

By James F. Barker

As an architect, I’m a rarity among university presidents, and I’ve often wondered why. Architecture is the ideal background for my job for reasons that are both philosophical and practical—very practical.

That’s because architecture offers one of the last Renaissance educations available. At its best, it strikes just the right balance between art and science, the creative and the pragmatic. I often tell people I learned everything from plumbing to poetry in architecture school, and I use every bit of that knowledge as president of Clemson University.

To begin with the most obvious advantage: A big part of my responsibility is to help plan, financially support, build, and maintain campus facilities, as well as to develop campus master plans. As a land-grant institution, Clemson has more than 30,000 acres of campus and research lands statewide, 200 buildings, and at least 6 million square feet of built space. Those buildings range from cow barns to one of the nation’s top academic electron-microscope facilities. It clearly helps that I understand planning and design, speak the language of architects, and have the technical ability to read a set of architectural drawings. (I may be the most challenging higher-education client an architect must face!)

We have made a commitment to sustainable design and building in all new campus construction, and the first of five “technology neighborhoods” is almost complete on a new 250-acre automotive-research campus, with its own master plan, that is nearby. I can’t imagine presiding over a building program of that magnitude without having a background in architecture and urban planning. While many of my colleagues who are chemists, physicists, and historians do a fine job, I would not want to attempt it.

On a much deeper level, however, I believe architectural education offers a model of how we can meet some of the clearest challenges facing universities today. How do we teach creativity? Where do ideas come from? How do we educate fact-based critical thinkers and individualists? How do we then teach those students to communicate, to understand one another and other cultures, and to work well together as part of a larger team? Those are the demands and expectations of higher education in the 21st century. It is a matter of national concern in a world where prosperity aligns so clearly with innovation and a creative, knowledge-based economy, and we must not fail.

In my view, the architecture design studio is the best learning experience ever invented to produce the kind of deep, engaged learning and creative graduates that are so needed today. Small groups of students work with a master teacher on a semester-long or yearlong team project to design solutions to a specific problem or to meet a particular need. Some projects are purposely fanciful, purely imaginative. Others, often the best projects, tackle real problems for actual clients.

For example, our students in planning and design have helped communities throughout our state preserve historic buildings, revitalize dying town centers, and plan new parks, bikeways, and green space. For every project, they interview the key people involved; gather
statistics on demographics and traffic patterns; collect previous plans, deeds and plats; photograph the site from every conceivable angle; and put all of those data on a computer.

Eventually, they brainstorm ideas, discuss them, refine them and present them to their teachers and clients in a process that we, in architecture, call a “design charrette.” Then, and only then, are the best ideas sifted through the filter of what is possible and affordable. As the great Charles Eames once said, “Design depends largely on constraints.” It’s important for students to learn that, too, if they ever want to see their plans on paper leave the file cabinet to live in the real world of bricks and mortar. In the process of doing such public-service projects, our students learn about research, communication, interpersonal relationships, culture, politics, municipal government, creativity (its power and its limits), and teamwork.

The longing to once again be a part of that creative ferment sparked my personal journey back to education from architectural practice. And the desire to bring the power of that educational model to the larger world led me into administration and, ultimately, university leadership.

In the mid-1990s, when a radical reorganization reduced Clemson’s nine colleges to four (now five), I realized that it, too, was an opportunity and a challenge for me as the college’s dean of architecture. (It was also a constraint.) The designer in me took over. Could architecture—an applied, professional discipline—collaborate with the basic arts and humanities in a new college? Could we adapt the “design studio” as a pedagogical model for engaged learning across the curriculum? Could we design a university community with bridges, instead of barriers, to teamwork?

We could, and we have. Project-based learning has increased significantly across our campus. Service learning has increased. More than 75 percent of our seniors last year reported working on a research project with a faculty member to the National Survey of Student Engagement. Thousands are involved in “Creative Inquiry” projects in each of our five colleges. Some students studied Boccaccio and staged an original play, The Decameron Project, at the Fringe Edinburgh Festival. Another team of industrial-engineering students studied hospital emergency-evacuation planning in order to design improvements.

It seems, at times, as though our entire campus is one big studio. My goal is to have every undergraduate participate in such a research or creative-inquiry experience before he or she graduates.

In Building Community, a 1996 report published by the Carnegie Foundation for the Advancement of Teaching, Ernest L. Boyer and Lee D. Mitgang challenged architectural educators to integrate the design curriculum more fully within and outside the architecture discipline, and to prepare architects for lives of civic engagement. That notion has been a subject of intense debate for years among architecture deans, but I have always been firmly in Boyer and Mitgang’s camp. If architects want to be influential, we need to get out of our ateliers and connect with the curriculum, engage the culture, and serve our larger communities. That is why we require our architecture students to have four years of languages, to declare a minor, and to work on projects that contribute to society not only in this country but abroad.

As the president of a university, I interact on a close and daily basis with leaders in the world of business and politics. I’m amazed every day at the subtle ways in which my architectural education and background prepared me for this responsibility. It taught me to think visually as well as verbally, to listen intently to the needs of clients and colleagues, to seek feedback and test my ideas, to dream big dreams but make concrete, “buildable” plans.

And, as the American Institute of Architects says on the Web site of its Communities by Design initiative: “There’s a reason you became an architect. It wasn’t just about buildings. It was about people, it was about making communities more livable.”

University presidents spend a great deal of time thinking about the future and sketching out what that future might look like for the people and the communities we care about. It requires creativity, vision, and the right balance between intuitive and rational thinking. Fortunately, those are the architect’s strengths, the gift of a somewhat unconventional education for a university president.
New CU-ICAR partner, INTEC

INTEC U.S. INC., a German software company headquartered in Munich, has selected the Clemson University International Center for Automotive Research (CU-ICAR) campus as headquarters for its first U.S. presence. A technology leader in software for the automotive industry, INTEC will provide multi-body and real-time simulation software to CU-ICAR graduate students and professors.

INTEC’s SIMPACK software will support the development of mechanical or mechatronic devices. It can be used for such simple mechanisms as door latches or complex full-vehicle models that include cars, airplanes, wind turbines, trains and engines. It’s currently used by such companies as BMW, Daimler, Bombardier and Bosch.

The S.C. Department of Commerce and the state of South Carolina have partnered with Clemson to recruit investment and build CU-ICAR to be an economic development agent utilizing Clemson’s strengths in automotive engineering to grow the state’s automotive industry and related fields.

NSF award for cell printing research

LASER-ASSISTED LIVING-cell printing research at Clemson has gotten a boost with a $400,000 National Science Foundation (NSF) CAREER Award to mechanical engineering professor Yong Huang, director of the Clemson Advanced Manufacturing and System Integration Laboratory.

The safe and efficient implementation of cell printing from this study may enable its wide application in both organ printing and rapid prototyping of cell-based products, which may someday assist in production of on-demand human organ manufacturing for organ transplant patients.

The Faculty Early Career Development (CAREER) Program offers the NSF’s most prestigious awards in support of the early career-development activities of teacher-scholars who most effectively integrate research and education within the context of the mission of their organizations.

National Ethics Bowl Champs

CLEMSON’S INTERCOLLEGiate ETHICS BOWL TEAM recently returned from San Antonio, Texas, with the top prize. Pictured from left are Philippa Lieber, Dani Scoggins, Matt McAlister, Rahul Loungani and Alyssa Mander.

Clemson, now the national champion, is the only university in the nation with teams that have reached the quarterfinal rounds at each national competition in the past five years.

The team is sponsored by Clemson’s Robert J. Rutland Institute for Ethics and philosophy and religion department. It’s coached by philosophy professor and Rutland Fellow Charles Starkey, who’s assisted by Rutland Institute director Dan Wueste and Fellows Steve Satris and Kelly Smith.

The Rutland Institute provides a forum for discussion and exploration of ethical issues on- and off campus. Its programs include leadership and training in Clemson’s Ethics Across the Curriculum program. For more on the Rutland Institute, go to www.clemson.edu/ethics.
Boost for biotech and restoration

POLITICAL SCIENCE AND city and regional planning graduate Karl Kelly ’78, M ’81 has returned to Clemson to develop public-private partnerships for biotechnology and the Restoration Institute. He’s the former CEO of SC BIO, the state’s biotechnology incubation program.

In his new role, he’ll continue to promote biotechnology development, particularly human genetics-nutrition research at the Greenwood Genetic Center and biofuels and transgenic plant research at the Pee Dee Research and Education Center in Florence. He’ll also encourage rural economic development through the Clemson Institute for Economic and Community Development in Columbia.

Kelly will develop partnerships that advance Restoration Institute programs in advanced materials, community revitalization, historic preservation, renewable energy and restoration ecology (www.clemson.edu/restoration).

A first in health care genetics

CLEMSON WILL OFFER THE COUNTRY’S FIRST INTERDISCIPLINARY PH.D. program in health care genetics. Graduates will find careers in a broad range of professions from genetic epidemiology to industry research. The program also will prepare professors in nursing and other disciplines.

“The impact of genetics on health care has the potential to be greater than any earlier scientific advancement,” says Rosanne Pruitt, director of the School of Nursing. “For all of that promise to meet its full potential, health care providers and scientists must work together in developing new skills and practices.”

The program — housed in the School of Nursing (www.hehd.clemson.edu/nursing) — will tap into other areas of the University and off-campus partners including the Greenwood Genetic Center and Bon Secours St. Francis Health System. On-campus partners include the Genomics Institute and academic units across campus.

“A surge of new information and research in genetics has outpaced policies and practices,” says Julie Eggert, doctoral program coordinator. “We will work to develop practices that incorporate the expanding knowledge of genetics.”

Pictured from left are Pruitt, Eggert, student Holisa Wharton, Larry Allen (dean of the College of Health, Education and Human Development), student Mary Beth Steck and Provost Doris Helms.

AT&T invests in CU-ICAR

CLEMSON RECENTLY ANNOUNCED A multiyear collaboration with AT&T at the Clemson University International Center for Automotive Research (CU-ICAR). The partnership represents an investment by AT&T Inc. of more than $2.4 million in the unique research campus since its inception in 2003.

AT&T’s support includes financial contributions from AT&T Inc. and the AT&T Foundation, the company’s corporate philanthropy organization, as well as infrastructure support.

The auditorium in the Carroll A. Campbell Jr. Graduate Engineering Center will be named the AT&T Auditorium. The Campbell Center is home to master’s and doctoral degree programs in automotive engineering. It’s the anchor of CU-ICAR Technology Neighborhood One, the first area of the 250-acre campus to be developed.
Clemson federal judges

THE UNIVERSITY’S WILLIAM T. HOWELL PRELAW Society gave Clemson undergraduates a chance to meet four federal judges, all alumni — from left, Joseph F. Anderson Jr., Robert Conrad Jr., R. Bryan Harwell and Henry Herlong Jr.


Now in its fifth year, the Howell Prelaw Society serves the needs and interests of Clemson students who wish to pursue the study of law upon graduation. It’s open to students from any major. For more information, go to people.clemson.edu/~prelaw or email Andrew Price, society president, at anprice@clemson.edu.

Did you know?

HEALTHCARE DESIGN named David Allison one of “Twenty Who Are Making a Difference” in the health care design field. He’s director of Clemson’s architecture and health graduate program and director of the project to establish the Center of Economic Excellence in Health Facilities Design and Testing.

Clemson’s applied economics Ph.D. program was ranked ninth nationally in the 2007 Top Research Universities Faculty Scholarly Productivity Index by the Chronicle of Higher Education.

Kiplinger’s financial magazine ranks Clemson No. 33 among the top 100 “Best Values in Public Colleges” for 2008.

BusinessWeek ranks Clemson’s undergraduate business program as 22nd among public schools (2008 ranking of “The Best Undergraduate Business Schools”).

The Corporation for National and Community Service has named Clemson to the President’s Higher Education Community Service Honor Roll With Distinction for exemplary service efforts and service to disadvantaged youth.

Lamont Flowers, Distinguished Professor of Educational Leadership and executive director of the Houston Center, is the 2008 recipient of the Scholars of Color Early Career Contribution Award by the American Educational Research Association.

The National Academy of Sciences invited President Jim Barker to address its 2008 international symposium in Washington, D.C., on collaboration and the CU-ICAR story.

Clemson Video Productions’ “Expeditions with Patrick McMillan” (aired on ETV) won the International Academy of Visual Arts Gold Davey Award and the Diamond Statues of Distinction Media Achievement Award.

Bookhart Student Services Center

THE STUDENT SERVICES CENTER for the College of Agriculture, Forestry and Life Sciences (CAFLS) has a new name, thanks to SCANA Corp. and the late William Bookhart ’64.

The William B. Bookhart Jr. Student Services Center, located on the first floor of the Poole Agricultural Center, supports the academic and career development of CAFLS students and alumni.

Bookhart, a farmer, community leader and public servant, was a member of SCANA’s board of directors. Through its Directors Endowment Fund, SCANA has donated $500,000 to Clemson in Bookhart’s memory. Bookhart had designated that gifts through the fund be made to agricultural programs at the University. His family decided a donation to the student services center would be a fitting way to honor his memory.
Olympic Tigers

WHEN THE U.S. UNDER-23 Men’s Soccer National Team travels to Beijing, China, to compete in the 2008 Olympic Games, two former Clemson athletes will be among the team members.

Nathan Sturgis, an All-American and ACC’s Defensive Player of the Year, played at Clemson in 2004 and 2005. Stuart Holden played at Clemson in 2003 and 2004 and was named second-team All-ACC.


Follow the TIGERS!

For 2008 Clemson football away games, be sure to plan your trips with the Alumni Association’s new Clemson Sports Travel Program. Call (864) 656-2345 for the latest information on away-game headquarters and pregame tailgate gatherings or visit the Web at www.clemson.edu/alumni/programs/alumni-travel.html.

Littlejohn goes LEGO

EIGHTY LEGO LEAGUE teams faced off in February for the chance to move on to the national level. The coliseum was also home to the regional competition in January.

“LEGO League embodies our mission to be a multipurpose facility for the University and the Clemson community,” says Holly Hardin Hutchenson, associate director of major events at Littlejohn. “It’s an academic endeavor in a sports environment, essentially sports for the mind.”
From Barack Obama to Ron Paul, from CNN to FOXNews, from L.A. Times to Washington Post — Clemson was the place to be during the 2008 South Carolina presidential primaries. Faculty, staff and students prepared the stage well in advance for a one-of-a-kind learning experience.

**Behind the scenes**

Educational opportunities began with the fall 2007 Provost Seminar in Public Policy and Public Affairs. (The seminar is an annual series that has examined 9/11, the politics of radical religion, spreading democracy to other countries and related issues).

The fall 2007 seminar focused on the presidential campaign from start to finish.

Political science department chairman Joseph Stewart Jr. and Strom Thurmond Professor of Political Science J. David Woodard designed the course to bring candidates, pollsters, workers and national experts to campus to examine the presidential election of 2008.

Classes included an introduction to the S.C. primary, how candidates decide to run, campaign finance and candidate image.

“This was a unique opportunity for Clemson students and community members to learn what goes on behind the scenes of the campaigns, to see in person some of the people who are there, and for Clemson students to come to understand

Prime-time Clemson

Clemson’s political science experts, engaged students and beautiful campus sparkled in the national spotlight during the S.C. presidential primary.

by Teresa Hopkins

Photography by Craig Mahaffey
Patrick Wright
that by persistence and hard work, they could make a difference and promote the cause of their chosen candidates,” says Stewart.

Speakers included Joe Erwin, Clemson graduate and former chair of the S.C. Democratic Party; Michael Dobson, a recent Clemson graduate who works for a firm assuring compliance with FEC regulations; Whit Ayres, a Republican pollster; John Geer, Vanderbilt professor and expert on negative campaigning; Anton Gunn, Obama’s S.C. state director; Daron Shaw, University of Texas professor who devised President Bush’s electoral college strategy; Byron York, a national columnist; and Paul Abenante, former CEO of the American Bakers’ Association.

‘Primary stars’ appear

Presidential candidate visits were in part made possible by the collaborative work of the Strom Thurmond Institute of Government and Public Affairs, the advance division, the political science department and volunteer faculty, staff and students.

Interest in the candidates grew with each visit to Clemson. John McCain fielded questions from 275 attendees in November. Ron Paul’s visit, also in November, drew a crowd of around 600.

In January, when political advertisements, phone calls and activity increased in South Carolina ahead of the primaries, more than 1,000 people attended an outdoor rally at the Military Heritage Plaza for John Edwards. Jervey Auditorium hosted Mike Huckabee along with wrestler Rick Flair and actor Chuck Norris. A two-hour snow and ice delay for the University didn’t stop 2,500 people from participating in the afternoon rally.

On the Friday before the S.C. Democratic primary, Barack Obama, under Secret Service protection, energized a crowd of nearly 5,000 at the Outdoor Theater on campus.

“By visiting the University, presidential aspirants brought the excitement of their campaigns to campus, enabling Clemson’s students and those in the surrounding communities to become participants in high profile national campaign events,” says political scientist and professor Bruce Ransom.

“The candidate events attracted national and international members of the traveling press corps, introducing citizens across the United States, persons in the international community, political pundits, among others, to Clemson University.”

Inside the voter’s mind

As national attention to the S.C. primaries increased, so did interest in the voting intentions of residents. The Clemson University Palmetto Poll served as a vital “snapshot in time” of what voters were thinking and which candidates they supported.

“What we saw over time was a real shift in allegiance. Early in our polling, Rudy Giuliani was doing well and John McCain was not, but as the date neared we saw a real surge by McCain,” says Woodard.

“On the Democratic side, Hillary Clinton and Barack Obama were dividing the African American vote evenly, but in the last few days about 70 percent of this vote went to Obama, and that was the difference.”

Four editions of the Palmetto Poll were released — September 2007, November 2007 and two in January 2008. The polls surveyed 450 likely voters each wave, asking them how closely they had been following the race and how their opinions had changed about the candidates and issues over time.

‘Intense’ media interest

National television crews and reporters from outlets including CNN, NBC, FOXNews, PBS and Associated Press visited campus and called on Clemson political science professors for insight into South Carolina’s political history. International operations such as the BBC in London, Agence France-Presse and the Canadian Broadcasting Corp. also showed interest.

“At times I felt like I was having the same interview over and over,” says Woodard, who would hang up from a call with a reporter just in time to welcome a television crew into his office — a common occurrence through January in the political science department.

Various newscasts and news reports of Clemson experts and candidates often featured Clemson orange or a Tiger Paw or the clock tower of Tillman Hall.

Clemson students were intensely interested, too. In fact, as Stewart says, “if some of the campaigns had been as organized and as energetic as their Clemson student supporters, the outcomes might have been different.”

To learn more about Clemson’s “Election 2008” activities and political science experts, go to www.clemson.edu/election2008.
Heritage Place is designed to create comfort and convenience for your lifestyle, making it an elegant and charming place to be.

Located in historic Pendleton, SC

- Two and three bedroom townhomes with rear entry garage
- Neo-Traditional style designed to promote maintenance-free living
- Neighborhoods include walking trails, leafy parks, courtyards, ponds and flowing streams
- Welcoming front porches and traditional southeastern architecture
- Just a half mile from Historic Pendleton’s quaint village square

Pricing starts from $134,900

Developed by Southern Homes of the Upstate

For more information please call 864.654.2200 or visit www.tomwinkopp.com

CHOOSE YOUR TAILGATING SPOT BEFORE THE SEASON BEGINS!

When you own a Tailgating Spot at Valley Walk, you’ll have full access to all the amenities at Valley Walk which include:

- Park only a few hundred yards from Death Valley and Littlejohn Coliseum
- The use of the covered outdoor pavilion, fireplace, and TV
- Sport’s entertainment lounge with a wide screen TV and bar area
- Tailgate in the fenced and gated green space among 100 year old oak trees
- Pedestrian access to Highway 93
- Indoor & outdoor restrooms

Located Behind the World Famous ESSO Club!

www.tomwinkopp.com or call 864.654.2200

Prices starting at $24,900

Prices subject to change without notice
Five generations of Elizabeth “Libby” Monts Rauch’s family bloodline run orange. Now with her support and that of her late husband, Clyde McRay “Ray” Rauch, many students will be able to follow in the family’s footsteps. Libby has funded two endowments through a major gift in the form of real estate. The gift adds to a legacy that the couple began 17 years ago when their son, Clyde McRay “Chip” Rauch Jr., graduated from the University.

“We decided early in our marriage that if we ever had extra money, we wanted to give it in support of scholarships,” she says. “We wanted other children to have the opportunity for an education.”

As a math educator of 35 years with two master’s degrees, Libby knows the value of a college education, and she would have attended Clemson had the University had girls’ dorms at the time. Ray, who attended Clemson and received honorary alumnus status in 2005, retired as an engineer from BellSouth, a company that contributed matching funds for the Rauches’ gifts over the years. Those gifts include an endowed scholarship for undergraduate research in plant pathology and physiology in honor of professor N. Dwight Camper and numerous contributions to the Clemson area and Clemson University Emergency Services.

Libby established the recent endowments in honor of Ray and Chip, with Clemson memories in mind. Ray attended football games as a boy, and the couple continued this tradition with their children and their grandchildren. When son Chip joined Tiger Band, Ray and Libby traveled with him for four years. As she recalls, “He loved music and absolutely loved the band. I have very vivid memories of a game opening up with a camera focused on his head, because he was one of those students who would shave the Tiger paw into his hair and dye it orange. I also remember cooking — making cookies, cakes and pies for an army of Clemson students to tailgate with us.”

Chip’s other passion was research, which he continued to pursue during his doctorate studies in avian physiology at Mississippi State University, specifically researching the use of ozone to destroy salmonella in chicken embryos.

Even after his death, that inquisitive spirit continues to live on through the Rauches’ gifts to both of their alma maters. At Clemson, the family established the Clyde McRay “Ray” Rauch Sr. and Clyde McRay “Chip” Rauch Jr. Endowed Memorial Student Enrichment Fund, an award designated for Creative Inquiry and outside-the-classroom experiences in the College of Agriculture, Forestry and Life Sciences. They also endowed a memorial scholarship for grants-in-aid to members of the Tiger Band who play the saxophone.

“Research inspires so many innovative ideas, and I don’t believe you need to be a graduate student to be innovative,” Libby explains about the decision to focus on undergraduate initiatives. “We wanted undergraduates to gain research experience because the more students are involved, the more they are going to love Clemson. The research being performed at Clemson will not only help the University and South Carolina, but the world at large. The tentacles of research reach far and wide.”

Involvement at Clemson might as well be the family motto, extending back to Libby’s grandfather and epitomized by Ray. According to Libby, although Ray was already a college graduate, he was most proud of being named an honorary Clemson alumnus. “When he was awarded the honorary ranking, it was his greatest moment, besides marrying me and having his four children,” she says.

Two of the other Rauch children are also Clemson graduates: Christopher ’01, an agricultural economics major, and Elizabeth “Beth” Rauch Cutshall ’03, a political science major.

Though son Robert chose to study automotive mechanics at another school, his children may be influenced to go to Clemson by their grandmother. This spring, Libby took Robert Jr. to his first Clemson basketball game, and all of her grandchildren proudly wear orange. Robert and his wife, Pam, also have twins, C. McRay III and Taylor; Christopher and his wife, Kimberly, have two children, Blake and Tallie; and Beth and her husband, Matt Cutshall ’02, have one daughter, Lauren Elizabeth.

“I don’t think I want to let them go anywhere else,” Libby says. “They can go anywhere they want to go to college, but Ray and I always said we would only pay for Clemson.” Now that family philosophy is helping other students attend Clemson, too.

For more information on making a difference at Clemson University, call (864) 656-2121 or go online to www.clemson.edu/isupportcu.
Nationally renowned geneticist T. Conrad Gilliam ’73, M ’77 has a groundbreaking theory in a continuing quest to pinpoint the causes of mental illness.
Ask Conrad Gilliam to recall the “Eureka moment” when he first hit upon the startling idea that mental disorders such as autism and schizophrenia might be triggered by networks of linked genes — networks that somehow distort normal brain functioning. The Clemson biochemistry graduate will surprise you by laughing out loud.

“I’m not really sure I can take credit for that insight,” says Gilliam, chairman of the University of Chicago’s Department of Human Genetics.

His news-making theory explores how heritable mutations affect the function of interacting groups of genes, or gene networks, rather than treating single genes as the targets for mutations that predispose individuals to mental illness.

“Although I’d been thinking about how genes regulate brain development for some time, I had been focusing on the actions of single genes, and had not really considered that it might be the concerted action of groups of genes that is disrupted to cause mental disorders like Alzheimer’s.

“But then I had a sudden flash during a lecture I attended at Princeton eight years ago. The lecturer was physicist Albert-Laszlo Barabasi, who studies networks — everything from social and computer networks to biochemical networks you find in organic systems. Barabasi is a very gifted thinker, and by the time his lecture ended that night, I was so intrigued that I couldn’t get out of my chair.”

At the time, Gilliam was already recognized as a world-class scientist who’d led research teams that successfully mapped genes linked to cystic fibrosis (at the University of London in the early 1980s) and Huntington’s disease (at Harvard University a few years later).

“Like many geneticists during the 1990s,” he says, “I’d been assuming that most central nervous system disorders were caused by genes acting alone … and that the mapping of the entire human genome [completed in 2003] would allow us to begin pinpointing the exact locations of these flawed genes, so that we could design therapies aimed at neutralizing them.”

But, he points out, that’s not what happened.

Instead, after Barabasi’s powerful lecture, Gilliam was forced to begin rethinking all of his assumptions about the process in which inherited genes contribute to mental illness. The result was a new scientific model in which brain disorders are caused by genes that act in concert, rather than alone.

Gilliam’s new approach to brain genetics has begun to open up a whole new layer of investigation that could eventually lead to a paradigm shift in the way the medical profession understands — and then treats — the phenomenon of mental illness.

“During the last few years, we’ve entered a new, unexplored region of genetics,” says Gilliam, who leads a team of a dozen scientists in a continuing quest to uncover the genetic networks responsible for brain disorders. Armed with some of the most powerful computers in the nation (located at the Argonne National Laboratory, near Chicago), Gilliam and his staff of geneticists and “bio-informatics” computer whizzes are making new discoveries almost daily, as they close in on the staggeringly complex genetics behind mental illness.

Gilliam says, “I’ve always been interested in how things work and why they work that way. I like to dig deeper and deeper, and I like to forget about everything else while I push through one layer after another.

“One morning at Clemson,” he recalls, “when I was working on my master’s degree in biochemistry, I came into the lab and pulled my lab book out of a desk drawer. As always, I started my day by writing the date at the top of the page.

“I wrote it down — December 25th — and then I looked at it for a moment, and I said, ‘Oh yeah, it’s Christmas!’ I was so caught up in the lab work that I’d completely forgotten what day it was!”

Born and raised in Aiken, the son of a chemical engineer, Gilliam arrived on the Clemson campus in 1969. Intent on becoming a veterinarian, he soon discovered that he wanted to “study something more on the cutting-edge of science.” Eventually he found the challenge he wanted in molecular biology — along with an inspiring mentor, professor Gary Powell, who taught “intro to biochem.”

“Dr. Powell taught what many students regarded as the toughest course at Clemson,” recalls Gilliam. “His course was extremely rigorous, very tough … but I liked that. I really enjoyed the challenge of working in the lab night after night, trying to understand these very complex processes that were going on at the molecular level.”

After earning Clemson bachelor’s and master’s degrees in biochemistry, Gilliam headed off to work on his Ph.D. at the University of Missouri. With his doctorate in hand, he spent several years working on gene-mapping projects related to cystic fibrosis and Huntington’s disease as a “post-doc” at London University and then Harvard. He signed on as a genetics professor at Columbia University in New York City in 1987. Seventeen years later, having become a national leader in his field, he was tapped to take over the human genetics program at the University of Chicago.

Gilliam has published more than 100 peer-reviewed articles in his field, while also racking up half a dozen different teaching and research awards. News of his research has been covered in New York Times, Nature, Science and a variety of professional and general interest media.

“For a geneticist who’s interested in mental disorders, this is a very exciting time,” he says. “The technology keeps getting better every day, and we’re now able to manage an astonishing amount of complexity.

“And for a scientist who enjoys digging through layer after layer of data, it just doesn’t get any better than that!”

Spring 2008 © 13
Our future — written in water

Clemson experts are working on solid solutions for the fluid problems from drought, development and increased demand for hydroelectric power.

by Debbie Dalhouse

Photography by Patrick Wright
A one-two punch of booming development and historically low rainfall is threatening to alter both the landscape and the way of life in the Southeast. Previously, an abundance of cheap water and land fueled rapid development and population growth. But the record-breaking drought that we’re in now is drying up lakes and rivers, shriveling lawns and pastures, and generating legal battles over water rights among the states.

More folks, less water

Population growth, development and water use in the Southeast are all outpacing the national average. Business Week (Oct. 18, 2007) noted that water consumption in the Southeast grew 15 percent from 1990 to 2000, compared with just 2 percent nationwide. The population rose by 20 percent vs. 13 percent for the nation, with the region adding 4.4 million people since 2000 and more moving in each year.

“The drought is a serious short-term issue, but it has opened our eyes to the water problems we have and to the fact they won’t be going away,” says Jeff Allen, director of the S.C. Water Resources Center at Clemson. A study he completed in January showed that land development in the I-85 corridor of Upstate South Carolina outpaced population growth by a ratio of 5-to-1 from 1990 to 2000. A study conducted for coastal counties found a similar relationship between the development and population growth. “This rate of development will continue unabated unless regional development policies change,” says Allen.

Gene Eidson, director of the S.C. Center for Watershed Excellence, says, “Water may become the next determinant for economic development. Without it, hydropower plants cannot generate electricity, industries cannot function, and municipalities cannot support new commercial and residential developments.”

The center is part of Clemson’s Restoration Institute. Designated by the U.S. Environmental Protection Agency, the Center for Watershed Excellence is charged with supporting research and education programs that foster development and implementation of cost-effective watershed management throughout the state.

To address these and other issues, the S.C. Water Resources Conference will be held in North Charleston in October 2008. The conference will provide a forum to discuss current water policies, research projects and water management throughout the state. It will complement a similar conference held in Georgia on alternate years, encouraging collaboration rather than conflict between the states.

Participants will come from universities, regulatory personnel from the local to federal levels, industry, environmental managers, environmental consultants and engineers, nonprofit watershed groups, environmental attorneys, public policy decision makers, municipal and regional water authorities, economic development organizations, land managers and interested public stakeholders.

Eidson also leads an annual forum, called Savannah River at Risk, which focuses on issues in the Savannah River basin. It brings together scientists, environmental regulatory agencies and economic developers from Georgia and South Carolina to discuss issues such as sharing water supplies and waste load allocations, as well as managing dissolved oxygen rates and chemical contaminants that can threaten the river’s viability for commercial and recreational usage.

Meanwhile, back on the farm

Water issues affect rural areas as well as urban. Clemson scientists and Extension agents have held regional drought management meetings for more than 300 livestock producers. They’ve shared forage management strategies, herd-culling priorities, byproducts feeding strategies, and equine body condition scoring and nutrition guidelines.

Animal scientist John Irwin recommends feeding baled corn stalks and soybean straw when hay is scarce. Forage specialist John Andrae recommends planting rye, ryegrass and oats to extend the grazing season and minimize hay needs during the drought. The online Home and Garden Information Center provides fact sheets on plant selection, mulching and watering (hgic.clemson.edu).

Water quality is as important as quantity. Oconee County Extension agent Morris Warner works with farms to reduce pollution caused by faulty septic tanks and by cattle entering rural streams. Scientists at the Baruch Institute of Coastal Ecology and Forest Science in Georgetown are using remote data sensors and transmitters to provide real-time data on water quality before, during and after development of property in the Bannockburn Plantation. A plan is in development to extend the remote data collection system to all watersheds in South Carolina through an interdisciplinary team that includes Gene Eidson, Steve Klaine, Chris Post and other scientists.

Sustaining the environment

Baruch stormwater engineer Anand Jayakaran is studying ways to mitigate stormwater runoff caused by urban development, which prevents rainwater from being absorbed by the land. Hydrologist William Conner is measuring the effects of global climate change on freshwater tidal forest wetlands as sea levels rise and push salt water into coastal rivers and marshes. Biosystems engineer Dan Hitchcock is evaluating sustainable solutions to environmental impacts caused by converting forests to urban areas, which can increase runoff and pollutants in rivers, lakes and marshes.

A statewide team of Extension agents led by Cal Sawyer is working with local officials, engineers, contractors and private citizens to reduce pollution caused by stormwater runoff and erosion. Regional consortia have been created for the S.C. coast and Midlands, with more in development. Public education programs inform citizens how they can minimize their impact on water quality. And lakes and streams are protected from sediment at construction sites across the state through the Certified Erosion Prevention and Sediment Control Inspector program.

Additional information can be found at the Baruch Institute (www.clemson.edu/baruch), the Restoration Institute (www.clemson.edu/restoration/ecology) and the S.C. Water Resources Center (www.strom.clemson.edu/teams/water_resources).
EXTREME biology

A Clemson scientist takes her research to Antarctica to discover the power of nature and the impact of man.

by Liz Newall

Clemson professor and researcher Amy Moran

NBC's Ann Curry and Clemson graduate student Chris Shields

Clemson professor and researcher Amy Moran

extreme - biology

a clemson scientist takes her research to antarctica to discover the power of nature and the impact of man.

by liz newall

Clemson professor and researcher Amy Moran

NBC's Ann Curry and Clemson graduate student Chris Shields

Clemson professor and researcher Amy Moran

Clemson World  www.clemson.edu/clemsonworld
A poster of strangely beautiful sea life covers the door to the Moran Lab in Clemson’s Jordan Hall. Fitting for a research laboratory focused on marine organisms.

But, inside, hangs a huge satellite image of Antarctica, icy white on a still blue sea. A small table nearby holds a copy of Sir Ernest Shackleton’s *South*, the record of his last expedition to the South Pole. Snapshots of smiling people — in thick, layered gear with snowy backgrounds — appear around the lab.

You start to realize that the marine life favored by biological sciences professor Amy Moran isn’t going to be in warm water. Not even cool water.

In fact, the frigid waters of Antarctica provide the “perfect conditions” for research into what Moran calls some “basic biological questions”:

- What evolutionary and ecological forces created so great a diversity in such extreme conditions?
- How have human activities and environmental degradation impacted these marine organisms?

Her trek from Clemson to Antarctica has involved Clemson students, colleagues from across the country, National Science Foundation funding, appearance on NBC’s “Today Show,” cold-weather survival training and a whole lot of work.

Moran spent two two-month sessions (2006 and 2007) at McMurdo Station, the U.S. science and research center on the southern tip of Ross Island. She worked with a team of researchers, dived in the frigid waters and studied marine life in juvenile stages of development.

More specifically, her team concentrated on how the extreme cold temperature and high oxygen availability affect the metabolism and evolution of certain Antarctic marine animals.

“The more we know about the development of the marine life, the better we’ll be able to predict how the effects of human-mitigated changes in the environment will affect them.”
Moran shrugs off the question of the physical challenge but says that leaving her family — husband and fellow biological sciences professor, Peter Marko, and their young son, William, was very difficult.

As a professional, however, she says the sacrifice was “definitely worth it.” Moran finds as much joy in teaching as she does in research. She says, ”When you can make discoveries and then share the experience firsthand with students, you bring research full circle. The University setting is the perfect place for the combination.”

To learn more about the Moran Lab and McMurdo Station expeditions, go to www.clemson.edu/biosci/faculty/moran/lab/index.html.

Clemson’s Department of Biological Sciences faculty have a rich variety of ongoing research on aspects of marine life and environmental impact — projects that are adding to the body of knowledge while engaging Clemson students in hands-on discoveries.

For more information on some of these projects, go to www.clemson.edu/biosci/research/marinebio.htm.

Contributing photographs for this feature include Jack Baldelli, Bruce Miller, Amy Moran, Lindy Mullin, Rob Robbins, Erika Schreiber, Jon Spraque and Art Woods.
“All were great men, and we’ll never let them down.”

Roy Pearce, The Tiger, April 7, 1944

To honor those Clemson alumni who made the ultimate sacrifice, the Clemson Corps is coordinating an effort to erect a Scroll of Honor Memorial adjacent to the East Gate of Clemson Memorial Stadium. It will be both a fitting tribute and a stirring reminder of the values we Americans hold dear. (To see artist renderings, go to www.clemson.edu/alumni/clemsoncorps/scroll_art.html.)

Please take this opportunity to help establish a permanent monument to honor and remember Clemson’s heroes. Use the envelope in this magazine, or make a secure online contribution at www.clemson.edu/isupportcu. Specify that your gift is for the Clemson Scroll of Honor.

www.clemson.edu/alumni/clemsoncorps

Hosting the Clemson Experience

The next time you visit Clemson, enjoy luxurious accommodations, meeting space overlooking Lake Hartwell and an 18-hole championship golf course. Comfort meets business meets recreation all in one place.
Clemson students are driving EMpower Clemson — a movement to combat alcohol abuse.

by Carrie DuPre
Photography by Craig Mahaffey

Alcohol and college campuses are culturally linked — this isn’t a new phenomenon, and Clemson certainly isn’t unique in facing this challenge.

Where Clemson is unique, however, is in the strong collaboration between administrators and students in the fight against the dangers of student drinking.

An ‘everybody’ resource

Biochemistry major Lindsey McKinney had an idea for a campaign to promote healthy decision-making in regard to alcohol. She took that idea to administrators in the fall of 2005.

Her theme of empowering Clemson became a student government initiative the very next semester. By fall 2007, the initiative earned its own official office in the student affairs division,
where it serves as a resource and clearinghouse for alcohol safety issues. It’s also home base for the Clemson Community Coalition.

Under the direction of prevention specialist for alcohol safety Kathy Cauthen, the office operates with two student workers, one graduate assistant, a student advisory board and McKinney.

“We're a small group, but we're mighty,” says Cauthen.

Charged with facilitating alcohol-safety initiatives on campus, in coordination with other campus entities like Redfern Health Center, ClemsonLiVE and First Year Experience, EMpower Clemson is an “everybody” resource.

McKinney says, “EMpower Clemson is a way for our students, community, staff and faculty to really be able to empower one another to make smart decisions. It’s a way for us to be One Clemson when it comes to addressing alcohol responsibility.”

You come to college to get an education, but you also come to grow up. This is part of the bigger picture of becoming responsible.

— Lindsey McKinney

Providing choices

Part of the success of the initiative so far has been that people know it’s student-led.

“It's not about eliminating alcohol on campus because that isn't realistic,” says Allison Toney, a graduate assistant in counselor education. “It’s about making the right choices.”

During its first year, EMpower Clemson has facilitated many conversations across campus and beyond, generating a lot of buzz about personal responsibility.

The group partnered with the city of Clemson to promote safe, healthy behavior, with Mayor Larry Abernathy’s proclaiming November 9 as “EMpower Day.”

The same weekend, EMpower Clemson hosted an alcohol-free tailgate party before the Wake Forest football game, complete with free food, music, giveaways, games and photos at Littlejohn Coliseum. More than 1,100 people attended.

Challenging the Clemson community

President Jim Barker is a strong supporter of the cause and has added his voice to the conversation. Prompted by the alcohol-related death of an 18-year-old freshman late in the fall semester, Barker challenged faculty and staff to continue working together to find an answer.

“What is needed is a culture change, and that is the most difficult thing to effect from the outside,” says Barker. “We have the attention of the students, and many are stepping forward to take ownership of the problem and to find solutions.”

Part of finding solutions is analyzing how alcohol affects the Clemson community. Public health sciences professor Hugh Spitzer is wrapping up a three-year study supported by the National Institute on Alcohol Abuse and Alcoholism (NIAAA) to do just that.

It has also sought to educate freshmen through an alcohol skills training program while collecting data about their alcohol habits. As with the overall EMpower initiative, a main part of the success of this freshman program is student involvement, with about 18 undergraduate peer health educators conducting the training.

“If I do it, I’m just another grumpy, middle-aged guy like their dad lecturing to them,” says Spitzer. “But when the students conduct the sessions, it’s more compelling, and the freshmen are less likely to tune out.”

As one of only 15 universities supported by this NIAAA grant, Clemson again finds itself in a position to be a leader in innovative approaches to addressing student issues. One area in which we already stand out among our peers is our administrative support of the initiative.

Expanding options

EMpower Clemson is increasing alternative programming this year to give students additional options for healthy and safe events. Plans include repeating successful events from last semester like stress-relieving opportunities before finals and a football tailgate. It will also support existing programming including ClemsonLiVE's First Friday events, which use donations from the Parents Fund to offer free entertainment once a month.

Promotion and outreach will also be high priorities in the coming year. Student Emmett Dalton will work on increasing communication efforts and building online promotion, and student La'Donte Harris (former Tiger wide receiver) will focus on spreading the message of personal responsibility to local youth.

I get out and reach younger people. By being here, I can help influence them to do good things.

— La'Donte Harris

“I get out and reach younger people,” says Harris. “By being here, I can help influence them to do good things.”

EMpower Clemson will continue to grow in alcohol safety resources and support that will arm members of the Clemson family with the tools they need to make responsible choices.

For more information, go to www.clemson.edu/empower or call (864) 656-0470. ®
Alumni in Action

Meet Clemson Alumni Association’s 2008 Distinguished Service Award recipients.

The impact of the University can be judged by the positive actions of its alumni —

Clemson people who take their education and transform the life they’re given. Here are five of our most active.

by Dot Yandle
Photography by Patrick Wright

R. Glenn Hilliard ’65

Glenn Hilliard has kept Clemson on his crowded agenda over the 43 years since he received his degree in English — a major he’s glad to have had in the top level business world he has traveled.

After leaving Clemson, he earned a law degree at George Washington University and worked for a time in Washington, D.C., for the late S.C. Congressman William Jennings Bryan Dorn.

Since then, Hilliard has led, as CEO or chairman, Liberty Life Insurance Co., ING Americas and Conseco Inc. and is a respected leader in a dozen arts, environmental and educational organizations throughout the country. Recently retired as Conseco chairman, he has reduced his schedule to “only five days a week” in his Hilliard Group LLC offices in Atlanta. That, he says, gives him more time for family, travel, outdoor recreation and the environment, all lifelong passions.

As member and chairman (2004-2006) of the Clemson University Foundation board of directors, he’s credited in part for its rise into the top 25 percent of all university endowments in investment performance. A major giver to the Clemson Fund and IPTAY, he was the inaugural donor to Clemson’s Palmetto Challenge in support of research and education initiatives that advance the economy.

Hilliard has generously repaid his alma mater for reintroducing him to Heather, his wife of 42 years, during his senior year. She was the first girl he ever kissed — “on the cheek”— when he was 12 years old. They have three daughters: Kathryn Stuart, Nancy Joyce and Glenn Shaw.

To learn more about nominating outstanding Clemson alumni for next year’s award, go to www.clemson.edu/alumni/news/dsa.html or call (864) 656-2345.
Kathy Hayes Hunter ’80, ’83

When Kathy Hunter came to Clemson at 17, she began a 30-year love affair with the school. And Clemson has loved her back.

She has been Clemson Alumni Association president, a member of the Alumni National Council, and board member and chair of the Women’s Alumni Council.

Roy B. Jeffcoat ’55

If a man could be arrested for committing random acts of kindness, Roy Jeffcoat would be behind bars. And his wife, Yvonne, a willing accomplice, would be there with him.

Swansea natives, the Jeffcoats are known throughout the Anderson area and beyond for helping people in need, especially the young. Roy, an architectural engineering graduate, deplores the state’s alarming high school dropout rate and focuses on ways to give children, ages 3 to 4, an early boost that will lead to success in school.

His face is familiar in children’s cancer wards and on field trips with sick kids — meeting the Clemson Tiger and rubbing Howard’s Rock or taking a ride in his plane — when they need cheering up. And that’s just part of the story.

Jeffcoat is an active member or chairman of 15 local and state boards that reflect his broad interests. He recently founded a new group of church-based community clubs for preschool youngsters who need that extra push toward success.

The Jeffcoats’ generosity to Clemson includes significant family contributions to the libraries, IPTAY grants-in-aid, military projects and numerous other causes. Roy has shared his own life successes, as CEO of Energy Conversion Corp. and as a real estate and construction entrepreneur, with the University since his graduation.

The Jeffcoat children are Sharon, Phylis, Kenny ’79 and Rosalind ’87. And there are 10 grandchildren ahead!
Danny L. Rhodes ’68

Ask Danny Rhodes, associate dean of Anderson University’s business college, his favorite part of a multifaceted life, and he answers: “Whatever I’m doing today!”

That might include teaching a class or working on the new MBA program, organizing a wild-game banquet for Utica Baptist Church near his Oconee County home, or, more likely than not, performing one of a multitude of volunteer jobs for Clemson.

Rhodes grew up with identical twin, Lanny, and five other siblings in Gastonia, N.C., and Rock Hill. A liberal arts major at Clemson, he had great love and respect for the school’s “band of brothers” in the student cadet corps. That bond remains strong today.

Following graduation, he began a 26-year career in the U.S. Army, retiring as a colonel. He and wife, Rosemary, traveled the world on assignments — his included Vietnam — and parented two future Clemson alumni, Kelly Rhodes Cushman ’96 and Kevin ’00.

After a stint with industry, the Rhodes family settled in the nearby Seneca area. Danny’s stellar work at Anderson University quickly won him accolades, and his constant support of Clemson — through the Clemson Fund and IPTAY and as past chair of the alumni-affiliated Clemson Corps — earns him even more.

His regard for those 470 Clemson students and alumni who died while serving their country led him to win approval and support for a Scroll of Honor as a tribute to them. When permanent, it will be erected next to the East Gate of Memorial Stadium, helping to keep Clemson’s proud military tradition alive.

Randy R. Smith ’66, HD ’97

The month Randy Smith earned his pre-med degree from Clemson, he took his “life savings” and set out for Europe and for places unknown. Before returning home, he found a way to go behind the Iron Curtain and visit the Soviet Union.

That adventuresome spirit has taken him to many other places since he received his medical degree from the Medical College of Georgia. On 25 separate trips, he has used his skills as a teacher and plastic surgeon to provide up-to-date information to other doctors and badly needed help to patients in less-developed countries in Asia, Europe, Africa and Central and South America. He has been honored by those countries, his peers and Clemson for his work as a goodwill ambassador.

For 30 years, Smith has been associated with University Hospital in his hometown of Augusta, Ga. He was president of the medical staff and currently chairs the board of trustees. He helped plan and implement a $93 million expansion of the system, including a $50 million cardiac center.

A skilled athlete and football letterman, as well as a gifted student while at Clemson, he established the Randolph Smith Endowment for Excellence, contributes to IPTAY and the Palmetto Challenge, and is a member of the Benjamin Ryan Tillman Society.

He’s married to Becky Jo and has four children: Katherine, Randolph, Rebecca ‘07 and Michael (Clemson student).
I am Wack. I am married to Little One.

We lovingly refer to our kin as Tiger, Sweet Stuff, Shan-Tan, Hoss, Princess, Young ’Un, Ba, KK, Bloss, Lil’ Tiger and New Tiger just like my grandfather W. Cecil Godley did. Then of course, there is Bride, his beloved Alice.

G-Dad, or Ol’ Sweets, as we so affectionately knew him, was the patriarch of our tightly knit clan. Therefore he had naming rights, a job he approached like he did all others — with joy, enthusiasm, dignity and selflessness. Sometimes I think he felt like Adam, naming all the creatures and finding joy in that responsibility.

I suppose we are not unlike many families who have a representative buried in the sacred grounds of Cemetery Hill. We each grew to love Clemson because he first loved Clemson. Clemson is special, home to us largely because each time we visited, we spent time with G-Dad learning to give and serve as able, only to receive so much more. I smile each time I approach the Woodland Cemetery because I consider the many others whose lives, like mine, were significantly impacted by someone resting peacefully near G-Dad.

Although most called him Cecil or Dr. Godley, his full name was Willie Cecil Godley. Born in Miley to Peter Charles and Eugenia Barnes Godley, Cecil grew up in an era when Model-T Fords traveled sandy roads, a mill laborer’s wage was 75 cents per day, and doctors made house calls.

In seventh grade, Cecil met a young lady named Alice from neighboring Brunson whom he described as “easily the prettiest girl in the class.” Several years later, before he left for combat in Europe, he married his middle-school sweetheart and spent the remainder of his life by her side. When Cecil passed away in the fall of 2007, they had spent 63 years together. He would say it was his crowning achievement.

Of course, he had many other achievements of which he could boast, but never would, so I will. Amongst the most notable were three daughters and their husbands, seven grandchildren and 10 great-grandchildren.

Others he considered important were a B.S. in animal husbandry as a member of the Clemson Class of 1943; a Purple Heart awarded for service to his country in World War II; a Ph.D. from N.C. State College; 33 years of devoted service to Clemson University and the people of South Carolina, retiring as associate dean of the College of Agricultural Sciences and director of the S.C. Agricultural Experiment Station in 1986; the Godley-Snell research facility and the annual Godley-Snell Award for outstanding agricultural research; the Clemson Alumni Distinguished Service Award and Volunteer of the Year.

While G-Dad would not boast of his accolades, he would want me to tell you about Pete-Pete Jr., another grandson, whom we lost just months before we lost my grandfather. Pete-Pete Jr., known to others as Christopher Daniel Dunmyer, was a graduate of Clemson (2002) and the MUSC College of Pharmacy. Bright, handsome, articulate, warm and passionate, he was a newlywed in the process of building a new family and career when his life was cut short by an automobile accident.

As Cecil did with each member of his lineage, he shared a special bond with Pete-Pete Jr., forged over the years in many ways, not the least of which was a shared passion for Clemson athletics. It seems appropriate, then, that they are both resting together on Cemetery Hill — two more gifted and passionate members of the Clemson family.

Zack Fulmer ’96, grandson of Cecil Godley and author of this chronicle, is married to the former Kimberly Clark ’97. They live in Orlando with their three “little Tigers” — Cecilia, Luke and Jacob. Zack was a member of SAC as a student and has served on the Alumni National Council.
Excellent teaching

English and humanities professor extraordinaire Alma Bennett is the 19th recipient of a classic Clemson honor. The Faculty Senate, colleagues and members of the Class of 39 recently paid tribute to her with the Class of 1939 Award for Excellence.

The award recognizes faculty for the highest achievement of service to the student body, the University and the community. The recipient also becomes an honorary member of the class.

Bennett, who directs the M.A. in English program, often teaches Clemson study-abroad courses. Her publications include two books on American novelist and essayist Mary Gordon and a wide range of essays and other works. She’s also the editor of Jerome Reel’s Women and Clemson and the editor of the forthcoming biography of Thomas Green Clemson.

Alpha Phi Alpha scholarship

As Clemson’s Pi Alpha chapter of Alpha Phi Alpha fraternity celebrated its 25th anniversary at Clemson, its alumni organization, Pi Alpha National Alumni Coalition (PANAC), endowed a scholarship benefiting Clemson students. The fund — now at $33,000 from gifts and pledges — will provide scholarships in memory of Clarence L.B. Addison M ’74, the chapter’s founding adviser and architecture professor emeritus.

Pictured from left are Ann Smith, director of annual giving; Ken Robinson ’84, PANAC convener; and the Addison family — Clarence’s wife, Rubielee, and daughters Kristye ’95, M ’00 and Maudré ’94, M ’96.

For more information, contact Jerry Middleton ’88, scholarship endowment co-chair, at jerrymid@alumni.clemson.edu or Ann Smith at annsmit@clemson.edu or (864) 656-5895. Contributions can be made to the Clemson Fund designated as “Alpha Phi Alpha Endowment.”

Clemson travelers

These alumni and friends visited Peru — Lima, Cuzco, Machu Picchu and other historical sites — during a PASSPORT Travel adventure earlier this year.

Front row from left, are Cathy Owen, Margaret Anderson and Dinky McMahan; back row, Jim Anderson, Dick McMahan, Betty McClellan, Nelson Weaver, Becky Allen and Jackie Reynolds. Margaret Weaver is behind the camera.

For upcoming PASSPORT Travel adventures, go to www.clemson.edu/alumni/programs/alumni-travel.html or call (864) 656-2345.
Hey, Orlando Tigers!

The Greater Orlando Clemson Club is exploding with energy and activities. Organizers are seeking all alumni in the central Florida community. Please contact orlandocutigers@yahoo.com or (407) 538-3222 or visit My CU Connections at www.clemson.edu/alumni, click on “Clubs & Societies” and select “FL, Orlando.”

Orange in San Diego

Clemson alumni and faculty at the 2007 Entomological Society of America annual meeting in San Diego take time to show their colors.

Jiving Jungaleers

When Clemson Jungaleers reunited earlier this year, they sat in with the CU Jazz Ensemble and rocked the house.

They are, front row from left, Jim Sams ’54, Henry Savage ’61, Bruce Evans ’61 and Mike Outen ’59; middle row, Ed Freeman ’49, Foster Boone ’53, Gene Moorhead ’61, Ted Gregory ’49 and Don Jenkins ’49; back row, Rudy Hawkins ’61, Jimmy Burns ’53, Jay Reynolds ’56 and Ed Britt ’61. Not pictured are Mike Cheatham ’80 and Alex MacCormack ’63.

CBAC ’08

Clemson University Black Alumni Council (CBAC) held their annual board meeting in March and attended the Clemson vs. Virginia Tech game. Pictured from left are Kellye Whitaker ’90; Diamond Palmer ’94, M ’01; Crystal Pressley ’01; Wanda Gaines; Neil Young ’95; Mark Palmer ’96, M ’01; Jessie Hood ’94; Joseph Hood ’97, and Dana Anderson, director of reunions and special events.

CBAC is an Alumni Association constituency group, primarily for the benefit of minority graduates and students. For more information, go to www.clemson.edu/alumni/clubs/cbac.html.

Clemson at Camden Yards

Carolyn ’00 and Eddie Cosentino make a new friend during the Baltimore/D.C. Clemson Club’s day at an Orioles vs. Chicago White Sox game.

Nashville Tigers

The Nashville Clemson Club organized the Inaugural ACC vs. SEC Alumni Golf Tournament to benefit Nashville Habitat for Humanity last fall. Held at the Hermitage Golf Club, the event raised more than $13,000.

Pictured from left are the Harris foursome — Clemson parent Randy Kroll, Zach Harris ’03, Lanier Shuler ’05 and Don Harris ’67.

Nashville Tigers, led by Evan Vutsinas ’79, are already working with other alumni groups on the next big ACC vs. SEC charity event for Oct. 13. For more information, contact him at EVTiger@comcast.net.
Hole-in-one gift

The Clemson Alumni Association donated $50,000 to the Clemson University Athletic Department in response to the ongoing efforts of the Tiger Golf Gathering Foundation to raise funds for a new practice facility for the Tiger Golf Program.

This gift will be used toward construction of a new clubhouse at the golf practice facility behind Clemson’s Indoor Track and Field Complex. The patio area outside the ground floor of the clubhouse will be named in honor of the Alumni Association.

“The Tiger Golf Gathering is an alumni-driven success story,” says Grant Burns, Alumni Association president. “We wanted to make a strong statement of gratitude to those responsible for its success by designating $50,000 of proceeds from affinity programs for the Tiger Golf Gathering Foundation capital campaign.”

The gift comes exclusively from marketing programs, not from Clemson Alumni Association donors.

“When alumni and friends use alumni services — such as the Clemson Bank of America credit card, insurance programs with Nationwide and American Insurance Administrators, and the new Clemson Sports Travel Program,” says Burns, “they generate funds for Alumni Association gifts such as this one.”

Great public service

Entomology professor and Extension specialist Jay W. Chapin Ph.D. ’78 has received the Alumni Distinguished Cooperative Extension Public Service Award for his outstanding service to S.C. small grain and peanut growers.

Chapin (pictured left with Wil Brasington, senior director of alumni relations) began his career at the Edisto Research and Education Center in Blackville.

He’s known for his world-class research, and his management programs have set the standard for Extension programs across the Southeast. The American Peanut Research and Extension Society recently awarded Chapin its highest award for research.

Come back!

Come back to campus for the 2008 Clemson Alumni Reunion, June 12-14. We’ll celebrate the golden anniversary of the Class of 1958 and other reunioning classes — most classes between 1938 and 1968. For details, call the Alumni Center at (864) 656-2345.

Clemson on Capitol Hill

The PAW says it all ...

- a strong sense of community
- a commitment to service
- a love of winning — in academics, in athletics and in life

We’re in the big league.
Because of your investment in Clemson, we’ve continued to make significant strides toward our goal of becoming a top-tier research university. We are now ranked:

- 27th among all national public universities according to U.S. News & World Report,
- 33rd among all universities (public and private) on Kiplinger’s list of best values in higher education and
- the No. 1 place to work in academia by readers of The Scientist magazine.

Remember — your gift increases our alumni participation rate and helps Clemson move to a higher level in national rankings. The better our ranking, the stronger your diploma!

Step up to the plate.
Make a gift to the Clemson Fund by June 30 to help us reach our goal of 28 percent alumni participation, and you can order one or more of these exclusive Clemson baseball caps. See the enclosed gift envelope for details. You may also call (864) 656-5896 or go online (www.clemson.edu/isupportcu).
**STUDENT LIFE**

**MLK 2008**
MLK travelers visited the Frederick Douglass National Historic Home, the Supreme Court, the National Holocaust Museum and the Smithsonian Museum of African Art. They were guests of honor at a luncheon sponsored by the Clemson Alumni Association, Baltimore/D.C. Clemson Club and Clemson Black Alumni Council.

**Clemson in Moscow**
Clemson students participated in a semester-long joint program with English-speaking Russian students as well as students from Penn State and Fort Hayes State University at Moscow State Agroengineering University. Clemson professors Dale Layfield (biological sciences) and Verne House (agricultural and applied economics emeritus) taught courses in the program.

Students at the home of Frederick Douglass in Washington, D.C., for the 2008 Martin Luther King Commemorative Trip as part of the University’s annual MLK Celebration.

**Students at the home of Frederick Douglass in Washington, D.C., for the 2008 Martin Luther King Commemorative Trip as part of the University’s annual MLK Celebration.**

**Clemson at Oxford**
Psychology major Kristen Purvis, Clemson’s 2007 Duckenfield Scholar, with Ken Addison of St. Peter’s College, Oxford University, where she studied last summer. The scholarship, in memory of longtime Clemson administrator Chris Duckenfield, supports an honors student’s summer study in England.

**Army Fightin’ Tigers**
Graduating senior Daniel Reed and postgraduate student Jason Dickinson of the Clemson Army ROTC at 13,500 feet above the campus with the 101st Airborne Parachute Team.
We know insects!
Clemson’s Entomology Society provided materials — insect lesson plans, activities and online resources — to the Eugene T. Moore School of Education’s Media Center to show future teachers how insect information can be easily incorporated into the classroom.

Entomology students and professors from left are Joe Culin (professor), Amanda Nelson, Brett Nolan, Brittany Russ, Dustin Swanson, Drew Tebeau, Bill Fisk (teacher education chair), Richard Reeves (professor), Stephanie Stocks (biological sciences lecturer instrumental in the outreach program), John Morse (professor) and Jonathan Cammack.

Wildlife winners
A Clemson wildlife habitat project has earned the Bootsie Manning Wildlife Habitat Conservation Award from the S.C. Wildlife Federation. Pictured from left are Olivia Pearman, Allison Cryns, Cassandra Smith, LaCrystal Foreman, Victoria Luke (with plaque), Sean McCashin and Carson Funchess.

The award recognizes the efforts of students in a Creative Inquiry course offered by the College of Agriculture, Forestry and Life Sciences and Clemson’s Emeritus College, which promotes continued involvement by the University’s retired faculty members.

Student Alumni leaders
Clemson’s Student Alumni Association (SAA) is an open-membership organization that creates student awareness of Clemson Alumni Association services and positively impacts the student experience. Student Alumni Council (SAC) is its governing body.

New SAC officers — Garrett Rowe, Frances Mann, Sallie McKenzie, Margaret Hearon, Katie Cheser and Tripp Shealy — are making plans for the Clemson Ring Ceremony, Senior Picnic, Welcome Back Festival 2008 and much more.

For more on SAA, visit the Web at www.clemson.edu/alumni/saa, email saa@clemson.edu or call (864) 656-2345.

Circle K
From left, Carrie Chiu, Debbie Rice ’07, Sabrina Lau ’07 and Kathryn Geiger — pictured at the Columbia River Gorge near Portland, Ore. — representing Clemson at the Circle K International Convention last fall. Circle K International, one of Clemson’s many service opportunities, is a worldwide student-led service organization. Their projects help children from the local community to foreign countries (people.clemson.edu/~circlek).

Snow Tigers
Students on the slopes at Steamboat Springs between semesters through the Clemson Outdoor Recreation and Education program (www.clemson.edu/campusrec).
1937
*Daniel C. Stanzione (*91 EE, *93 CPENG, PhD ’00) of Mesa, Ariz., has established a Clemson scholarship endowment in the loving memory of his grandfather Harold D. Lewis ’37.

1948
*James S. Rodgers (HORT) of Winston-Salem, N.C., was honored by his church, St. Paul’s Episcopal, with the 2007 Magnolia Award for his wise and faithful stewardship through service, education, leadership and philanthropy. Rodgers, retired from the landscape nursery business, spent many hours before and after retirement devoted to the upkeep and beautification of the church grounds.

1956
Do you remember your Clemson Junior-Senior dance in May 1955? *George U. Bennett (ARTSSC) does. As president of the Central Dance Association, he lined up Elliot Lawrence and his orchestra to provide the music. After playing at Clemson, Lawrence went on to be a part of the Kennedy Center Presents and musical director for the annual Tony Awards. Bennett recently caught up with Lawrence during a visit to New York City and got a “To the Clemson Tigers” autograph.

1961
*David R. Jeter (INE), now living in Garner, N.C., has retired as executive director of the Tennessee State Fair. He also served on the board of directors for the Tennessee Association of Fairs.

1968
*Paul G. Campbell Jr. (CHE) of Goose Creek was elected to the S.C. Senate to fill the seat left vacant by the passing of Bill Mescher. Campbell is retired as president of the Southeast region for Alcoa Primary Metals.

1969
Philip W. Fairey III (PREARCH, M ’75 CRP) of Merritt Island is deputy director at the Florida Solar Energy Center.

Warren T. Player (RPA) of Mount Pleasant is president of the S.C. Tourism and Land Council for 2008. He’s
Designing for justice
Stephen A. Carter ’65

Architect graduate Stephen Carter is founder, chairman and managing principal of Carter Goble Lee in Columbia. He’s also vice chairman of Ecover Inc. in Los Angeles and Belgium.

With more than 35 years of experience in the field of justice planning, he’s often engaged by governmental agencies to develop studies and build consensus for projects ranging from courthouses to correctional facilities to law enforcement installations. He has led consulting projects in more than 35 states and 300 counties.

After Clemson, Carter completed a master’s degree in urban design and planning at London’s Architectural Association and more postgraduate studies in economics at the London School of Economics and in transportation planning at Imperial College.

His firm recently established an endowed scholarship to assist Clemson students studying architecture, planning, or construction science and management with an interest in international consulting.

director of business development for Seamon, Whiteside & Associates.

1971
*Glenn S. Cannon (ECON) of Waverly, Iowa, retired from Waverly Light and Power as general manager after 17 years of service. Two wind turbines were named for him in honor of the significant and lasting contributions he made in local and national arenas of renewable energy and conservation.

1972
Curtis Michael Derrick (ARCH) of Alpharetta, Ga., has joined the architecture firm of Post, Buckley, Schuh & Jernigan in Orlando, Fla., as operations manager.

Gary S. Shorb (CE) of Memphis, Tenn., received the Meritorious Service Award from the Tennessee Hospital Association. He’s president and CEO of Methodist Le Bonheur Healthcare.

1973
*Dan L. Horton (ZOOL, M ’78 ENT) of Athens, Ga., a former Extension entomologist, was part of a team honored by Clemson for work to develop a sustainable, safe and profitable peach production system for the Southeast.

1974
*James P. (AGRON, M ’76 HORT) and *Phyllis Robinson (’84 TEXTT) Gilreath of Myakka City, Fla., were inducted into the Manatee County Hall of Fame for their individual career contributions to the agriculture industry.

Nobel Peace Prize
*Thomas O. Barnwell ’69, M ’71

When Al Gore received the latest Nobel Peace Prize, he shared it with the Intergovernmental Panel on Climate Change, which included some of the U.S. Environmental Protection Agency’s world-class experts including alumnus Thomas Barnwell of Rockville, Md.

Barnwell, who holds Clemson degrees in civil and environmental systems engineering, recently retired as a senior science adviser with the EPA’s National Center for Environmental Research. He received EPA’s Distinguished Career Award for his contributions to the U.S. Environmental Protection Agency.

For more than three decades, his responsibilities included development, modification and testing of simulation models of transport and fate of pollutants in the environment.

Active in the Global Change Research Program, his research interests have been biogenic emissions of radioactively important trace gases, coupling of terrestrial systems models with atmospheric models and soil organic matter dynamics.

1975
After 20 years in the U.S. Army, Peter A. Grant (FINMGT) of Huntsville, Ala., is an equine and abstract artist and the official artist for Road to the Horse competition. He’s the founder and president of the North Alabama Clemson Club and vice president of Huntsville Art League. See his work at www.PeterGrantfineart.com.

1978
Mark J. Charney (ENGL) of Clemson, theater director in the performing arts department, is national coordinator of the Critics Institute and Dramaturgy Initiative through the Kennedy Center American College Theatre Festival. His play — 37 Stones or the Man Who Was a Quarry — will open off Broadway in New York City in spring 2008.

*Jack A. Marchette (HORT) of Florence received the State Extension Advisory Award for his distinguished service on...
National rural educator
W. Patrick Earle '78, M '80

Agricultural education and animal science graduate Pat Earle, agricultural education instructor and FFA adviser at McBee High School, has been named a finalist in the National Rural Education Recognition Program.

He began his teaching career in 1980 as an agronomy instructor at the Florence-Darlington Technical College where he served as head of the department from 1983 to 1987.

Earle has been recognized as the Outstanding Agricultural Educator in South Carolina and in the Southern states. A recipient of the prestigious Honorary American FFA Degree, he has served as chairman of the SC FFA Association board of directors and president of the S.C. Agricultural Educators Association.

Wildlife advocate
Jeffrey D. Duncan '88

Political science graduate Jeff Duncan of Laurens recently received the S.C. Wildlife Federation Conservation Legislative Award for his leadership on environmental and conservation issues.

Duncan is a member of the S.C. House of Representatives where he’s represented Laurens and Newberry counties since 2003. He currently serves as second vice chairman of the Agriculture and Natural Resources Committee and as chairman of the Environmental Subcommittee.

He’s known for his care of the outdoors, hunting and fishing, and his interest in conservation of natural resources, especially for the citizens of South Carolina.

2007 Virginia C. Phillips Excellence in Public Health Practice — from the S.C. Department of Environmental Control. She has worked as a public health nurse for 25 years and is a nurse manager for public health, preparedness and epidemiology.

1980
*William P. Chaplin (AGMECH) of Neeses is section manager for the agricultural and dams permitting section of the SCDHEC, Bureau of Water.

George B. Ellenberg (SED, M '88 HIST) of Pensacola, Fla., was named American Council on Education Fellow. He’s associate dean of the College of Arts and Sciences at the University of West Florida. Georgia College & State University in Milledgeville will host his fellowship.

*Brad W. Reed (CHE) of Daniel Island and George C. Greene IV (’01 CHE) of Charleston attended grand openings of safe water systems in communities in Honduras. Reed is the president and CEO of Water Missions International, and Greene is the vice president of international development.

1984
Charles A. “Chuck” Perry Jr. (ADMMGT) of Seneca is president of David Sparks and Associates Marketing Research.

1985
Bobby H. Mozingo (INDMGT) of Mount Pleasant is a partner in the law firm of Parker Poe Adams and Bernstein LLP in Charleston.

*Stan J. Reeves Jr. (EE, M '86) of Auburn, Ala., is a professor in the electrical and computer engineering department at Auburn University. He was awarded a $340,000 project grant from the National Institutes of Health to develop a more rapid method to collect and assemble a special type of magnetic resonance imagery that maps specific chemical concentrations in the body.

1987
Emily Eitel Grace (ME) of Hoboken, N.J., is a publicist with her own firm, Professional Entertainment Strategies.

Kevin J. McKenna (BLDSC) of LaGrange, Ill., is an owner in Clayco Inc. He’s regional vice president, managing all
History and German graduate Russ Lentz (right) and history graduate Brian Barton are both in the same sponsored research services office at Florida State University. Together they help manage the $170 million-plus research dollars coming into the university each year.

Lentz is associate director of research, and Barton is assistant director. Each was hired independently and rose through the ranks to his current position.

After Clemson, Lentz earned an FSU law degree. Barton received an FSU master’s degree in international affairs.

operations for the Chicago office.

*David E. Webb (ENGL) of Bronx, N.Y., is executive secretary for development for the general board of global ministries of the United Methodist Church in New York City.

**1988**

*Kathryn Wakely Ryan (ACCT) of Duluth, Ga., was the Clemson World/Clemson Fund winner of four Clemson vs. FSU basketball tickets. (Thanks for donating to the Clemson Fund through a Clemson World envelope!)

**1989**

*Frances Smith Griggs (HIST) of Camden is general counsel for Howden Buffalo Inc.

**1991**

*Stephen Luke Anderson (CRE) of Atlanta, Ga., is a law partner with Duane Morris LLP.

*Kelly C. Eargle (POSC, ECON) of Arvada, Colo., received a master’s degree in management from Regis University. She's in management with the Credit Union of Colorado and president of the Colorado Clemson Club.

**1992**

*Ken M. Berry (CE) of Central and his company received the Pinnacle Award given by the S.C. Home Builders Association for homes constructed in 2007 valued from $1.5-$2 million.

*Keith R. (MKTG) and *Daphne Whitelaw (’93 SPECED) Brown are married and living in Raleigh, N.C. She's a legal and compliance specialist for Wake County Public School System.

**1993**

*Travis C. Tuten (ME) of Moore is manager of engineering mechanical services for the Rail Equipment Group, the David J. Joseph Co.

**1994**

*Jon M. Black (FINMGT) of Easley is CITY MULTI® area manager for Georgia, North Carolina and South Carolina with Mitsubishi Electric HVAC, Suwanee, Ga.

*Victor C. “Chip” McLeod III (FINMGT) of Camden is a financial adviser with Merrill Lynch in Columbia.
Jana C. Cary (L&IT) of Alexandria, Va., is senior vice president of business development and marketing with the Personal Care Products Council in Washington, D.C.

*Thomas Saunders Kidd (POSC, M ’96 HIST) of Woodway, Texas, published The Great Awakening: The Roots of Evangelical Christianity in Colonial America (Yale University Press, 2007). He’s an associate professor of history at Baylor University in Waco.

1995
Christel Edwards Foley (PRTM) of Franklin, Tenn., is business manager for Arrington Vineyards, a winery outside Nashville owned by Kix Brooks of Brooks & Dunn.

Lanneau Holten Jr. (ENGL) and Martha King (PRTM) Siegling are living in Fernandina Beach, Fla. He’s senior pastor of the First Presbyterian Church.

1996
*Vicki Willis Ford (CE, M ’97) of Bedford, Texas, is a principal in the engineering and consulting firm of Walter P. Moore in Houston.

*Natarsha L. Thompson (HLTHSC) of Douglasville, Ga., has started NLT Grant Writing Solutions LLC, a full-service grant writing company.

1997
Karen T. Godsey (DESIGN, M ’99 ARCH) of Chapin is an architect with the Boudreaux Group in Columbia.

A. Shane Massey (CHEM) of Aiken was elected to the S.C. Senate in a special election and is the youngest member currently serving. He represents Aiken, Edgefield, McCormick and Saluda counties.

George M. “Lee” Nickles III (INDE, M ’99) of Cullowhee, N.C., is featured in the January 2008 issue of Industrial Engineering.

Justin Y. Yoon (CE) of Richmond, Va., received his professional engineering license. He’s with Clark Nexsen architecture and engineering firm in Alexandria.

1998
Shanon Ashley Hays (HIST) is married and living in Athens, Ga. She's the program coordinator of the historic T.R.R. Cobb House.

1999
Rex R. Edmunds (AGE) of Lawrenceville, Ga., received an MBA degree from Northwestern University’s Kellogg School of Management executive MBA program. He’s a dealer development manager for John Deere.

*Erin M. Sine (SP&COMM) of Richmond, Va., is an attorney with McGuireWoods LLP.

2000
John G. Creech Jr. (MGT) of Goose Creek is a financial consultant for AXA Advisors LLC in Mount Pleasant.

2001
Latisha Jenkins Brown (POSC) of Anderson is a human resources generalist with the National Council for Engineering and Surveying.

Nicole J. Molinari (M CNLGUID) of Astoria, N.Y., was named as a personal trainer for Allure magazine’s “Total Body Makeover.” She and her client were featured in the March issue.

Jason R. Wilson (HLTHSC) of Easley is youth and associate pastor at New Image Outreach.

* The wedding planner
Margaret Daniels PhD ’02

When parks, recreation and tourism management graduate Maggie Daniels, a health, recreation and tourism professor at George Mason University in Virginia, set out to develop a course on wedding planning, she knew it was going to be a tough sell to the curriculum committee. But she never dreamed it would be such a popular elective and propel her into the spotlight.

When Daniels and her innovative course were featured in the Washington Post, newspapers across the country picked up the article, and radio and television appearances, including a segment on ABC News “Nightline,” were soon to follow.

In addition, she wrote the book on wedding planning — literally. Unable to find a textbook suited for her course, she, with wedding planner Carrie Loveless, created Wedding Planning and Management: Consultancy for Diverse Clients (Butterworth-Heinemann).

Daniels also partners with agencies in the D.C. area to assist with event and tourism implementation and evaluation.

The Clemson Family

Natural audience
Joshua ’02, Amy ’02 and Patrick ’07 Sweat

Married couple Joshua and Amy Costello Sweat along with Joshua’s brother Patrick — all graphic communications graduates — have carved out their own advertising niche in Annapolis, Md.

Their company, Idle Time Advertising, specializes in indoor advertising — restrooms in particular.

Restroom ads are commonplace in Charleston, hometown to the Sweat brothers. But when they moved to Annapolis, Amy’s hometown, they noticed blank restroom walls in restaurants and bars that many young professionals frequent.

Idle Time has taken advantage of the opportunity. The firm currently sells ad space in nine locations, mostly restaurants, with a target audience of 21- to 35-year-olds, but their range is quickly expanding. (www.idletimeadvertising.com)

When parks, recreation and tourism management graduate Maggie Daniels, a health, recreation and tourism professor at George Mason University in Virginia, set out to develop a course on wedding planning, she knew it was going to be a tough sell to the curriculum committee. But she never dreamed it would be such a popular elective and propel her into the spotlight.

When Daniels and her innovative course were featured in the Washington Post, newspapers across the country picked up the article, and radio and television appearances, including a segment on ABC News “Nightline,” were soon to follow.

In addition, she wrote the book on wedding planning — literally. Unable to find a textbook suited for her course, she, with wedding planner Carrie Loveless, created Wedding Planning and Management: Consultancy for Diverse Clients (Butterworth-Heinemann).

Daniels also partners with agencies in the D.C. area to assist with event and tourism implementation and evaluation.
The Clemson Family

2002
*Stephanie F. Millar (DESIGN) of Wayne, N.J., received a master of fine arts degree from Northwestern University. She’s touring the South Pacific for a year before she embarks on a career in architectural lighting.

*Cynthia Ottinger Lang (M BUSADM) of Spartanburg, vice president and CEO of Tindall Corp., was inducted into the East Tennessee State University Hall of Fame for the College of Business and Technology.

Drew A. Price (PSYCH) of Greenville is a human resources coordinator for Erwin-Penland.

Jeff B. Scott (SED-MA) of Seneca is a graduate assistant coach for the Clemson football team and is working with the defensive players.

2003

Annette Kirton Vaughan (AGSC) is married and living in Latta.

Sara E. Ventura (SOC) of Williamsburg, Va., received her juris doctor degree from the College of William and Mary School of Law and is an associate with Parker Poe Adams & Bernstein LLP in their Charlotte, N.C., office.

2004

Hayley Kern (PSYCH) of Austin, Texas, received a master’s degree in educational measurement from the University of Georgia and is a statistical analyst with Pearson Educational Measurement.

*Rob B. Sine (FINMGT) of New York, N.Y., is an equities trader at the Wall Street firm Rodman and Renshaw Capital Group.

Clemson at MUSC

These Clemson alumni took part in the White Coat Ceremony at the Medical University of South Carolina, marking the beginning of their clinical rotations in their master of science in physician assistant studies.

Their Clemson degrees include health science, biological sciences, preprofessional health studies and biochemistry.

They are, front row from left, Lea Lanni Buck ’06, Karen McAlhany Drawdy ’98, Jordon Brees ’05, Jason H. Looper ’07 and Lindsey Hall ’06. Back row from left, Claire Allen ’02, Sloane Gidding Upchurch ’06, Brittaine Hinkson ’05 and Lauren Powell ’06.

2005

Tyler J. Freiheit (SP&COMM) of Herndon, Va., has started HomeZill, an online real estate business run by a team of RE/MAX agents.

Fla., is an assistant professor in photovoltaics research in the solar energy division at the Florida Solar Energy Center.

2006

Mary Katherine Dillard (SP&COMM) of Greenville is a junior account executive on the Verizon account at Erwin-Penland.

Lauren F. Huckaby (PRTM) of Mount Pleasant is office manager and marketing assistant at Jarrard, Nowell & Russell LLC, an accounting firm in Charleston.

*David J. Mitchell (MKTG, M ’07) of Simpsonville is a junior account executive on the Verizon account at Erwin-Penland in Greenville.

Cory A. Terry (M MIDED) of Greenville was selected as a WYFF Channel 4 Golden Apple Award Winner. He’s a second-year teacher at Tanglewood Middle School.

2007

Evan P. Beier (LSAH) of Rochester, N.Y., learned shortly after graduation that he’d won the Wayne Grace Memorial Student Design Competition sponsored by the Council of Landscape Architectural Registration Board.

*Caroline G. Redmond (FINMGT) of Harrison, Va., is an educational leadership consultant for Kappa Alpha Theta Fraternity.

Future Raptor pilot
Daniel S. Dickinson ’05

Financial management graduate and former Air Force ROTC Flyin’ Tiger Dan Dickinson is one of only four men to be selected for the first class for F-22 training out of undergraduate pilot training.

He entered the 63rd Fighter Squadron for the Raptor Lead-in course at Luke Air Force Base, Ariz., earlier this year.

After completing the course, the pilots will go on to the 43rd Fighter Squadron at Tyndall AFB, Fla., where after two more years of training, they’ll take on the F-22.

*Active Clemson Fund donor for 2008 Fiscal Year (July 1, 2007 - June 30, 2008) through February 25. For more information, call Annual Giving at (864) 656-5896.
Sky-high
USAF Lt. Seth “Hemi” Taylor ’04 over the South China Sea while refueling his F-16 Viper from a KC-10 Tanker at an altitude of 25,000 feet.

Good Fellow
Ronn Stewart M ’08

New real estate development graduate Ronn Stewart has scored a first for Clemson. He’s one of eight recipients of the Kenneth Good Fellowship from the Urban Land Institute. He joins an elite group from such other institutions as the University of California-Berkeley, Harvard and Cornell.

Stewart has more than 20 years’ experience in mechanical engineering, architecture and commercial lending. Most recently, he served as the interim CFO and consultant for a nonprofit organization where he helped write the proposal and negotiated $11.2 million in bond financing for the construction of a multipurpose facility.

For more on Clemson’s real estate development program, go to www.clemson.edu/caah/pla/mred.

Summer Science, Engineering and Architecture Enrichment Program at Clemson

Encourage your budding architect, scientist or engineer with a fun-filled learning experience at Clemson University. Academically talented middle and high school students can live on campus while they experience exciting NEW classes taught by Clemson faculty.

Your student can
• Analyze recombinant DNA
• Make biodiesel fuel
• Hunt for geocaches
• Perform a bypass on a cow’s heart
• Use GPS to plan and take a trip
• Design and program robots
• Program computers in Visual Basic and Java and produce special effects
• Create wireless sensor networks
• Think critically, write coherently and speak effectively

Information and Registration:
www.clemson.edu/summerscience
Telephone: (864) 656-5849
Email: cnell@clemson.edu or summerscience@clemson.edu

Today’s Youth, Tomorrow’s Researchers
Oscar goes to …
Rachel Drews M ’06

Rhythm & Hues visual effects supervisor Bill Westenhofer received a 2008 Academy Award for Achievement in Visual Effects for The Golden Compass. Pictured with him is Clemson digital production arts (DPA) graduate Rachel Drews.

She and other Clemson digital artists worked on the movie with him — including Mikki Rose; Marc Bryant ’99, M ’03; Wil Whaley ’99, M ’02; Josh Tomlinson M ’02 and Yasin Esmail ’99. Other Clemson alumni at Rhythm & Hues in Los Angeles, Calif., are Timothy Steele; Kent Chan ’04, M ’07; Adam Blank; Nathan Cournia PhD ’05; Tyler Cayce ’03 and Patty Frazier ’92.

Drews is currently working on The Mummy: Tomb of the Dragon Emperor, otherwise known as The Mummy 3.

DPA graduates are finding their way onto the silver screen thanks to Clemson’s excellent program and McAdams Hall facility. With its $3 million in computer equipment and infrastructure, it’s on a par with Hollywood facilities (www.fx.clemson.edu).

Cool threads

Marketing graduate Tyler Ulmer ’07 (left) is vice president of the entrepreneurial clothing company Southern Tide, based in Greenville, where a number of Clemson students have worked and interned including marketing student T.J. DelDuca.
Little Tigers

Joe D. Funderburk Jr. '81, a daughter, Hannah Faith, June 24, 2007.
Scott M. '85 and Bobbie Herron '88 Hesketh, a son, Adam Harrison, Jan. 6, 2007.
Stan J. '85, M.'86 and Debbie Edwards '86 Reeves, a son, Barrett Campbell, Aug. 25, 2007.
Katherine Wolla Carhart '91, a daughter, Ava Caroline, July 7, 2007.
Nicole Fichter Nyberg '91, a daughter, Elizabeth Nicole, Nov. 16, 2007.
Chris A. '92 and Rebecca Sargent '96 Hill, a daughter, Amelia Allison, Jan. 25, 2007.
Jonathan D. Kuba '92, a daughter, Katherine Caldwell, March 18, 2007.
Lisa Chapman Taggart '92, a daughter, Delaney Martin, March 1, 2007.

Scott J. '96, M.'03 and Tanya Kitchens '96 Meade, a son, Nathan Scott, May 12, 2007.
Derek M. and Lisa Davis O'Bradovich '96, twins, Blake and Hope, May 1, 2007.
Amanda Farish and Glen Walton George '97, adopted a son, Guy Perry, born Oct. 26, 2006, grandson of Kenneth W. '66 and Martha Murphy '73 George, great-grandson of Julian L. Murphy '40 and great-great-grandson of the late Marvin L. Murphy 1905.
Jack M. Daniels '98, a daughter, Emily Jane, July 25, 2007.
Amy VandenEynden Finn '98, a daughter, Alice Elizabeth, Feb. 5, 2007.
Michael C. '98 and Taylor Zeck '00 Rider, a daughter, Meredith Connolly, Dec. 12, 2007.
Ashley Blackmon and D. Matthew Wells '98, a daughter, Macy Jane, April 2, 2007.
Erin Deanhardt Raffield '00, a son, Ayden Christopher, April 10, 2007.
Jennifer Geter '00, M.'07 and Travis B. '01, M.'07 Rice, twin daughters, Logan Claire and Lauren Tyler, Oct. 22, 2007.
Ian D. '00 and Carrie Tiger '01 Robinson, a son, Ethan Tiger, Nov. 6, 2007.
Matt B. '00 and Monica Schott '01 Schrader, a daughter, Payton Olivia, May 22, 2007.
Alyson Burdette Sword '01, a daughter, Eleanor Jane, Sept. 19, 2007.
Allison Yoder and Brian D. Vittur '01, a daughter, Anna Margaret, Oct. 20, 2007.
Jonah J. '02 and Emma Decor '03 Mikutowicz, a son, Jacob John, Dec. 19, 2006.
Andrew J. Ciuftetelli '04, a daughter, Lauren Olivia, Nov. 23, 2007.
Kyle B. Potts M.'06, a daughter, Lauren Elizabeth, Jan. 16, 2008.
Spring 2008 / World 41

What’s new? We like to hear from you.

Sorry for the delay!
You may not see your class note in the issue or two after you send it in because of the whoppin’ amount we receive and the cutoff time necessary to keep the magazine on schedule. But we will include it as soon as possible. Thanks for your patience.

Are you receiving duplicate copies of this magazine? Please help us keep our mailing costs down by taping your address information from the back cover in the space below so that we can delete it from our list.

Address changed? Please tape your old address information from the back cover in the space below and write in your new address.

Has anything new happened to you?
Use the space below for your name, year of graduation, major, and town and state.

<table>
<thead>
<tr>
<th>Name (Please include maiden name.)</th>
<th>Year of Graduation</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Town and State

Comments: (Please specify which subject.) General comments ❑ Address information ❑ Class notes ❑ Other ❑

Send your news by FAX to (864) 656-5004 or by email to sleigh@clemson.edu.
Or tear along perforated lines and mail your news to Clemson World, 114 Daniel Drive, Clemson, SC 29631-1520.
You can also update your information online at www.clemson.edu/alumni/updates.html.

The Clemson Family

Passings

Calhoun N. Hinton ’34, Pickens
Paul W. Nichols ’39, Prosperity
Paul W. “P.W.” McAlister ’41, Laurens, trustee emeritus
Curtis C. Graham Jr. ’42, Mount Ulla, N.C.
John Lester Thompson Sr. ’42, Clemson, former textile professor
Tom C. Wright ’42, Ward
Henry M. Simons Jr. ’44, Columbia
N. Craig Brackett Jr. ’49, Pawleys Island
Alexander F. Hammond ’49, Clemson
Leonard Darrell “Len” Reynolds Sr. ’49, Darlington
William F. Rochester ’49, Taylors
Herbert Harris McClellan ’51, Huntsville, Ala.

Alvin H. Clarke ’52, Greenville
Vance A. Loy ’53, Seguin, Texas
Henry L. Wall Jr. ’53, Wadesboro, N.C.
Cecil H. Johnson Jr. ’60, Daytona Beach, Fla.
Samuel Davis McGill Jr. ’62, Darlington
Kermit S. LaFleur M ’64, PhD ’66
Clemson, agronomy and soils professor
Daniel S. Groover ’65, Florence
Henry W. Holseberg ’66, Greenville
Brenda Stephens Miller ’69, Peachtree City, Ga.
Jim Ralph Smith ’70, Easley
Charles B. Bolchoz ’81, Jacksonville, Fla.
Conni Pope Atkinson ’83, Dacula, Ga.

Julia Walkup Middleton ’89, Greensboro, N.C.
Mark R. Stewart ’88, Easley
Tomi Shuler Garrison ’03, Seneca

Faculty and Staff
John R. Duncan, Mauldin, human resource development professor

In reporting a passing
If possible, when reporting the passing of a member of the Clemson family, please send a copy of his or her obituary. This will aid in the reporting process and keep records accurate.

Clemson Memorials
Family, friends and former classmates may choose to remember a loved one by supporting Clemson. To find out how to establish a memorial in someone’s honor, contact Ann Smith at annsmit@clemson.edu or (864) 656-5895.
Clemson World Travelers

Disney Cruise 1

Bahamas 2
*C. Winston Fowler ’62 at Treasure Cay.

Grand Palace 3
Frank ’64 and Bonnie Taylor in Bangkok.

Sicily 6
Glenda and Duane ’70 Shuler, Alice and Nicky ’69 Kellahan, Louise and David Webber, and *Lou and *Barney ’67 Easterling in the Greek Isles.

Mount Katahdin 7
*Ted Spetnagel ’70 at his completion of the Appalachian Trail.

Lake Manyara National Park 10
*John C. Trice ’74, M ’76 and his daughter Sarah in Tanzania.

Thailand 11
*Mike ’79 and *Kris Rosenlund ’81 Ozburn, Jeff ’79 and Angie Rosenlund, Joel and Kelly Rosenlund ’96, Barb and Gerry Rosenlund, and *Sally Anderson ’85 and *Brad ’83 Rosenlund celebrate Barb and Gerry’s 50th anniversary.

Kitty Hawk 4
*Ron ’67 and *Margaret Rogers and Dianne and John ’67 Anderson at the Wright Brothers Memorial.

Hong Kong 8
Tom ’71 and Nikki Scott at a Buddha shrine.

Santa Rosa 9
Clemson alumni, parents and supporters *Bill Newall ’73, *Ron Fleming, Roddy Gettys, Gene Altman, (guide Martha Ciaffoni), Andrew Nickles ’82 and Lang Nickles ’98 during a hunting trip in Argentina.

Alaska 5
Lloyd ’67, Kelly ’92 and Linda M ’88 Eargle in Alaska.

Honduras 12
*Brad Reed ’80 and George Greene IV ’01 with Water Missions International for the grand opening of a safe water system and to install more.
Vatican City 13
*Robert ’81 and Brent Parker in front of St. Peter’s Basilica in Italy.

Skywalk 14
*Mike and *Pam Connor ’81, M ’86 Sloan at the Grand Canyon.

Mount Phillips 17
Al Barnett ’84 and Bill Alexander ’85 with Boy Scouts on a mountain expedition near Cimarron, N.M.

Superior National Forests 18
Professors *Tim DeVol and Vic Shelburne PhD ’88 and others with Boy Scout Troop 235 near the Boundary Waters Canoe Area on the Canadian border.

East Africa 21
Kevin ’97, M ’98 and Amber Davenport ’98 with a local Masai tribe in Tanzania.

Bangkok 22
Jeff Parkey M ’99 and wife, Maleena Yennarn, both Clemson doctoral students, at the Dusit Zoo in Thailand.

Swaziland 15
Lesley Grozier Hill ’84 with Heart For Africa at an orphanage in Africa.

Machu Picchu 16
Clemson professors Toshiko and Yuji Kishimoto with Leslie McCormick ’84 in Peru.

Pisa 19
Dale Cheek ’89 with family Collin, Kimber Grace and Catherine (taking the photo) on a trek through Italy.

Hawaii 20
Jim M ’96 and Tammy Gill at Waikiki Beach, Oahu.

Alaska 23
Clemson parents Hack and Clare McGill, alumni Matt ’01, M ’02 and Jessica ’01, M ’03 Bolin, and *Valerie Coté and *Mike ’76 Davenport.

Lesotho 24
Allison Hennessey ’01 with Moshe, a friend she made during a Youth With a Mission trip.
Kenya 25
*Lindsey Clark ’02 and Will Jeter ’01 with Masai men while on a safari.

West Indies 26
Ashley Landers ’02 at St. George’s University in Grenada.

Istanbul 29
Paul (taking the photo) and Barrie Benson Stone M ’04 in Turkey for their honeymoon.

Kogoshima 30
Andrew Provenzano ’05, an exchange program English teacher in Japan, with students at Izumi Junior High School.

Mount Baker 33
*Ryan McCrary ’07 in Washington, while volunteering for Peak 7 Adventures.

Cairo 34
Brothers and former Clemson students *Louis Bregger (director of International Student Programs) and John E. “Jack” Bregger in the Khan Al-Khalili Bazaar.

Isaac, France 27
Kirsten Edwards ’03 in front of the Chateau de Montreal.

Czech Republic 28
Michael Meek ’04 on the Charles Bridge in Prague for the International Deer Biology Congress.

Stonehenge 31
Beth Lester ’06 during her European travels.

Rwenzori 32
Austin Whitley ’07 and *Ashley Hoffman ’07 with Engineering Ministries International in Uganda, pictured in the Bwindi Impenetrable Forest (with mountain gorillas).

Send your “Clemson Traveler” photos to:
Sallie Leigh
Clemson World
114 Daniel Drive
Clemson, SC 29631-1520
e-mail: sleigh@clemson.edu
NEW at Brookstone Meadows!

Imagine Living where you Live!

COME SEE OUR MODEL HOMES

A few reasons why you need to consider The Cottages at Brookstone as home:

AMENITIES

- 18-hole championship golf course
- Spacious, full-service clubhouse
- Junior Olympic-size pool and a basketball court
- World-class tennis facility
- Walking trails, ponds, and meandering creek
- Spectacular sunsets

FEATURES

- 6 unique floor plans, from approx. 1,400 to 2,400 sq. ft.
- Hardi-plank siding w/cultured stone accents
- Carriage-style garage doors

Starting at $188,900*

*Prices subject to change without notice

I-85 • Exit 27 • Hwy 81 towards Anderson approx. 1/4 mile to Scotts Bridge Rd

Prices starting at $304,000

Located on beautiful Lake Hartwell, WaterMarke offers:

- Private gated community
- Located 1/8 mile from Interstate 85 at Exit 19A
- Residences from 1,500 sq. ft. to 3,600 sq. ft.
- Open floor plans
- Outdoor swimming pool
- Fitness/Club room
- Limited number of boat slips
- Public boat ramp minutes away
- 15 minutes from Clemson
- 30 minutes from Greenville
- 2 hours from Atlanta

or call our office at 864-654-2200

Construction is complete!

Jerry Meehan
Cell: 864-934-8637
Offi ce: 864-716-0130

Richard Bennett
Cell: 864-314-3260
Office: 877-314-LAKE (5253)

www.watermarkesc.com

888-654-6202 or 864-261-7199
Brookstonemeadows.com

WaterMarke Lounge

WaterMarke Pool at Sunset
Commitment

Sharing the vision

A crowd of 400 major gift donors gathered for a lively indoor "tailgate" prior to the Clemson vs. Boston College basketball game in February. Attendees heard from President Jim Barker on Clemson’s rise to the top 20 and Bill D’Andrea, senior associate athletic director for external affairs, on IPTAY’s seat equity plan and how athletics fits into the University’s top-20 goal.

The Clemson faithful know the importance of supporting students through scholarships; recruiting and retaining faculty through endowed chairs and professorships; renovating and constructing facilities that provide the optimal environment for learning; and giving wings to seemingly big ideas.

Whether it’s through annual giving, major contributions or legacy gifts, Clemson supporters understand that a better university makes for a better society. They are making a difference through their actions and providing an example of leadership through their vision and generosity.

To learn more about what you can do to support the University, call (864) 656-2121 or visit www.clemson.edu/isupportcu.

Elliott award for ODCE

An endowment in honor of Ralph Elliott, vice provost and economics professor emeritus, has been established to recognize a Clemson faculty or staff member who has made an exemplary contribution to the Off-Campus, Distance and Continuing Education (ODCE) program.

The Ralph D. Elliott Endowed Award for Outstanding Service to Off-Campus, Distance and Continuing Education recognizes the growing importance of lifelong learning and continuing education as a major component of the University’s outreach and public service programs.

Elliott joined the economics department in 1972 and began building a University professional development program. When he retired in 2006, he’d grown the program from $70,000 in annual revenue to a multimillion-dollar program serving thousands of adult learners.

Clemson Provost Doris Helms says, “Few can even come close to the credentials, experience and know-how Ralph has amassed in his impressive run in both academia and the world of for-profit continuing education.”
There is no greater tribute to your family, no better statement about your lifetime of achievements, than committing your name — your legacy — to the future.

Whether you are planning your estate or updating your estate plans, now is the time to consider a gift that will resonate for generations to come.

Contact us today to discuss how you can name Clemson University in your will or estate plan. It’s easy, it’s deferred, and its impact upon the future is immeasurable.

Contact JoVanna King, senior director of estate and gift planning, at (864) 656-0663 or (800) 699-9193, or at jovanna@clemson.edu. Or find out more by visiting clemson.planyourlegacy.org.
Clemson 'focusses' the nation

Clemson hosted the largest “teach-in” in U.S. history in January when it provided the national kickoff for Focus the Nation — a civic engagement effort to get students to talk with political leaders about solutions for global warming.

More than 1,000 colleges and universities have joined in the quest for global-warming solutions for America. For more information, go to www.clemson.edu/focus and www.focusthenation.org.