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CLEMSON WORLD

MAGAZINE

SPRING 2011



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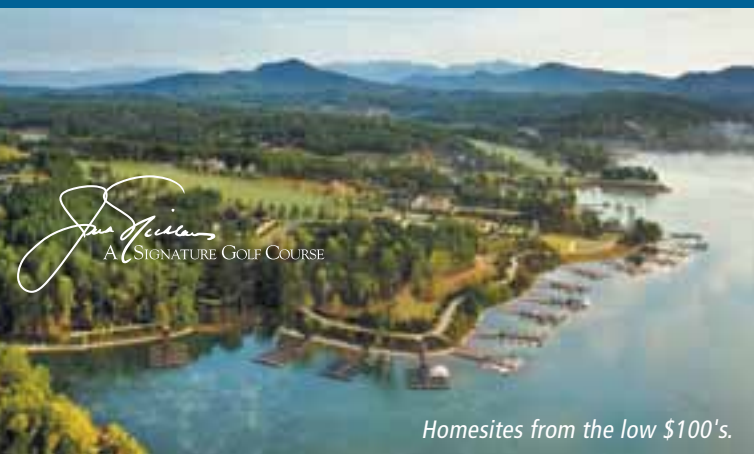
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EXTRAS ON THE WEB

View *Clemson World* online with lots of Web extras at clemson.edu/clemsonworld.

Coming soon: *Clemson World*'s premiere iPad issue. Watch our [Facebook](#) site for the latest on how to get the app.

Check out the University's social networks page for Facebook, YouTube, LinkedIn, news and calendar feeds, and much more at clemson.edu/campus-life/social-media/index.html.

See the University's Flickr site at flickr.com/photos/clemsonuniversity/collections for photos from campus, vintage collections, regional events and more.

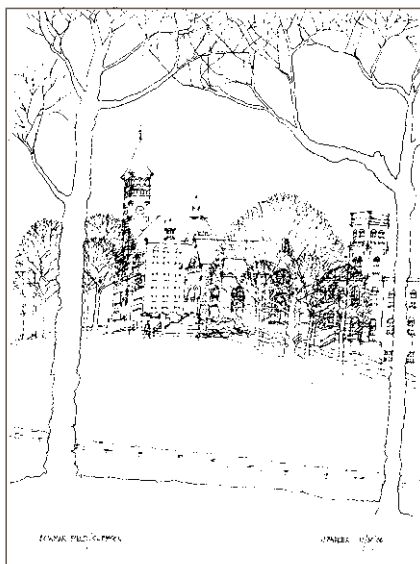
Join us on Facebook at facebook.com/clemsonalumni and facebook.com/clemsonworld.

Check out the Alumni Association's new app for your smartphone at clemson.edu/alumni/app.

It's time for Clemson to get back on offense.

Clemson's new decade-long plan is both ambitious and essential.

Our goal is that in 2020, Clemson will be a top-20 public university, a model for student engagement, a creator of jobs and solutions to problems, and a highly desirable place to work and study.



There's a regional expression that baffles visitors and newcomers to the South. "We're fixin' to go to the store," we say. Or, "I'm fixin' to get mad at somebody."

Depending on the speaker and the context, this can mean anything from a vague intention to a fierce, determined goal.

In 2001, when Clemson said we were fixing to become one of America's top public universities, some thought it was an idle, unrealistic hope. Yet, a decade later, **Clemson has moved into the top 25 among national public universities, according to the most popular, substantial and influential college reference book, the annual *U.S. News* guide to "America's Best Colleges."**

How? With a 10-year plan and a detailed roadmap, a set of very specific goals and priorities, and an investment plan that matched those goals.

During the past decade, we focused on the things that matter to students and families, like class size, student-faculty ratio and academic support to increase retention and graduation rates. Clemson did not manipulate statistics. We changed and improved the reality, the things measured by the statistics.

This was pretty unusual stuff for universities, which, in general, are very good at producing plans with lofty goals and long wish lists but short on strategies for achieving them and executing these strategies.

In the latter half of the 20th century, higher education was largely self-propelled and running on inertia in an era of growing prosperity and universal support for public education as a public good.

That era has ended. Prosperity is returning, but it's clear that "state support" will not automatically rebound to previous levels with the end of the recession in South Carolina.

Voters, taxpayers and legislators support higher education and understand clearly that our role is vital to the state's future economic health. But they also want accountability for the investments they make in colleges and universities, and we need to deliver that.

Clemson University recognizes this new reality and the need to plan for a future that is different from our past. We are doing that.

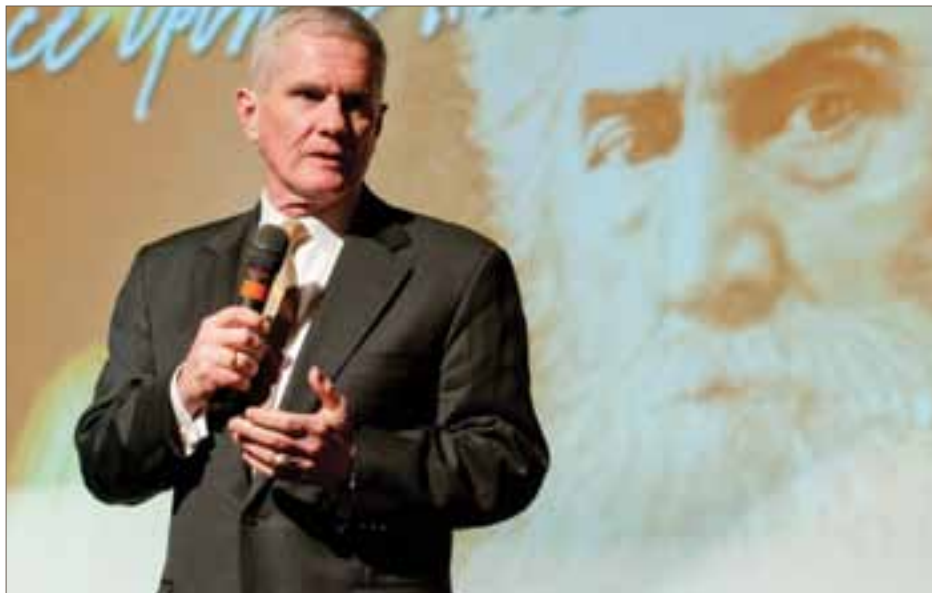
This spring, Clemson is wrapping up the first phase of our second major, decade-long plan. As I said in introducing the plan at a public Town Hall in February, Clemson has been playing defense since the fiscal crisis of 2008-2009.

We have had successes, but we've also been looking over our shoulders, waiting for the next budget cut or furlough announcement. We had a good excuse — the Great Recession — but it's time for Clemson to get back on offense.

We intend to deliver on our promise to current and future students and to the state of South Carolina. We're making strategic investments in

- top students, faculty and staff;
- engagement opportunities for every undergraduate student; and
- competitive facilities, technology and infrastructure.

We will invest in emphasis areas that drive economic development and address the great challenges of our time — such as energy, health, transportation and sustainable environment.



In order to invest in these priorities, Clemson also must divest itself of some programs and services, reallocate those funds and generate revenue from new sources beyond state funding and tuition and fees.

Two of the features elsewhere in this issue of *Clemson World* speak to some of those investments and divestments, including the story on Clemson's role in the state's Centers of Economic Excellence strategy.

I'd also like to call your attention, particularly, to the feature on Clemson's commitment to agriculture and forestry — agribusiness — which contributes \$34 billion and nearly 200,000 jobs to our state's economy.

Though the focus of our research efforts and the technology by which we deliver extension and public service programs must and will change in the 21st century, our commitment to agriculture, forestry and natural resources will never change. It is fundamental to our mission as a land-grant university.

You can be confident that the Clemson 2020 plan is about

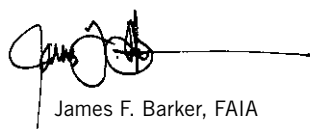
- self-reliance — taking control of our own destiny and leveraging every resource, including the strong Clemson brand;
- focus — staying true to our mission by not trying to be all things to all people;
- investing, divesting and generating new revenues — not depending on new state funding or putting the burden on students and families.

As alumni, you will hear more about our plan as it moves through the process of Board of Trustees approval and then implementation at the college and department level.

It's a 10-year plan with a five-year funding horizon. Not every decision will be made or implemented in the first year, but over time you can expect to see some restructuring of departments and some changes in degree programs as you knew them during your time as a student here.

Just remember that Clemson is still about delivering on a promise made to current and future students and to the state — providing talent, driving innovation and serving the public good. Our goal is that in 2020, Clemson will be a top-20 public university, a model for student engagement, a creator of jobs and solutions to problems, and a highly desirable place to work and study.

Your support will help us get there, and I thank you for it.



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Bringing youth to nature

THANKS TO A \$1 MILLION gift from The Scott Hannon Memorial Foundation, custom-designed cottages have been constructed on property donated in 2008 to Clemson by Jim Anthony and The Cliffs Communities.



These partnerships with Clemson's Youth Learning Institute will allow Clemson to serve thousands of students from across the Southeast for year-round and summer experiences that expose them to the rich, natural diversity of South Carolina's mountain region.

Camp Hannon is already a hub for adventure activities where hundreds of campers have mountain biked, hiked, paddled and whitewater rafted.

The Hannon Foundation plans to move programs it has historically funded for disadvantaged youth to the camp, which would increase numbers served by hundreds more each year.

Nursing students in Guatemala



TEN NURSING STUDENTS, LED BY professor Roxanne Amerson PhD '09, traveled to Guatemala last fall to provide health teaching to indigenous Maya women. Pictured on a hillside overlooking the city of Antigua are Elizabeth Atkinson, Katie Eckel, Lindsey Maxwell, Juliana Smith, Miranda Brown, Jennifer Jones, Allison Broughton, Amanda Kern, Courtney Vetzels and Amanda Cone — all December 2010 graduates.



Researcher studies plutonium underground

ENSCIENTISTS at Clemson have received a three-year, \$1.2 million grant from the U.S. Department of Energy to study how plutonium, a byproduct of used nuclear fuel, interacts with soil.

The research has implications for nuclear cleanup efforts and could help more accurately estimate the risk posed by long-term nuclear waste disposal.

Brian Powell M '01, PhD '04, an environmental engineering and earth science professor, is principal investigator on the project. He'll study plutonium interaction with soils from the Savannah River Site in South Carolina and its Hanford Site on the Columbia River in Washington. He'll then combine that research with quantum-mechanical calculations and X-ray absorption spectroscopy to determine exactly how plutonium interacts with minerals and soils.

Co-principal investigator Yuji Arai, Clemson entomology, soil and plant science professor, will oversee the spectroscopy experiments.



Clemson World on iPad in July

COMING IN JULY — *Clemson World's* first issue written and designed to be viewed on iPad! It will also be available on most Android tablets (such as Motorola Xoom, Samsung Galaxy, Blackberry, HTC Flyer.) Watch our Facebook site (facebook.com/clemsonworld) for more on the premiere issue.

CW DYK?

Kiplinger magazine has rated Clemson among the best values in public higher education in its ranking of the "100 Best Values in Public Colleges" released earlier this year. Clemson's ranking — 41st for in-state students, 46th for out-of-state students — was based on a variety of factors that matched quality of education with cost. Ninety-nine percent of in-state entering freshmen receive scholarships, which is a distinguishing factor in the Kiplinger formula.

Michelin gift spurs automotive electronics research at CU-ICAR

AS PART OF ITS PARTNERSHIP WITH THE CLEMSON UNIVERSITY International Center for Automotive Research, Michelin Americas Research Co. donated high-performance equipment to advance research to improve the safety of automobiles featuring electronic communications and control systems.

The Lecroy Wavemaster 8600A oscilloscope is capable of taking 20 billion samples per second of electronic signals and storing them for later data analysis. Research with the oscilloscope will help engineers integrate electronic systems more smoothly in vehicles.



The new equipment will enable Clemson researchers to capture phenomena that can occur at ultra-high RF frequencies widely used in today's vehicles. Clemson researchers plan to use this capability to analyze the electronic noise generated by engine systems, vehicle safety systems and electric motor drivers with the goal of diagnosing critical failures before they occur.

To date, research in the lab has resulted in improvements to tire pressure monitoring systems, better methods for modeling and evaluating automotive components, and electric motor drivers that produce significantly less electrical noise.



Canadian Ambassador Doer and former U.S. Ambassador Wilkins with Royal Canadian Mounted Police Sgt. Campeau

Clemson in Canada

IN MARCH, CLEMSON LAUNCHED THE CLEMSON University Canada Center to serve as a clearinghouse for projects and collaborations between universities in the U.S. and Canada. A virtual center through Clemson's Office of International Affairs, it will not require additional staff or facilities to begin operations.

Initial projects include the creation of an online depository listing all active research, teaching and outreach activities involving Canadian institutions, and a joint conference of U.S. and Canadian universities to be held at Clemson.

Pictured are Canadian Ambassador to the U.S. Gary Doer (left) and former U.S. Ambassador to Canada David Wilkins '68 with Royal Canadian Mounted Police Sgt. Daniel Campeau during the launching of the Clemson Canada Center.

Orange Wave dominates regional ethics bowl



CLEMSON'S INTERCOLLEGIATE ETHICS BOWL TEAM — also known as Orange Wave — took first place in the fourth annual Mid-Atlantic Regional Ethics Bowl in Richmond, Va., by knocking off competitors from Maryland, UNC-Chapel Hill, UNC-Charlotte and Miami. Team members were Yancey Appling, Courtney Dixon, Calla Jean, Nikki Powell and Spencer Taylor. They were coached by Charles Starkey, philosophy and religion professor.

CW DYK?

U.S. News & World Report ranks Clemson No. 23 among the country's top 164 national public universities, No. 9 Up-and-Coming national university and No. 12 for its commitment to undergraduate teaching.

Improving military health care facilities

THE U.S. DEPARTMENT OF DEFENSE IS INVESTING MORE THAN \$15 billion during the next five years to improve health care facilities for our military.

Architecture professor Dina Battisto is leading the effort from Clemson as principal investigator on a series of research grants totaling approximately \$1 million with the Department of Defense and NXT, an innovations organization. The funding encompasses a variety of collaborative projects including the development of a toolkit to assist with designing, building and maintaining world-class facilities for the Military Health System.

The current lack of guidelines means that architects must make design decisions without any mechanism to evaluate their work. The toolkit Battisto and her colleagues are developing will provide guidelines to measure design decisions before, during and after the facility is built. This will improve the quality of care for patients and their families and increase job satisfaction for those who work within the facility.

Landmark renewable energy project

SANTEE COOPER, ENVIRONMENTAL FABRICS INC. (EFI) AND CLEMSON ARE partnering in the construction of a new renewable energy facility, the first of its kind in South Carolina, that will generate power from methane gas captured at a Williamsburg County farm and deliver it to electric customers on the Santee Cooper system.

The 180-kilowatt Burrows Hall Renewable Energy Facility, a public-private partnership with many benefits across the state, is expected to begin generating renewable energy for the grid early this summer — enough power for approximately 90 average S.C. homes.

Duffy Connolly of Burrows Hall Farm approached Santee Cooper with an idea of building an anaerobic digester that could capture methane gas, naturally produced on his hog farm, and turn that methane into a fuel source for electricity. They turned to the S.C. Institute for Energy Studies at Clemson for assistance in defining and implementing the project, using a grant administered by the S.C. Energy Office and funded by the S.C. Department of Agriculture.

EFI will design, build, own and operate the digester. Santee Cooper has contracted to purchase the power, which Santee Electric Cooperative will distribute from the farm to the transmission network.

CW • DYK?

The University recently received several Clemson-connected photographs of George Washington Carver and handwritten notes by the renowned scientist and educator. In 1933, Clemson cadets Kelly Traynham and Carroll Chipley and their chemistry instructor, Wallace Fridy, toured Carver's research laboratory at Tuskegee Institute in Alabama. Now, nearly 80 years later, Clemson University Libraries' Special Collections has received three photographs of Carver with Traynham and Fridy and three handwritten letters from Carver — gifts from Traynham's widow.

Work of ART promotes independent living

THE ASSISTIVE Robotic Table



(ART) — a cross between a traditional nightstand and an over-the-bed hospital table — could become a key player in the future of robotic health care.

The robotic table is designed for all age groups, living independently or in assisted-care facilities. ART rotates, raises and lowers to create easy access to personal effects, including medications, by hand or remote control.

ART can sense and learn a user's habits over time, then notify caregivers if there is deviation from normal behavior. For example, if you wear eyeglasses, at night when you take them off to sleep you would set them on an area on top of ART outfitted with a sensor. If they aren't moved within a set period of time, ART would communicate via computer software with caregivers.

ART is the collaborative effort of Clemson professors and their grad students, along with researchers at Greenville Hospital System. Architecture professor Keith Evan Green proposed the concept and designed and built the initial prototypes in collaboration with Ian Walker from Clemson's electrical and computer engineering department and psychology professor Johnell Brooks.

Heptathlon national champ!



SENIOR MILLER MOSS BECAME CLEMSON'S first multi-event national champion when he won the heptathlon with 5,985 points at the NCAA Indoor Championships in March.

Tigers welcome Southwest Airlines!

THE CLEMSON TIGER, TIGER CUB, CHEERLEADERS and others welcomed Southwest Airlines chairman of the board, president and CEO Gary Kelly (center, behind Howard's Rock), GSP station manager Brian Williams, crew and staff to Greenville-Spartanburg International Airport in March. Southwest, the largest U.S. carrier based on domestic passengers carried (as of September 2010), is a partner with the Clemson Athletic Department. Pilot and first officer of the inaugural flight into GSP were Clemson alumni Bert Godwin '86 and John Lawton '93.



Track & field Lady Tigers win again!



FOR THE SECOND CONSECUTIVE YEAR, CLEMSON women, coached by Lawrence Johnson, track and field director, brought home the ACC Indoor Championship. Individual ACC bests went to Stormy Kendrick, 60-meter dash; Marlena Wesh, 400-meter dash; Jasmine Edgerson, 60-meter hurdles; and Brittney Waller, weight throw. And pictured, from left, Brianna Rollins, Wesh, Sonni Austin and Kendrick won the 4x400-meter relay. Rollins went on to win the NCAA championship in the 60-meter hurdles.

First peaches, now strawberries

EXTENSION PLANT PATHOLOGIST AND Estate specialist for fruit diseases, Guido Schnabel, has received \$850,000 to help growers deal with strawberry diseases.

He's participating in a regional project based at the University of Florida.

A four-year, \$2.9 million USDA National Institute of Food and Agriculture grant supports efforts to manage two fungal diseases threatening the nation's \$2.1 billion strawberry crop.

Schnabel will develop a tool kit for strawberry growers to detect and manage existing and emerging fungicide resistance. The kit is based on a system previously developed for peaches in conjunction with the University of Georgia and will be used primarily by county agents and crop consultants to help growers select the most effective fungicides.

But managing emerging fungicide resistance in strawberries is just one aspect of the proposed research. The grant will also fund research on the use of a decision support system to help reduce the number of total fungicides applied to the South Carolina strawberry crop. The research is conducted on two commercial farms and supported by county agents Andy Rollins and Powell Smith.



CW • DYK?

Information about the University is available in the palm of your hand through the new mobile app **m.Clemson**. It offers campus maps and information on events, athletics, news and images and is available for iPhones, iPads and iPod Touches through Apple's App Store. BlackBerry and Android device users can access m.clemson.edu through their mobile browsers.

Understanding why few veterans get mental health help

CLEMSON PSYCHOLOGY PROFESSOR THOMAS BRITT HAS received a \$1.15 million grant from the U.S. Department of Defense to research why so few military personnel seek mental health treatment. Clemson co-investigators are psychology faculty Cynthia Pury and Heidi Zinzow and marketing professor Mary Anne Raymond.

The grant will fund three years of research into the reasons military veterans do not seek mental health treatment to deal with psychological problems resulting from combat exposure. Identifying the reasons can lead to the development of an intervention program to encourage veterans to get necessary treatment.

Early treatment for mental health problems can also avoid the costs associated with chronic mental health and related physical health problems and has the potential to reduce the public health burden of mental illness among the military community.

CW • DYK?

You can gain name recognition while making a life-changing gift. You can name an annual student-support fund with a minimum annual gift of \$1,000 for undergraduate support or \$2,000 for graduate student support. The recipient of your scholarship or fellowship is awarded the entire amount of your annual commitment. And your name — or the name of someone you wish to honor — becomes part of the fabric of an institution that changes lives every day.

Preserving Liberia cemetery



CLEMSON ANTHROPOLOGY CLUB STUDENTS, LED by professor Mike Coggeshall, aided a local African-American community in preserving their heritage. As a service project they cleaned and created a map of the historic slave cemetery at Soapstone Baptist Church in the Liberia community of northern Pickens County.

They raked leaves, removed fallen tree limbs and looked for impressions, headstones and any other indications of possible graves. They flagged the gravesites, measured the area and compiled a sketch map of the cemetery in an effort to begin the site's documentation and preservation.

The club's project is part of an ongoing effort of Coggeshall to document and preserve the history of the Liberia community. For more information, see clemson.edu/clemsonworld/soapstone.

MLK Day of Service



CLEMSON STUDENTS, FACULTY AND STAFF CELEBRATED Martin Luther King Jr. Day with service to the community, the annual MLK Blood Drive and a keynote address from human rights activist Nontombi Naomi Tutu, daughter of Archbishop Desmond and Leah Tutu. Volunteers worked at the Animal Rescue Fund, Clemson Child Development Center, Clemson Community Care, Helping Hands, Our Daily Bread and Sterling House. Area elementary school students participated in the MLK College Expo, sponsored by Clemson's Eugene T. Moore School of Education.

CW • DYK?

The University has been named a Tree Campus USA for its dedication to campus forestry management and environmental stewardship from the nonprofit Arbor Day Foundation. Clemson is the only U.S. university with a 17,500-acre forest adjacent to campus. The Clemson Experimental Forest is vital to research and educational programs in forestry management, wildlife and fisheries biology, and is a major resource for Upstate recreational activities, such as hiking and horseback riding.



ClemsonLIFE™ program 'Outstanding'

THE UNIVERSITY'S CLEMSONLIFE PROGRAM WORKS with students aged 18 to 23 who have cognitive disabilities to provide them a coordinated course of study that includes career exploration and preparation. It's one of the first four programs in the U.S. meeting the eligibility requirements for federal funding in the fall of 2010.

ClemsonLIFE promotes self-awareness, discovery and personal improvement through a framework of courses, job internships and community participation. And it supplies peer mentoring support and extracurricular activities on the campus to help students adjust to independent lifestyles. More than 130 students from across campus serve as volunteers with the program in various capacities.

Because of ClemsonLIFE's effectiveness, the S.C. Division on Career Development and Transition recently named it Outstanding Transition Program, and its director Sharon Sanders was awarded the Richard M. Kuffle Memorial Award for her contributions to the field of career education and transition. To learn more about the program, go to clemson.edu/culife.

Clemson 'energy' rap on YouTube

THE UNIVERSITY'S YOUTUBE CHANNEL FEATURES a rap video created by five students as part of their English class project. "You're Invisible to Me" — by students Amy Burka, Cameron Duncan, Tyler La Cross, Jake Martin and Taylor Newton — was produced for a technical writing class taught by Mike Pulley. Students worked with Gary Gaulin, director of sustainability for University Housing.

The video tells how electricity is brought to Clemson and ways students can conserve energy and help with the sustainability efforts on campus. It was part of the kickoff for a new living-learning community called LIEF (Leading and Innovating for our Environment and our Future) for students taking leadership in environmental innovation. For more on Clemson's living-learning communities, go to clemson.edu/campus-life/housing/living-learning.html.



Fluor Corp. aids Clemson students

FLUOR CORP. RECENTLY renewed its funding to the **Fluor Engineering and Science Study Hall**, open to all Clemson math and science students in the evening, five nights a week.

The study hall is one of a variety of programs receiving funds from three separate Fluor gifts totaling \$56,000. Another is the **Math Out of the Box** program, an inquiry-based math curriculum that reaches thousands of elementary school students across the state.

The Fluor Corp. gifts to support students also include funding for

- the Undergraduate Student Government Excellence-in-Teaching Award;
- the Concrete Canoe, Steel Bridge and Formula SAE competitions;
- travel for undergraduates to attend regional meetings of the American Institute of Chemical Engineers;
- scholarships and other support of the National Society of Black Engineers;
- workshops, seminars and lectures for the Society of Women Engineers;
- support of local chapter activities of the American Society of Mechanical Engineers;
- field trips and career fairs for students in construction science and management.



CW • DYK?

At Clemson's Musser Fruit Research Farm, researchers field test more than 350 different types of peaches, including varieties from Italy, China and France. The goal is to provide growers with research-based information for a profitable industry. The farm now has a "screen-house," funded by the USDA National Clean Plant Network (NCPN), to house a collection of virus-tested, peach cultivars that have low chilling-hour requirements and are of economic significance to the South and Southeast. The screens exclude insects and minimize the possibility of re-infection by insect-transmitted viruses. It's one of three NCPN centers in the U.S. that deal with temperate fruit trees.



Camp time — outdoor to academic to athletic!

ANOTHER GREAT SUMMER IS AHEAD FOR CAMPERS who attend one of the great programs at the University's Outdoor Lab on beautiful Hartwell Lake. Opportunities range from Camp Odyssey for children between ages 6 and 12 to Camp Again for active senior adults to carefully tailored camps for children and adults with special needs. Go to clemson.edu/outdoorlab or call 864-646-7502 for more information.

Have something else in mind for summer such as educational enrichment or instruction in a particular sport? Go to clemson.edu/summer/catalog for the 2011 Clemson Summer Program Guide for more choices.

CW • DYK?

Clemson's alumni participation is third highest among public research universities in the nation based on the percentage of alumni who donate to their alma maters (*U.S. News & World Report*). Nearly 28 percent of Clemson alumni give to the University, more than double the national average of 12.4 percent. The impressive level of support speaks volumes about dedication to giving back and passion to make Clemson better.

Turf Bowl Carolina champs



CLEMSON TURFGRASS MANAGEMENT STUDENTS — CLARK Rookstool, Thomas Reeder, David Bozard and Kyle Worthy — won the Academic Turf Bowl competition at the Carolinas Golf Course Superintendents Conference and Show last fall. The team represents Clemson Turf Club, advised by Don Garrett, Walker Course superintendent.

Leading thinkers & doers

More examples of why we're so proud of our faculty and staff

The life work of electrical and computer engineering professor **Rajendra Singh** on the engineering science and technology of solar cells has led *Photovoltaics World* magazine to name him **one of 10 global Champions of Photovoltaic Technology**. He's the D. Houser Banks Professor of Electrical and Computer Engineering and director of Clemson's Center of Silicon Nanoelectronics.

Reading education professor **Kathy Headley**, associate dean for research and graduate studies in the College of Health, Education and Human Development, has been elected to the **board of directors of the International Reading Association**.

Chemical and biomolecular engineering professor **Scott Husson** received the 2010 FRI/John G. Kunesh Award from the AIChE Separations Division **for contributions to the academic, scientific, technological, industrial, or service areas involving separations technologies for individuals under the age of 40**.

Psychology professor **June J. Pilcher** has been named a **Fellow in the Association for Psychological Science** for sustained outstanding contributions to the science of psychology in the areas of research, teaching, service and/or application.

Family and youth development specialist and PRTM professor **Deborah Thomason** has been installed as **national president of Epsilon Sigma Phi**, the society dedicated to fostering standards of excellence in the Extension System and developing the Extension profession.

Kay Cooksey, Cryovac/Sealed Air Endowed Chair in Packaging Science, received the 2010 Riester-Davis **Lifetime Achievement Award from the Institute of Food Technologists**. Cooksey has an international reputation for research on the interaction of food and packaging components, specifically the effectiveness of antimicrobial packaging films to improve food safety and quality.

Boyd H. Parr, S.C. state veterinarian and interim director of Clemson's Livestock Poultry Health, has been named to the **U.S. Secretary of Agriculture's Advisory Committee on Animal Health**. The committee will advise Tom Vilsack, agriculture secretary, on actions related to prevention, surveillance and the control of animal diseases of national importance.

Varun Grover, the William S. Lee Distinguished Professor in Information Systems in the University's College of Business and Behavioral Science, has been named a **Fellow of the Association for Information Systems for research, teaching and service**. He's one of only 50 Fellows in the global organization.

English professor **Susanna Ashton** has been recognized in *Choice* magazine for her landmark compilation of **South Carolina slave narratives**. Her *I Belong to South Carolina: South Carolina Slave Narratives* (USC Press)—a Creative Inquiry project—was selected as a **Choice Outstanding Academic Title for 2010**.

Juan E. Gilbert, professor and chairman of the Human-Centered Computing Division in Clemson University's School of Computing, has been named a **Distinguished Scientist by the Association for Computing Machinery** and a **Fellow of the American Association for the Advancement of Science**.

English professor **Tharon Howard** has been awarded the **Society for Technical Communication's 2011 J.R. Gould Award for his mentoring of students in usability and service-learning projects**. He directs the University's Usability Testing Facility and the Multimedia Authoring Teaching and Research Facility.

Landscape architecture professor **Robert Hewitt**, a national representative and member of three committees for national and state chapters of the American Society of Landscape Architecture (ASLA), will serve as the ASLA representative to the **International Green Construction Code Committee**.

William Bowerman, professor of environmental toxicology and wildlife ecology, has been appointed **U.S. co-chairman of the Great Lakes Science Advisory Board for the United States-Canada International Joint Commission**.



Students build house in Dominican Republic

Just after finals wrapped up in December 2010, 16 fraternity and sorority life members and two leaders hopped a plane to the Dominican Republic where they spent the next eight days building a home. Most of the group didn't speak Spanish, but it didn't matter. Locals welcomed them into the community. They left thinking they were going to change the lives of others; they came back changed themselves. To read about their experiences in their own words, go to clemson.edu/clemsonworld/dominican.



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MARK VAN DYKE



JOHN PARRIS - SC FARM BUREAU AG SIMULATOR



by Debbie Dalhouse
and Susan Benson



ECONOMIC DEVELOPMENT IS IN CLEMSON'S DNA. Anna Calhoun and Thomas Green Clemson founded this University to help rebuild South Carolina's economy after the Civil War. At that time, agriculture was the state's only significant economic sector.

Today, our state economy is more diversified. But agriculture and forestry — or agribusiness — is still South Carolina's largest industry. It contributes \$34 billion and nearly 200,000 jobs to the state.

Clemson University is committed to agriculture, forestry and natural resources as an economic development engine.

Clemson Public Service Activities (PSA) provides critical research, extension and regulatory services needed for South Carolina agribusiness to compete in a global economy. The College of Agriculture, Forestry and Life Sciences (CAFLS) provides undergraduate and graduate education to prepare tomorrow's leaders in agribusiness and other bio-based industries.

PSA — all about serving people

CLEMSON'S PUBLIC SERVICE ACTIVITIES — commonly known as PSA or as Clemson Extension (actually, one of four parts of PSA) — has been a lifeline to every S.C. county in almost every aspect of agriculture, forests, livestock and the environment for as long as the University has existed.

The four main units of PSA are

Experiment Station — relevant research for agriculture, forestry and natural resources;

Extension — transfer of practical science-based information to farmers, land managers and state and local agencies;

Livestock-Poultry Health — the state's animal health authority, meat and poultry inspection agency, and veterinary diagnostic center;

Regulatory Services — oversight of fertilizers, pesticides and quality of seeds and plants grown in the state.

Clemson PSA is part of a national system of 70 land-grant universities affiliated with the U.S. Department of Agriculture that provide critically needed support for agriculture and forestry.

PSA is the only state agency that identifies critical issues, finds solutions and shares that information with farmers and land managers. It provides services that other state agencies depend on to perform their missions.

Since 2008, because of the economic downturn, PSA's state appropriation has been reduced by 46 percent to date. The most recent cuts took effect July 1, 2010, and required immediate steps to balance the budget. Key steps were to offer early retirement to reduce personnel costs, increase the number of counties that extension agents cover, and focus all remaining state funds on core agriculture and forestry research, extension and regulatory programs.

A common misperception is that Clemson PSA receives funding from tuition; it does not. PSA is a separate state agency with both state and federal mandates to support the state's

agribusiness industries. *In fact, PSA research and extension have been funding 40 percent of the faculty and staff positions in CAFLS.* The 46 percent state budget reduction to PSA has resulted in a partial reduction in CAFLS funding; however, PSA still has \$12 million invested in the college at this time.

The economic impact of PSA programs includes

- saving soybean growers **\$25 million** by preventing crop losses caused by Asian rust, with another **\$10 million** savings in reduced seeding rates (**\$144 million** crop in S.C.);
- saving peach growers **\$20 million** by developing targeted treatment for brown rot, reducing fungicide use and preventing yield loss (**\$64 million** crop in S.C.);
- developing switchgrass as a biofuel, leading to a **\$20 million** annual contract for S.C. growers selling to European power plants;
- increasing S.C. poultry exports 87 percent since 2005 to **\$145 million**;
- certifying livestock and nursery/greenhouse plants as disease-free so they can be sold both in state and out of state (**\$1.6 billion** in livestock/poultry sales; **\$227 million** for ornamental plants and turfgrass production).

CAFLS — from the molecular to the global

CLEMSON'S COLLEGE OF AGRICULTURE, Forestry and Life Sciences is an interdisciplinary powerhouse dedicated to academic excellence, student success, world-class research and public service. From fields and orchards to forests and wildlife — even the molecular structure of life — CAFLS programs prepare students to be leaders to meet the challenges of the 21st century.

Recent budget cuts to CAFLS and PSA are big, but not big enough to stop Clemson University's support for agriculture, forestry and natural resources.

"I would like to emphasize that budget cuts to CAFLS and PSA have not affected our commitment to the Clemson land-grant mission, which historically is agricultural research, education and public service. CAFLS and PSA work together to fulfill this mission," says Tom Scott, interim dean of CAFLS and interim associate vice president of Public Service Activities and Agriculture.

"Budget cuts have required structural changes in CAFLS," says Scott, "but they do not mean changes in the quality and integrity of our programs and our commitment to student excellence."



CAFLS has streamlined its administration to make it more efficient, which is the basis for the reorganization. Ten former departments have been consolidated into one school and four departments.

The new CAFLS school will focus on agriculture, forestry and the environment. It will include faculty and staff from entomology, soils and plant sciences; environmental horticulture; forestry and natural resources; agricultural education; and agricultural mechanization.

The four CAFLS departments are

- Animal and Veterinary Science,
- Biological Sciences,
- Genetics and Biochemistry,
- Food and Packaging Science (formerly the Department of Food Science and Human Nutrition and the Department of Packaging Science).

No degree programs are being eliminated for any current CAFLS students. However, degree programs may be consolidated or changed in the future to meet the demands of the agriculture and life sciences industries, as well as forestry and natural resources.

Research in CAFLS will continue to be vital to answering questions of state, national and global concerns. **CAFLS research programs were awarded more than \$17 million in competitive research grants last year in spite of the economic downturn — a nearly 14 percent increase over the previous year.**

CAFLS research awards reflect the breadth and scope of the large number of subject areas covered in the college. For example, approximately \$10.2 million in research awards were to agricultural and forestry-related disciplines, and approximately \$6.8 million in awards went to biomedical, biofuel, ecological and other areas of research.

Research is also an integral part of CAFLS educational programs at both the undergraduate and graduate levels. CAFLS has 90 Creative Inquiry programs for undergraduate research, and CAFLS research scientists have undergraduate as well as graduate students working in their labs.


The college will continue to provide students with basic educational requirements, as well as the most advanced science and technology. Whether production agriculture, agribusiness management, biomedicine, energy, food safety, sustainable environment, nutrition, or any other area of study, CAFLS is committed to students and to the people and industries of South Carolina.

Constant transformation

CLEMSON CLEARLY REMAINS COMMITTED TO ITS LAND-GRANT MISSION. ITS investment in agriculture, forestry and natural resources teaching, research, extension and regulatory programs is the University's largest investment in an industry sector. And its importance to the state's economy is unquestionable.

However, Clemson can't do business as usual to maintain a viable state program. It must continually transform to thrive in a new economic environment as a more independently funded public university.

Clemson, after all, has succeeded throughout its history because it has a solid core of tradition and a dynamic surface of change.

For more information on Clemson Public Service Activities, go to clemson.edu/public and see Clemson Impacts at clemson.edu/impacts. For more on the College of Agriculture, Forestry and Life Sciences, go to clemson.edu/cafls. 

Distinguished Tigers



THE 2011 CLEMSON® ALUMNI ASSOCIATION DISTINGUISHED SERVICE AWARD DSA

These five outstanding individuals embody the determined spirit that characterizes the Clemson Family. From their days as Clemson students, they've gone on to lives of achievement, leadership and service — making a difference in their communities, their careers and their alma mater.



Harold Doug Kingsmore '55

Tiger baseball great, textile industry leader, longtime Clemson trustee

CLEMSON FLASHBACK: "I got a call at Newberry College (where I had just enrolled) from my former All-State High School baseball team coach Walter Cox. He said, 'You get on the bus tonight and come to Clemson. Frank Howard and I want to talk to you about playing baseball at Clemson.'"

Doug Kingsmore was a standout in three sports at Union High School. But little did he know when he played on the S.C. All-State High School baseball team coached by Walter Cox, he would wind up in the Clemson Athletic Hall of Fame.

Even though he was recruited by Newberry College to play football, he learned that Clemson wanted him for his favorite sport — baseball. As a Tiger, he set records and helped Clemson baseball win its first ACC Championship in 1954. That year, he was the leading vote-getter on the All-ACC team.

As a student, he majored in education with an emphasis in industrial management. He put his textile career on hold by signing a contract with the Baltimore Orioles and playing three seasons in the minor leagues.

He then went on to work in textiles, advancing to CEO for five major corporations. He served on boards for the Textile Manufacturers Associations in the Southeast and on the national level. In 1985, the *Wall Street Journal Business Review* awarded him its Bronze Medal as one of America's Best Textile Executives while he was CEO of Avondale Mills. He served for six years on the Federal Reserve Bank, Charlotte, N.C./Richmond, Va., and was chairman in 1994.

In 1990, Kingsmore was elected to the Clemson University Board of Trustees. He completed three four-year terms, retiring in 2002 as trustee emeritus. Longtime IPTAY and Alumni Association supporters, he and his wife, Vicki, are members of the John C. Calhoun Society and the Clemson Legacy Society.

Clemson's baseball stadium bears his name in honor of his financial contributions to a major renovation during 2002-2003. The Doug Kingsmore Stadium has been described as one of the top five university baseball stadiums in the country. And to keep it among the best, the Kingsmores are helping make more improvements. They've also established the Doug and Vicki Kingsmore Endowment.

WORDS TO LIVE BY: "Having a positive attitude is one of the greatest assets that a person can have. Most of the time, if you have a positive attitude, you can make things happen that you thought impossible."





W.O. "Billy" Powers '57, HD '04

National construction leader, entrepreneur, economic development advocate

CLEMSON FLASHBACK: "When I first got to Clemson, I found my room in the old barracks. It had 'hell hole' written on it, and there were four of us in one room. I learned a lot. One was how to hide out (from upperclassmen). But all of that made for a good experience, especially being in the cadet corps

and knowing everyone in my company."

Billy Powers grew up on a farm in Timmonsville where his family grew tobacco, cotton and vegetables, raised livestock and had a country store. He recalls it as a good life where neighbor helped neighbor.

He came to Clemson in 1953 and quickly learned how to navigate freshman life, his studies and the cadet corps. He continued at Clemson until 1956 when his dad fell ill and he had to go home to help run the farm.

In 1957, he began working for the highway department. And in 1962, he became a land surveyor with the S.C. Department of Transportation. In 1965, he started his own business, Powers Construction. Today, Powers Construction is known across the region as a large-scale commercial firm constructing condominiums, churches, schools and government buildings across North and South Carolina.

His other entrepreneurial endeavors include Powers Properties, Powers Aviation and Price Carolina Aquatech Pools. He's a registered land surveyor, real estate developer and broker, and a pilot.

Powers has held leadership roles in a variety of educational, professional and service organizations in his community. He's been named Business Person of the Year (Florence Chamber of Commerce), Distinguished Citizen (Pee Dee Boy Scouts) and S.C. Order of the Palmetto recipient.

Powers has served on the board of the National Home Builders Association, where he's a life director, and on the John F. Kennedy Center for the Performing Arts advisory board.

Powers still makes time for Clemson. He has served as a board member for the Clemson University Foundation and as a consultant for Clemson's mechanical engineering and construction science and management departments. His financial contributions have made him a member of the Trustee Oak Society and a charter member of the Leadership Circle. He's a life member of IPTAY and a member of the Greater Pee Dee Clemson Club. In 2004, Clemson honored him with an honorary doctor of humanities degree.

WORDS TO LIVE BY: "You haven't really helped anybody until you help people who can't repay it."



Charles K. Watt '59

Renowned telecommunications expert, entrepreneur, highly decorated civilian

CLEMSON FLASHBACK: "Dr. Marlon Thurston was an outstanding engineering professor, a wonderful teacher in the classroom and a mentor outside of class. Because of him and others like him, Clemson provided a foundation for my career and my life."

Charles Watt found his calling at Clemson in electrical engineering. When he wasn't studying, he was drilling with Air Force ROTC, honing his marksmanship skills, playing tennis with friends or attending Clemson ballgames.

After graduation he went on to a lifetime of leadership in solving complex problems for industry, government and academia. He also continued his education, graduating from the Industrial College of the Armed Forces (1972) and receiving master of science (1973) and doctor of science (1986) degrees from George Washington University.

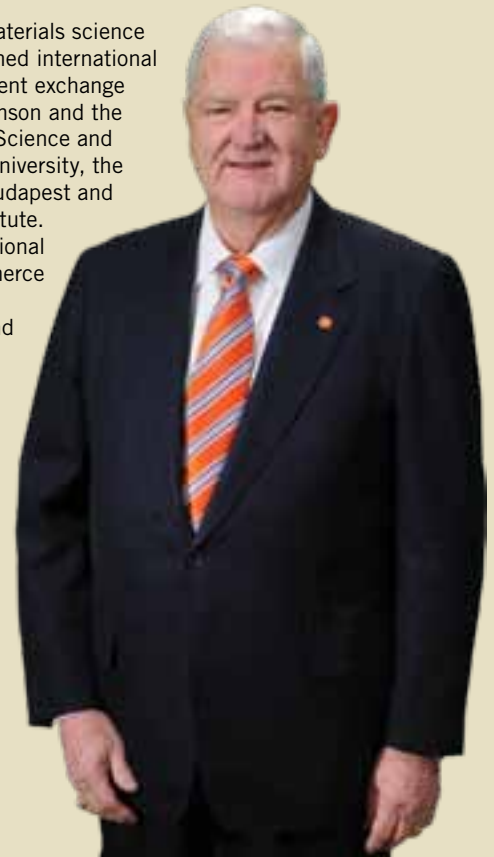
Watt served his country as a civilian, beginning at the Naval Electronic Systems Command in Washington, D.C., and advancing all the way to the Office of Secretary of Defense at the Pentagon. He was recognized with the Department of Defense Medal for Distinguished Service and a prior commendation for special service to the U.S. Congress on telecommunications.

He then founded (and remains chairman) of Scientific Research Corp., an advanced-technology company headquartered in Atlanta that provides national defense and global security electronic products and related services. The award-winning company is recognized as one of the top 100 federal contractors.

A Clemson Alumni Fellow, Watt is on the board of directors of the Clemson University Foundation and has provided longstanding service to the University including the recent leadership committee for Clemson's Will to Lead campaign. He and his wife, Linda, are major donors to the University and members of the Benjamin Ryan Tillman Society as well as IPTAY.

Watt, as a professor in materials science and engineering, established international research and faculty/student exchange agreements between Clemson and the Hong Kong University of Science and Technology, East China University, the Technical University of Budapest and the Moscow Aviation Institute. He also secured congressional and Department of Commerce support to establish the National Textile Center and the Computer Networking Research Project, both resulting in millions for Clemson research funding.

WORDS TO LIVE BY: "Life is a progressive process, and if you look back and say I've been successful in a series of elements — or just one that you have great belief in — to me, that's success."





Chalmers R. "Hap" Carr Jr. '60

Retired Air Force brigadier general, highway transportation expert, lifelong volunteer

CLEMSON FLASHBACK: "After growing up in a Navy family, I was set to go to a nonmilitary school. My uncle convinced me that Clemson had dropped its mandatory military program. But when I registered for classes, I learned I still had to join ROTC for two years. I chose Air Force, and the rest is history."

At Clemson, Hap Carr had a well-rounded college experience, including ROTC, his major in industrial management, athletics and being Coach Bill Wilhelm's second baseball manager, a job that took him to the College World Series in 1959.

He graduated with a commission to the U.S. Air Force. (He later earned an MBA from Central Michigan University.) His military career took him throughout the U.S. and to Australia and Thailand. As a command pilot, he had more than 4,000 flying hours, including missions in Vietnam. In 1991, many military awards and decorations later, he retired as brigadier general.

As a civilian, he managed program development for Bendix Field Engineering Corp. and became project manager focusing on the Advanced Traffic Management System and the Intelligent Vehicle Highway System in San Antonio, Texas, and Charlotte, N.C., until he retired in 1999.

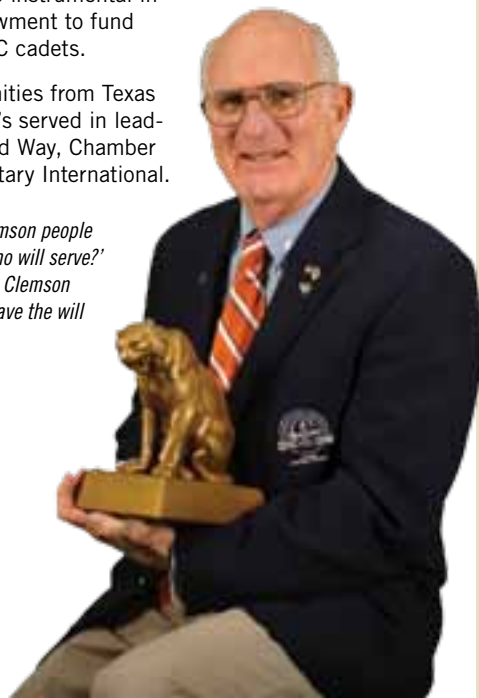
He and his wife, Jeannette, are members of the Benjamin Ryan Tillman Society, the Clemson Legacy Society and IPTAY, and he has served the Clemson Alumni Association in many leadership positions including president of the Alumni National Council in 2006.

He also has served as vice chairman and chairman of the Clemson Corps. The Clemson Corps was instrumental in establishing Military Appreciation Day, an annual football game designated to honor and recognize military service men and women.

During his tenure, the Clemson Corps developed the Scroll of Honor to recognize all alumni who had been killed while performing military duties. He helped raise money for and build the Scroll of Honor Memorial on campus across from Memorial Stadium. He was also instrumental in establishing an endowment to fund scholarships for ROTC cadets.

Active in his communities from Texas to North Carolina, he's served in leadership roles for United Way, Chamber of Commerce and Rotary International.

WORDS TO LIVE BY: "Clemson people answer the question of 'Who will serve?' with, 'Here I am, send me.' Clemson people understand. They have the will to lead."



Kimberlee Allen Wilkerson '80

Banking executive, education champion, philanthropic advocate, community leader

CLEMSON FLASHBACK: "Some of the best memories I have at Clemson are around my friends. I remember returning each fall to see my friends and share in the excitement of a new school year. Sorority rush, First Friday parade, football games, homecoming floats, Tigerama. The memories of time with friends celebrating the Clemson spirit are incredibly special to me."

Kim Wilkerson came to Clemson to be an engineer. She enjoyed her freshman year but soon found financial management more to her liking. She was active in the Finance Club and made lifelong friendships as a Tri Delt.

Before graduating, on the advice of professor Perry Woodside, she interviewed for a position with Bank of America during the bank's campus visit. She got the job and just days after graduation began what has evolved into a 30-year calling.

Wilkerson is the S.C. president for Bank of America, providing business, civic and philanthropic leadership across the state. Respect for her abilities led to her recent appointment as the local market delivery executive, a national leadership role in which she'll lead a team at the local level to deliver the bank's commitment to customers, clients and communities. Previously, she was the S.C. commercial and business banking market executive. She has earned multiple awards and recognition for her contributions to Bank of America.

Supporting both Clemson and the overall advancement of education in South Carolina is a passion for Wilkerson. Most recently, she continued her focus on economic development and education by championing the College of Business and Behavioral Science's vision of opening Clemson at the Falls in downtown Greenville to house graduate and community outreach programs.

Wilkerson has been elected a life trustee on Clemson's Board of Trustees effective July 2011. She's a board member of the Clemson University Foundation and has served on the Board of Visitors. She and her husband, Avery, are members of the Leadership Circle and IPTAY.

Active in a variety of organizations including the S.C. Housing Commission and the Palmetto Business Forum, Wilkerson imparts her desire to see the state and its citizens prosper. She's a member of Women in Philanthropy and was president of the board for Sistercare Inc., where she was honored for her outstanding service to the domestic violence prevention program.

WORDS TO LIVE BY: "Lift as you climb, love what you do, and always give back to make the community you live in a better place to be."



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Reading Recovery — *a safe shore*

Clemson's Reading Recovery® Training Center has helped two decades of South Carolina first-graders overcome problems in learning to read.



By Sandra Parker

If you've been around a South Carolina elementary school in the past 20 years, you've probably heard of the two R's that are sacred to all first-grade teachers — Reading Recovery. Reading Recovery is an instructional intervention for first-time first-graders who have difficulty learning to read.

When reading just doesn't come easy

First-graders are as individual as their little handprints, with different skills, talents and learning styles. At the beginning of each school year, incoming first-graders are tested on a variety of skills.

Reading Recovery-trained teachers test 20 to 30 percent of each first-grade class as recommended by teachers. Those recommendations are based on factors such as previous test scores, kindergarten performance and an alternate rank determined by the teacher.

Reading problems vary greatly and need individual attention. This is where Reading Recovery comes in.

How Reading Recovery works

"The hallmark of Reading Recovery is the one-on-one instruction children receive tailored to meet their individual needs," says C.C. Bates, Clemson reading education assistant professor and Reading Recovery trainer.

Each child receives reading and writing instruction individually with a trained Reading Recovery teacher for 30 minutes every day for 12 to 20 weeks. The time frame varies based on the child's progress.

- Perhaps oversimplifying, the basic lesson includes
- rereading books to gain new understanding about the text;
 - reading the previous day's new book while the teacher records the student's responses;
 - working with letters, letter sounds and words;
 - writing a story to improve ability to hear sounds in words and pay attention to visual aspects of print;
 - applying strategies to reading a new book.

When 'discontinue' is a beautiful word

"Discontinuing' is the term used to describe successfully completing the program," Bates says. "Eight out of 10 children in the state who receive a complete series of lessons start the program and complete it in an average of 15 weeks."

In the past 20 plus years, more than 50,000 South Carolina first-graders' Reading Recovery lessons were discontinued because they had learned to read and write on grade level.

Parents see the results. For example, one mom says, "My son's entire life was turned around. His self-esteem rose immediately. He has become an advanced reader."

Another writes about the lasting effects of the program, which both her children experienced as first-graders, attributing their success in high school to their time in Reading Recovery. And teachers appreciate the importance of this specialized work.

"I have been a Reading Recovery teacher for more than 20 years. The students who enter Reading Recovery are only in first grade, but they are already behind their peers in literacy and are in a downward spiral," says

Susan Turner, Reading Recovery teacher leader for Oconee County.

"As a Reading Recovery teacher, I have been trained to build on the child's strengths, and through intense one-on-one daily lessons, I am able to lift a child out of that academic hole. There are no words to describe the feeling I get when a child learns to read. I feel that I have thrown that child a lifeline and brought him to a safe shore. Teaching a child to read is absolutely about saving a life!"

Clemson makes the reading difference

Clemson's Eugene T. Moore School of Education is home to the state's training center for Reading Recovery. Clemson's center, one of 21 across the U.S., started in 1989, making it the second oldest in the country.

It coordinates training and professional development for all S.C. Reading Recovery teachers and leaders. The center also collaborates with the

S.C. Department of Education to continue effective statewide implementation of the program.

Consider these numbers: Last year the center served 32 school systems, 2,758 students in one-on-one sessions and 9,406 students in small-group instruction. Currently, there are 208 teachers, 16 teacher leaders, 34 teachers in training at different sites around the state and three teacher leaders in training at Clemson.

"We train the teacher leaders," says Bates. "They receive 18 graduate credit hours from Clemson. They are teachers with their master's degrees and have usually been trained as Reading Recovery teachers. They study the theoretical underpinnings of literacy processing and how to go back and implement, maintain and sustain Reading Recovery in a school district. They also serve as adjuncts because their primary responsibility is to train Reading Recovery teachers in their district."

Some of the training is online so that teachers still have some blocks of time in their districts in which they can continue teaching the Reading Recovery children.

The National Guard provides technical and operational support for some virtual training classes. Maryann McBride, Clemson's training center teacher leader-in-residence, conducts five at Clemson, and the class is simultaneously broadcast to approximately seven National Guard locations all over the state, reaching from 160 to 200 teachers at once.

Managing the costs and delivering good news

Recent budget cuts demand creative ways to maintain the training levels required for the program. Clemson's center had received most of its funding from a state grant, but funding levels have decreased over the years and last year took a 45 percent cut.

Last fall, Clemson's training center became an official partner with 15 other higher education institutions and lead applicant Ohio State University in the Investing in Innovation Fund grant, Reading Recovery: Scaling Up What Works.

The total grant is more than \$54 million, which includes approximately \$45 million from the U.S. Department of Education and a \$9 million match of private funds. Clemson's sub-award amount is \$2,177,964. As an official partner, Clemson will train 50 new Reading Recovery teachers each year for the next five years and continue expanding the use of technology to support teachers in the field.

But no matter the method of delivery or funding source, Reading Recovery remains a vital part of the state's educational opportunities. As various educational reforms have come and gone over the years, Reading Recovery has stood the test of time. And thousands of the state's children can prove it. 🌐

For more information on the Clemson University Reading Recovery Training Center, go to clemson.edu/readingrecovery.



Experience the Change of Seasons

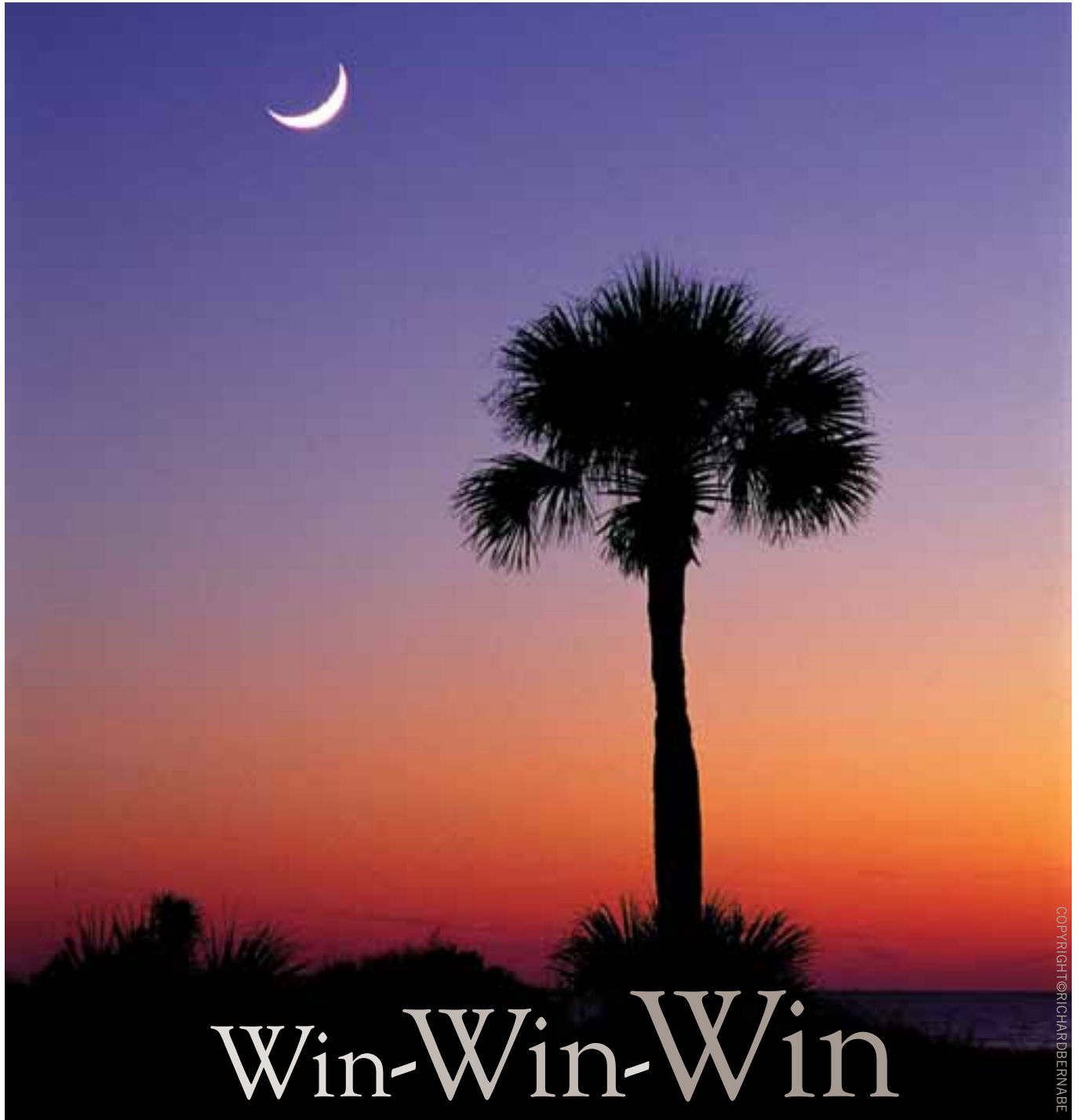


Much like spring, Seasons by the Lake has reawakened with a fresh look and rejuvenated tastes. Modern architecture intermingles with our famous view of Hartwell Lake for a captivating dining encounter unlike any other. Staying true to our Clemson roots, we've kept regional favorites on the menu and graced some new flavors with our unmistakable Southern accent.

We invite you to take in the change of Seasons as we debut all our exciting transformations. Savor our new dishes, behold the view and relish the experience.



The Food. The View. The Experience.



Win-Win-Win situation

By Sandy Woodward

S.C. Centers of Economic Excellence are driving the state toward a healthier economy.

W

e keep talking about Clemson's Centers of Economic Excellence — CU-ICAR, COMSET and many others — and how important they are to driving the state's economy. But just what are Centers of Economic Excellence?

The S.C. Centers of Economic Excellence (CoEE) Program was created by the S.C. Legislature in 2002 and is funded through S.C. Education Lottery proceeds. The legislation authorizes the state's three public research institutions — Clemson, the Medical University of South Carolina and the University of South Carolina — to use state funds to create Centers of Economic Excellence in research areas that will advance the state's knowledge-based economy and create jobs and economic opportunities for all South Carolinians.

Each Center of Economic Excellence is awarded from \$2 million to \$5 million in state lottery funds, which must be matched on a dollar-for-dollar basis with non-state investment. To date, 49 Centers of Economic Excellence have been created and 34 CoEE Endowed Chairs have been appointed statewide.

For its total investment of \$180 million in lottery funds, the state has reaped a benefit of twice that, with a total investment by non-state partners of \$363 million and the creation of 4,717 new jobs. More than \$500 million — that's half a billion — is in the private-investment pipeline but not yet received.

Benefits far beyond financial

"If there has ever been a win-win-win program in South Carolina," says President Jim Barker, "it's the CoEE Program."

First, the state's research universities win by having an investment of public and private funding directed toward the areas where we know we can make a difference in the future of our state. Focusing intellectual capital on critical needs and opportunities, from the automotive industry to a sustainable environment, will result in advances in these areas but will also attract established businesses and entrepreneurs to work with us.

The centers create an exciting and productive environment for students and will give them connections and experience that will serve well after their course work is done.

Private investors win by partnering with a research university and one or more world-class faculty members whose work can produce knowledge and

innovation and create jobs. And the state wins by the creation of new business and the relocation of businesses from other states for proximity to the innovators in their fields.

Clemson's CoEEs

The state has invested \$45 million in CoEE funds in Clemson research, creating 13 centers with 16 endowed-chair positions to attract the best and brightest faculty leaders from around the world. With a strong alignment between the CoEEs, Clemson's emphasis areas and national priorities, the potential for growth is virtually limitless.

CU-ICAR — the Clemson University International Center for Automotive Research is home to four research areas supported by endowed chairs to drive innovation in automotive and motorsports research.

- **Automotive Systems Integration** has an overarching research focus at CU-ICAR, bringing together all disciplines. It's led by Paul Venhovens, [BMW Chair in Systems Integration](#).
- **Automotive Manufacturing** focuses on improving efficiency and safety in highly complex manufacturing processes. It's led by Thomas R. Kurfess, [BMW Chair in Manufacturing](#).
- **Automotive Design and Development** merges vehicle design and the design of manufacturing systems, from lightweight materials to the incorporation of new fuel sources. It's led by the [Timken Chair in Automotive Design and Development](#).
- **Vehicle Electronic Systems Integration** researchers tackle the complex electronic systems that must work safely and effectively with each other and with the other mechanical and human systems related to the vehicle. It's led by Todd H. Hubing, [Michelin Endowed Chair in Vehicle Electronic Systems Integration](#).



COMSET — Clemson's Center for Optical Materials Science and Engineering Technologies is headquarters for two CoEEs to be led by endowed chairs.

- **Optical Materials/Photonics** focuses on design, fabrication and testing of optical fibers in areas critical to defense and homeland security as well as communication systems and biomedical applications. It will be led by the **J.E. Sirrine Textile Foundation Endowed Chair in Optical Fibers**, academically housed in the School of Materials Science and Engineering.

- **Optoelectronics** strengthens COMSET's photonics research program by focusing on improving the devices, systems and protocols used in high-speed optical communication networks. It will be led by the **PalmettoNet Endowed Chair in Optoelectronics** academically housed in the Holcombe Department of Electrical and Computer Engineering.

Advanced Fiber-based Materials researches advanced synthetic polymers and natural fibrous materials as well as new composite

materials based on metals, ceramics and polymers for automotive, space, athletic equipment and medical prosthetic markets. It will be led by the **J.E. Sirrine Textile Foundation Endowed Chair in Advanced Fiber-based Materials**.

Advanced Tissue Biofabrication is in conjunction with the Medical University of South Carolina and the University of South Carolina. Clemson researchers develop processes for the production of complex tissues and organs through "bioprinting" or three-dimensional layering of individual cells. Clemson's research will be led by a CoEE Endowed Chair in Advanced Tissue Biofabrication.

Cyber-Institute combines computer and electrical engineering with the University's growing computing power to create a strong research program, industrial partnerships and technology-transfer opportunities in research areas that rely on storage, processing and transmitting large amounts of data. It will be led by the **C. Tycho Howle Chair in Collaborative Computing Environments**.

Health Facilities Design and Testing (with MUSC and USC) research focuses on designing health care facilities to improve delivery of health care services and create architectural settings that positively affect



Another great win in light-based research

While CU-ICAR is the University's first fully developed and most mature home to several CoEE areas of research, another huge success story is Clemson's Center for Optical Materials Science and Engineering Technologies (COMSET), which is center of operations for two CoEEs. In fact, COMSET was founded over a decade ago, well before the state's Centers of Economic Excellence Program, and has been progressing at the speed of light since.

As a result, Clemson has become an international leader in light-based research. Headquartered at the Clemson University Advanced Materials Center in Anderson County, less than three miles from I-85, COMSET is the premier academic resource in the U.S. for passive and active optical materials research and related optical and optoelectronic technologies.

Dollars, jobs, work force

Globally, light-based technologies present a market of more than \$400 billion and are speeding toward \$1 trillion by 2015. Clemson's COMSET, a powerhouse of 26 faculty members from five academic disciplines, is perfectly positioned

to be a part of the industry. Their work has already accounted for \$33.6 million in research expenditures and earned 31 patents.

The core areas of research at the center are inorganic materials, polymeric materials, optical fibers and optical nanotechnology. Much of the research has critical commercial applications in the fields of telecommunications, defense, sensing and displays.

Researchers have worked on many government projects at the federal, state and local levels. Some government clients and partners are the Department of Commerce, Department of Energy, National Aeronautics & Space

Administration, National Science Foundation, National Institutes of Health and Department of Defense.

Industry clients are equally impressive — 3M, Lockheed Martin, Northrup Grumman, Raytheon and many more.

COMSET was recently named a National Science Foundation Industry/University Collaborative Research Center in partnership with Rutgers. Its contribution will be its distinctive infrastructure and expertise in optical materials, particularly strength in crystal growth, transparent ceramics, specialty glasses and optical fibers.

COMSET faculty have partnered with three Upstate S.C. technical colleges to create the Educational Alliance in Photonic Technologies, to provide a skilled work force at every level of education in photonic technologies from certificate and associate degrees to baccalaureate to master's and Ph.D. levels. Clemson's Ph.D. program in photonics is only the second photonics doctoral program in the nation.

the health of patients and staff. It will be led by the CoEE Endowed Chair in Health Facilities Design and Testing.

Regenerative Medicine, housed at the Medical University of South Carolina, focuses on the regeneration or re-modeling of tissues and organs for the purpose of repairing, replacing, maintaining or enhancing organ functions, including engineering and growth of functional tissue substitutes. Clemson's lead faculty member is Xuejun Wen, **Hansjörg Wyss Endowed Chair in Regenerative Medicine**.


SeniorSMART™, a collaborative effort with the University of South Carolina, explores three major research areas — intellectual activity, safety within the home and safety outside the home, especially while driving. Clemson's safe-driving research will be led by the CoEE Endowed Chair in Senior Driving, Mobility, and Physical Functioning—Smart Wheels.

Sustainable Development builds on existing strengths in restoration ecology, renewable energy, natural resources, sustainable design, land use planning, real estate development and watershed management. Research fosters sustainable development strategies that allow the state to protect natural resources and encourage smart growth. It will be led by the

Thomas F. Hash '69 Endowed Chair in Sustainable Development.

Supply Chain Optimization and Logistics draws on established expertise in helping business and industry find the most efficient, economical ways to move goods or people to market. It's led by Scott Mason, the **Fluor Endowed Chair in Supply Chain Optimization and Logistics**.

Tissue Systems Characterization enhances existing expertise in tissue engineering and biomaterials to provide alternatives to animal testing. This center extends exploration of novel technologies with potential to serve as new diagnostics, medical devices and therapeutic products. It's to be led by a CoEE Endowed Chair in Tissue Systems Characterization.

Urban Ecology and Restoration integrates ecological science, engineering and urban design and planning to support the growth of South Carolina's environmental industry. It's to be led by the CoEE Endowed Chair in Urban Ecology and Restoration. 



They've also partnered with UNC-Charlotte and Western Carolina to form the Carolina Micro-Optics Triangle, which now includes N.C. State, Duke and Eastern Carolina.

Startups & spinoffs magnet

Already, two companies have spun out of COMSET to license Clemson technology and have located in South Carolina. Two additional companies have relocated to the Clemson area for proximity to COMSET faculty and infrastructure, and other prospects are in discussions with local and regional economic development groups.

Clemson's Office of Technology Transfer and the Clemson University Research Foundation maintain a list of available technologies for licensing and provide a wealth of information and support to entrepreneurs in transitioning Clemson research to the economy.

The Duke Energy Innovation Center is nearing completion next to COMSET's

headquarters at the Advanced Materials Research Lab. This facility will further stimulate technology transfer by providing space for startup and spinoff companies to move materials research to the marketplace.

And Anderson County has developed a new master plan for the remaining property in the Clemson University Advanced Materials Center campus. This attractive setting, with its proximity to COMSET, the electron microscope facilities and other potential campus-resident research partners, makes the environment a magnet for industry development.

Talent multiplied

COMSET director John Ballato says, "COMSET has devoted more than a

decade to creating a robust example of the value added by academic research to our state's economic and intellectual development. We've been able to have such success because of University and state investments and a wealth of talented faculty and students. And it has paid off many-fold."

For example, the millions of dollars in competitive external grants that faculty have earned, in turn, help pay salaries, support graduate students and build laboratories that are among the best in the world. And all the while, they've positioned the state to become a leader in optical and optoelectronic technologies and to reap the benefits.

And that, after all, is what a Center of Economic Excellence is created to do.

To learn more

To learn more about the South Carolina Centers of Economic Excellence, go to www.sccoe.org. For more on Clemson's CoEEs, go to clemson.edu/research/innovation/excellence.html. For more on COMSET, go to clemson.edu/comset. For information on funding an endowed chair, call 864-656-2121.

1. Florida

Joe Reece '42, Al Allaband '52 and Ross Griffin '52 at a restaurant on Amelia Island

2. Germany

*John '57 and *Jennie Linn Duffie on the Danube with Walhalla Temple in the background

3. Croatia

*John Beason '59, *John Dunkelberg '60 and *Walt Tyler '59, members of the 1957 cross-country team, in Dubrovnik

4. Honduras

*Bob Erwin '59, Susan Gooding '04 and *Robert Gooding '59 while working to improve housing at Barrio Guapinol, Agalta Valley

5. Russia

*John D. Snowden '60 at Catherine Palace, St. Petersburg

6. Italy

*Bob Powell M '65, PhD '67 at the Leaning Tower of Pisa

7. Australia

*Charles G. '67 and *Gail Elfert at Ayers Rock

8. Jamaica

*Sammy Crouch '68, M '77 and *Peggy Sease showing their Tiger pride at their wedding

9. Alaska

Philip and Gayle Dorn, *Suzanne Clark '69 and *Malcolm J. '68 O'Neal, and *Doris and *Watson Rhodes — and a moose — show their Clemson spirit in Fairbanks

10. Russia

*J. Scott '78 and *Suzanne Andrew, Lewis '71 and Ree Miller, and Donna and Will '84 Green on a Baltic tour in St. Petersburg

11. Jerusalem

Cathy Stone '76 and David B. '74 Elledge overlooking the Dome of the Rock



For more Clemson World Travelers ...

If you sent in a Clemson World Travelers photo earlier this year, but haven't seen it in print, go to the online version at clemson.edu/ClemsonWorld/travelers.

You can post your own Travelers photos on the Clemson World Magazine Facebook site at facebook.com/clemsonworld. Or send them, with a brief description, directly to Sallie Culbertson at sleigh@clemson.edu.

*Active Clemson Fund donor for 2011 Fiscal Year (July 1, 2010 – June 30, 2011) through Feb. 11, 2011. For more information, call Annual Giving at 864-656-5896.



12.



16.



19.

12. England

*Troy D. Kemp '76 high above the city on the London Eye

13. Italy

Sherrill Bullock DeVita '82 and Michelle DeVita '07 at the Coliseum in Rome

14. Nevada

Billy Sottile '82 claiming a rock for the Tigers at Lake Mead

15. France

*Virginia A. Ward '82 and husband Casey Gaines showing off the Paw at the Paris 20K run

16. Guatemala

*Eric '87 and Will Barradale building houses for widows of Mayan descent in Chichicastenango

17. Kenya

Keenan Smith '94, Wendy Torres M '99 and Chuck M '97 Arnold on safari at Masai Mara National Reserve

18. Singapore

Tiffany Winters '01 and Megan Barnes '01 found a tiger at Singapore Zoo

19. Tbilisi

Theodore D. Mauro M '01, PhD '07 at the Prince Ilia Chavchavadze School in the country of Georgia

20. Germany

*Amy Stokes and *Aaron B. Gibbs '05 on the bridge of Neuschwanstein Castle in Bavaria

21. Kentucky

Joe Floyd '07, Austin Wood '05, Stephen Coggins '09, Kyle Coggins '06 and Grant Floyd '07 on an ATV-riding trip at Black Mountain Recreation Park in Evarts

22. Italy

Jenna Wessinger '07, Emily Boedecker '07 and Amber Becker '07 in Cinque Terre — Amber's new home



13.



17.



20.



14.



18.



21.



15.



22.

23. Jamaica

Tyler S. and Elizabeth Morrow Gailey '08 honeymooning in Ocho Rios

24. Italy

Brian Kenworthy '08 and ***Anastasia Thyroff '08** moments after becoming engaged in Sienna

25. Switzerland

Sherry Jensen M '09 and graduate student **Matthew Jensen** at the Gornergrat near Zermatt

26. China

Jean Montgomery '09 at Big Buddha in Hong Kong

27. Arctic Circle

***Matthew Wayne Bassett '10** and history professor **Rich Saunders** on their way to the Northwest Territories of Canada

28. Iraq

SSG Jody Hoffer, PRTM graduate student **SGT Freddy Wojtowski**, **SPC Kevin Holder**, **SPC Dustin Livingston** and **SPC Cory Cheshire** — all Tiger fans — salute the American flag flying with a special Tiger state flag signed by University coaches Jack Leggett, Dabo Swinney and Brad Brownell.

29. Africa

Mike McDonald, student, with his Tiger Rag at Mount Kilimanjaro

30. St. Thomas

***Steve Coker**, Clemson supporter, showing his Tiger pride at Magens Bay

31. Mexico

***Patrick**, a Brooks Center house manager, and ***Linda Morgan** visiting the Mayan ruins at Chichen Itza

32. Miami

***Edward Rock**, University librarian, at Miami Book Fair International at Miami Dade College



we're behind you.

2000%

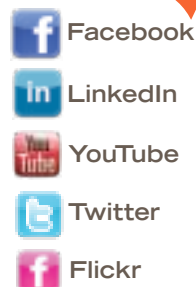


CAA goes high tech with updates at your fingertips!

- Get the new **Alumni App** for your smartphone at clemson.edu/alumni/app. It fits platforms for iPhone and Android phones and has a Web browser version, too. Watch for the Blackberry version to go live soon.
- Take advantage of the **Alumni "Tracking Tigers" Dashboard** and follow Tiger numbers by college, decade, location and more. Find it at clemson.edu/alumni/dashboard.
- Get **Alumni RSS** (Rich Site Summary) **Feeds** to stay abreast of up-to-the-minute alumni news and event opportunities. Take a moment to subscribe to the three recently launched RSS-feeds for Alumni News, Alumni Events and *The Echo* from the Alumni homepage.
- Update **Your Network** today. Take a moment to log in, or register for the first time, on our website (clemson.edu/alumni) and update your Employer Information in your alumni profile. This will allow you to connect with other alums within your company or field of work.



Find us on



Advertise your business

THE CLEMSON ALUMNI Association offers great ways to target an alumni family of more than 120,000 members. Publicize in print in *Clemson World* magazine. Make your business heard in *The Echo* eNewsletter. Win over your business with Alumni website advertising.

Direct Tigers to your business on the **Roar Board**. Designed to connect Clemson alums via common geographic and/or industry criteria, the Roar Board is a Web-based business card directory that allows alums to locate other Clemson graduates when searching for a new service vendor or, perhaps, when entering a new geographic market.

Find out about these and many more opportunities — sponsor an event, form an affinity partnership, rent the Alumni Center — on our website. Just go to "Alumni Resources" on our homepage and click on "How do I ... advertise with the Alumni Association."

Advance your career!

TAKE ADVANTAGE OF ALUMNI ONLINE Career Services. In addition to featuring a job-posting board for employers, job seekers can create, present, manage and share their professional credentials with the tools available through this new online application. Whether you're building a résumé, prepping for an interview or searching for jobs, this new career services resource will help. Just go to our website (clemson.edu/alumni) and click on one of the three orange buttons directly below the "Career Services" banners.



Visit our **Hear Us Roar Store** for the latest in Clemson gifts and goodies at hearusroarstore.com. Do you need Clemson Alumni branded promotional items such as pens, sticky notes, car decals, Tiger Rags, koozies, bags? Are you interested in branding your meetings and events with the Clemson Alumni logo or having these items on hand as you promote your alma mater? If so, check out our store and show your Tiger pride!

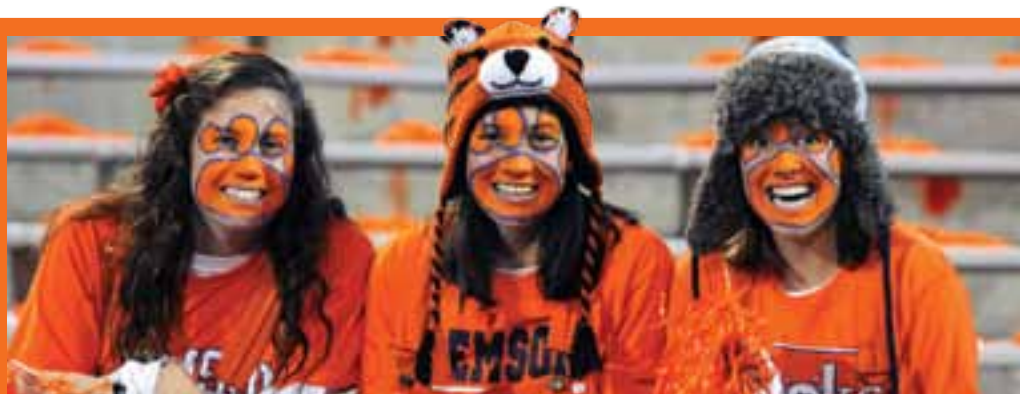
keeping south carolina green

THE CLEMSON ALUMNI ASSOCIATION HAS recognized **Bruce Martin**, turfgrass pathologist at the Pee Dee Research and Education Center in Florence, with the 2010 Alumni Distinguished Cooperative Extension Public Service Award for his outstanding service especially to the state's golf industry.

Martin developed a turfgrass disease diagnostic clinic at the Pee Dee center to serve the golf course industry in Myrtle Beach, and he conducts turfgrass disease-management training programs for extension agents, golf course superintendents and sod producers around the state, region and nation.

He's been named one of the 10 most influential people in South Carolina golf by the S.C. Golf Course Ratings Panel and received a Distinguished Service Award from the Carolina Golf Course Superintendents' Association. He's also received the Outstanding Service Award from the N.C. Turfgrass Council and was named Outstanding Plant Pathologist by the American Phytopathological Society in 2005.

The Alumni Distinguished Cooperative Extension Public Service Award is one of several faculty/staff excellence awards presented by the Clemson Alumni Association throughout the year.



Are you ready for Tiger football!!

Make your football plans and leave away-game travel to us! Plan your away-game travel with the Alumni Association's Clemson Sports Travel Program at clemsonssportstravel.com.

2011 Tiger football

- Sept. 3 — Troy (Hall of Fame Day)
 - Sept. 10 — Wofford (Military Appreciation Day, Youth Day)
 - Sept. 17 — Auburn (Solid Orange Day)
 - Sept. 24 — Florida State (IPTAY Day, Family Weekend)
 - Oct. 1 — at Virginia Tech
 - Oct. 8 — Boston College (Homecoming)
 - Oct. 15 — at Maryland
 - Oct. 22 — North Carolina ('81 National Championship Reunion)
 - Oct. 29 — at Georgia Tech
 - Nov. 12 — Wake Forest (Senior Day)
 - Nov. 19 — at N.C. State
 - Nov. 26 — at South Carolina
- Fan Appreciation Day is Sunday, Aug. 21.

The 2010-11 Clemson Alumni Association Board

James A. "Jimmy" Kimbell III '87, president, Anderson, jimmy.kimbell@bankanderson.com

Ann W. Hunter '80, M '82, president-elect Greenwood, ann.hunter@alumni.clemson.edu

Leslie D. Callison '81, past president Lexington, lescal59@aol.com

Mary Ann Bigger '88, IPTAY North Augusta, bbigger@comcast.net

Janine A. Bowen '89 Stone Mountain, Ga. jdabowen@yahoo.com

Teresa S. Coles '84 Lexington, riggsadvertising.com

W. Paul Craven '87 Greer, paulc@grandsouth.com

Sandy Edge '72 Clemson, sedge@clemson.edu

Danny E. Gregg '71 Clemson, dgregg48@gmail.com

Rick Griffin Beaufort, downtnmarina@islc.net

Jessie R. Hood '94 Atlanta, Ga., jessierichardson@alumni.clemson.edu

Satch Krantz '72 Columbia, skrantz@riverbanks.org

Andrea MacMeccan '99, M '00 Greer, amacmec@alumni.clemson.edu

Allen Martin '69 Vienna, Va., amartin@livingstongroupdc.com

Mike Maxwell '67, '68 Atlanta, Ga., mjmaxwell@aol.com

Harry G. Moore Jr. '70 Richmond, Va., harry.moore@alumni.clemson.edu

Jane S. Sosebee '78 Clemson, jane.sosebee@att.com

Evan Vutsinas '79 Old Hickory, Tenn., evtiger@comcast.net

Lynn West '84 Charleston, west84@alumni.clemson.edu

Greg Younghans '93 Camden, gyoungans@go2uti.com

Ex-Officio members include:
Leon J. "Bill" Hendrix '63, Clemson Board of Trustees
Kiawah Island

Wil Brasington '00, Alumni Relations senior director
Clemson, wil@clemson.edu

Brian O'Rourke '83, M '85, Development and Alumni Relations executive director
Clemson, orourke@clemson.edu

SAA helps kick off campaign

Student Alumni Association members manned the Paw Pics photo booth during the kickoff and several regional events for The Will to Lead: A Campaign for Clemson.

The SAA also sponsored the spring Clemson Ring Ceremony, hosted Senior Picnic, named Alumni Master Teacher and started planning the Welcome Back Festival — all before the spring semester ended!



Young Alumni aim high

Clemson Young Alumni members have set their own Will to Lead campaign goal at \$1.25 million! This fastest growing group of Clemson graduates are staying connected, investing in their degrees, giving back and making a difference for Clemson students. To learn how you can stay connected, go to our website, scroll down to “Groups” and click on “Young Alumni.”



Clemson Ring honors parents

Clemson is a family affair for the McCameron family! To honor their parents — **Edward and Lib McCameron** — children **Chris '09, Will '08** and **Meredith '07**, along with daughter-in-law, **Elizabeth '01**, donated a 2009 Clemson Ring to the Alumni Association Ring Case. From left are Spires, Elizabeth, Mary Elizabeth, Lib, Edward and Chris. Not pictured are Will and Meredith. The Clemson Alumni Association proudly displays rings from 1896 to 2009 and is in need of rings for the years 2010 and 2011. To learn more, contact Randy Boatwright at brandol@clemson.edu.



Alumni travelers take in Naples

Clemson Alumni travelers, hosted by A. Wayne Bennett, enjoyed the Classical Mediterranean Cruise through Clemson Alumni's Passport Travel Adventures last fall. From left are **Jim and Molly Hampton, Wayne and Shirley Bennett, Charles and Linda Watt** and **John and Jodie Allen**. To see what exciting destinations are awaiting you now, go to clemson.edu/alumni, scroll down to “Programs” and click on “Travel.”



Booker with Baltimore/DC Clemson Club

Washington Wizard's rookie center and Clemson alumnus, **Trevor Booker**, spent time with members of the Baltimore/Washington, D.C., Clemson Club after his game against the Atlanta Hawks earlier this year.

Meanwhile, far, far away, Clemson folks have formed two new clubs — **Welcome, San Diego and Alaska Clemson Clubs!**

Get involved with one of these clubs or any of our **62 Clemson Clubs** around the U.S. Find your club at clemson.edu/alumni/us-map.html.

WAC honors Mrs. Clemson



Women's Alumni Council renamed its scholarship to honor the legacy of the first Clemson woman who was a driving force in establishing the University. The council's new name for its scholarship is the **Anna Maria Calhoun Clemson Scholarship** sponsored by the Women's Alumni Council in an initiative known as “Her Land: His Plan.” They are also raising funds for an on-campus memorial for Mrs. Clemson.

Mark your calendar



Bring Your Daughter!

Clemson Women's Alumni Council hosts its annual Bring Your Daughter to Clemson Weekend May 20-22. This year's theme is "Her Land: His Plan." It invites girls ages 6 through 18, with their chaperones, to visit campus to see what college life is like. They can experience "classes" taught by professors, tours, bowling at Edgar's, an ice cream social and more. They'll meet coaches and student athletes, the cheerleaders and the Tiger, and get to rub the Rock and run down the Hill!

May Prowl & Growl

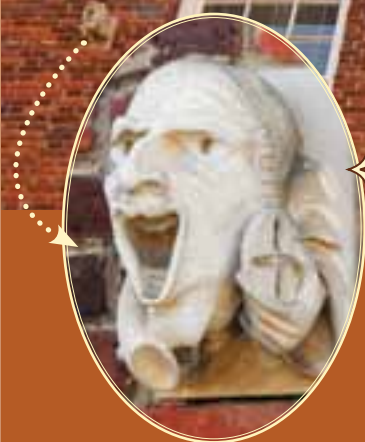
We're midway into our annual Prowl & Growl tours, with these May stops still — May 14, Atlanta, Ga.; May 16, Rock Hill; May 17, Charlotte, N.C.; May 23, Raleigh, N.C.; and May 24, Lexington. For more information, check out our homepage or call 864-656-2345.



Golden Tiger time!

The 2011 Golden Tiger Reunion is set for June 9-11 and will celebrate the Golden Anniversary Class of 1961 along with many other reunioning classes. This year's celebration will feature a Clemson Military Heritage presentation, academic and athletic updates, Clemson ice cream (of course!), class parties, photos and more. Headquarters will be at the Madren Center, while fun and festivities will reach across campus and beyond. For more information, call 864-656-2345 or go to clemson.edu/alumni.





Do you know me?

I'm located on the front of Riggs Hall — between windows and just under the eaves — with nine of my best friends. We're called grotesques, with good reason, as you can see.

If we were spitting water, we'd be gargoyles. But we don't spit; we just watch campus from a bird's-eye view although we don't consider birds our friends.

We're part of Clemson's history. We represent faculty members and architectural details from the University's past. Our home, Riggs Hall, was built in 1928 to house the engineering department. It was named after Walter Merritt Riggs, first an engineering professor and then president of Clemson from 1910 to 1924.


We were added as a nod to several well-known Clemson professors at the time. As for me, I was created in the supposed likeness of civil engineering professor and division head Elwyn Lorenzo Clarke, who taught from 1921 to 1951. Clues to my identity, other than my rugged good looks, are the instruments around me. In my left hand is a theodolite for measuring horizontal and vertical angles. On the other side is a rolled-up topo map or site plans. To be honest, I don't remember, and the artist is long gone. But we're still here. We all have such clues and more than a few inside jokes.

Next time you walk in front of Riggs Hall, look up. We'll be watching.

Untold stories




These grotesques are small but rich details in a brand new book on the history of the University to be released this summer. *The High Seminary, Vol. 1* looks at events and personal anecdotes; familiar and little-known stories; changing social, cultural, economic and political climates — all as they impacted the first 75 years of Clemson University.

The High Seminary, Vol. 1 is the most comprehensive and researched history of the University to date, with personal glimpses of well-known people — Simpson, Byrnes, Cox, Lee, Howard, Gantt, Edwards and more — and those not so well known — whose actions impacted Clemson as it grew from a state agricultural college into a major public research university.

The new history is written by University historian (a Clemson legend himself) Jerome Reel, published by the Clemson University Digital Press and distributed through the Alumni Association. Its release is scheduled for June, when it should become available at hearusroarstore.com. 



Your annual gifts to the Clemson Fund provide

-  scholarships and fellowships to recruit and retain the most promising students;
-  professorships and endowed chairs to attract and keep leading teachers and researchers;
-  initiatives that make a Clemson education exceptional, that build a knowledge-based economy and that drive innovation.

Your annual gifts to the CLEMSON FUND make a difference.

A small gift can have a HUGE impact.

Last year, gifts between \$10 and \$100 – the cost of lunch on the run or a night on the town – totaled \$1.2 million. Every gift to the Clemson Fund – no matter the size – makes a significant difference in the lives of our students and faculty, and it counts as a gift to the Will to Lead campaign.

Give one up for Clemson.

To make it easy and sporty for you to give up a restaurant meal and give to Clemson instead, we're offering an exclusive "lunch box" for grown-ups. Make your annual gift to the Clemson Fund, and you can purchase this orange insulated tote for \$10 each, including shipping and handling. See the enclosed gift coupon and envelope for details.

There are many ways to give.

1. Call 864-656-5896 to make a credit card gift.
2. Go to clemson.edu/giving to make a secure online gift.
3. Mail your gift with the coupon and postage-paid envelope provided.
4. Initiate an automatic bank draft or credit/debit card process. Call 864-656-5896 or e-mail cufund-L@clemson.edu for details.



CLEMSON FUND

Your annual gift makes a difference.

Class of '39 awards teaching excellence

CHEMISTRY PROFESSOR MELANIE COOPER, interim chair of engineering and science education, has been recognized by her colleagues and the Class of 1939 as one of Clemson University's brightest.

Cooper is the latest recipient of the **Class of 1939 Award for Excellence**, established by the Class of 1939 to recognize faculty for the highest achievement of service to students, the University and the community. She received a \$5,000 stipend and became an honorary member of the class. Her name was inscribed on the Class of 1939 bell monument in the Carillon Garden.

Cooper, an excellent teacher and adviser to undergraduate and graduate students, is the principal investigator on four current National Science Foundation grants and a co-principal investigator on two more. All focus on the development and assessment of new teaching and learning materials.

For the past 22 years, the Class of '39 has recognized a faculty member each year. The class also has a scholarship endowment and S.C. Botanical Garden endowment and projects.



Gift for leadership in engineering students

BOB HAMBRIGHT '70 BELIEVES HE HAS A simple, effective solution to most of the world's problems — good leadership.

That philosophy is the cornerstone of the vision he and faculty have for a new program to instill leadership skills in engineering students at Clemson.

Jump-started by a \$100,000 gift from Hambright, his wife, Susan, and his former employer, Balfour Beatty Construction LLC, the **Bob and Susan Hambright Leadership Program in Engineering** will support selected junior and senior engineering students in industry-led leadership training programs.

In his career with Balfour Beatty Construction, one of the nation's largest building contractors, Hambright rose through the ranks to become division president and CEO in charge of the company's Southeastern commercial operations and its privatized military housing and corporate accounts nationally.

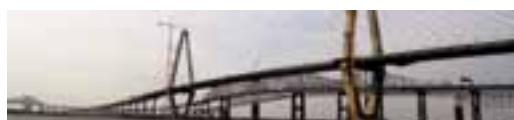
Keeping Lowry Hall up-to-date

TWO CLEMSON CIVIL ENGINEERING alumni — John Atz '85, M '87 and Mike Byrd '79, M '83 — have made matching \$50,000 gifts to help renovate and expand the building in which they began their careers.

Atz, president of Kimley-Horn and Associates Inc., and Byrd, executive vice president of the company, made their gifts for the modernization of Lowry Hall, home of Clemson's civil engineering program.

Byrd has served on the department's advisory board and initiated an unrestricted endowment to support the strategic plan. Atz is the current board chairman. He was instrumental in establishing the Lowry expansion and remodeling initiative.

The \$100,000 will help expand classroom space and facilities for student instruction. The remodeling also will improve the building's compliance with the Americans with Disabilities Act and will accommodate graduate student and research needs.



Fellowship for transportation engineering

AFTER NEARLY 40 YEARS, SLADE EXLEY '72, M '74 still remembers the names attached to the awards he won as a civil engineering student at Clemson — the Ronald J. Britz Award for an outstanding junior ROTC engineering student and the Wilbur Smith Outstanding Transportation Engineering Student award.

Now, after a successful career as a transportation engineer, Exley has established an honor of his own: the **Slade F. Exley Endowed Fellowship in Transportation Engineering**.

Exley is senior vice president and chief administrative officer of Jackson, Miss.-based Neel-Schaffer Inc., one of the largest privately held engineering firms in the South.

Fellowships funded by Exley's \$100,000 gift will go to Clemson students pursuing graduate degrees in civil engineering who intend to pursue careers as traffic/transportation engineers. Preference will be given to students who are serving or have served in the U.S. Armed Forces or Reserve.



Gift names Lee Hall lab for Barkers

CLASS OF 1982 MEMBER DOUG GRAY AND HIS WIFE, RHONDA, HAVE GIVEN \$50,000 TO NAME A Lee Hall space the **Jim and Marcia Barker Tech Lab**.

The gift honors the leadership of Barker in the same building where he learned the fundamentals of architecture, and it honors Marcia Barker for her leadership role as the University's First Lady. The lab, which will be used by students in Clemson's Master of Real Estate Development program, is part of a project to expand and renovate Lee Hall.

Gray chairs the University's Advancement Board for Real Estate Development.

Clemson brings Will to Lead campaign to Columbia

Clemson took its capital campaign on the road with a kickoff event in Columbia in February.

All Clemson alumni and parents in the area were invited to celebrate and learn about The Will to Lead: A Campaign for Clemson. Students told their "Unfinished Stories," to be completed with support from alumni and other donors. Student performers in Tiger Band, TakeNote and the Clemson University String Quartet entertained.

The event was the final in a series of regional campaign kickoff events that have been in Greenville, Atlanta, D.C., Charleston and Charlotte. To see photos from the events, go to clemson.edu/paw-pics.

The campaign's goal is \$600 million by 2012 to provide students and faculty with scholarships, fellowships, professorships and endowed chairs, engaged-student learning opportunities, top facilities and technology, research and development opportunities and economic development initiatives.

To learn more about the Will to Lead campaign, go to clemson.edu/giving.



Generous donors have fun and get the job done

Clemson's greatest supporters recently gathered to have fun and to see how their investments in the University are paying big dividends for students, faculty, the state and far beyond.

Over the weekend, they toured the Clemson University International Center for Automotive Research, tried their driving skills at the BMW Performance Center, dined in Hardin Hall, and tailgated and then watched Clemson men's basketball team beat Wake Forest.

Clemson's donor recognition ranges from Annual Giving Clubs to Cumulative Giving Societies to Legacy Societies. To learn more about giving to Clemson and how we recognize donors, go to clemson.edu/giving/who/donors.



I'm a third-generation Clemson graduate. Both my grandfather and father came to Clemson, and my mother worked for Clemson Extension. I never considered going anywhere else.

My grandfather was a Clemson athlete and later a coach, so I went to many events with him as I was growing up. Even though my grandparents lived within walking distance of campus, I never considered not living on campus either.

I moved into Young Hall my freshman year, and lived in the same room, sharing the same communal bath, for three years until moving to the Clemson House my senior year.

What you have to understand is that I'm an only child, so until I came to Clemson I had never shared a room, much less a bathroom, with anyone. But I can tell you that many of my fondest memories of Clemson are centered in University Housing. I met my husband while visiting a friend in Johnstone E section, and the friendships I made in the residence halls have lasted a lifetime.

It's now my privilege to work at Clemson for University Housing. I enjoy talking with parents and students about the advantages of living on campus. And I can do so with my own personal Clemson experience. Looking back, I know that I graduated with a higher GPA, was more involved in extracurricular activities and more engaged with the faculty and staff because I lived on campus. All of these factors have benefited my career and enriched my life.

I love to tell prospective students and parents that Clemson is a great place to learn, and University Housing is a great place to live.

*I'm Rose Ellen Davis-Gross
and this is my Clemson.*

P.S. I must confess that even though I didn't live with my grandparents, I did do all my laundry at their house.



Rose Ellen Davis-Gross

A 1990 marketing graduate, Davis-Gross is associate director of assignments and marketing for University Housing. She was also 2010 Clemson Staff Senate president. Her grandfather was the legendary Bob Jones '30, her father is John W. Davis '63, a veterinarian, and her mother, Rose Jones Davis, is a former Extension food and nutrition specialist. Her husband is financial management graduate Matthew F. Gross '89.

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