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Cover photo: BMW-ITRC in Greenville, S.C., by Patrick Wright
On this page: Statue of Thomas Green Clemson, photo by Patrick Wright
President’s View

Timeless mission

This issue of Clemson World explores some new and exciting aspects of the University’s mission that, while distinctly separate, taken together indicate the dawn of a new era in the Clemson story.

As the CU-ICAR campus takes shape, it is giving substance to the vision. BMW is now occupying the first building on the site, the International Technology Research Center; designs for the campus master plan and the Carroll A. Campbell Jr. Graduate Engineering Center have been shared and are further detailed in these pages; and additional partners are joining the CU-ICAR family, most recently The Timken Company. As you will read, the initial excitement over CU-ICAR continues to grow.

The CU-ICAR model has inspired other Clemson partnerships. The joint commitments of private partners, the University and the state of South Carolina are creating economic development opportunities throughout the state, while simultaneously giving opportunities for our students.

The South Carolina Research Centers of Economic Excellence Review Board just approved $10.3 million for the Clemson Restoration Research Campus, a North Charleston project that involves completion of the Hunley preservation and development of a “restoration economy” that is a natural fit for the Lowcountry. The board’s $5 million funding of an innovation center in the Clemson Research Park will promote an advanced-materials economic cluster for Anderson County, with emphasis on transferring the knowledge acquired in the Advanced Materials Research Laboratory and other research facilities to existing and new businesses.

The “knowledge-based economy” is a term we use to describe the movement of information from research laboratories to its applications for society. While the term is new, the concept is not new to us at Clemson. The knowledge-based economy is, in fact, the very heart and soul of Clemson University as defined in the will of Thomas Green Clemson. Improving the lives of South Carolinians through education was his intent. Surrounded by economic devastation, this man of science saw the acquisition and sharing of knowledge as South Carolina’s only hope for prosperity.

Through its public service and Extension programs, Clemson has always supported a knowledge-based economy. These new initiatives, and others to come, are the 21st century manifestation of a model that has served Clemson and South Carolina well. The combination of our Extension Service, Research and Education Centers with these new laboratories across the state makes Clemson a powerful force for South Carolina’s future economy.
Look with me in this issue at some of what that future holds — CU-ICAR and other economic development initiatives — a new center for international education in Brussels — a model for emergency-room medical care right here in our Edwards Hall nursing program — hands-on learning projects that take our students around the world — and more.

The Clemson of the future is firmly rooted in the Clemson of the past, fulfilling a mission conceived in the 19th century but timeless in its passion and commitment to creating a better world.
Healthier babies

Clemson and Greenwood Genetic Center (GGC) have become partners in an effort to find causes and cures for birth disorders and susceptibility to premature birth, hypertension, obesity and diabetes.

The partners have formed a collaborative to increase research and doctoral education in human genetics. They plan to invest more than $10 million in the initiative, including construction of a graduate education center on the Greenwood campus.

The plan seeks to move South Carolina to the forefront in identifying the genetic causes of diseases and developing new treatments. The initiative answers a call to action. South Carolina’s level of birth disorders, which include mental retardation and autism as well as physical disfigurements, is above the national average.

“For 12 years, GGC scientists have served as adjunct faculty to offer graduate courses in human genetics,” says Clemson Provost Doris Helms. “Currently, five doctoral students are in the program; we want to see the number increase substantially.”

The new 20,000-square-foot facility will provide laboratories, classrooms and office space on the Greenwood campus and will serve as a focal point for graduate research and distance-education programs. Clemson has applied for funding from the Life Sciences Act for the $5 million construction cost. The Genetic Center plans to match that amount with an in-kind donation of land for the building and access to GGC research laboratories and treatment clinics.

This initiative will strengthen the appeal of Upstate South Carolina for genetics-related companies. SC Bio, the state’s biotechnology incubator at GGC, will support commercialization of new technologies that result from the collaborative research. The incubator offers laboratory and office space to startup companies, with an adjacent biotechnology park under development.

Alternative fuel

Three Clemson chemists are part of the U.S. Department of Energy (DOE) initiative to make hydrogen fuel-cell cars and refueling stations available, practical and affordable by 2020.

Steve Creager, Dennis Smith and Darryl DesMarteau have received a $750,000 DOE grant to develop a fuel-cell membrane that helps convert hydrogen into electricity for cars. The fuel cells will be like batteries in that they convert chemical energy into electrical energy. Unlike batteries, however, fuel cells won’t have to be recharged. Instead, they will be fed hydrogen fuel, much the same as current car engines are fed gasoline.

“The initiative builds upon 23 years of expertise, starting with professor DesMarteau at Clemson,” says team leader and electrochemist Creager. “There are few groups in the nation who are positioned to do work on new fluoropolymer materials. Clemson is one of the few academic labs in the country making new materials of this type.”

Clemson at the Great Wall

Graduate and undergraduate students, faculty and staff are pictured at the Great Wall during a recent trip to China. They traveled to the cities of Beijing, Shanghai, Suzhou and Nanjing, where they visited businesses and toured scenic and historical sites. The undergraduate students spent an additional five weeks in China studying at Dalian University of Technology.
Restoration in Charleston

Clemson is working to restore the Civil War submarine H.L. Hunley and develop a 65-acre research campus in North Charleston that could employ thousands. The city council donated 80 acres of land, valued at $14.5 million, on the former Charleston Navy Base for that purpose.

The property includes the Warren E. Lasch Conservation Center, where the Hunley is being conserved. The Hunley Commission has endorsed the transfer of the Lasch Center to Clemson.

The University will use the site to establish research space for the Clemson University Restoration Institute (CURI) and expand Hunley work to include Clemson faculty and student research in historic preservation, advanced building materials and assembly, urban ecology and healthy communities.

In September, Clemson was granted $10.3 million in matching state funds that will enhance the University’s commitment. The S.C. Bond Act Review Committee awarded the match — through the state’s Research Universities Infrastructure Act.

Clemson will use the matching funds to upgrade the Lasch Center, improve infrastructure and landscaping at the site, and build the first facility on the North Charleston campus to support research conducted through CURI.

CURI is the first formal academic organization focused on the restoration economy, created to bring together experts and researchers and to drive economic growth through restoration industries and technology. It will have design and planning studios in the Clemson Architecture Center in historic downtown Charleston and will locate its research and development laboratories and facilities at the North Charleston campus.

“This is a great opportunity for Clemson to show how science and business can work together to expand our economy and provide new jobs in our state,” says S.C. House Speaker Robert Harrell.

Duke for diversity

Duke Energy Foundation has awarded a $90,000 annual gift to three outstanding Clemson programs promoting diversity in engineering and science.

Part of the award supports the PEER (Programs for Educational Enrichment and Retention) Math Excellence workshop, a summer school session of precalculus and calculus designed to prepare students for technical majors, such as computer science and engineering.

The award also goes to Project WISE (Women in Science and Engineering), which offers a summer camp for rising eighth-grade girls. The campers (pictured here) design Web pages, crack secret codes, perform bovine heart bypass surgery, and make their own shampoo and make-up — all in an effort to examine opportunities in engineering and science.

In addition, the gift goes to support programming for Clemson’s award-winning student chapter of the National Society of Black Engineers.

S.C. health boost

EPSCoR sounds like the name of a new health supplement. In fact, it’s a partnership in South Carolina called the Experimental Program to Stimulate Competitive Research that just may improve the health of S.C. citizens.

Through it, Clemson, the Medical University of South Carolina (MUSC), the University of South Carolina (USC), South Carolina State University (SCSU) and Claflin University will share a $9 million grant from the National Science Foundation (NSF) that will boost collaborative research to improve the quality of life for S.C. citizens. The award will be matched with $4.5 million in nonfederal funding, for a total of $13.5 million.

The award will build biological engineering and biotechnology communications at USC and Claflin, and utilize Clemson’s strength in engineering, plant genetics, business entrepreneurship and ethics to develop excellence in plant gene discovery and bioengineered products.

It will also allow MUSC to establish a center for state-of-the-art investigations of brain and neural function. SCSU and Claflin will be able to attract new faculty and equipment to expand their primary mission of undergraduate education and to provide research access to underrepresented groups.

The S.C. General Assembly has recognized the S.C. EPSCoR Program as a model federal-state-university partnership and will provide a portion of the funding required to meet the $4.5 million cost-share commitment to NSF.
A Civil Action


Jan Schlichtmann, the lawyer who represented the families of Woburn, spoke to Clemson students, faculty and staff at the beginning of the academic year.

The summer reading program, which culminates with a national speaker connected to the selection, helps new students become accustomed to the University’s intellectual community.

A in Internet reading

As the Internet becomes a central part of our lives, poor adolescent youth who are challenged by reading comprehension today are likely to be left out of an information age tomorrow. They are at risk to become dropouts, limiting their ability to seize life’s opportunities for themselves and to maximize their contributions to our larger society.

Co-principal investigators David Reinking of Clemson and Donald Leu of the University of Connecticut are working to change this. Through an integrated sequence of studies, they are developing a research-based adaptation of reciprocal teaching to support these students in acquiring the higher-level comprehension skills the Internet demands.

Their research is supported by a $1.8 million grant through the Institute of Education Sciences, U.S. Department of Education.

Record applications

A record number of college-bound students applied to Clemson for the 2005-06 academic year — nearly 12,500 applications were received — a 17 percent increase over last year.

The new freshman class has 2,904 students, with 65 percent from South Carolina, and 45 percent in the top 10 percent of their high school graduating class. The class has an average SAT score of 1225, compared to last year’s average of 1204.

Total student enrollment at Clemson is holding steady at 17,000.
Building dreams

One out of every 32 adults nationwide is under some form of legal supervision — house arrest, probation or imprisonment — because of a criminal conviction. Even more unsettling is the number of children affected by incarceration.

Clemson is working to lessen the negative impact on families through Building Dreams, a mentoring program for children who have an incarcerated parent. Mentoring improves a young person's commitment to school and self-esteem and decreases the likelihood of drug or alcohol use.

Funded through a grant from the U.S. Department of Health and Human Services, Building Dreams aims to develop close, supportive relationships between volunteer mentors and children of prisoners. Building Dreams is a collaboration of the University's Institute on Family and Neighborhood Life, the Youth Learning Institute, Clemson Extension, Angel Tree Ministries and community partners in Clarendon, Darlington, Pickens, Greenville and Sumter counties.

Mentors, 18 years or older, become positive adult role models who provide young people with safe and trusting relationships. For more information on the program or how you can help, email buildingdreams-l@clemson.edu or visit the Web at www.clemson.edu/ifnl.

C-CATS

Top high school students from three states are getting an early introduction to Clemson through a new program at the University's Youth Learning Institute in Pickens.

Last year more than 2,000 academically talented ninth- and 10th-graders were recommended by high school guidance counselors in the Carolinas and Georgia. Of those, 160 were selected for the program that began this spring.

Called C-CATS (Clemson's Challenge for Academically Talented Students), the program identifies the region's brightest students and challenges them to consider Clemson for their university studies.

C-CATS weekends include both academic and recreational activities, and admissions officers talk with the students about what it takes to get into selective universities such as Clemson.

For more information, contact Brad Cuttino of the Youth Learning Institute at bcuttin@clemson.edu or visit the Web at www.c-cats.org.

Construction extraordinaire

Construction science and management has taken professor Roger Liska from Chicago to China, Alabama to Australia, Detroit to D.C., and ultimately to Clemson.

In the process, he's accumulated many honors and awards. His latest shows what an impact his long career has had. This fall he received the Darline H. Johnson Volunteer Achievement Award from the National Association of Women in Construction (NAWIC) Education Foundation.

Liska, director of the National Institute for the Improvement of Construction Management and Processes at Clemson, has been in the Clemson classroom for more than 20 years.

In addition, he's been key in the development of the Construction Industry Technician program and certification exams. He's served as the American Council for Construction Education's national president, chaired all of its main committees and is currently a trustee. His experience with the accrediting organization has translated into valuable expertise that he has used to help the NAWIC Education Foundation accomplish its ultimate goal to get all its programs accredited.

Clemson's nationally recognized construction science and management program in the College of Architecture, Arts and Humanities continues to enjoy a 100 percent success rate in placing its graduates seeking employment or graduate school. For more information, visit the Web at www.clemson.edu/caah/csm.
$26.6 million from S.C. Research University Infrastructure Bond Act

Four Clemson projects received a total of $24.6 million in S.C. Research University Infrastructure Bond Act funding in September from the S.C. Research Centers of Economic Excellence Review Board. Clemson also received an additional $2 million toward construction of a Medical University of South Carolina bioengineering center in Charleston where Clemson will conduct research, bringing the total to $26.6 million.

“The four Clemson projects include economic development initiatives that are physically located in North Charleston, Anderson County and Greenville, but their impact will be felt by residents of every community in South Carolina,” says Chris Przirembel, Clemson vice president for research and economic development.

The projects are:

Clemson Restoration Research Campus ($10.3 million). The review board awarded Clemson $10.3 million in matching state funds to enhance the University’s commitment to a new North Charleston research campus.

Greenville Hospital System (GHS) Innovative Biomedicine and Bioengineering Research and Training Program ($7 million). The funding paves the way for Clemson faculty and students to work directly with GHS clinicians to improve patient care and boost economic development. The $7 million in matching state funds will be used to upfit and equip the facilities that will house the Innovative Biomedicine and Bioengineering Research and Training Program on the campus of the GHS University Medical Center.

Clemson Research Park Innovation Center ($5 million). This funding will meet the majority of the construction costs of a $6 million, 40,000-square-foot Innovation Center, adjacent to the University’s Advanced Materials Research Laboratory in the Clemson Research Park. These two facilities, plus a new building the S.C. Research Authority plans to construct simultaneously, will create a powerful complex to spur high-tech economic development for Anderson County.

CU-ICAR Campbell Graduate Engineering Center Equipment ($2.3 million). The approved funds will be used to create test cells. The equipment will allow the researchers to conduct tests on vehicles that are crucial to assessing full-scale vehicle performance and in developing new vehicle technology, both essential features of the graduate program.

Clemson’s additional request for $2 million for the Medical University of South Carolina is in support of a new medical research facility for collaborative research and training in bioengineering by researchers from Clemson and the state’s other two research universities.

Suffice it to say The Fieldhouse at Riggs will be unlike any residential opportunity available in Clemson. Developed by Tom Winkopp LLC, creator of local landmark communities such as Baldwin Pointe, Clemson Centre, Tiger Walk and Hart’s Cove, The Fieldhouse at Riggs will provide luxury year-round living. Overlooking historic Riggs Field and just a short walk to the Clemson Campus, as well as Death Valley, no other upscale community gives you more comfort or convenience.

Any more elegant and you’d need a tie.

For more information, contact: Susie Kohout/Realtor 864-303-8070, Tracie Matthews/Realtor 864-643-6323 or the office at 864-654-2200. You can also visit our website www.tomwinkopp.com
Thank you for all you do for Clemson.

At the holiday season, our thoughts turn gratefully to those who have helped make Clemson one of the country’s best public research universities.

With your support, Clemson has made significant advancements in the classroom as well as in research, economic development and public service programs. We’ve enrolled our best freshman class ever, increased retention and graduation rates, reduced class size, increased research support, completed the CU-ICAR master plan and much, much more.

Please consider stepping up your level of giving.

A great university is key to improving lives and igniting economic prosperity. Please help Clemson continue to move forward by stepping up your level of giving as you make your 2006 annual gift to Clemson.

Don’t let the calendar and tax year end without increasing your gift to ensure the success of Clemson University.

Click www.clemson.edu/isupportcu for easy-to-follow instructions, or use the enclosed gift envelope to return your tax-deductible contribution before December 31.

See the gift envelope enclosed in this magazine to find out how to receive your free Clemson calendar and win tickets to the Clemson vs. UNC basketball game.

Our Holiday Gift for You — An exclusive 2006 commemorative Clemson calendar reflecting the evolving vision of our great University has been created exclusively for Clemson Fund donors who step up their level of giving.

Clemson Fund
Supporting Clemson Academics
Every great success begins with a vision, and Clemson University’s International Center for Automotive Research is no exception. Since the announcement of its creation in November 2003, the center has been an exciting vision, shored up by a flurry of activity. The physical evidence is beginning to show. Visitors to the Greenville campus now see a completed BMW Information Technology Research Center.

Over the next year, things should quickly change. On June 28, 2005, Clemson President Jim Barker and CU-ICAR leaders were joined by S.C. Governor Mark Sanford, other state dignitaries, industry leaders and a standing-room-only crowd of well-wishers to get the first glimpse of the campus master plan and its centerpiece, the Carroll A. Campbell Jr. Graduate Engineering Center.

The master planners took their cues from a careful analysis of the entire site. The plan calls for the 250-acre campus to become five technology neighborhoods buffered by lush green valleys. These neighborhoods will be connected by multimodal pathways and bridges above the streambeds and vegetation below. The design creates places that encourage collaboration and interaction among the campus occupants and visitors as well as areas for personal reflection.

“Each neighborhood is designed as a dense urban cluster of buildings,” says Bob Geolas, CU-ICAR executive director. “Collaboration plazas pull the buildings together, and a catalyst building, a university magnet facility, sits within each neighborhood to provide supporting resources and linkages.”

The CU-ICAR master plan is in keeping with the uniqueness of the program itself, reflecting what President Barker calls the core values of CU-ICAR: collaboration, innovation and environmental sustainability.

A key concept is the application and incorporation of sustainable design strategies throughout the planning, design and construction of the campus, making it a model of sustainable development that minimizes environmental impact and that restores and balances the natural resources of the site.

Lead designers on the master plan were David King, chairman, and Charlotte Kosmela, principal, of the Smith Group of Washington, D.C. Associate designer was Chuck Hultstrand of Neal Prince + Partners Architects of Greenville. Additional team members included the landscaping firm Andropogon Associates of Philadelphia and Seamon Whiteside and Associates of Greenville.

The design creates places that encourage collaboration and interaction among the campus occupants and visitors as well as areas for personal reflection. “Each neighborhood is designed as a dense urban cluster of buildings,” says Bob Geolas, CU-ICAR executive director. “Collaboration plazas pull the buildings together, and a catalyst building, a university magnet facility, sits within each neighborhood to provide supporting resources and linkages.”
Technology Neighborhood One is under development, with completion of the first facility, the BMW Information Technology Research Center, scheduled for this fall. This center will house research on hardware and software innovations led by BMW with Microsoft, IBM and other world-class partners.

“We believe that CU-ICAR can be a nationally recognized model for development,” says Geolas. “The master plan is the physical manifestation of our vision — to be the premier automotive engineering educational and research facility in the world.”

**Not your daddy’s schoolhouse**

Adjacent to the BMW research building will be Clemson’s Carroll A. Campbell Jr. Graduate Engineering Center. The building that will house one of the nation’s most innovative automotive engineering graduate programs is itself going to be one of a kind.

Designed by the architectural team of Facility Design Group Inc. in association with design architect Mack Scogin Merrill Elam Architects, the $25 million structure features a distinctive architectural form and state-of-the-art materials that are indicative of the kind of innovation that will occur within its walls.

As an architect, President Barker appreciates the symbolic value of buildings, and this one had to be special. "When we began to imagine this building and what it will contain," he says, "we wanted it to be 'iconic.' We wanted a building that would capture people's imaginations, a building that, in addition to fulfilling its academic mission, would focus the eyes of the world on Greenville and CU-ICAR."

To encourage collaboration and innovation, the 90,000-square-foot facility features an open plan to foster communication between offices, laboratories and classrooms. The design facilitates interaction among faculty, staff and students. Large open bays provide space for students to work on entire vehicles or automotive components.

The use of state-of-the-art technologies in the building is a reflection of the nature of the program it houses, and Clemson’s commitment to sustainable design and construction practices is reflected by a design program that requires the completed structure to qualify for LEED Silver rating from the U.S. Green Building Council.

Spatial features of the building include a curvilinear public atrium, glass walls that allow visitors to observe students and faculty at work without intruding and a ramp that ferries automobiles into an elevated display gallery and auditorium. The building is to be constructed of concrete and clad in a combination of dark masonry and polished zinc panels.

The uniqueness of the master plan and the Campbell Graduate Engineering Center is an important part of the formula for CU-ICAR’s success. "The development of the first area will set the standard for the rest of the campus, so it must embody architectural excellence, design excellence and environmental sustainability," says Barker.

**New kind of engineer**

The one-of-a-kind academic program, offering M.S. and Ph.D. degrees in automotive engineering with an emphasis in systems integration, will train a new kind of engineer. Imtiaz Haque, chairman of the mechanical engineering department, where the degree programs will be administered, says the CU-ICAR academic plan evolved from a desire to meet an unfulfilled need in the automotive industry.
“In conversations with BMW leaders, it became apparent that there was a real gap between what automotive companies need and what university engineering programs produce today,” says Haque.

“As a leading-edge automotive manufacturing company, BMW is a microcosm of the industry; what they need today, others will need in the future. We listened carefully and developed a degree program focused on systems integration.

“Systems integration makes sure all the systems in a vehicle — steering, braking, electrical components — work together in a ‘smart’ and efficient way. Vehicles that are smarter offer many advantages in terms of safety, fuel efficiency and every aspect of the vehicle-driver-road interface. This requires training engineers to think in a systems framework.”

Timken joins CU-ICAR

The reality of the physical campus has sparked additional activity. The Timken Company, the Fortune 500 company known for providing automotive industry products and solutions based on its expertise in friction management and power transmission, recently announced it will become a founding partner.

Timken will locate research and development facilities at the CU-ICAR campus, occupying office, laboratory and research space in a new facility called Collaboration III, to be developed and owned by the Furman Company Development LLC. This building will be located directly across from the Campbell Graduate Engineering Center.

As an added economic boon — the kind that Clemson and state leaders envisioned — Timken announced it plans to relocate its automotive powertrain engineering resources, combining product and process engineering from Torrington, Conn., and Norcross, Ga., into three enhanced engineering and customer service locations, one of which will be a new worldwide powertrain engineering center at CU-ICAR.

The move will bring up to 110 jobs to the Upstate over the next two years.

Visionary with experience

Such a new and innovative program requires a visionary with outstanding experience. CU-ICAR leaders found what they were looking for in Thomas R. Kurfess, an award-winning mechanical engineering professor with an exceptional research background and strong ties to industry.

Kurfess joined the team this fall as BMW Manufacturing Chair in Automotive Engineering and director of the Campbell Graduate Engineering Center.

“I’m extremely excited about being affiliated with BMW both on an individual level as the BMW Chair of Manufacturing and as a partner in CU-ICAR,” says Kurfess. “Having one of the most respected corporations in the world as our partner makes a clear statement about the unparalleled level of engineering and technology being developed at CU-ICAR.”

Working together with CU-ICAR’s other major partners, Timken and Michelin, Kurfess envisions a team that will take automotive technology and the ensuing opportunities to the next level.

Once the program is in full swing, he will be joined by three other endowed chair professors, six junior faculty members and 50 graduate students. The program will begin offering courses in the fall of 2006.

His research focuses on the design and development of high precision manufacturing and metrology systems. He received his bachelor’s, master’s and Ph.D. degrees in mechanical engineering from Massachusetts Institute of Technology. He also received an
MIT master's in electrical engineering and computer science. Prior to joining Clemson, he was a professor at Georgia Tech and previously served as a faculty member at Carnegie Mellon University.

Kurfess is also a participating guest at the Lawrence Livermore National Laboratory's Precision Engineering Program. He has served as a special consultant of the United Nations to the Government of Malaysia and has received numerous honors, including those from the Association for Manufacturing Technology, the National Science Foundation, the American Society of Mechanical Engineers and others.

Kurfess sees the ability for students and faculty to interact daily with engineers and other research and development leaders from industry as a unique advantage for Clemson’s program. He has collaborated with Timken throughout his academic career.

“This company manufactures a product of incredibly exacting precision,” says Kurfess. “Their whole corporate culture — the commitment to quality, emphasis on research and development, and an impressive research and engineering staff — will be a terrific fit for CU-ICAR. To have them and other companies of their caliber literally across the street will be a fantastic opportunity for our students to work with and learn from the best.”

Starting the engine

Without the foresight and generosity of Robert H. Brooks ’60, CU-ICAR might never have come about.

An icon in the food-service business, Brooks is founder and chairman of Naturally Fresh Inc. He’s chairman and majority shareholder of Hooters of America Inc., and chairman and majority owner in both Hooters Air and Pace Airlines Inc. He’s also involved in other ventures with the Hooters name including the professional golf NGA Hooters Tour and the USAR Hooters Pro Cup Stock Car Racing Series.

In the early 1990s, Brooks already had a record of generous support to Clemson, including a $2.5 million commitment for the Brooks Center for the Performing Arts, when he made another $2.5 million gift to establish a sports science institute at the University. (The gift was in memory of members of his racing team, including his son Mark ’91, 1992 NASCAR Champion Alan Kulwicki, and co-workers Dan Duncan and Charlie Campbell, who died in a plane crash on April 1, 1993.)

The Brooks Institute for Sports Science at Clemson partners with industry for research, academic programs and student internships. It encompasses sports management, sports marketing, sports communication and motorsports engineering.

In the motorsports program, Clemson engineering students and faculty are engaged in highly technical research areas ranging from vehicle chassis software to computational fluid dynamics, thermal engine controls to composite materials capabilities — in other words, from the steering wheel to the tires.

The creation of CU-ICAR has depended on a variety of partnerships, programs and legislative support. But having a proven track record, particularly in motorsports engineering, put Clemson in the driver’s seat. And Robert Brooks’ vision and generosity started the engine.
Essential legislation

The following acts by the S.C. General Assembly made CU-ICAR possible.

Economic Development Bond Act

The Economic Development Bond Act of 2002 enhanced the S.C. Department of Commerce's recruitment efforts by creating funding opportunities for economic development projects. Specifically, this bond act provided funding for the Information Technology Research Center and the Campbell Graduate Education Center located at CU-ICAR as part of an overall incentive package for BMW.

Research Centers for Economic Excellence Act (Endowed Chairs)

In 2002, the S.C. General Assembly adopted the Research Centers for Excellence initiative, which sets aside lottery funding for endowed chairs at the three research universities in areas that can impact economic development. The Research Centers for Economic Excellence initiative has provided Clemson with $35 million in the following areas (including four endowed professorships at CU-ICAR):

- $5 million – automotive manufacturing (matched by BMW)
- $5 million – automotive systems integration (matched by BMW)
- $5 million – automotive design and development
- $2 million – regenerative medicine (collaborative project with USC & MUSC)
- $3 million – vehicle electronics systems (matched by Michelin)
- $3 million – historic restoration
- $5 million – photonics
- $2 million – supply chain optimization and logistics
- $5 million – electron imaging

Research University Infrastructure Bond Act

In 2004, the S.C. General Assembly adopted the Research University Infrastructure Bond Act, which provided approximately $220 million in research infrastructure funds for the three research universities. The act enhances the ability for Clemson, USC and MUSC to partner with the private sector to develop research infrastructure and promote economic development specifically associated with the University. To date, the Research Centers of Excellence Board has approved $40 million in matching funds for investment in the CU-ICAR campus. These funds will be used to construct the infrastructure and purchase equipment to support the first complete neighborhood located at the CU-ICAR campus.

Innovation Centers Act

The Innovation Centers Act of 2005 established three Research Innovation Centers in South Carolina, one associated with each research university. The Innovation Centers will focus their efforts on hydrogen and fuel cells; automotive, aerospace and information technology; biotechnology; military and defense technology; chemical products; high tech fibers; advanced materials and life sciences. This act provides the three research universities an opportunity to invest in the process to move the research out of the university and into the marketplace.

Partners

Clemson's leading partners in CU-ICAR are BMW, Michelin, the state of South Carolina, Timken and the Society of Automotive Engineers. In addition, CU-ICAR has developed strategic partnerships with other leading companies, including Microsoft, IBM and Sun Microsystems.
Clemson’s Woodland Cemetery is home to many well-recognized people with familiar names in Clemson’s history — from Walter Riggs to Walter Sikes. For a long time, there has been speculation that the cemetery might also be the resting place of some largely unrecognized people in Fort Hill’s history — African American slaves.

Like many other Southern planters, John C. Calhoun grew cotton and used slave labor. There’s no written record about these slaves, but a reporter from New York visiting Fort Hill in 1849 wrote that there were 70 or 80 slaves on the plantation.

Over a century after slavery was abolished, when Clemson College excavated lands near Cemetery Hill for the Hartwell dikes and student parking lots, there persisted anecdotal stories of a suspected slave cemetery somewhere west of the Calhoun family plot atop Cemetery Hill. In the ensuing decades, the question lingered, but no evidence of the burials was found.

An official search for unmarked graves began in 1992 when Clemson’s first archaeology professor, Carrel Cowan-Ricks, led a group of students in a careful excavation at Woodland Cemetery. They looked for grave shafts — digging areas that were only 1 foot deep, 10 feet long and 10 feet wide — in order to avoid disturbing any burials they might find. After several digs, the group found no evidence of any unmarked graves, but the work was still considered incomplete.

When President Jim Barker appointed the Woodland Cemetery Stewardship Committee in 2001, members wanted a more definite answer. The committee asked S.C. Archaeologist Jonathan Leader to examine the areas of the cemetery thought to have contained the unmarked burials with ground-penetrating radar and a geophysical electromagnetic sensor. These state-of-the-art technologies detect disturbances in the soil, such as those that would occur as a result of digging a grave shaft.

Over the course of three years, several scheduled visits by Leader were thwarted by wet weather. Finally, in February of this year, ground conditions were suitable and the tests were conducted. The conclusion of his work was that the “equipment did not locate any burials in any of the test areas.” He added that “there is always a slight possibility that a burial may have been masked from the equipment,” but that “it is appropriate for planning purposes to act as if the area is free from burials.”

The section of the cemetery in question is located to the west of the Calhoun family plot in an area that is being considered for expansion. “This research is of utmost concern to us because those graves would be as precious as any others there,” says Bobby McCormick, a member of the Cemetery Stewardship Committee and BB&T Scholar and professor of economics. McCormick says the committee has been given the go-ahead to expand the cemetery, but a backup plan must be in place in case evidence of unmarked graves is found.

“It’s our judgment, after this research, that there are no other unmarked graves in the cemetery, but we will remain on heightened alert for any evidence that people in the community might have or anything that might be found when interring people in new plots,” says McCormick. “If any remains are found, we will not remove or disturb them.”

While no evidence of unmarked graves was found in the suspected area, there are unmarked graves in another part of Woodland Cemetery, which Leader was able to confirm. These graves are in an area on the south side of the cemetery and have been surrounded by a fence, where they will be protected from erosion or unintentional damage. Some speculate that these graves belong to victims of a whooping cough or tuberculosis epidemic in the late 1800s or early 1900s.

The Cemetery Stewardship Committee has been charged with making recommendations for the protection and preservation of all the graves — marked and unmarked — of Cemetery Hill for future generations.
Clemson en Belgique

by Elizabeth DePasquale '05
When sophomore psychology major Kristen Purvis took a field trip to the Galler chocolate factory in Namur, Belgium, tasting the heavenly confections turned out to be one of the sweeter educational experiences she had in Clemson’s new study abroad program in Brussels.

Kristen’s blog-filled laptop records the joy of floating along the canals of Brugge in a vaporetto, the awe of watching a man create music by drawing a bowstring across a wire fence, the satisfaction of seeing one of Michelangelo’s stunning Pietas after the careful study of it.

Her experiences are based at the new Clemson University Brussels Center (CUBC) where students and business associates alike can find a gateway to international opportunities. This center is the nation’s first university portal linking education, research and service to support economic development.

The portal is an educational association between Clemson and the ICHEC Business School in Brussels, Belgium, one of Europe’s elite business schools. With the successful launch of this first portal, Clemson may add others in China and Latin America in the future.

Through the Brussels program, Clemson offers a world of opportunities.

ICHEC Business School is well-connected to the corporate world. It offers innovative learning experiences in the city that plays host to the European Union and has become a meeting place of great international minds. Motivated students, top faculty and committed corporate members can form partnerships through the center to broaden their educational and future opportunities.

Students study in integrated classes where they can make friends from various backgrounds and build the foundations of networking with an international peer group.

As chemical engineering senior William Vining says of his experience in Brussels, “Living with the other international students during the internship allowed me to learn about many different customs in Europe that I didn’t really get while living at home.”

Some of the academic offerings at the Clemson University Brussels Center include the Calhoun Honors College summer program, semester and year programs in a variety of majors, entrepreneurship education, research programs, and service-learning courses and conferences. For the coming year, CUBC is looking to offer summer programs in engineering, psychology and tourism and to begin developing joint-degree and distance-learning programs.

“I enjoyed the Clemson Brussels Center experience immensely,” says Kristen. “It offered exactly what I was looking for in a program, an extended stay in one city to become better acquainted with the specific culture and language there.”

The international portal will benefit not only students but also the state as a whole. Several European nations are already among South Carolina’s top foreign employers and importers of state products. Growing partnerships with Europe will encourage the flow of ideas across borders and could lead to the advancement of this state’s economy on a massive scale. Business opportunities through the portal loom large for South Carolina.

The portal is designed to provide access to economic development agencies, corporations and other universities through a membership program. Benefits include facilities in historic Montgomery Square with state-of-the-art business accommodations and much more.

James Cross, vice provost of international affairs, is leading the program at Clemson. “Locating the first portal in Brussels brings Clemson into the capital of the European Union — representing 25 countries and over 400 million people,” says Cross. “And Europe accounts for 65 percent of the foreign direct investment in the United States — most of it concentrated on the East Coast, including South Carolina.”

For more information about the Clemson University Brussels Center, visit the Web site at www.clemson.edu/IA or email clemson@ichec.be.
Life-and-death learning

by Ross Norton

Photo by Patrick Wright

The mother’s heart rate increases dramatically. The unborn baby’s decreases just as sharply. The nurse doesn’t know why — not yet — but she knows a perfectly normal labor has taken a dramatic turn.

With the doctor tending to another emergency for the next few minutes, the fate of a woman and her baby lies in the hands of the nurse.
She feels her own pulse quicken as she presses a button to signal that a patient is in distress. Her eyes scan monitors that befuddle a father-to-be standing in the room. She finds a problem: too much Pitocin. An IV-administered solution that’s supposed to encourage contractions has been infused too rapidly, and the Pitocin overload is wreaking havoc on the patient and the fetus.

If the wrong decisions are made, the mother and baby could be harmed. This very patient died just yesterday; in fact, she may die again later this afternoon.

That’s the value of this patient simulator. Known to Clemson’s School of Nursing students as Noel, she can give birth several times a day if needed. She can die when they make mistakes. She can bounce back when they do well.

That’s life and death in the nursing profession, according to Elaine Payne, coordinator of Clemson’s Clinical Learning Center, home to three patient simulators, including Noel and her infant.

“Students can practice here, and no one is going to get hurt,” she says. “If they don’t choose the best action, we can make the patient deteriorate. We can also make the patient improve if they do the correct thing.”

The simulators make the noises — pleasant and unpleasant — that nurses expect from real patients. They have vital signs and a voice, develop fevers and respond to touch. The simulators and the Clinical Learning Center are part of the $3 million Clinical Learning and Research Center (CLRC), dedicated in September and taking up the entire second floor of Edwards Hall.

Nursing and architecture faculty and students worked together for three years to design the space needs, using current and future technology, for clinical practice, teaching and learning. The result is a state-of-the-art learning environment designed by Pazdan-Smith Group Architects of Greenville. The objectives included design of an on-campus research site for architecture students to study health-care sites and their impact on patient health. Clemson has one of only two master’s programs in health and architecture in the country.

A long corridor runs through the middle of the CLRC, separating the Clinical Learning Center on one side from the Learning Resource Center on the other. The Clinical Learning Center sports three bays that are set up like hospital rooms. Each bay has four complete Hill-Rom hospital beds, one of which includes a patient simulator. The rooms include basins, fully supplied cabinets and those rolling bed trays that only nurses ever seem to master. The Clinical Learning Center also has meeting space and a smart classroom. The facility includes video monitors that allow students to review their own performance.

The other side of the hallway, the Learning Resource Center, includes a computer lab, open meeting space for small classes, soundproof rooms for small groups, media resources and the office of Michelle Marchesse, director of the CLRC.

The mix of hands-on practice, professional interaction and digital resources gives students a rich learning experience, according to Marchesse.

“The CLRC will help us produce a group of highly diversified, qualified and knowledgeable health-care professionals,” says Marchesse. “Our students will be ready to enter the work force with confidence. They will be prepared to shape and influence the evolving trends in the health-care community.”

For more on Clemson’s School of Nursing in the College of Health, Education and Human Development, visit the Web at www.hehd.clemson.edu/nursing.

Special thanks to Ed ’47 and Birdie Proctor and Bettye Cecil for their major support in making the Clinical Learning and Research Center possible and to Don Shirley for Hill-Rom’s generous donation of health-care provider furniture.
Honoring Clemson Heroes

In honor of Clemson’s military heritage, the Clemson Corps pays special tribute to the lives, sacrifice and patriotism of Clemson men who have received the highest awards that can be bestowed upon individuals serving in the U.S. Armed Services.

To keep our strong military tradition alive, use the envelope in this magazine or make a secure online contribution at www.clemson.edu/isupportcu for the Clemson Corps Scholarship Endowment.

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Air Force Major Rudolf Anderson Jr. ’48 was shot down while flying a reconnaissance mission in a U2 spy plane over Cuba in early October 1962. For his role in the Cuban Missile Crisis, Maj. Anderson was awarded the Distinguished Flying Cross, a Purple Heart, the Air Force Cross and the Distinguished Service Medal.

For valor in action against an enemy force …

… near Montbrehain, France, 8 October 1918

Gary Evans Foster, Class of 1916
Sergeant, U.S. Army

… on Namur Island, Kwajalein Atoll, Marshall Islands, 1 and 2 February 1944

Aquilla James Dyess, Class of 1931
Lieutenant Colonel, U.S. Marine Corps Reserve

… aboard the U.S.S. Cristabel on 21 May 1918

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The Artful Gardener

Within the serene, petite form of Elizabeth Belser Fuller is an artistic dynamo.

Fortunately for the University and the state, much of the artist’s energy has gone into the S.C. Botanical Garden at Clemson.

A native of Columbia and magna cum laude graduate of the University of South Carolina, Mrs. Fuller had already made many cultural contributions before she came to the Upstate — as both a visual and dramatic artist.

After marrying Lt. Col. Willis Fuller in 1954 and moving to Anderson, she became a vital part of the Upstate art community through the Anderson Art Association, the Blue Ridge Art Association, the S.C. Water Color Society and many related activities.

In the early 1980s, she began volunteering at the S.C. Botanical Garden, then known as the Clemson Horticultural Gardens. Her service to the garden has ranged from pulling weeds to creating beautiful floral paintings to be sold for the garden’s benefit.

She’s made many other contributions to the garden, including a gift to establish the William Gordon Belser Nature Trail to honor her father, whom she credits with instilling in her the love of wildflowers. And just as her works range from delicate watercolor studies to vivid acrylic landscapes, her methods of support are creative and varied. But she’s quick to tell you, “I’ve gained much more than I’ve given.

“I want so much for others to come and enjoy the garden,” she says, “to experience for themselves its color, beauty, wildlife and serenity.”

The energy and grace of this artist are evident at the Elizabeth Belser Fuller Reflection Pool and in the Elizabeth Belser Fuller Art Gallery in the garden’s Discovery Center.

But perhaps her greatest contribution is in nurturing the garden as a living work of art, encouraging the people who work there and, all the while, setting a quiet example of the ageless artful gardener.

The S.C. Botanical Garden covers 295 acres of cultivated landscapes and natural woodlands. It’s home to the Fran Hanson Discovery Center, the Campbell Geology Museum, the nation’s largest nature-based sculpture collection and an array of other treasures. For more information, visit the Web at www.clemson.edu/scbg. 
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Two Distinctly Different, Highly Refined Waterfront Communities

Beautifully accented with stone and shake siding, Campden Sound takes you back to Chipping Campden in England’s elite Cotswolds district. When completed, this upscale community will feature generously appointed 3-bedroom town homes with lofts and covered boat tie-ups hugging the northern shore of Lake Hartwell. All within a mile and a half of downtown Clemson.

For a more relaxed atmosphere we suggest Hammock Bay. Just as elegant and a bit more secluded, Hammock Bay echoes the quaint old world craftsman style. Perched on a small knoll, this town home community will look out over Lake Hartwell and feature boat tie-ups. Here, you’ll find the same distinct stone and shake exterior as Campden Sound, in a more informal setting. All just two miles from Clemson.

For more information on Campden Sound or Hammock Bay, contact Susie Kohout, Realtor at 864-303-8070, Tracie Matthews, Realtor at 864-643-6323, or our office at 864-654-2200. Or visit us at www.tomwinkopp.com

For a limited time, every townhome sold in Campden Sound and Hammock Bay means a donation to Clemson University’s Athletic Department. Thanks to your support, Tom Winkopp Realtor/Developer, LLC will be making a significant financial contribution to the Westzone Initiative and IPTAY.
From dirt tracks to Manhattan streets, from a tsunami-ravaged village to deep space, Clemson students and faculty hit the road for hands-on learning during summer break.
Running with the bull

Make that ‘off-road racing with Red Bull.’ Mechanical engineering major Brandon Smith of Charlotte, N.C., spent a summer internship with the pros working for Red Bull driver Steve Barlow in the Championship Off Road Racing series (CORR).

When Smith enrolled in Clemson, he already had impressive automotive engineering experience — an internship with Hendrick Motorsports as a high school senior. Last spring, as a freshman, he applied for and won the ‘Summer of Dirt’ internship with Steve Barlow for the CORR series. In late May, he began traveling with the Barlow Motorsports team to sites in Michigan, Wisconsin, Kansas and other states. After observing a few races, he began working side-by-side with some of the top mechanics and fabricators in off-road truck racing.

Brandon followed his father, Michael O. Smith ’79, M ’83, in both his interest in engineering and his choice of Clemson. He hopes that hands-on experience combined with his Clemson education will lead to a job in designing race cars and trucks or in the performance parts industry.

Smith’s appearance on MTV-U added to the excitement of his off-road racing with Red Bull. In August he was featured on the collegiate affiliate of the parent MTV network, in ‘My Favorite Summer Internship,’ a segment on the summer’s hottest U.S. internships.

TigerAid to Thailand

When communication students first met for Doreen Geddes’ intercultural communication class in January 2005, they didn’t know they’d be organizing a concert, raising funds for Habitat for Humanity International and possibly traveling to Thailand to help rebuild a village. In fact, they had no idea that their class could have any real international impact.

What they did know was that a catastrophic tsunami had struck Southeast Asia the month before, killing thousands and leaving thousands more homeless. When Geddes asked her students what they wanted to do for their class project, they suggested tsunami relief.

Clemson students have long had a strong relationship with Habitat for Humanity, so teaming up with Habitat for Humanity International was easy. But raising the money was not.

The communication students created a new campus organization, TigerAid, and formed teams to raise funds. Their largest project was a spring concert at the ESSO Club in conjunction with a Clemson- USC baseball game. They selected and signed up the bands, handled publicity, solicited donations and managed the event from start to finish.

Through the concert and other projects, students in TigerAid raised enough funds to build three houses with Habitat for Humanity International.

During the summer, Geddes and two of those students — Jenny Case and Margaret Smith — traveled to Thailand and the seaside village of Khao Lak, where relief agencies were working. There, the trio joined volunteers from around the world in an ‘intercultural communication’ experience of a lifetime.
Deep space

Millions of people gaze into the skies, but only a few of the world's astronomers have the technology and opportunity to look into deep space.

Last summer, physics and astronomy graduate student Abigail Daane got the chance to peer into the Milky Way using Keck One, the world's largest optical telescope.

The previous fall, she submitted a proposal for a competition to become one of a select group of scientists allowed to use the Keck. The $140 million observatory is owned and operated by the University of Hawaii, University of California schools and California Institute of Technology. Usually, only affiliated scientists have access to its powerful equipment.

Daane's research focuses on 'blue stragglers,' a curious group of young stars thought to be formed when stellar bodies collide in the dense regions of star clusters.

Her winning proposal, written with the help of her adviser, Jeremy King, involved using light spectroscopy to help prove a theory that the blue stragglers are actually two stars locked close by gravity. One star gobbles the energy of the other and, with the additional fuel, burns blue. The tests she devised help her study patterns of energy among the celestial bodies.

During the summer, she traveled to the base of a dormant volcano in Hawaii, where the observatory headquarters is located. Keck's operators at the 14,000-foot peak positioned the 10-meter telescope toward a cluster in the Milky Way called M71, where a particular group of blue stragglers resides.

She also earned another rare opportunity. In September, she traveled to Chile to collect more data using the 6.5-meter Magellan telescope.
Manhattan confidential

As Clemson architecture professors wrapped up an innovative New York City project, they offered a once-in-a-lifetime opportunity for Clemson students.

Four years earlier, the professors — husband-and-wife team Douglas Hecker and Martha Skinner — collected footage of Broadway Street, which runs the entire length of Manhattan. They walked its complete length and mapped it with an audio-video digital camera along the way.

The resulting video — “NY A/V” — captured Broadway Street from sunrise to sunset, over a seven-day period, while moving from the south end of the street to the north end.

The team returned to Manhattan last summer for the final stage of the project, a seven-day showing of footage in different parks along Broadway, giving Manhattan residents a “time warp” map of their city.

The video was displayed within a “container” — a customized paneled truck bed that was inscribed with information about the city. Pedestrians who entered the viewing area found themselves in a three-dimensional document of their daily lives.

Students Emily Cox, Cliff Hammonds, Natalie Gauly and Nick Kuntzi, alumni Julie Garst ’03 and Cleve Walker ’04 as well as others participated in research, design and construction phases of the project. Hecker and Skinner’s family members also helped out. Consolidated Southern Industries of Anderson provided design solutions for the container and the Clemson Communications Center helped edit video footage. The project was supported by grants from Clemson and the University of Michigan.

The project was so successful that it’s been presented at two international conferences — in Mexico City and Helsinki, Finland — and at Ospedale degli Innocenti and at Stazione Leopolda as part of the 7th International Festival of Architecture in Video. It has also appeared at Cornell University, Syracuse University and California Polytechnic.
Alumni Fellow — Nate Spells ’72

The Alumni Association honors four alumni each year for outstanding career accomplishments.

Nathaniel “Nate” Spells Sr. began a career in construction after earning his bachelor’s degree in building construction in 1972, making him the first African American to earn that degree at Clemson. After working for some of the best firms across the nation, Spells started his own company in 1987.

Today, Construction Dynamics Inc. (CDI) is one of the Southeast’s leading minority-owned and -operated general contracting and construction management firms. The firm is headquartered in Columbia with a second office in Charleston, and clients include colleges, school districts, municipalities, military installations and churches.

Throughout his career, Spells has received numerous awards including the BB&T Trailblazer Award and Columbia's Visionary Service Award. He is a trustee at Brookland Baptist Church and serves as a board member for the Juvenile Diabetes Association and S.C. Community Bank. He’s also a member of Construction Management Association of America, the Associated General Contractors of America, the Council for Educational Facility Planners and Omega Psi Phi Fraternity.

Spells is married to Marilyn Scott and has one son, Nathaniel Jr.

To see past Alumni Fellow recipients or to nominate someone for a future award, visit the Web at alumni.clemson.edu.

CBAC leader

Industrial engineering alumnus Kevin B. White ’92 of Charlotte, N.C., is the new president of Clemson Black Alumni Council (CBAC). White is married to education alumna Wendy Winborn ’93, M ’95, and they are parents of Kendall Peyton.

White has served as a Programs for Educational Enrichment and Retention mentor, vice president of the Clemson NAACP chapter and a Charlotte CBAC board member.

“One Mind, One Spirit, One Clemson is the theme that the Alumni Association has adopted,” says White. “By focusing on increasing membership, recruitment, scholarship and networking, CBAC wants to ensure that all current African American students and alumni take full advantage of the Clemson experience.”

That’s the ticket

Clemson Fund supporters Berry ’74 and Julie Garrett of Fountain Inn won Clemson vs. Texas A&M football tickets in the Clemson World drawing in August. Brent Hutto and Ruthie P. Saunders ’74 won tickets for the Clemson vs. Boston College football game in the September drawing.

The next opportunity for Clemson Fund supporters to win tickets is for the Clemson vs. UNC men’s basketball game. To be eligible, make a gift through the envelope in this issue.

Women’s Alumni Council

New leaders for Clemson Women’s Alumni Council are pictured from left, front row, Andrea MacMeccan ’99, M ’00, Myra Morant ’05, First Lady Marcia Barker, Kathy Rukat ’00, Catherine Davis ’95, Anne Roberts ’90; middle row, Gayle Price ’71, M ’73, Tricia Moak ’02, Jennifer Graham ’97, Kim Younghans ’93, Heather Byrd ’99, Christine Varadi ’99; and back row, Vinicie Albritton ’84, Beth Davis ’92, Alanda Groover ’03, Elizabeth Milhous ’97, M ’99, Jessie Hood ’94, Jamie Young ’99, M ’02.

The council sponsors events for Clemson women graduates and promotes the Women’s Alumni Council Scholarship Endowment. For more information, call (864) 656-2345 or go online at alumni.clemson.edu and click on “clubs, societies and councils.”
Cruising

Clemson travelers joined President and Mrs. Barker on a summer cruise of the Greek Isles as part of the Alumni Association’s PASSPORT Travel program. In addition to great company, they experienced Greek culture and history ranging from the famous ruins of Athens to the sunny orchards of Corfu.

PASSPORT Travel adventures for the coming year include a Spanish land trip based in Ronda and cruises of the Amazon River, Western Europe, Scandinavia, the Blue Danube and the Great Lakes. For more information, call (864) 656-2345 or go online at alumni.clemson.edu and click on “programs and services.”

Still marching

Clemson Alumni Senior Platoon members helped celebrate Military Appreciation Day during the halftime of the Clemson vs. Texas A&M game. The alumni group is made up of past members of the Senior Platoon, Clemson’s elite precision drill team that performed from the early 1930s to the early 1960s. Pictured from left are William Bellamy ’54, Jim Duffy ’54, Carl Bishop ’54 and Sanford Smith ’55.

YA stays connected

Clemson Young Alumni representatives combined business and pleasure during a football weekend meeting on campus in September. Pictured from left are Shannon ’98 and Allison Carter ’01, Ben Smith ’99 (YA president), Kelly Bratcher ’99, Lauren Hoffman ’02, Keith Moore ’97, Chris Seamands ’95, Aric Smarra ’89 and Amy Jennings ’99.
Welcome Back

Clemson’s new school year couldn’t officially begin without the annual Welcome Back Festival when new and returning students jam pack College Avenue in downtown Clemson.

The welcome tradition is sponsored by Student Alumni Council (SAC) and Clemson Alumni Association with support from the city of Clemson and area businesses. Proceeds go to the SAC Endowment Fund, which helps finance scholarships.

Pictured from left are SAC members Stephanie Carroll, Catharine Lashley, Charlie Walls, Courtney Gault, Brandon Shimer and Matt Kesser.

Freshman banner

New students sign the 2005 Freshman Banner on the lawn of the President’s home as part of the school year kickoff. They also picnicked with the Barkers and Tiger Band before the Welcome Back Festival.

On the bridge

Clemson students — from left, Alan Maglione, Mary Kathleen Weeks, Rachel Harrison and David Duncan — try out the new Arthur Ravenel Jr. Bridge in Charleston. They joined other walkers in July when the bridge opened for pedestrian traffic. Many Clemson graduates were involved in the design and construction of the bridge. (For more on Clemson’s alumni involvement with the new bridge, visit the Web at cworld.clemson.edu/past/archive.htm and click on 2005 spring.)

Service house

Clemson students mentor and tutor local youth, help the elderly and disadvantaged, work alongside future homeowners with Habitat for Humanity and are active members in many service-oriented organizations. Now, students can live together in a service-oriented environment, the Civics and Service House, located in the Clemson House.

This fall, 27 students with a proven record of community service, along with planned projects and other qualifications, are sharing a living and learning community.

Clemson is one of 81 institutions in 33 states — the only one in South Carolina — that The Princeton Review featured in its 2005 Colleges with a Conscience: 81 Great Schools with Outstanding Community Involvement.

NASA teacher institute

Education students recently completed the Pre-Service Teacher Institute (PSTI) at NASA’s Stennis Space Center near Bay St. Louis, Miss. NASA’s PSTI is an intensive two-week summer residential session for early childhood and elementary education majors.

Pictured among students from across the country are Clemson elementary education majors Glenn Stanton (back row, fourth from left) and Evurette Davis (back row, third from right). Stanton received the outstanding award for both math and science, and Davis received the outstanding award for technology. They are members of Call Me MISTER®, a program to recruit, train, certify and secure employment for African American men as teachers in S.C. public elementary schools. Amos Valentine of S.C. State (pictured between Stanton and Davis) and William Dobbs of Claflin (back row, far right) are also MISTERs.
**Summer in D.C.**


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**Aussie flight**

Clemson National Scholar Michelle Malecha got a bird's-eye view of Australia during her study abroad experience last year. The National Scholars Program provides an extraordinary group of students with a premier educational experience. For more about National Scholars or Clemson's Calhoun Honors College, visit the Web at [www.clemson.edu/cuhonors](http://www.clemson.edu/cuhonors).

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**New stripes for Tiger Band**

“The Band That Shakes the Southland” has shaken off its old stripes for new ones during the 2005 football season. For the first time in the band's history, the uniform has all the school colors — purple, white and, of course, “Clemson Orange.” Pictured from left are drum majors Suzanne Weaver, Leroy Cooper and Benjamin Beaver.

The front of the uniform jacket has two looks. The first option is the West Point style, which pays tribute to Clemson's rich military heritage. The second is a mostly purple front with Tiger claw slashes and “Clemson” embroidered across the chest. Purple trousers and an orange shako (hat) with a Tiger Paw complete the uniform.

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**Tree talk**

Kati Bellamy of Loris gets an up-close and personal look at careers related to urban tree care and management.

She was among high school students from across the state taking part in the S.C. Commissioner's School for Agriculture at Clemson, a summer program that promotes the scientific world of agriculture and the career possibilities within agriculture and natural resources. Students got “hands-on/hands-in” experience in food science, packaging science, horticulture, turfgrass, animal sciences, aquaculture, forestry and natural resources. For more information about the program, contact Katie Hulse at (864) 656-6662 or hulse@clemson.edu.

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**Scoreboard Tiger**

Clemson digital production arts (DPA) students scored big during football season with their giant animated Tiger, named “T.G. the Tiger” after Thomas Green Clemson. Led by John Kundert-Gibbs, DPA director, students spent their summer creating the lively, barrel-chested Tiger to grace the new east end-zone scoreboard for Clemson home games.

The project included design drawings with approval from athletics, modeling, texturing, rigging the character for motion, motion capture for some of the animation, hand animation and rendering out the final images. DPA students are now working on a special version of T.G. for the University's Web site.

For more about Clemson’s digital production arts program, visit the Web at [www.fx.clemson.edu/dpa](http://www.fx.clemson.edu/dpa).
Taking the leap
LaVern Pyles Jr. ’43

Vern Pyles of Fayetteville, Pa., celebrated his 86th birthday with an adrenaline rush when he jumped out of a plane at 14,000 feet. Pyles (bottom) and instructor Bill Culver are freefalling here at 120 mph. The retired Navy officer is a veteran of three wars, former state legislator, father of six and grandfather of five.

He became fascinated with flying at the age of 12 after he joined his WWI Army Air Corps veteran father in a Tri-Motor Ford aircraft sightseeing flight over Washington, D.C., his hometown, and Mount Vernon.

Since then he has been on a glider ride, a parasail ride and up in a hot air balloon. And now, he’s been skydiving with his Tiger Rag for good luck.

Traffic
John C. Pinckney ’49

Agricultural engineering graduate John C. Pinckney has seen a lot of changes on U.S. 278, the only artery to Hilton Head Island. In fact, he can recall when it wasn’t even paved, much less a highway.

Pinckney has watched “progress” through the years both as a native and resident of Bluffton and, for the last nine years, as a member of the Southern Beaufort County Corridor Review Board. He recently received a certificate of appreciation from the board for his “historic perspective,” among many other contributions.

Pinckney joined the military after graduation, then farmed and worked for the Army Corps of Engineers from 1972-1990. He also served in the Army Reserve, retiring as a colonel. He served on the review board from 1996 until his retirement this year.

1956
William J. Purvis (TMFG) of Dalton, Ga., and wife, Melva, celebrated their golden wedding anniversary. Robert M. Ashmore (’55 TE) and his wife, Eleanor, were on hand for the celebration just as they were 50 years ago, when they served as best man and maid of honor at the wedding held in Greenville.

1962
James O. Bryant Jr. (CHE, PhD ’72 ESE) retired as associate dean of engineering for interdisciplinary programs, Samuel Ginn College of Engineering at Auburn University. He has moved back to Clemson.

Robert F. Dansby Jr. (EE) of North Augusta retired from International Paper Co. Inc.

1967
Oscar N. Vick III (INED M ’70) of Charleston recently published his 55th cookbook on Southern cuisine. He’s the owner of OSCARVICK.com, the international retail outlet for his books and artwork.

1969
*J. Glenn Cantrell (ECON) of Greenville was named senior vice president and area president of SunTrust Bank for the Anderson area. He serves on the boards of directors for several Anderson organizations.

Pat Davenport Seawright (SED, M ’75 ADMSPV) of Belton, an English instructor and coordinator of the Writing Center at Tri-County Technical College in Pendleton, is the recipient of the 2005 Adjunct Faculty Presidential Award.

Guy E. Slagle (CE, M ’70 ESE) of Florence, a senior vice president with HSMM, has been elected for a three-year term to the firm’s board of directors.

Robert J. Wordinger (M DYSC, PhD ’72 ANPH) of Euless, Pa., a professor in the cell biology and genetics department at the University of North Texas Health Science Center at Forth Worth, is department chairman in the Graduate School of Biomedical Sciences. He holds two U.S. patents and one international patent for his research on the treatment of glaucoma.

1970
H. Clyde Odom Jr. (PhD CH) of Saluda, N.C., retired from Charleston Southern University.

1972
Daniel W.R. Moore (PSYCH, M ’75 ADMSPV) of North Myrtle Beach is president of DM Development Co. Inc. and vice chairman of Coastal Carolina University’s board of trustees for 2005-06.
Sound advice
Edward T. Samulski ’65

Secretary of State Condoleezza Rice recently introduced textile chemistry graduate Edward T. Samulski (pictured far right) of Chapel Hill, N.C., as the new Jefferson Science Fellow. Samulski, who holds a Ph.D. from Princeton, is a chemistry professor at the University of North Carolina.

A Jefferson Fellow offers science-related advice to the U.S. Department of State and is selected for achievements and abilities to describe scientific topics for nonscientific audiences, among other qualifications. Former Secretary of State Colin L. Powell established the program in 2003 to help elevate the role of science and technology in U.S. foreign policy.

Samulski’s major research interests are the structure and dynamics of soft materials such as liquid crystals and elastic polymers. He’s co-director of the multi-university NASA Institute on Biologically Inspired Materials that works to create new materials to revolutionize civil aviation and space travel.

Changing command
Wade H. McManus Jr. ’71

Science teaching graduate Hamp McManus retired last year from the U.S. Army as a major general. Earlier this year he took on a new title and duty as a vice president for Northrop Grumman Mission Systems in Chester, Va.

McManus earned a master’s degree in logistics management at Florida Institute of Technology and advanced his military schooling through a series of specialized courses and study at the Army Command and General Staff College and the Industrial College of the Armed Forces.

McManus served in the Army at home and abroad for almost 34 years. His awards include the Distinguished Service Medal, Defense Superior Service Medal, Legion of Merit, Bronze Star Medal, Meritorious Service Medal, Army Commendation Medal, Army Achievement Medal, Armed Forces Expeditionary Medal, United Nations Somalia Operations Medal, Ranger Tab and Republic of Korea Chunsoo Medal.

He now serves as Northrop Grumman Corp.’s vice president for strategic logistics, Tactical Systems Division.
for Computer Sciences Corp., serving the U.S. Army Biometrics Fusion Center in Clarksburg.

1976
Elizabeth Anne Burdette Carden (RPA) of Cedar Mountain, N.C., has owned a business, Blue Ridge Specialties, in Hendersonville with her husband for 18 years. She's president of the Brevard/Transylvania Chamber of Commerce and director of the Transylvania Tourism Development Authority. She graduated from the management program at the Institute of Organizational Management.

1977
W. Melvin Steedly (EE) of Hudson, Ohio, is director of helicopter flight operations at Precision Helicopter Services in Cleveland.

1978
J. Scott Andrew (ADMMGT) of Mooresville, N.C., has joined Preferred Financial Strategies as an investment adviser representative.

T. Eugene Pitts (EE, M ’81) of Beaverton, Ore., is director of Server Platforms Technical Marketing.

1980
Steve M. Felch (RPA) of Manassas, Va., is a senior project manager with the U.S. Geological Survey, U.S. Department of the Interior, and is responsible for Biological Research Center enhancements and deferred maintenance projects nationwide.

John Manning Horton (POSC) of Orlando, Fla., is special programs development manager at Walt Disney Parks and Resorts.

Deborah Kinard Neal (ECHED) of Kiawah Island is Teacher of the Year for Windsor Hill Elementary School 2005-06 and Dorchester District 2 Honor Teacher for 2005-06. She also won first place in mixed media both at the Folly Beach Annual Art Show and the Annual North Charleston Art Show.

1981
Joseph S. (AGRON) and Karen Fogle (ELED) Gaston are living in Greer. He's associate pastor at John Knox Presbyterian Church in Greenville.

Richard E. Hunton Jr. (MICRO) of Columbia graduated from the Naval Postgraduate School in Monterey, Calif., with a master's degree in security studies, homeland security and defense. He was awarded the Curtis H. “Butch” Straub Award for outstanding academic achievement and leadership skills.

Anne Lewis Sale (FINMGT) of Brentwood, Tenn., owns and operates The Good Cup, a coffee shop in Franklin.

George C. Sharpe Jr. (ME) of Holly Springs, N.C., is director of business development with Lord, Aeck & Sargent Architecture.

1983
Dino M. Lancianese (ADMMGT) of Lexington, Ky., is president of New Century Healthcare Advisors.

Flying Tigers
H. Eric ’76 and W. Eric ’02 Seymore
W. Eric Seymore (right) of Easley, an agricultural economics graduate and second lieutenant in the S.C. National Guard, received his Army Aviation Wings in a ceremony held at the Army Aviation Museum at Fort Rucker, Ala., last May. He’ll fly Apache helicopters with 1st/151st Aviation BN.

Pictured with him is his father, H. Eric, who graduated from Clemson with a secondary education-history degree. He served in Vietnam and has flown for the Army and the S.C. Army National Guard for more than 35 years. H. Eric’s other son, Andrew, will be the third Clemson alumnus in the family when he graduates in December.

MDA achievement
Angelo Sciulli M ’78
Chemistry graduate Angelo Sciulli of Lancaster received the Muscular Dystrophy Association’s (MDA) 2005 Personal Achievement Award for South Carolina. The national awards program recognizes the accomplishments and community service of people with disabilities caused by any of the over 40 neuromuscular diseases in MDA’s program.

Sciulli retired from Springs Industries in 1997 to pursue a career as a wildlife photographer and writer. A year later he was diagnosed with amyotrophic lateral sclerosis (ALS), also known as Lou Gehrig’s disease. He now publishes his photos exclusively to raise awareness for ALS and other disabilities.

His work has appeared in Nature Photographer Magazine, Sandlapper, Clemson World and other magazines, and it has been exhibited at the National Press Club and the International Photography Hall of Fame and Museum. Sciulli has images on display in his traveling exhibit “Challenging Nature Photography,” and his book by the same title narrates his travel experiences and the challenges faced.

For more on Sciulli’s work, visit the Web at www.scnature.com.
**Service supreme**

**Renee Prange Keese ’82, M ’86, PhD ’93**

Research and development scientist Renee Keese of Carmel, Ind., was recently honored with the National Agricultural Alumni and Development Association’s (NAADA) Jane Longley-Cook Volunteer Service Award.

Keese, who holds Clemson degrees in horticulture, agronomy and plant physiology, has a long history of service to her profession and to her alma mater. She's had an outstanding career with DowElanco, Dow AgroSciences and Syngenta Crop Protection. At Clemson, she’s served as a district director for alumni of the College of Agriculture, Forestry and Life Sciences. She’s also alumni contact for the state of Indiana. She and her husband, Larry, a 1981 administrative management graduate, assisted in the development of a scholarship fund that later became the Alpha Phi Omega/J. Lawrence and Renee P. Keese Endowment. The scholarship currently provides two awards of $1,400 each for students who have distinguished records of volunteerism and community service.

She also received a 2000 Distinguished Service Award, the Clemson Alumni Association’s highest award.

O. Thomas Rivers (CRD) of Anderson is business development manager for the Irritrol Systems brand of The Toro Co.

Michael L. Sleaford (FINMTG) of Mount Dora, Fla., president and CEO of Colonial Bank of Central Florida, completed the American Bankers Association's national graduate school for bank executives at the Storier Graduate School of Banking in Washington, D.C.

**Mr. Chairman**

**Dan T. Cooper ’84**

Rep. Dan Cooper of Piedmont, a community and economic development graduate, is the new chairman of the S.C. House Ways and Means Committee, one of the most powerful committees in the state House of Representatives.

First elected in 1990 to District 10’s House seat, Cooper quickly gained a strong reputation for his fiscal responsibility and political savvy. He rose through the ranks, serving on the Ways and Means Committee for nine years and as first vice chairman for the past three years. He replaces Rep. Bobby Harrell, who recently became speaker of the House when former Speaker David Wilkins ’68 was named ambassador to Canada by President George W. Bush.

As Ways and Means chairman, Cooper will sit on the state Budget and Control Board, the group responsible for managing state government. He’s also a member of the Joint Bond Review Committee, which approves all state permanent-improvement projects.

Prior to his election to the House, Cooper served as a planner for the S.C. Water Resources Commission with the Strom Thurmond Institute at Clemson.

Vice president of sales for Capstone Insurance Services, he’s also actively involved on the Freedom Weekend Aloft board of directors and the Hunley Commission. Cooper is the son of longtime S.C. House member Milford J. “Dolly” Cooper, who represented the same district for 16 years.
Banking on success
Samuel L. Erwin '90
Financial management graduate Sam Erwin is the S.C. Bankers Association's (SCBA) 2005 Outstanding Young Banker, the most prestigious honor in the state's banking industry. He's currently the CEO of Community Bankshares Inc. in Orangeburg.

Erwin began his banking career at First Union National Bank (now Wachovia). He also worked with First National Bank (now South Carolina Bank and Trust) and Carolina National Bank.

Erwin, who serves on the SCBA Young Bankers Division board of directors, was recognized in 2004 as one of The State newspaper's "Top 20 under 40."

Kimberly Summers Ward (MATH, M '92 ADMSPV) of Callawassie Island completed seven years of service on the board of directors for Cross Episcopal School where she was a founding director.

Ernest R. Holloway III (ENGL) of Pitman, N.J., received a Ph.D. from Westminster Theological Seminary.

Jara Bolinger Jones (M ARCH) of Greer joined Pazdan-Smith Group Architects Inc. as a member of their Urban Architecture Studio.

Dean B. (ACCT) and Kirsten K. (PRTM) Dunton are living in Fayetteville, Ga. He's general manager of Trimble Logistics in Ellenwood.

Jean Styron (M ADMSPV) and Mike S. ('93 ME) Grumbles of Mooresville, N.C., are subfranchisers for Exit Realty International for Tennessee.

Sam C. (ENGL) and Tracy Steele (ACCT) Hanzlik are living in Harrison, Tenn. He's a mortgage broker for Absolute Mortgage Inc. in Chattanooga and has published his first novel, The Letters, through ASH Books Inc. It's available at www.readtheletters.com.

Daniel G. (TMGT) and Anne Jaeger (M '97 SPECED) Malone are living in Concord, N.C. He's director of operations at Carrif Corp., a geotextile manufacturer.

Haralambos D. Mihas (HIST, M '98) of St. Louis, Mo., graduated cum laude from the University of Michigan Law School and is staff attorney at the U.S. Court of Appeals 8th Circuit.

Kimberly Summers Ward (MATH, M '92 ADMSPV) of Callawassie Island completed seven years of service on the board of directors for Cross Episcopal School where she was a founding director.

1990
Kara Kerr Browder (POSC, M '92 CRP) of Charleston is a project coordinator with General Engineering & Environmental LLC, responsible for coordinating land planning and permitting issues with reviewing agencies.

Derek E. Dittner (BLDSC) of Charlotte, N.C., is an associate with the law firm of Kirk Palmer & Thiessen, P.A., practicing in the area of commercial real estate.

Richard T. Herring (DESIGN, M '93 ARCH) of Marietta, Ga., is a principal with the architectural firm Perkins+Will.

Tom E. Merritt (SED-EN, M '92 CNLGUID) of Easley and Mike J. Pereyo ('91 MGT) of Simpsonville are owners of the apparel company oobe Inc., which was selected as national apparel provider for Chick-fil-A Inc.

D. Theron Pickens (CE) of Fort Mill is principal of surveying with LandDesign in Charlotte, N.C.

1991
B. Scott (BLDSC) and Suzanne Beam ('92 PSYCH) Austin are married and living in Acworth, Ga. He's vice president of The Conlan Co., a general contractor in Marietta.

For more information, call Annual Giving at (864) 656-5896.
WISE move

*Serita L. Acker M ’99

Human resource development graduate Serita Acker joined Clemson’s Programs for Educational Enrichment and Retention (PEER) staff 10 years ago. Since then, countless girls who’ve had an interest in science or engineering have benefited from her energy and expertise.

Acker, who earned a bachelor’s degree from Lander University, joined PEER to work with minority engineers.

There she became director of Women in Science and Engineering (WISE). Under her leadership, WISE has expanded to include outreach programs for females from kindergarten through 12th grade as well as current undergraduate female students.

Earlier this year, the Women in Engineering Programs and Advocates Network honored WISE with the 2005 Women in Engineering Initiative Award for the program’s success in attracting and retaining women to science-based majors. Acker was also recognized as the University’s 2005 Outstanding Woman in the classified staff category.

For more about WISE, visit the Web at www.ces.clemson.edu/wise.

‘Women Change America’

Carolyn Risinger Boltin M ’99

Agricultural and applied economics graduate Carolyn Boltin of Goose Creek received the U.S. Department of Defense’s Women Change America award during the 2005 National Women’s History Month.

The U.S. Coast Guard nominated her for the honor as a math, science and engineering role model for women. At the time, she served as chief of the Natural Resource Damage Division of the National Pollution Funds Center in Arlington, Va.

In August, she became deputy commissioner for the Office of Ocean and Coastal Resource Management (OCRM) with the S.C. Department of Health and Environmental Control in Charleston. She now heads the office that is responsible for preserving sensitive and fragile areas while promoting responsible development in the eight coastal counties of South Carolina.

Earlier in her career, Boltin was a researcher with the Strom Thurmond Institute at Clemson where she focused on coastal zone plantations.
**Paw power**

These Clemson graduates — (from left) Jeffery T. Alt ’01, Dolly Arnette ’01, Jennifer “Cole” Albertson Chavis ’95, ’01, Kevin Smith ’98 and (not pictured) Beverly M. Legree ’00 — received their doctor of veterinary medicine degrees from Tuskegee University School of Veterinary Medicine last May.

Reginald J. (CHE, M ’01 BUSADM) and Tameka McRae (SOC, M ’00 HRD) Carpenter are married and living in Greenville.

Mark R. Fisk (CHE) of Spring, Texas, joined Netherland, Sewell & Associates Inc. as a reservoir engineering consultant.

Erin Cannon Gallman (PRTM) of Charleston is with Bank of America Mortgage.

James Blakeley (ME, M ’01) and Jennifer Frank (PSYCH ’01) Long are married and living in Winston-Salem, N.C.

Buffy Head Murphy (PRTM) of Irmo was named District Teacher of the Year 2005-06 in Lexington-Richland District 5. A fifth-grade teacher at Irmo Elementary School, she holds National Board Certification.

LaShonda Toschella Washington (BIOCSL) of Owings Mills, Md., completed her residency in psychiatry at Tulane University and will start a fellowship in child and adolescent psychiatry at the University of Maryland Medical Center.

Jason D. Wilson (PKGCS) is married and living in Greenwood.

Class ring found — A Clemson Class of 1999 ring has been found. Please contact Randy Boatwright if you think this may be your ring. Call (864) 656-2345 or email brandoll@clemson.edu.

Damon D. Barker (FINMGT) of Powder Springs, Ga., is vice president of sales for SurgiSource, a medical distribution company in Marietta.

Austin E. Bond (MICRO) of Florence is director of children and youth ministries at Trinity United Methodist Church in Darlington, after a year interning at Dolly Parton’s Dixie Stampede Dinner & Show in Myrtle Beach.

William A. Jr. (PSYCH) and Shelley Spangler (’02 P-PST) Misiaveg are married and living in Charlotte, N.C.

Jim B. Smith (MKTG) of Little River is president of Sandhills Bank in North Myrtle Beach.

Kelly VanderVeen (HLTHSC) of Morristown, N.J., received a master's degree in nutrition from the College of St. Elizabeth.

**1997**

**Dave D. Baker** (ENGL) of New Orleans, La., is lead singer of rock ‘n’ roll band The Band that Fell to the Earth. The group was selected to participate in the N.Y. International Music Festival in Las Vegas. For more on the band, go to www.FellToEarth.com.

Nancy Click Hehmann (NURS) is married and living in Greer.

Stacey LeVelle Lee (BIOCH) of Memphis, Tenn., is in the FedEx Express training-with-industry program.

Jerome M. (SP&COMM) and **Heather Shivers ’98 MATCH** Robinson are married and living in Loganville, Ga.

Nitin Gajan Shanbhag (IE) of Charlotte, N.C., is the global product manager for Industrial Rotary Compressors with Ingersoll-Rand Air Solutions.

**1998**

Matthew D. Cannon (HLTHSC) of Mauldin earned his doctor of osteopathic medicine degree from the West Virginia School of Osteopathic Medicine. He was awarded the Southern Medical Association Scholarship, named Student Doctor of the Year and was a member of Sigma Sigma Phi honor service fraternity.

Matthew T. Carmody (CE) of Irvington, N.Y., is an associate at Eng-Wong, Taub & Associates, traffic and transportation consultants.

**1999**

Class ring found — A Clemson Class of 1999 ring has been found. Please contact Randy Boatwright if you think this may be your ring. Call (864) 656-2345 or email brandoll@clemson.edu.

Hesha Nesbitt (CE, M ’01) and Jason J. (CE) Gamble are married and living in Simpsonville.

Conrad M. Rathmann (M ARCH) of Savannah, Ga., is an architect professor at Savannah College of Art and Design. He presented “Body and Architecture: Explorations from Composition to Theory Driven Space” to the 21st National Conference on the Beginning Design Student at the University of Texas-San Antonio.

Mindy West Sandifer (AGED, M ’03) of Barnwell, a teacher at the Barnwell County Career Center, was named the Outstanding Young Agricultural Educator in South Carolina by the S.C. Agricultural Educators Association.

**2000**

* Trevor J. Benton (GEOL) of Greenville, a South Carolina-registered professional geologist, works for Bunnell-Lammons Engineering Inc.

Carolyn Schultz Costentino (L&IT) of Columbia, Md., is a Spanish teacher at Magruder High School in Rockville.

Ginger Hardin Friesen (MKTG) of Orlando, Fla., is a media buyer for PUSH, a full-service branding agency.

**2001**

Katie McGinnis Davenport (MICRO) of Greenwood is married and working at Greenwood Genetic Center.

Wesley W. III (EE) and Cynthia Tallent (’02 BIOCSL) Lawton of James Island are married. She’s a medical student at the Medical University of South Carolina.

Allison Cartee (ENGL) and Bryan L. (’02 MGT) Mills are married and living in Summerville. She graduated with a master's degree in English education from Teachers College, Columbia University, and he graduated with a J.D. from Columbia Law School.
The Clemson Family

John D. Ray (ACCT) of Columbia received a J.D. from the University of South Carolina School of Law.

Jennifer Nice Silitsky (PSYCH) is married and living in Canton, Ga.

*Ashleigh Foard Streeter (SP&COMM) of Clemson is a development officer for the University’s Division of Student Affairs.

2002
Benjamin J. (POSC) and Katharine Saggiotes (’03 POSC) Boling are married and living in Columbia.

Ji Eun “Jenny” Chung (COMPSCI) and Kenny (’03 COMPSC) Choi are married and living in Charleston. She attends the Medical University of South Carolina School of Pharmacy, and he’s a computer programmer at DCS Inc. on Daniel Island.

Samuel D. (PRMT) and Lindsay Myers (’04 ECHED) Head are married and living in Irmo.

Claire King (GRCOMM) and William A. (MKTG) Rutledge are married and living in Simpsonville.

Gena Guerzon Ryan (PSYCH) is married and living in Fort Myers, Fla.

Amy Costello (GRCOMM) and Josh A. (GRCOMM) Sweat are married and living in Annapolis, Md.

*W. Marion Wilson (FINMGT) of Atlanta, Ga., attends the Emory University School of Law. He’s executive managing editor of the Emory Bankruptcy Developments Journal and will be published in its Spring 2006 edition.

2003
Mary Katherine Brock (BIOCH) of Auburn, Ala., is working on a Ph.D. in integrated textiles and apparel science and an MBA at Auburn University.

Linda S. Caldwell (BIOLOGY) of Summerville is an environmental scientist for General Engineering & Environmental, LLC, specializing in geographic information systems and data management.

Brian R. (CPENG, M ’04) and Nicole Weatherby (PSYCH) Crouse are married and living in Madison, Wis.

Laura C. Dunn (POSC, M ’05 PROCOM) of Gainesville, Fla., received a master’s degree in mass communication from the University of Florida and is studying American government and politics in the Ph.D. program.

Jessica Bush (SP&COMM) and Todd E. (’04 MGT) Rigler are married and living in Taylors.

Kevin C. (SP&COMM) and Rachel Slagle (’05 HLTHS) White are married and living in Central. They are both lieutenants in the U.S. Army.

2004
Joshua M. Ogulewicz (ME) of Windsor, Conn., is a project engineer in the Mauldin office of Jacobs Engineering Group Inc.

Greg P. Marcy (ARCH) of Columbia joined The Boudreaux Group as an architectural intern. He’s working on the preliminary design of a sorority house on the University of South Carolina campus.

Andrew A. Provenzano (HIST) of Greer was selected to participate in the Japan Exchange and Teaching Program and will spend one year as an assistant language teacher in Matsuyama, Kagoshima, Japan.

Your class counts
The number of alumni who make a gift every year is a key factor in Clemson’s becoming a top public university. To see how your class is doing, visit the Web at alumni.clemson.edu/projects/update.htm for the latest numbers.
Little Tigers

Bridget Davis '92, M '96 and Mark E. '95 Benjamin, a daughter, Emerson Mildred, May 12, 2005.


Dean B. and Kirsten Kastory Dunton '92, a son, Redford Piercy, April 30, 2003.

Chris A. '92 and Rebecca Sargent '96 Hill, a daughter, Ann-Margaret Elizabeth, May 6, 2005.


B. Patrick Jr. '92, M '93 and Betsy Crocker '93, M '99 Rogers, a son, Bryant Kilpatrick, March 28, 2005.

French M. Smith III '92, a son, Richard Alley, June 22, 2005.

Colleen DeLand and Rick S. Wernsoki '92, a son, Zachary Scott, May 17, 2005.


Edward J. Jr. '93, M '95 and Eliza Pender '94 Foster, a daughter, Abbey Margaret, May 20, 2005.

Douglas Scott Hardy '93, a daughter, Caroline Leigh, June 21, 2005.

Daniel F. '93, M '95 and Amy Armbruster '95 Joy, a son, Daniel Zachary, Jan. 23, 2005.

Catherine Berg Sredzienki '93, a son, Evan Christopher, Sept. 12, 2004.


J. Michael Bitter '94, a son, Andrew Michael, April 15, 2005.


Chad S. Lewis '94, a daughter, Reagan Augusta, April 4, 2005.


Virginia Greenwell Baumann '95, a daughter, Lillian Grace, April 13, 2005.

J. Gregory Cooper '95, adopted a son, Andrey Gregory, from Kazakhstan on May 14, 2004. He was born June 1, 2003.


Hector McLean III '95, a son, Hector IV, May 16, 2005.

Eric Christopher '95 and Dawn Norris '96 Sheriff, a daughter, Kaylee Grace, May 19, 2005.


Jonathan Lee '96 and Ashley Clark '98 Morris, a daughter, Keely Ella, April 16, 2005.

Jathon Mark '97 and Suzanne Cook '00 Hanna, a son, Mack Houston, April 22, 2005.


Alexis Bacon Papa '97, a daughter, Catherine Ellen, March 30, 2005.

Jerome M. '97 and Heather Shivers '98 Robinson, a son, Jared Bryson, June 6, 2005.


Mary Coble '98, M '00 and Michael K. '98 Brieriont, a son, Edward Durham, June 20, 2004.


Jennifer Martin Maginnis '98, a daughter, Katherine Martin, Nov. 11, 2003.

Buffy Head and William J. Murphy '98, a daughter, Molly Elizabeth, June 2, 2005.

S. Dirk '98 and Rachael Gum '00 Wiker, a daughter, Alexa Isabel, March 1, 2005.


David B. M '99 and Cassandra Kirby M '00 Hitchcock, a son, Matthew Benner, Jan. 6, 2005.


William A. Jr. '99 and Shelly Spangler '02 Misiaveg, a daughter, Katelyn Allison, Jan. 6, 2005.

Christina Smith Hedden '00, a son, Braden Adam, Dec. 18, 2004.

Jami Workman Jacobs '00, a daughter, Avery Rebecca, March 4, 2005.

Courtney S. Phillips '00, a daughter, Virginia Anne, Feb. 8, 2005.

Andrew P. Aubin '01, a daughter, Taylor Simpson, March 30, 2005.


Jonathan L. Moody '01, a daughter, Kinsley Madison, May 16, 2005.

Janet Sealey and William G. Powell '01, a daughter, Delaney Kate, March 29, 2005.

Patricia Clapp Findley '02, a daughter, Margaret Jacqueline, Nov. 27, 2004.


Michael White '03, a daughter, Emalie Grace, May 5, 2005.


Julie Banks Manning '82, a daughter, Ava Lauren, April 3, 2005.


Jennifer Brooks Herden '90, a son, William Glenn, June 6, 2005.

Kimberly Walsh Boone '91, M '93, a son, James Andrew III, April 25, 2005.

Michael T. Coggins '91, a daughter, Hollie Grace, April 5, 2005.

Mary Ann Boring Dellegatto '91, a daughter, Lindsey Niccolletta, Feb. 22, 2005.


Julie Schlosser Scott '91, a daughter, Anna Elizabeth, March 30, 2005.
What’s new? We like to hear from you.

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

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

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

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

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

Send your news by FAX to (864) 656-5004 or by email to sleigh@clemson.edu.
Or tear along perforated lines and mail your news to Clemson World, 114 Daniel Drive, Clemson, SC 29631-1520.

Career Services

When the directions you need can’t be found on a road map, contact your Alumni Career Services office. We’ll help you navigate the next turn and stay on the path to professional success.

For advice on mapping your lifelong career, contact:
Tenneil Moody, Director
Alumni Career Services
(864) 656-7927
Email: acs-L@clemson.edu
Web: alumni.clemson.edu

Career Services
GET CONNECTED!
Passings

Clemson World gives hometowns of deceased alumni — where they were from when they were Clemson students — to help former classmates identify them.

William Jasper England ’36, Westminster

Thomas K. Johnstone Jr. ’36, Newberry

William M. Epps ’37, Latta

William E. Duvall Jr. ’38, Cheraw

George A. Brodie ’39, Wagener

James L. Edmonds ’41, Fallston, N.C.

William K. McLean ’41, Blythewood

Morgan C. Stanford ’41, Atlanta, Ga.

Warren C. Wilson ’41, Atlanta, Ga.

Joseph H. Simpson Jr. ’42, Whitmire

Drennan H. Brown ’43, Camden

James L. Tupper Sr. ’43, Summerville

Robert S. James Sr. ’44, Sumter

Edward Hays Reynolds Jr. ’44, Columbia

John W. Martin Jr. ’47, Cowpens

John E. Jenkins Sr. ’48, Simpsonville

Edward H. Stehmeyer ’48, Charleston

Dumond F. Chalker ’49, South Orange, N.J.

Bennett Mack Keasler Sr. ’49, Westminster

Myron A. Smithwick ’49, Raleigh, N.C.

Malcolm B. Bishop Jr. ’50, Landrum

Elmer W. Medlin ’51, Hartsville

George A. McKee ’52, Mooresville, N.C.

James W. Jackson ’53, Greenville

Carl Ray Richardson Sr. ’53, Chapin

Jimmie P. Anderson ’54, Piedmont

Max J. Turner ’54, Gaffney

Robert B. Varn ’54, Charleston

Jerry W. Powell Sr. ’55, Johnsonville

William A. Rush ’58, Greenwood

Jesse E. Barker ’59, Westminster

James Ray Tumblin ’59, Greenville

John R. Bradham Sr. ’60, Conway

M.P. “Mike” Norungolo ’61, Greenville

Ralph S. Ausburn ’63, Greenville

Thomas M. Israel II ’63, Asheville, N.C.

Hector McLean Jr. ’63, Bennettsville

Thomas L. Smith ’64, Greenville

Suzanne B. Culbertson ’67, Greenville

Mark Allen Wright ’73, M ’75, Havertown, Pa., retired engineer from University Facilities

Wilson Allen Puette ’74, Roebuck

Freda Wright-Sorce ’77, Rockville, Md.

Myrtha Long Harrison Greene ’81, Greenville

Robert L. Paxton ’86, Simpsonville

Edward W. Timmons ’91, Taylors

Matthew D. Manning ’92, Narrows, Va.

Collin William Powell ’99, Hartsville

Katie Finnessy Proud ’02, Clemson

Jackson I. Hatton Jr. ’03, Chapin

David E. Kaplan ’07, Aiken

George C. Means Jr., professor emeritus of architecture, Clemson

Frederick Shilstone, longtime English professor and Class of 1940 Bradbury Award recipient, Clemson

David S. Snipes, professor emeritus of geology, Central

James L. Spangenberg, minister of students, 1946-1954, Rockland, Maine

Henry E. Vogel, emeritus professor, department head and dean of the former College of Sciences, Greenville
**Building hope**

Gerald A. Miller ’57

Industrial management graduate Gerald Miller of Hinckley, Ill., is pictured in Belfast, Northern Ireland, where he recently completed his third overseas trip with Habitat for Humanity. His previous worksites were in Romania and New Zealand.

**Rendezvous in Paris**

Dave Slyder ’75, Beth Ward Slyder ’77 and Virginia Ann Ward ’82

Administrative management graduate Dave Slyder and nursing graduate Beth Slyder of Greenville enjoyed a Segway tour of Paris and a reunion at the Eiffel Tower with Beth’s sister, nursing graduate Virginia Ward of Saint Petersburg, Fla. Dave owns a kitchen design showroom, Beth is a nurse practitioner, and Virginia is a plastic surgeon.

**Caribbean Orange**

Harvey M. Beal ’77, *Eric J. Brown ’81

Microbiology graduate Harvey Beal (pictured left) of Forest Hill, Md., and political science graduate Eric Brown of Altamonte Springs, Fla., found themselves aboard the same catamaran during a sales incentive trip to the Caribbean earlier this year. The vessel, “Island Spirit,” was carrying the alumni from St. Thomas to Jost Van Dyke in the British Virgin Islands.

**Tigers on Tenerife**

Deborah, Tom ’78 and Allison ’07 Justice

The Justice family — Deborah, Tom and Allison — is pictured in front of Mount Teide on Tenerife in Spain’s Canary Islands. The inactive volcano is the third tallest in the world at 12,195 feet. At Clemson, Deborah studied horticulture, Thomas earned a degree in building science and Allison is majoring in horticulture.

**Mystery traveler**

Joseph K. Hall Jr. ’95, M ’00

Education and English graduate Joseph Hall of Greenville is a writer and “mystery traveler” for 10Best Inc., a company that publishes online travel guides. Hall has visited London, Edinburgh, Athens, Quebec City and other cities on assignment. He’s currently working as a writer, editor and developer on a project to bring the guides into print by early 2006.

**Reunión de familia**

The Makapugays

During the Makapugay family’s annual reunion in Mexico this year, Clemson graduates gathered for a photo in Puerto Vallarta. Alumni include Regina Makapugay Taylor ’84 (economics), E.L. Taylor ’83 (economics), Finian Makapugay ’82 (horticulture), Fidel Makapugay ’80 (microbiology), Maria Makapugay Sun ’79 (food science) and Andrea Makapugay Singh ’82 (microbiology).

**Summer palace**

Zachary J. Luszcz ’01

Graphic communications graduate Zack Luszcz of Clemson is working on an MBA at Wake Forest University. He recently traveled to China as part of the school’s study abroad program. He’s pictured (with a young lady who wanted in the photo) just inside the Summer Palace in Beijing.

**Peru mission**

G. Brice Elvington ’02

Engineer Brice Elvington (back row, center) and incoming freshman Ashley Skinner (to his right) took part in a recent mission trip to Huancayo, Peru. They’re pictured with girls from the Francisca Mayer orphanage. Volunteers helped start construction on a new girls’ dormitory and continued renovations on current buildings. Elvington is a chemical engineer at Martek Biosciences in Florence.

**At the castle**

A. Denny Smith PhD ’03

Clemson biology professor Denny Smith is pictured in front of Windsor Castle during a recent visit to England. Smith is the recipient of the 2004-05 Excellence in Teaching Award; he was also named Alumni Master Teacher in 2001.

**Miss Clemson at 14,497 feet**

Brittany Stephens

Sophomore Brittany Stephens, a communication studies major and the current Miss Clemson University, chilled out at the summit of Mount Whitney, the tallest mountain in the continental United States. She tackled the 14,497-foot climb on a backpacking trip in the Sierra-Nevadas last summer.
Cyberbullying in TIME

TIME magazine’s Aug. 1, 2005, issue features research from Clemson’s Institute on Family and Neighborhood Life and psychology department in “You Wanna Take This Online?”

The article describes cyberspace as the 21st century bully’s playground and cites the recent Clemson study by psychology professors Robin Kowalski and Sue Limber. For example, the study shows that 18 percent of 3,700 middle schoolers surveyed in the previous two months experienced cyberbullying, including 21 percent of eighth-graders. The attack can range from posting pejorative items like a list of losers to spreading rumors by email to harassing by instant message.

“Our statistics are conservative,” says Kowalski. “Anonymity emboldens the person doing it — and it increases the fear factor for the victim.”

Research shows that bullying is viral. Kids who are victimized “seem to be heavily involved in bullying others,” says Limber, associate director of IFNL and consultant to the National Bullying Prevention Campaign.

The study was conducted with the help of Clemson psychology students. Those who were co-investigators were part of Clemson’s Undergraduate Research Initiative.

For more information, call the psychology department at (864) 656-0348, visit the Web at www.stopbullyingnow.hrsa.gov, contact the Institute on Family and Neighborhood Life at www.clemson.edu/ifnl or (864) 656-6271.

Concrete canoes float across nation

Clemson’s summer hosting of the 2005 American Society of Civil Engineer National Concrete Canoe Competition made the print and electronic news media from California to Massachusetts and most states in between. It even made the Weather Channel.

Engineering News-Record (July 18) also featured the Clemson event in “Students Learn Life Lessons in College Building Contest.” Universities from across the country, winners in their regional competition, gathered at the Madren Center, Owen Pavilion and Y-Beach to compete in brains and brawn on the banks of Lake Hartwell. Clemson placed second in the nation in the competition.

9-11 Behind the Lines

Marketing graduate Anna Miller ’01 of Charlotte, N.C., was in a training session at the Marriott next door to the World Trade Center on September 11, 2001.

As a survivor of that day’s attacks, she was encouraged to write down an account of her experience before the passing of time began to change and erase her memory. Now her 10-page letter is included in Andrew Carroll’s anthology, Behind the Lines: Powerful and Revealing American and Foreign War Letters and One Man’s Search to Find Them.

Miller documented everything from instructions by emergency workers to directions from law enforcement officers. In her letter, she conveys many acts of compassion, caring and concern.

She joined Carroll, along with Gary Trudeau and Kurt Vonnegut, in May at the launch of a 50-state book tour. While in New York, Miller’s first trip to the city since 9-11, she also met NBC’s “Today” news anchor Ann Curry.
Just after Katrina

The horrific Hurricane Katrina had barely left Mississippi when Tomas Gimenez, animal and veterinary science professor, was deployed to the coast.

Gimenez is a member of Veterinary Medical Assistance Teams (VMAT), which works as part of FEMA’s National Disaster Medical System. His group was the first to address animal issues along the Mississippi coast. Dealing with cats, dogs, horses and other pets and livestock, his team rescued animals; provided food, water and medical attention; and recovered dead animals.

They also gave mental health assistance to pet owners. “The animal issues are not strictly animal issues,” says Gimenez. “They are human issues as well because a human is attached to every animal.”

Back at Clemson, Gimenez is teaching and continuing research. His current project is with USRider Equestrian Motor Plan on the safety of horses and those who travel with horses. It’s included in the September issue of The Horse Source online at thehorse.com.

Culinology coup

News of Clemson’s food science degree with a culinology emphasis — combining basic science and food chemistry with culinary skills — attracted coverage in August from USA Today, MSNBC, ABC News, Washington Post, New York Newsday, San Francisco Chronicle and others.

Clemson students also won the $10,000 first prize in a competition sponsored by Danisco for a “unique and creative food concept or products” with JalaMango, a multi-use sauce that blends Mexican and Asian flavors.

This combination of science and art in the food industry makes Clemson’s outstanding program unique and one that’s becoming a model for similar programs at other universities. For more information about Clemson’s food science and human nutrition program, visit the Web at www.clemson.edu/foodscience.

Good stains

We all dread those stains on our clothes from splashing coffee, spaghetti sauce, a leaky pen or muddy paw. Researchers at Clemson see such stains in a different light. They’ve made use of this common problem and turned everyday fiber materials like polyester into devices that can be used for the separation of chemical and biological molecules.

Materials science and engineering professors Phil Brown and Igor Luzinov and chemistry professor Ken Marcus, who each focuses on a different aspect of separation, have integrated their interests and capabilities to revolutionize the ways that chemical separations can be accomplished.

As a result of the interest in their research, the international journal American Laboratory (June 2005) featured their work as its cover story.

National Geo news

Transistors in computers and other electronics may get a lot smaller, more efficient and cheaper thanks to a breakthrough by a Clemson-led research team. These findings were published in the September issue of Nature Materials and online at National Geographic’s Web site nationalgeographic.com (August 16).

Last year, Clemson physics professor Apparao Rao developed a process by which a traditionally straight carbon nanotube could be coaxed to split into a “Y-shaped” nanotube. Recently, the Clemson team and their co-researchers at the University of California at San Diego, who discovered the device properties, found that Y-branched nanotubes permit efficient rerouting of electrons and form the basis of a new kind of transistor for processing information.

The Y-junction-based transistors could potentially beat out the conventional transistors in terms of reduced power consumption and better heat dissipation. Research is funded through a grant from the National Science Foundation.
Major donors

University supporters gathered for an event honoring their generosity during the One Clemson celebration of major donors. Pictured are longtime contributors Jack ’52 and Joyce Lunn and a very thin friend.

For more information about major support of Clemson academics, visit the Web at www.clemson.edu/giving. To become part of athletics’ WestZone legacy, visit the Web at www.westzoneclub.com.

EXXONMOBIL MATCHES 3-TO-1

John Y. Dupre ’80, investor relations manager for ExxonMobil, presents the ExxonMobil Foundation grant check for $105,609 to President Barker. This check represents ExxonMobil’s 3-to-1 match of gifts made to Clemson by its employees and retirees under the foundation’s Educational Matching Gift Program.

Clemson is among approximately 930 participating colleges and universities that collectively received more than $18.6 million in 2004 gifts through this program.

Most of the gifts to Clemson matched by the ExxonMobil Foundation are restricted to the ExxonMobil Employees Chair in Engineering.

THANK YOU!

Private giving to the University topped $38.5 million in the fiscal year that ended June 30. That total includes cash gifts to the Clemson University Foundation as well as the athletic department’s WestZone campaign. The foundation’s total was $27.3 million, up from last year’s $26.4 million.

“We’re thrilled to surpass the previous year’s total and exceed our fund-raising goals for the fiscal year,” says Brian O’Rourke, Clemson’s director of alumni affairs and development. “Our alumni and supporters are fantastic. This should place us within the top five among public universities for alumni giving.”

In addition to the cash gifts Clemson received in 2004-05, the University raised $5.2 million in pledges and added $13 million to its inventory of planned gifts and bequests.

The percentage of alumni who gave to Clemson was also up from last year. Twenty-six percent of alumni gave either to the foundation or to IPTAY, compared to 25 percent last year.

“I am extremely pleased that the Clemson family is giving back to Clemson in such great numbers,” says Neill Cameron, Clemson’s vice president for advancement. “Alumni support is so important for the success of this university. Without our alumni, Clemson cannot be the outstanding university that we all want it to be.”

The development office and IPTAY raised $11.2 million for the WestZone campaign. The campaign goal is $28 million.

“We’re very optimistic about the progress that the WestZone capital campaign has made this year and that we will raise the money we need to make this vision a reality,” says senior associate athletic director Bill D’Andrea. “We’re thankful for the generous support from the Clemson family, including some former student athletes and many alumni.”
Wishin’ and hopin’

Wishes do come true — just ask Richard and Joyce Klein. To celebrate Richard’s retirement from Clemson’s finance department in the College of Business and Behavioral Science and Joyce’s retirement from the Greenville Council for the Prevention of Teen Pregnancy, the Clemson couple shared their good fortune with the Brooks Center.

They provided the funds for new choral risers, making one of the Brooks Center’s wishes come true. The center has a substantial list of immediate needs. By directing their gift to the center’s wish list, the Kleins made an immediate impact on the quality of vocal and other performances that take place here.

Among other items, the Brooks Center needs a new central speaker system to support the sound amplification required by many touring ensembles. More capital priorities include endowed funding for the director of bands position and a new director of jazz studies in the performing arts department.

For information on the Brooks Center’s wish list, call Lillian Harder at (864) 656-3043 or email harderl@clemson.edu.

You don’t have to be affluent to benefit from asset management

For a living trust

The term “trust fund” conjures up images of mansions, yachts and huge fortunes. But once the province of the very rich, trusts have found a place in the lives of many families who’ve never thought of themselves as wealthy.

Trusted come in myriad forms, but for middle-class families, living trusts are popular because the person creating the trust can enjoy lifetime benefits. You can deposit assets in your own trust and ask the trustee to manage them prudently and pay the income to you so that you’ll have more time for hobbies, travel and family.

There are other important advantages. The property in a living trust that survives you can avoid the cost, publicity and delays of probate and get to your spouse or other beneficiaries faster. If you choose, the trust can continue for their benefit in order to provide sound investment management and reliable financial support.

What is a living trust?

Unlike a trust you might establish by your Last Will and Testament, a living trust is set up by a written agreement between you and the trustee, and it takes effect immediately.

While you can be your own trustee, you may prefer to name a professional trustee to manage the trust assets, keep good records, pay you the annual income, and pay your household and medical bills if you become incapacitated.

A living trust can be revocable or irrevocable. The advantage of a revocable trust is that you do not give up control — you can amend its terms or even cancel it whenever you wish. On the other hand, you may want to put some of your assets in an irrevocable trust so that you can achieve other significant goals. For example, you could set up a charitable remainder trust to pay yourself a dependable income for your lifetime and then distribute the remaining principal to the Clemson University Foundation. The substantial current income-tax savings as well as future estate-tax savings of this trust magnify its appeal.

Your estate plan, too

A revocable living trust can be an important part of your estate plan. It’s an ideal vehicle for holding title to real estate outside your home state. You can make your life insurance payable to your trust. And the trust can include numerous provisions to minimize estate taxes and make gifts to family and charitable beneficiaries.

Along with your attorney, we can show you how a living trust can blend your personal needs, estate plans and philanthropic intentions. For more information, please contact JoVanna King, senior director of gift and estate planning, at (864) 656-0663 or jovanna@clemson.edu.
Clemson’s two newest residence halls blend in seamlessly with those from the 1930s in the recently renovated Greek Community on the Quad.

The halls (pictured center) are named Simpson North and Simpson South in honor of Richard Wright Simpson, an original Clemson life trustee and the first chairman of the board.