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As we enter a new calendar year, it’s fitting that we take a look at the state of our University.

Based on the tremendous commitment from the Sirrine Foundation, business support, record-breaking research dollars attracted by our faculty and the University’s efforts to redraw its role in service to South Carolina, I’m tempted to summarize the state of Clemson in two words — economic development.

But I will offer you two different words — search committee.

We’ve recently interviewed candidates for the position of vice president for student affairs and have begun seeking candidates for a new chief financial officer. We have searches under way for four college deans and a dean of libraries. In a recent issue of *The Chronicle of Higher Education* — the “bible” of the academic press — Clemson ran a full-page ad listing more than 100 faculty positions that we will fill by May.

In the business world, this kind of mass exodus and turnover might be considered a sign of internal turmoil. But in our case, it’s the result of the convergence of two events — the natural wave of retirements of faculty who joined the academy in mass numbers in the 1960s and 1970s, and a five-year-old state program known as TERI (Teacher and Employee Retention Incentive). TERI provides incentives for retiring faculty and staff to stay in the system for up to five more years, giving us time to plan for their departure. Together, these two catalysts will cause us to replace one-third of our faculty and a significant number of administrators over the next five years.

The task of recruiting, mentoring and retaining so many key faculty and staff is a challenge, but it’s also a once-in-a-generation opportunity to reshape Clemson University. The decisions we make in the next few months will affect the quality of a Clemson education for the next 20 years.

Fortunately, we knew this was coming, and we spent the past five years getting ready. Here’s how:

1. We’ve established a clear vision — one that is widely known and considered a little audacious. Very simply, we intend to be one of the nation’s top-20 public universities. Few universities are bold enough to give themselves such a clear, measurable benchmark. But faculty and staff like knowing where a university is going. They realize that this vision is not about a magazine ranking. It’s about the quality of classroom instruction and making sure that we have the best teachers, facilities, library resources and information technology possible. It’s about students being engaged in their studies, not just sitting in a crowded auditorium with 500 of their closest friends listening to a lecture. It’s about making sure that students succeed and graduate on time with a degree that has value.

2. We have doubled research support in less than five years. That sends a loud message. It tells faculty and staff that we’re serious about being a research university and that this is a place where they can be successful in their scholarship. It says that research is valued and that support systems are in place.
3. At the same time, we have clearly demonstrated our commitment to maintaining excellent undergraduate education as the core of the University. We have a new general education curriculum focused on competencies such as critical thinking, communication skills and ethical judgment, rather than a list of courses. We have an Academic Success Center that is widely regarded as a national model for increasing freshman retention, scholarship retention and graduation rates. We are phasing in a mandatory, three-year research experience for all undergraduate students. These commitments speak volumes to prospective faculty and staff. They say this is a university that hasn’t forgotten the reason it exists is to educate young people.

4. We have established emphasis areas where we intend to build internationally competitive programs. When we hire faculty or staff members, we ask them to make a long-term commitment to us. Often universities aren’t willing to do the same in return. They’re not willing or able to say, “Yes, this is going to be a growth area. This is where we will be putting resources, not just this year but year after year.” Clemson can say that to faculty whose expertise is in automotive engineering or advanced materials or biomedicine or one of our other emphasis areas. They will know that this is a place where they can build a career, not just get a job.

5. And finally, Clemson is located in a state that’s committed to higher education. No state has a more generous scholarship program. Our lawmakers have enacted a record four pieces of legislation since 2002 to support university research focused on economic development. And our state has $10 million endowed chairs.

It’s true that funding for basic academic and outreach programs has declined in recent years — and, unfortunately, it was during a time when the cost of providing technology-based education has skyrocketed. The impact of these two factors on tuition is well-known. By 2005, because of inflation and budget cuts, Clemson would have needed a 93 percent tuition increase just to get back to 2000 funding levels — with zero investment in quality.

But I still consider the glass to be half full rather than half empty. The investments that we have made in scholarship and economic development are working. But what we need now is a similar investment in funding for core academic and outreach programs.

Improving base funding for academics, and therefore reducing the pressure on tuition, is doable in South Carolina in the next few years. We just have to decide it’s a priority. Nothing we do would send a louder message to the next generation of faculty and students that we are serious about increasing prosperity and the quality of life in South Carolina.

If we do not make that commitment this year, we could miss this once-in-a-generation opportunity. This hiring window will not be open for long. If South Carolina can make a five-year commitment to its research universities to support funding for new faculty and infrastructure they need in order to be successful — startup funding, laboratories, technology and graduate assistants — our students and our citizens will see a return on that investment for the next 20 years.

We’ve laid the foundation. Now it’s time to start building.

James F. Barker, FAIA
President
Sirrine gift a milestone in state’s future

The J.E. Sirrine Textile Foundation, giants of the S.C. textile industry for more than 60 years, passed its legacy on to Clemson in the form of a $5.6 million gift, the largest gift the University has ever received from a foundation.

The money will help fund two endowed chairs in the areas of glass optical fibers and advanced polymer fiber materials. When matched with resources from the S.C. Education Lottery and the University, the amount will double in value to $11.2 million.

Sirrine Foundation Board President Mark Kent says the gift is in keeping with the vision of engineer J.E. Sirrine when he called upon S.C. textile companies in 1944 to advocate for future generations. The foundation’s support to Clemson has contributed to research and education of students in textile-related efforts for more than 40 years.

While much of the traditional textile industry has gone overseas, Clemson’s School of Materials Science and Engineering continues to expand to encompass different high-tech niche areas of the fiber materials market. Expertise now extends to fiber-reinforced composite materials and multifunctional fibers for high performance and lightweight composite applications, suitable for use in automotive, space, athletic equipment and medical prosthetic markets.

In addition, biomedical fibers are being tested for artificial arteries, scaffolds for cell or bone growth and self-healing fabrics that promote skin reconstruction. Nontraditional fibers that blend attributes of organic and inorganic (glassy) materials are being used in telecommunications or high power fiber laser systems.

Clemson’s combined talent in optical materials and textiles is highlighted within the research and outreach activities of the Center for Optical Materials Science and Engineering Technology and Clemson Apparel Research.

World-class communications

Clemson’s Holcombe Professor of Electrical and Computer Engineering Michael Pursley is one of the world’s 10 most frequently cited authors in the field of wireless communication networks, according to a recent worldwide science and technology study. The results of the study were derived from the Science Citation Index of archival journal citations.

Pursley is a renowned wireless research pioneer who authored journal articles on communication techniques, including spread spectrum that eventually led to today’s digital cell phones. The spread-spectrum method is the most commonly used communication technique for cell phones in the United States today.

Current research at Clemson may revolutionize battlefield and disaster-relief communications. The technology uses spread spectrum for wireless communication networks that do not depend on cell towers or other infrastructure, such as telephone lines. Instead, network functions are built into each phone, and a distributed network of wireless phones relays messages between users that are too far apart for direct contact.

The Clemson team of researchers is wrapping up a five-year, $4.4 million project funded by the U.S. Department of Defense Multidisciplinary University Research Initiative. The research grant resulted from a competition among university research teams throughout the nation.
WUSTL distinguished alumnus

CLEMSON PRESIDENT JIM BARKER IS A RARITY among architects and college presidents because he is both. Washington University in St. Louis, Mo., (WUSTL) recognizes his unique accomplishments and has presented him with the Distinguished Alumni Award.

“James F. Barker has taken the architectural skills and knowledge required to design a building and applied them to the future of a university,” says Washington University Chancellor Mark Wrighton.

“He has become a leader in national academic circles by creating a new model of education, building interdisciplinary partnerships among the professional schools and the basic curriculum by tearing down artificial walls between disciplines.”

Barker received his master's degree in architecture and urban design from Washington University in 1973, after completing his bachelor's in architecture at Clemson in 1970. As an architect, he has been awarded the National Distinguished Professor Award of the Association of Collegiate Schools of Architecture and is a Fellow of the American Institute of Architects.

He’s chairman of the Commission on Colleges of the Southern Association of Colleges and Schools and served three years as chairman of the Atlantic Coast Conference’s Council of Presidents.

Final Four!

The Clemson Men's Soccer Team finished the season tied for third in the final National Soccer Coaches Association of America (NSCAA) Poll.

This is the highest that the Tigers have finished in the NSCAA poll since the 1979 season. It was the highest that a Tiger soccer team has finished in any final poll in seven years. Coach Trevor Adair has led seven teams to top-25 finishes in his 11 years as the men's soccer head coach.

The Tigers finished the 2005 season with a 15-6-3 record overall and advanced to the NCAA's College Cup Final Four in Cary, N.C. The Clemson program won national titles in 1984 and 1987.

Major grant for heart research

Clemson researchers will use part of a $17.3 million federal grant to develop innovative technology to replace damaged cardiovascular tissues and to improve implant performance, using new biomaterials from living and man-made materials. The award is part of the IDeA Networks of Biomedical Research Excellence at the National Institutes of Health.

Through collaborative activities, Clemson, the Medical University of South Carolina and the University of South Carolina have received one of the largest awards ever presented to S.C. universities. The grant will be shared by the three research universities and four undergraduate schools in the state.

The award will further the drive to improve how natural and artificial materials hold up in the body, particularly the heart.

“The baby boomer generation is aging, and we are working to come up with safe, resilient cardiovascular materials that can withstand the active lifestyles of our aging population,” says bioengineering department head Martine LaBerge.

Clemson’s work will include a mentoring program of collaborative research for undergraduate and graduate students.
Clemson touches Czech community

Clemson professor Mark Small of the Institute on Family and Neighborhood Life, a public service activity of the University, has received an award for community development in the Czech Republic from the Czech Donors Forum.

Small, pictured here with his wife, Patricia, completed a term as a Fulbright Scholar in the Czech Republic at the University of South Bohemia in Ceska Budejovice in 2004.

From his Fulbright experience, Small began the Palmetto Global Grantmakers Exchange Program in partnership with the Czech Donors Forum, the foremost organization in the Czech Republic responsible for the development of community foundations.

The exchange program provides local grantmakers with a global perspective on grant giving and community development and allows foundation partners from around the world to benefit from the experiences and wisdom of grantmakers in South Carolina.

Record totals for research

External funding of University research projects totaled $125.6 million for 2004-05, the highest in Clemson’s history and an increase of almost 10 percent over last year’s $114.9 million total. The $10 million leap moves Clemson closer to its target of $150 million by 2008.

“From science and engineering to architecture and the social sciences, Clemson faculty members are adding to the body of knowledge to improve the quality of our lives,” says Chris Przirembel, vice president for research and economic development.

Among the research projects funded for 2004-05:

- $4 million to the Center for Advanced Engineering Fibers and Films, including support for a Research Experience for Undergraduate Students initiative.
- $2.8 million for development of 3-D test systems for early detection of breast cancer.
- $2.2 million for development of advanced photonics composites at the Center for Optical Materials Science and Engineering Technologies in the Advanced Materials Research Laboratory at the Clemson Research Park.
- $1.6 million to help the Golden Strip community in Greenville County create a comprehensive strategy for prevention of child abuse and neglect.
- $337,000 for study of stress, fatigue and language abilities, with research goals to design stress prevention and mitigation strategies to optimize human performance in the workplace.

Camp Odyssey

An exciting summer adventure for the kids in your life — Camp Odyssey at the University’s Outdoor Lab — is a one-week residential camp for children from ages 6 to 12. The 2006 camp will take place June 25-July 1. The program offers children fun, challenging and educational group activities with other campers and adult leaders. Activities include hiking, fishing, canoeing, swimming, arts and crafts, outdoor games, campfire programs, overnight camping trips and so much more. Cost of the program is $435 per child with a discount given to additional children from the same family. Space is limited so sign up early. For more information and application materials, contact camp directors at (864) 646-7502 or cuolcamps-L@clemson.edu or visit the Web at www.clemson.edu/outdoorlab/ody.htm.
HEALTH SCIENCES SOUTH CAROLINA (HSSC), a public-private partnership between South Carolina’s research universities and largest health systems, received the 2005 Palmetto Vision Award from the S.C. Chamber of Commerce for driving advances in the economic well-being and health status of South Carolina.

Since its founding in April 2004, the collaborative has established three Economic Centers of Excellence; assisted in the integration of the colleges of pharmacy at the Medical University of South Carolina (MUSC) and the University of South Carolina into a stronger, statewide entity with greater capacity to educate pharmacists; and is leading the development of three research campuses in Charleston, Columbia and Greenville.

The collaborative includes Greenville Hospital System, MUSC, Palmetto Health, USC, Clemson and Spartanburg Regional Healthcare System. Each organization has pledged to invest $2 million per year for 10 years, a potential investment of $120 million. These funds are eligible for a one-to-one state match through the S.C. Research Centers of Economic Excellence Act, also known as the Endowed Chairs Program, bringing the potential investment in health sciences research to $240 million.

Happy 100th Utsey!

The Brooks Center for the Performing Arts was “standing room only” last fall when the Academy of St. Martin in the Fields Chamber Ensemble performed the 100th concert of the Lillian and Robert Utsey Chamber Music Series. Pictured are Brooks Center director Lillian Harder (center), founder and artistic director of the series, and ensemble members.

For nearly 20 years, Clemson University has presented chamber music concerts to the campus and surrounding community. During that time, what started as a small way of sharing local and regional musical talent to the community has grown into a nationally recognized concert series that features many of the best musicians and ensembles in the world. What’s more impressive, Utsey Chamber Music Series concerts are free to the public.

Named in honor of Harder’s parents, the series was launched with a gift from Harder and her husband, Byron, followed by a grant from the National Endowment for the Humanities and donations from the community. The Utsey Chamber Music Endowment is South Carolina’s only endowment dedicated to presenting free chamber music concerts.

4H2O national winners

Three Clemson professors won the national 2005 Natural Resources Conservation Service Youth Environmental Award for their work with the 4H2O program.

4H2O Pontoon Classroom is a novel, community-supported and field-based program that provides children and adults with knowledge about their local water resources and teaches them field, analytical and critical-thinking skills needed to participate in making decisions that affect the quality of these environments. It has reached 1,100 students directly and 2,000 more through teacher training.

National winners are Rick Willey, Clemson Extension 4-H natural resources specialist; Darren Atkins, Clemson Extension agent in Newberry County; and Barbara Speziale, associate dean of Academic Outreach and Summer Academic Programs. “We share this award with our county agents and volunteers,” says Willey. For more information about 4H2O, visit the Web at www.clemson.edu/waterquality/4H2O/.
“If we cannot end our differences, at least we can help make the world safe for diversity.”

John F. Kennedy

www.clemson.edu/oneworld
1. Why is undergraduate admission to Clemson so competitive?

Higher education in South Carolina has changed dramatically in the past few years. Those changes, coupled with advances on the Clemson campus, have created an environment where admission to Clemson is more desirable than ever before.

Since 1996, freshman applications have increased by 48 percent. The number of applications versus the number of available spaces in the freshman class has gone from one in four to one in five. The percentage of freshman applicants who are accepted has dropped from 78 percent to approximately 57 percent over the past nine years.

These are the main reasons:

There are more high school seniors than ever before, especially in South Carolina and other nearby states. Clemson quality recognition by Peterson’s Competitive Colleges, U.S. News & World Report and Kiplinger’s Personal Finance, along with athletic successes, provides additional publicity and exposure, making more people aware of the value of a Clemson education.

The LIFE Scholarship was established in 1999 to keep more of South Carolina’s best and brightest students in state, and it’s doing just that. The average SAT score for Clemson freshmen has increased from 1128 to 1225 since 1996. Forty-five percent of the most recent class of Clemson freshmen graduated in the top 10 percent of their high school class, and more than 70 percent graduated in the top 20 percent.

The University is committed to providing Clemson students with the type of experience students and parents have come to expect and value. To meet this expectation, enrollment is carefully managed. The goal for next year’s freshman class is approximately 2,800.

2. What does it take to be admitted to Clemson?

Admission to Clemson is an academic decision. Therefore, decisions are made primarily upon the academic credentials that are submitted with the application (SAT/ACT, class rank, GPA, courses taken, etc.). Decisions are not based upon a single criterion but rather a combination of the various credentials.

Apply early and make sure all requested information is provided. The priority deadline for undergraduate applications is December 1. We encourage online application for admission through the University’s home page at www.clemson.edu. Also, SAT/ACT score reports must be sent directly to Clemson from the testing agency.

3. What about changes in the SAT and ACT?

In March 2005, the SAT and ACT added a third portion of testing. In addition to verbal and mathematical sections, they include a writing component, mandatory in the SAT and optional in the ACT.

For students who want to enter Clemson in 2006 and beyond, the written component is required, regardless of test.

4. What special consideration does Clemson give to legacy applicants?

The University is sensitive to the contributions of its alumni and desires to see family traditions continue. Questions about family members (father, mother, grandfather, grandmother, sister, brother, spouse) who have attended Clemson are included on the application for admission and are considered in the review of the application. While legacy is a factor in the admission decision, it does not replace the importance of the academic credentials. During the 2004-2005 admission cycle, 65 percent of all legacies were accepted versus less than 50 percent of nonlegacies.

5. What is deferred admission?

A number of freshman applicants are offered deferred admission for the following spring semester. Some students are offered the opportunity to begin Clemson in January if they attend another institution during the fall semester. This is less than the regular transfer admission standard but takes into consideration the student’s academic performance in high school. Because of space, the University is limited in the number of deferred admission offers that can be made.

6. What about the transfer process?

Transferring provides another opportunity to graduate from Clemson for students denied as freshman applicants. The number of transfer students the University can accommodate, however, is limited, and the profile of enrolled transfer students has increased.

Generally, a student needs to have completed at least 30 semester hours of collegiate-level credit with a grade-point average of 2.5 on a 4.0 scale. This, however, is not a guaranteed minimum standard for admission. A student can best enhance his or her chances for transfer admission if, in addition to the requirements listed above, all of the freshman-level courses in English, mathematics and laboratory science for the intended major have been completed.

For additional information, contact the Office of Admissions at (864) 656-2287 or visit our Web site at www.clemson.edu/admission.
College students drink alcohol for reasons as diverse as the color spectrum. And the effects on them individually are almost as varied. But each university has its own environment, its own unique culture that students respond to. Occasionally, that culture needs a closer look.
President Jim Barker issued a statement in the fall of 2004 that no university president wants to make. He declared to the Clemson family an “immediate need” to address the problem of alcohol abuse at Clemson.

His statement was based on findings from the 2004 Core Alcohol and Drug Survey and other assessments that drinking among Clemson students had shown a disturbing trend. In other words, high-risk drinking had increased over the previous two years with results ranging from academic problems to physical injury.

Although the University has long promoted student health and welfare programs as part of the Clemson experience, the president’s words set in motion a high-energy collaborative effort throughout campus and the surrounding community. The Alcohol and Other Drugs Task Force combined with the Clemson Community Coalition to decrease high-risk drinking on and off campus by enlisting parent support, educating students and communicating better with off-campus law enforcement.

On campus, task force members led by Redfern Health Center and the offices of Health Education and Student Affairs took on a host of activities and projects to increase student awareness, to stress the impact of decision-making and to provide alternatives. In addition to the general student body, they engaged student athletes, fraternity and sorority members, and other student groups. They provided publications, presentations, fun events from tailgating to root beer bashes, and much more.

Last fall nearly 500 students took part in one of those projects — The Brick Wall. Students found red-colored pieces of paper, cut to the size of bricks, at different locations on campus. On each piece, they wrote an experience of how alcohol had affected them or someone they know or knew. The “bricks” were gathered and assembled into a bright red wall on display in the Union. The handwritten notes remind passersby that alcohol abuse has a stack of consequences.

An early result of these on- and off-campus efforts is that the 2005 Core Alcohol and Drug Survey shows Clemson students dropping below the reference group of students from across the nation in high-risk drinking. The University’s binge drinking decreased approximately 16 percent from the previous year.

George Clay, Clemson’s executive director of student health services, says the survey shows that Clemson students are more aware of the University’s concern about alcohol issues and of the existing alcohol policies.

“The data indicates that what we’re doing is working,” says Clay. “But one year’s results don’t make a trend. We need to continue to work very aggressively and use every resource available to us to foster change.”

Some of that collaborative work has already resulted in a three-year grant from the National Institute on Alcohol Abuse and Alcoholism (NIAAA).

Clemson is one of only 15 schools nationwide to be selected for participation in the NIAAA’s Rapid Response to College Drinking Problems program. The research done at Clemson will help create intervention and prevention programs that are tailored specifically for Clemson students.

Public health sciences professor Hugh Spitler is principal investigator along with co-investigators Martie Thompson and Cheryl Dye. Clemson has received nearly $201,000 for the first year of the grant. Partners come from across campus and the city of Clemson.

The research “begins at the beginning” with freshmen. The first phase involves collecting data on alcohol problems among Clemson’s first-year students through surveys, focus groups and in-depth interviews.

Studies show that although common risk factors are shared across all campuses, students often respond better to interventions based on situations unique to their school rather than information based on generic situations and student behavior.

“We want to identify situations that tend to pose the greatest risk to our freshmen,” says Spitler. “The data will be used to develop context-based interventions that we can use to inform students of risk factors specific to Clemson University.”

Because contexts change from year to year, the data will be collected every year to keep current. Findings will be incorporated into alcohol awareness programs and information for freshmen so they will be more aware of risky situations they may find themselves in.

“We have made great improvements in reducing high-risk drinking among our students, but we aren’t there yet,” says Parvin Lewis, director of health education at Redfern. “In order to get there, we need the help and support of the entire Clemson community. We all own this problem and need to work on it together.”

While we can’t paint all students with the same brush, we can look at their common environment. By understanding the motivations, the nuances of why some students become alcohol abusers and others don’t, we can better help those in need now and prevent future problems for other students.

For more information about Clemson’s efforts against alcohol abuse, contact George Clay at (864) 656-3564 or gclay@clemson.edu.
A theater near you

by Elizabeth DePasquale '05
If you’re a fan of movies like *The Matrix Revolutions* or *Star Wars Episode III*, and if the new “T.G. the Tiger” graphics on the Death Valley football scoreboard caught your eye, then read on. You’re about to find out that the brains behind these works are none other than Clemson’s own.

Computer science graduates have been hot on the job market, with positions taking them from one coast to the other. Among such alumni are several employees of the Los Angeles-based Rhythm & Hues Studios and New York’s Blue Sky Studios. Helping produce effects for such films as *Scooby Doo 2*, *Elektra*, *The Ring 2*, *Garfield*, *Robots* and *Ice Age 2*, these Clemson grads put their training to the test on the silver screen.

**At the movies**

Several Clemson alumni at Rhythm & Hues worked on the new blockbuster *The Chronicles of Narnia: The Lion, the Witch and the Wardrobe*.

Robert Helms ’00, M ’03 helped program the tools used by character riggers — the artists who, among other tasks, define how muscles and skin move with a character’s bones, a position that Helms once held himself. He was also involved with the technical animators in creating shots for the film’s trailer, adding touches like the motion of clothing and fur to the animation. Finally, he helped the technical animators solve software problems.

“That problem solving is the part of my job I love the most,” says Helms, who holds a bachelor’s degree in electrical engineering and a master of fine arts (MFA) degree in computing. “There are few things as satisfying as hunting down and fixing a problem.”

The end results of such meticulous work are the jaw-dropping visual effects that viewers have come to appreciate so much in today’s films.

Another alumnus helped to create *Narnia’s* battle sequence. Marc Bryant ’99, M ’03 used software developed initially for *Lord of the Rings* to create brains for a multitude of warring characters and then populated the scenes with these individuals. Bryant, who holds a computer science degree and an MFA in digital production arts, has worked in three different positions on five movies since 2003. For him, Rhythm & Hues offers a range of assignments and the challenge to continue learning new skills.

“There’s quite a bit of variety, which is one of the things I’ve enjoyed the most. It can be a real thrill,” says Bryant.

Back on the East Coast, Clemson’s presence in the New York-based entertainment industry is growing.

After earning a master of fine arts degree, Jennifer Brola Richards M ’02 worked at the Anderson Independent-Mail before moving to the Big Apple. She freelanced for a year at companies like Fox’s Blue Sky Studios and the Arts & Entertainment Television Networks — including the A&E, History and Biography channels. Blue Sky offered her a newly created full-time position in the research and development department, and she’s currently the company’s production programmer and intranet developer. Her husband, Jacob Richards ’99, M ’03, had an internship at Pixar before landing his current position as a lighting technical director at Blue Sky.

**Raising the score**

Back on campus, current Clemson students are in on the bright future that computer science degrees can offer, and they are already demonstrating their skills.

T.G. the Tiger resulted from a summer of hard work put in by computer science students. You may recall his intimidating image from Clemson’s scoreboard during football season. He’s large; he’s energetic; he’s the embodiment of Clemson’s athletic vigor. Students are working on new versions of the animated tiger including an academic T.G., pumped
up by study rather than the adrenaline of a home game. These new tigers bring Clemson’s mascot up to speed with the cutting-edge technology of the 21st century.

Clemson’s computer science students and professors have earned international recognition for their research and animation. They brought home top awards from the 2005 Eurographics research conference on computer graphics at Trinity College in Dublin.

Professors Robert Geist and James Westall, and Karl Rasche Ph.D. ’05 (a computer science doctoral student at the time), received the Gunther Enderle Award for best research paper. The annual award comes with a cash prize, and the paper, “Re-coloring Images for Gamuts of Lower Dimension,” was published in the Computer Graphics Forum Journal. It discusses a technique for automatically re-coloring images like those on a computer screen for viewers with color-deficient vision. Their research could help millions of Americans who have this condition.

Digital Production Arts (DPA) director John Kundert-Gibbs and Jerry Gardiner ’01, M ’05 received the Best Independent Animation Award for the DPA program’s five-minute “Demons Within.” The 3-D animation was entirely student-generated, and it was praised for its apparently hand-drawn, over-the-top Japanese anime-style imagery and plot.

“This is a big award with international significance,” says Kundert-Gibbs. “I’m proud that Clemson University was so successful that all five of our animation submissions were selected for presentation at Eurographics.”

Awards such as these draw attention to Clemson and enhance the University’s image and opportunities, especially those connected to the DPA graduate program.

**Hollywood on campus**

All of the success that Clemson’s computer science students have earned is only the beginning. Now they have access to state-of-the-art technology in the newly renovated McAdams Hall, home to the computer science department.

Boasting 24,000 square feet of new space, 11,000 square feet of renovated space and $3 million in computer equipment and infrastructure, McAdams Hall is on a par with Hollywood facilities.

“With this space and equipment, we’re able to compete on a technical level that few other universities offer,” says Kundert-Gibbs. “As a result, our students are hired more frequently and stay on the job longer.”

DPA is a growing area of computer science, and McAdams now provides the program with 4,000 square feet of studio space for major motion-picture quality animation and effects, as well as other facilities.

The new hall’s other features include virtual reality equipment, one general access laboratory and five instructional laboratories for research in computer networks, eye tracking, Web applications and much more.

With the first-rate training and facilities that Clemson has to offer, it’s no wonder that the field of computer science is populated by successful tigers. So next time you see a movie with effects that dazzle the eye, remember that our students and graduates may have had a hand in it.
A man of value

Richard McMahan ’54

When Richard A. McMahan graduated from Clemson in 1954, not only had he earned a degree in architecture, he had accomplished much more as a student.

From ROTC to Blue Key, student athlete to cheerleader, student government to TAPS editor, McMahan made invaluable contributions throughout his years at Clemson.

He pursued life after Clemson in a similar way, working hard to build a career and just as hard to serve. He founded McMahan Construction Co. Inc. in DeLand, Fla., a contracting firm that specialized in wastewater treatment plants and underground utilities. With clients throughout Florida, the company grew into a multimillion-dollar operation.

He sold the company in the early 1990s and developed other businesses including RAM Group Inc., a land development and investment company.

All the while McMahan has served his community, state and country with distinction from the U.S. Army to Florida House of Representatives, Jaycees to Rotary International and much more.

At Clemson, he has served on the Clemson University Foundation board of directors and supported academics through major giving. He’s a member of the Thomas Green Clemson Society and the Clemson Legacy, those who’ve included Clemson in their wills.

He established the Richard A. McMahan Presidential Scholarship in 1992, and because of his generous endowment in 1998, the University was able to establish the highly competitive Clemson National Scholars program.

The Richard A. McMahan Fund for Excellence in Architecture, established in 2001, provides for annual faculty support, undergraduate scholarships, fellowships, a visiting architects program, technology support, faculty development and other projects.

In addition to giving major support to higher education, he and his wife, Mary, have been involved in numerous other civic programs and community enrichment projects. The McMahans’ son, Michael ’77, Richard’s father, Jefferson McMahan Jr. ’23, and brother, Jefferson McMahan III ’51, are all Clemson alumni.

For more information on establishing an endowment or other planned giving, contact Brian O’Rourke at (864) 656-5658 or orourke@clemson.edu.
The following is excerpted from Whitey Lander’s “The Fabulous Railroad Entrepreneur” in the Carologue, Vol. 16, with permission from the S.C. Historical Society.

As a boy growing up in Calhoun Falls in the 1920s, I often heard my father speak of Patrick Calhoun … youngest son of Andrew Pickens and Margaret Green Calhoun, and grandson of John C. Calhoun … born at Fort Hill on March 21, 1856.

In 1871, young Pat Calhoun rode off to Dalton, Georgia, to study law under his grandfather Duft Green. In due time he was admitted to the bar, tried his fortune briefly in the Midwest, and in 1878 settled in Atlanta as a partner in the young law firm King and Spalding.

Within seven years Patrick Calhoun had become head of his law firm, had branched into various business ventures, and had become rich. Railroad finance had become his chief interest, centered on the Central Georgia Railroad and its connections.

In early November 1885, this wealthy young bachelor … left Atlanta in a private railway car for Charleston to claim his bride, Sara (Sally) Williams, the daughter of a wealthy Charleston merchant. Back in Atlanta, Pat Calhoun proved not only to be a successful businessman but an ideal husband. Sally … in later years said that she always “felt a thrill” whenever he walked towards her. She bore him eight children in a period of eleven years.

In 1889, Patrick was called to South Carolina to attend the funeral of his great uncle, Col. James Edward Calhoun. Pat was named executor of the large estate, consisting of [79,000 acres in South Carolina and Georgia].

As executor, Pat persuaded the other legatees to keep the Abbeville-Elbert [county] lands intact for the purpose of attracting industrial development. [In 1891] the Western Carolina Land and Improvement Company was organized, land was purchased … [and] the town of Calhoun Falls was laid out.

Industry did not rush in, and the other Calhoun estate legatees became dissatisfied with Pat’s administration. Nevertheless, he was able to hold them at bay until 1906.

Later, he became a counselor to J.P. Morgan in acquiring the bankrupt [Richmond and West Point] Terminal road and organizing the Southern Railway System on the wreckage. Through his connection with Morgan … he enjoyed a favorable introduction to the highest circles of the New York financial world. In fact, he moved his growing family to New York and gave up his law practice in order to devote himself full time to business.

Calhoun became involved in reorganizing and consolidating San Francisco’s four street railway systems. With New York financial backing, [he] became president of the United Railroads of San Francisco.

Quite a celebrity now, [he] was interviewed by newsmen and businessmen who sought his opinions. [A] prominent muckraker … noted that Pat was a “New Southerner … [a] tall, straight, handsome man, with the eyes of a lion, the grace of a tiger-cat, and the strength of a serpent … unbeaten and unbeatable.”

However, back in San Francisco, trouble was brewing. [One of his partners] had been convicted of bribery, and indictments of Pat and others followed. A deadlocked jury led to a mistrial. [But the trial, long indictment and neglect of his business forced him into bankruptcy by 1916.]

Daughter Mildred later wrote: “I wasn’t aware that Father had so much money until he lost it.”

[The Calhouns returned to Calhoun Falls, and in 1928] Pat Calhoun, as president of the Calhoun Falls Company, announced the sale of 12,500 acres of James Edward Calhoun’s Millwood estate to ... Calhoun Falls, Inc., for $500,000. The new company ... proposed to build a model industrial city near the banks of the Savannah. However, in 1929, the [stock market] bubble burst.

But Pat did not give up. He went to California in 1933 or 1934 to be near a married daughter. In 1936, after renewing some earlier business acquaintances, he engineered a favorable lease for the Barnesdall Oil Company. Soon, the first of several oil strikes occurred. With his new success, Pat Calhoun moved into a handsome home in Pasadena.

On the evening of June 15, 1943, upon returning from a party, Pat was struck by two young “hot rodders” as he crossed the street at his home. He died the next day.

Patrick Calhoun, the fabulous entrepreneur, is buried in the Calhoun family plot on Cemetery Hill.
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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.

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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.
Clemson’s Senior Platoon was active on campus from 1930 through 1960. Today, along with the Clemson Corps, the Alumni Senior Platoon stays involved by supporting our Army and Air Force ROTC programs and cadets. The former members of the Senior Platoon are a part of Clemson’s long-standing military heritage. They share the mission with the Clemson Corps to keep that heritage alive. You, too, can help honor the University’s military heroes.

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Nearly 1 million new residents are expected to move to South Carolina in the next 20 years, making it one of the fastest growing states in the nation. With a projected population of 5 million by 2025, our state is ranked 19th in growth rate compared to 41st in geographic area.

As the population grows, more schools, medical facilities, fire and police protection, as well as housing and commercial developments, are needed. City and county governments are facing tough questions about how to balance population growth and quality of life.

Clemson Public Service Activities personnel are providing the science-based information to help local leaders make informed decisions on these issues.

One team of experts is looking at the effects of public policy on growth patterns, another at the economic impact of growth and another at the environmental impact. Their findings are serving as models for communities across the state and nation.

Planning ahead

“Where there are roads, water and sewer lines close to urban areas, growth is more likely to occur,” says Jeff Allen, director of the S.C. Water Resources Center at Clemson’s Strom Thurmond Institute of Government and Public Affairs. This seems obvious, but the scale of growth can be surprising.

Leaders in the three-county Charleston area were shocked when Allen’s team projected that the urban land area could expand more than tenfold. The model developed by the Clemson team showed land in the Charleston area being converted from rural to urban uses at a rate six times higher than the rate of population growth. At this rate, the Charleston urban “footprint” could expand from 70 square miles in 1973 to 868 square miles in 2030.

“Clemson’s Charleston region growth model captured, for the first time in a visual way, the rapid change that is happening along the coast in terms of population and urban growth,” says Rick DeVoe, executive director of the Sea Grant Consortium. “Decision makers can use these projections to plan for growth and adjust their policies.”

The growth model was expanded to include the entire eight-county coastal region with funding provided by the National Oceanic and Atmospheric Administration. It’s now being applied to other regions, such as the Upstate.

Keeping out of the red

Population growth can also have some surprising economic consequences. As new residents move in, they require additional services and facilities — from schools to health to recreation. An economic development team, led by Bill Molnar at Clemson’s Institute for Economic and Community Development, is changing the way communities look at residential growth.

When Lancaster County was considering proposals to add 13,800 new homes, Molnar and Chip Taylor from the Thurmond Institute conducted a fiscal impact assessment. They reviewed costs and benefits and discovered that the county could lose money on the projects. Over 10 years, the county would spend $5 million more to build the required infrastructure and provide additional services than it would collect in property taxes and revenues.

As a result of the analysis, Lancaster County officials made significant policy changes to recover their costs. New fees and developer requirements will fund library, recreation, fire and EMS facilities. In addition, developers donated land and funding to build the facilities. Because of these changes, the county is no longer looking at a deficit when the new neighborhoods are developed; instead, their budget will be in the black.

“Rural counties are dealing with demands we’ve never faced before,” says Chap Hurst, Lancaster County administrator. “This study is the first time we’ve been able to demonstrate the cost of new housing developments.” The Clemson team is now conducting similar fiscal impact analyses under contracts with cities and counties across the state.

Staying green

Another effect of growth is on the environment. As urbanization occurs, forests and farmland are converted to roads, parking lots, houses and other buildings. This reduces the land’s ability to absorb heavy rains, causing erosion and pollution of streams and lakes. A team, led by Clemson biosystems engineer John Hayes and environmental toxicologist Steve Klaine, is providing alternatives for municipal planners to limit stormwater runoff and its effects, while allowing appropriate development.

The Clemson project, called “CLUE” for Changing Land Use and the Environment, is funded by a USDA grant. CLUE is educating municipal officials, designers, building contractors and the public in stormwater management. And water quality specialist Cal Sawyer is showing the public how the choices they make — such as dumping used motor oil into streams or using too much fertilizer on lawns — can affect their community’s waterways. The results are being tracked in two watersheds, one on the coast and one in the Upstate.

These and other efforts by Clemson Public Service Activities teams help ensure that, as more smiling faces move to South Carolina, our beautiful places will remain for all to enjoy.

For more information on South Carolina growth management, contact Bob Becker, director of the Strom Thurmond Institute of Government and Public Affairs, at (864) 656-4700 or rhb1@clemson.edu or visit the Web at selfcenter.clemson.edu.
No matter how much engineers and manufacturers work to make automobiles safer, there’s one part they can’t control — as my mother used to say — “the loose nut behind the wheel.”

Of course, she was referring to “the other driver,” not herself. Truth is many of us tend to think we drive better than we actually do.

In an effort to increase driver and pedestrian safety, Clemson’s psychology department has been conducting a series of research projects that explore road users’ capabilities and limitations. Their goal is to achieve a better understanding of drivers so that transportation systems will be designed accordingly.

Researchers include psychology faculty Johnell Brooks, Rick Tyrrell, Fred Switzer and Lee Gugerty, assisted by graduate and undergraduate students. They’re joined this year by a national leader in transportation research, Fred Owens, who is on sabbatical from Franklin & Marshall College in Pennsylvania to work at Clemson.

Their research ranges from cell phones to new dashboard displays to night driving and pedestrian safety. Much of their work takes place within a driving simulator. The simulator facility, housed on the third floor of Brackett Hall, has a full car, eight networked computers and surrounding projection screens.

Matters of age
Alumna Johnell Brooks ’98, M ’02, Ph.D. ’05 has been involved in transportation research with university and high school students, roadway workers and senior citizens in the United States and Australia. In fact, the last three years of her doctoral work was funded by a prestigious Dwight D. Eisenhower Graduate Transportation Fellowship for more than $100,000 from the Department of Transportation. She’s the first Eisenhower Fellow in the state.
Her primary interest is investigating the relationship between how well drivers of different ages think they can see and drive in different visually challenging conditions as compared to how well they actually perform.

In a recent study, Brooks asked drivers who ranged in age from 18 to 80 to drive the simulator. Participants did their best to stay in their lane while driving at a moderately high speed on an unusually curvy road as Brooks manipulated the light conditions. Before driving, participants had estimated how well they thought they would be able to see and steer in the different conditions.

“Although drivers were surprised by their ability to stay within their lane in the dimmest lighting conditions,” says Brooks, “the older drivers overestimated their ability to see, and both university students and middle-age adults underestimated their ability to see. None appeared to appreciate that the visual skills needed for steering are different from those that allow us to see objects.”

This research has implications for drivers, pedestrians and roadway designers, whose knowledge of selective degradation could result in increased nighttime safety.

**Night vision**

She and fellow researcher Rick Tyrrell are also collecting data on steering accuracy in challenging conditions such as increased levels of blur and reduced visual fields in addition to different levels of fog.

Tyrrell, who has studied night vision for more than 20 years, is focusing on drivers’ ability to see pedestrians at night. He completed a study on a closed-road test track in Australia to determine the effects of driver age on ability to see pedestrians in different clothing conditions. His studies aim to answer two questions: What are the safety implications of drivers’ not being able to see well at night? And why are people not aware of this problem?

“Although nobody sees well at night, few people realize just how impaired their night vision is,” says Tyrrell. “Because we find it so easy to steer our vehicles, we get fooled into thinking we can see everything we need to see. But we might be completely unaware of the jogger who is right in front of us.”

Much of the focus is on the pedestrians themselves — including trying to convince pedestrians that they are not as visible at night as they think. Tyrrell and Brooks are collecting related data from S.C. Department of Transportation workers. These “professional pedestrians” are at particularly high risk at night. This spring, they’ll concentrate on Spanish-speaking roadway workers.

Tyrrell is also leading a Michelin-funded study of drivers’ reactions to the automated tire pressure monitoring systems that will soon be standard in all new vehicles.

**Risky business**

Fred Switzer’s research examines drivers’ response to risks. He looks at how much drivers notice when driving conditions are worsening — heavier traffic, settling fog, roadway construction — and how they react if they do notice.

His team designed a novel dashboard display — a small computer screen similar to in-car navigation systems. The test simulates a situation in which the driver comes up on a car in the fog. The display shows the leading car, even when it’s still out of visibility range.

“We found that people fall into two groups: followers and laggers,” says Switzer. “Followers keep you in sight no matter how fast you’re going or how close they have to follow. Laggers fall back until they can’t see you through the fog.”

Last summer Switzer’s team did a study involving a number of other risks, such as nondivided vs. divided highways. His findings showed that, unless drivers are cued in some way to pay attention, most miss the subtle increases and decreases in environmental risks while they’re driving.

Lee Gugerty’s research includes the effects of drivers using cell phones. His team compared how different kinds of verbal interaction — with a fellow passenger or on a cell phone — affected driving spatial tasks and drivers’ awareness of the road situation. His team is also studying drivers with Attention Deficit and Hyperactivity Disorder.

He and Brooks have examined how people make navigational decisions. Much of their research is based on a task needed to operate unmanned aerial vehicles. Their studies investigated the types of strategies that novice and experienced navigators use to make cardinal direction judgments. While these judgments are important and necessary in navigation, people in general aren’t very good at this task.

By understanding strengths and limitations of the human factor, Clemson psychology professors are working to make us all better and safer drivers. For more information or to become a participant, call Johnell Brooks at (864) 656-1703.
Tigers among top in graduation

Nine of Clemson's 15 sports programs scored a perfect 100 percent graduation rate according to the Graduation Success Rate (GSR) figures announced by the NCAA in December. Clemson ranked seventh in the nation among the 119 Division I-A institutions in percentage of programs with a perfect 100 percent score.

The study takes into account scholarship student athletes who entered institutions over a four-year period from 1995-98. Schools are not penalized for student athletes who transfer to other schools before the end of their eligibility. Those who turn professional are also not counted against the institution.

The Clemson programs that posted 100 percent graduation rates were baseball, men's golf, men's soccer, men's tennis, women's soccer, women's swimming, women's tennis, women's track and volleyball. Every Clemson program that existed when the study began in 1995 had at least a 75 percent GSR.

The Clemson football program had a 94 percent figure, second among the schools ranked in the top 25 of the final regular season USA Today poll. The Tigers ranked fourth among all Division I-A institutions. The only schools that were higher were the United States Naval Academy (98 percent), Notre Dame (96 percent) and Wake Forest (96 percent).

Champs!

The Tigers beat Colorado 19-10 in the Champs Sports Bowl on December 27 in Orlando, Fla., cheered on by a Champs Bowl record crowd of Clemson fans.
The Top Five **Little-Known** Facts about Charleston, South Carolina

1. Charleston boasts the first public college, museum, and playhouse in the United States.

2. George Gershwin composed his famous folk opera “Porgy and Bess” while living at a local Charleston beach.

3. The first game of golf played in the United States took place in Charleston.

4. North America’s longest cable-stayed bridge spans the Charleston harbor.

5. **Charleston is home to Blackbaud, the South’s premier high-tech employer.**

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Clemson President Jim Barker often doodles when he thinks, to give ideas and concepts concrete shape and substance. What emerged from a recent brainstorming session is a map of South Carolina highlighting Clemson’s widening presence and growing role in economic development throughout the state. The hand-drawn sketch featured a series of red dots designating locations of traditional agriculture-oriented Research and Education Centers (RECs), blue squares showing relatively new economic development initiatives and a Tillman Hall icon to indicate the main campus.
The idea behind the doodle: Clemson is reinventing — in fact, improving — the century-old land-grant model of economic development.

“I started with the existing REC's because one point we need to remember is this: There's nothing new about Clemson University's involvement in the economic development of South Carolina. It's the reason we exist as an institution,” says Barker. “When Thomas Green Clemson talked about his vision of a college to teach scientific agriculture, he was making plans for the economic development of the state.”

South Carolina today

Throughout our history, Clemson has supplied the educated manpower that helped South Carolina's economic base expand from growing and weaving cotton to manufacturing films and fibers to assembling automobiles. It has helped South Carolina progress by directly advising agribusiness and industry on best practices for everything from seed selection to energy conservation to tourism planning and management.

Our state faces a different kind of challenge today caused by the twin pressures of rapid technological change and globalization. A broad coalition of business and political leaders is again dedicated to the task of bringing more and better-paying jobs to the state. The Palmetto Institute has set a goal of increasing the personal wealth of every S.C. citizen. Currently, South Carolinians earn only 82 cents for every dollar earned by the average American — and the gap is widening (The Palmetto Institute). According to the FDIC Regional Profile, in the second quarter of 2005 South Carolina ranked 50th in the nation in job growth and had America's sixth highest unemployment rate. Neighboring North Carolina — despite losing more textile jobs over the last five years (National Council of Textile Organizations) — had healthier job growth and lower unemployment.

The reason? North Carolina has focused on quality higher education. In the words of Microsoft founder Bill Gates: “There is an almost perfect correlation between the number of good jobs in a region and the strength of its universities.”

Key word is 'create'

There’s a subtle but very important difference between technology development and technology creation. One has to do with applying technology to problems identified by existing industries, the federal government or other partners. Clemson has over 100 years of experience at that.

The other involves creating new products and technologies and even new industries through innovation. And while Clemson has been successful in that role in some areas of agriculture — developing new types of plants and production or harvesting technologies — in many ways we’re fairly new to this arena.

“The path Clemson is now on is, in one sense, an extension of the traditional mission while also being a very new challenge,” says Barker. “In one, the University is an important part of the process.

It is a well-proven method. According to the Milken Institute, the healthiest state economies have been — and will continue to be — those where business has spun off from and clustered around excellent research universities to create concentrated, self-sustaining economic activity in a specific sector.

“The path Clemson is now on is, in one sense, an extension of the traditional mission while also being a very new challenge,” says Barker. “In one, the University is an important part of the process.

That means brain power: a well-trained work force, a cadre of well-educated professionals, top-flight scientists and researchers, and the innovations they generate.

And that brings us back to the new map of South Carolina — a map showing how Clemson is leading a new era in economic development — a map that starts not at CU-ICAR or at a REC but at Tillman Hall.

The strategy

“The most important thing we can do for the South Carolina economy is to prevent the best and brightest from leaving our state to study, settle, work, build businesses and pay taxes elsewhere,” says Barker. “We also need to attract the best students from other states to come here for the same reasons.”
With one of the nation's most generous scholarship programs and a top-35 academic ranking, Clemson is attracting more and more of the "best and brightest." Last fall, in competition with every other institution in South Carolina — public and private — Clemson enrolled 35 percent of all the Palmetto Fellows. If we look only at those students who enrolled in public colleges and universities, 44 percent chose Clemson — a 24 percent increase over just last year.

Clemson's economic development strategy doesn't begin with research and graduate education but with improvements in the undergraduate curriculum:

• a new core curriculum that focuses on competencies (such as communication skills, critical thinking and ethical judgment) rather than a list of courses;
• enhanced support systems such as the Academic Success Center, classroom technology and living-learning communities;
• value-added enrichment opportunities including study abroad, service-learning and undergraduate research.

The second major part of the strategy was the designation of eight emphasis areas, including many that align directly with South Carolina's leading industrial sectors, such as automotive and transportation technology, advanced materials, and biotechnology and biomedical sciences.

“Research-oriented emphasis areas meet three criteria: existing faculty strength, alignment with state needs and opportunities for significant external funding,” says Chris Przirembel, vice president for research and economic development. “Each represents an area where we believe we can build internationally competitive programs.”

After strengthening the undergraduate base and selecting a few areas of focus, Clemson's economic development strategy needed just one more ingredient: funding. South Carolina’s General Assembly stepped up and, in just three years, enacted four major legislative initiatives that support research focused on economic development:

• Research Centers for Economic Excellence Act (2002)
• Economic Development Bond Act (2002)
• Research University Infrastructure Bond Act (2004)
• Innovation Centers Act (2005)

These legislative initiatives have provided funding for faculty endowed chairs that will help Clemson (and other S.C. research universities) recruit senior talent and has helped build research infrastructure, such as buildings and equipment.

The new model

These initiatives have helped expand the impact of Clemson into a new map inspired by President Barker’s doodle — one that shows traditional RECs and an equal number of initiatives that have emerged or grown with the help of new state funding, including:

• Clemson University International Center for Automotive Research in Greenville,
• Advanced materials research cluster at the Clemson Research Park in Anderson County,
• Clemson/Greenville Hospital System alliance in bioengineering and biomedical science,
• Clemson/Greenwood Genetic Center alliance in biotechnology,
• Clemson University Restoration Institute in North Charleston,
• Clemson Architecture Center in Charleston,
• Clemson/MUSC Alliance in bioengineering in Charleston.

“This is the new footprint of Clemson University in South Carolina — reaching from the mountains to the sea, and following a well-known path of going where the industries are,” says Barker.

These initiatives are case studies that will shape the continuing evolution of traditional RECs — retrofitting the 19th century land-grant model to serve the needs of a 21st century knowledge-based economy.

Success has come from:

• alignment with established research programs and faculty strength;
• targeted graduate degree programs;
• strong focus on collaboration;
• availability of land to accommodate spinoff companies and attract new industries that want to be in close proximity to faculty and graduate students;
• endowed chairs program, which helps attract senior, highly credentialed faculty who can quickly establish a core group of colleagues and graduate students.

Because this new model begins with a foundation of strong undergraduate programs and engages existing RECs, it can be undermined by continued cuts to core teaching and outreach budgets.

In the past several years, as state funding for research related to economic development soared, Clemson lost a fourth of its academic and public service state funding to budget cuts. Significant tuition hikes helped stabilize the academic budget, while massive retirement incentives and restructuring saved public service activities. However, neither continued double-digit fee hikes nor program cuts are considered a viable long-term strategy.

“Increased base funding for academics and outreach, coupled with the state's proven commitment to scholarships and research incentives, will secure the kind of future we want for South Carolina,” says President Barker, “a future with an outstanding quality of life and affordable, accessible educational opportunities.”
You can make a difference!

The number of alumni who make a gift every year is a key factor in Clemson’s becoming a top public research university. More significantly, your support benefits our students, helps increase the value of every Clemson diploma and makes our graduates more competitive in the job market.

Use the envelope enclosed in this magazine, or go to www.clemson.edu/isupportcu to make a gift to the 2006 Clemson Fund.

Your gift counts!

To reach our 2006 goal of 27 percent alumni participation, we need 21,142 donors to make a gift to the Clemson Fund by June 30, 2006, the end of the fiscal year. To see how the participation rate of your class or Clemson Club stacks up, go to www.clemson.edu/giving and click on class or club participation goals.

See the gift envelope enclosed in this magazine to find out how to win tickets to the Clemson vs. South Carolina football game on Nov. 25, 2006!
Alumni Fellow — Charles K. Watt ’59

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

Engineering alumnus Charles Watt has had an extraordinary career in private-sector business, technology development and higher education.

After graduating from Clemson, Watt earned a master’s degree and Ph.D. in engineering from George Washington University. He served as the chairman and founder of four advanced technology companies and as the director on several industry and academic boards. While working for the Department of Defense, Watt provided executive leadership in various areas including the Office of the Secretary of Defense.

At Clemson, he has served as a faculty member, associate vice president for research, chairman of the Electrical and Computer Engineering Board, and a member of the President’s Advisory Board and Research Foundation Board.

He worked to establish international research and exchange programs with Hong Kong University of Science and Technology, East China University, Technical University of Budapest and Moscow Aviation Institute. Watt’s leadership has established Clemson as a lead university for the National Textile Center, resulting in grants of more than $60 million in the past 12 years. He has also secured grants for apparel research, network and communications projects totaling more than $10 million.

Watt has received numerous awards including the Distinguished Service Award from the Secretary of Defense and the Special Service Award from the U.S. Congress. At Clemson, he’s been inducted into the Thomas Green Clemson Academy of Engineers and Scientists, and at George Washington University he received the Alumni Achievement Award.

He and his wife, Linda, have two sons who are also Clemson graduates, Steven ’81 and Michael ’84.

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

Meet Mike

The new director of business development for the Clemson Alumni Association, Mike Bonnette ’96, M ’99, certainly isn’t new to Clemson. The Orangeburg native holds two Clemson degrees, a bachelor’s in agricultural education and a master’s in human resource development.

As a graduate student in 1998, he served as the interim development director for the College of Agriculture, Forestry and Life Sciences (CAFLS) and has been involved with the CAFLS Alumni Board of Directors for nearly 10 years, as a student, University employee and alumnus. After graduation, he worked in rebate fulfillment and database marketing in the agricultural chemical industry in Charlotte, N.C.

Now for the Alumni Association, he manages all revenue-producing initiatives including the MBNA Credit Card partnership, travel, insurance and merchandise programs. He’s also responsible for generating new opportunities in sponsorships, affinity programs and marketing of current and new programs.

To see what the Alumni Association has to offer, visit the Web at alumni.clemson.edu and click on “programs and services” and “merchandise.”

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Outstanding young alum

Sociology graduate Chris Seamands '95 of Alexandria, Va., is Clemson's latest Outstanding Young Alumnus. One of the founding members of the D.C.-area Clemson Young Alumni (YA) group, he's worked tirelessly to create a Clemson home-away-from-home for graduates in the area.

He's served as Clemson representative for the Capital Alumni Network, helped coach softball, organized social events and served as chairman for the Clemson National Day of Service. He's edited a YA newsletter in his area, helped create the pilot program for YA support of the Clemson Fund and helped design the D.C.-area YA Web site.

Seamands, pictured right with Ben Smith '99, is a statistician for the U.S. Census Bureau in Suitland, Md., where he has received special achievement awards for his work.

Magnificent Italy

Clemson travelers, pictured here in a photo shot by Winston Whitlock, enjoyed Italy's Lake District as part of the Alumni Association's PASSPORT Travel program.

They stayed in Baveno on Lake Maggiore, sheltered by an Alpine ring, and visited Borromean Islands, a region displaying a picturesque archipelago, often considered by artists to be one of the most splendid landscapes in the world.

Upcoming travel adventures include a Spanish land trip based in Ronda and cruises of 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.”

Reunion tent


More details will be announced as planning continues.

Top profs

Since 1962, the Alumni Association has named Alumni Distinguished Professors to recognize, reward and support excellence in teaching at Clemson.

Over the years, 57 individuals have received this most significant recognition, including 19 active faculty members on our campus today.

Pictured here are retiring Alumni Distinguished Professors Joel Brawley (left) and Tom Wooten (right) with his wife, Helen.

The rigorous selection process to replace retiring faculty members includes review by students, faculty and Clemson’s top academic administrators. On average, each Alumni Distinguished Professor has completed 18 years on the Clemson faculty prior to being named an Alumni Distinguished Professor. The designation carries a $5,000 yearly stipend made possible by alumni gifts to the Clemson Fund.

Tailgating in Atlanta

The Atlanta Clemson Club hosted a large gathering of Tigers before the Clemson vs. Georgia Tech game in October.

Pictured from left are Matt Watkins '77, M '81, senior director of alumni relations; Brian O'Rourke '83, M '85, director of development and alumni affairs; Andrea Schinck MacMeccan '99, M '00, a Women's Alumni Council officer; and Joe Hood '97, a Clemson Black Alumni Council officer.

The Alumni Association sponsors 51 Clemson Clubs in 18 states. Clemson Clubs help alumni stay connected to the University, Tiger sports and each other. For more information about a Clemson Club in your area, call Randy Boatwright at (864) 656-2345, email brandol@clemson.edu or visit the Web at alumni.clemson.edu/clubs/roster.htm.
Chicago trade show

Graphic communications major Lucy Belcher (pictured left) worked as the creative services intern last spring within the marketing department with Heidelberg U.S.A. Inc. in Kennesaw, Ga., the world’s leading print solutions provider.

Belcher’s responsibilities involved creating in-house design work, preparing and submitting ads to trade publications and supporting the marketing group. She had the unique assignment of designing the May/June 2005 cover for IPA Bulletin magazine.

Belcher along with four other Clemson interns — Pamela Pryor (pictured right), Kelly Hansen, Matt Wimberly and Steven Meade — joined the company in working a booth at Print ’05, the nation’s largest printing trade show, hosted at the McCormick Center in Chicago, Ill.

Interner with Inglis


He roomed at George Washington University, two blocks from the White House, and worked at Cannon House Office Building. He delivered items to offices within the Capitol on a daily basis, gave tours of the dome and galleries to visitors, and assisted the congressman in other ways.

Building Barrett’s Place

Approximately 1,000 Clemson students, faculty and staff pitched in to help build Barrett’s Place, a memorial playground in Veterans Park in Pendleton, last fall.

Clemson students continue to expand their community involvement. The University recently received an AmeriCorps*VISTA (Volunteers In Service To America) grant through the S.C. Collaborative for Civic Engagement. The collaborative consists of a group of S.C. colleges and universities dedicated to bridging town and gown to improve the standard of living in South Carolina.

Community scholars

A new initiative is bringing academically talented, socially conscious and civically engaged students to Clemson to integrate public service with their undergraduate experience.

The Community Scholars program offers four-year scholarships for selected students. Scholars participate in service-learning activities in communities across the state. It also includes a stipend for service abroad in the junior year and a community research project in the senior year.

During the first two years, Community Scholars (pictured here) live together with like-minded students on a designated floor of the Clemson House that has been named the Civics and Service House. For more information, contact Kathy Woodard at (864) 656-0205 or ckathy@clemson.edu.
In The S.P.O.T. light

The S.P.O.T., sponsored by the Gantt Intercultural Center, is a popular new monthly program held in Edgars Gathering Place for Clemson students, faculty and others. An acronym for spoken word, poetry, open mic and talent, it offers a lyrical outlet with at-will performances and interaction between speakers and their audiences.

Pictured here from left are Kaelyn McClary, Capri Neal, Latoria Johnson, April Smith, Cindy Hampton and Victoria Reddick.

Founded by postgraduate student Michael Bolling, the program gives students an alternative to going downtown or to parties and provides a creative way to express individuality in a relaxed, entertaining environment.

For more about The S.P.O.T., or other programs provided by Clemson’s Gantt Intercultural Center, contact Angela Davis at (864) 656-1400 or visit the Web at ststaff.clemson.edu/gic/digest.

Learning luncheon

Clemson trustees heard about individual student experiences from current students, and the students learned more about the people who help guide the University.

Pictured are Clemson Trustee Louis B. Lynn ’70, M ’72, president and owner of Enviro Ag Science Inc. of Columbia, and secondary education-English major Katie Schooler, student body chief of staff for the President’s Cabinet, during a fall luncheon.

Winning design

Clemson students majoring in architecture and construction science and management brought home first place in the AGC/ASC Design-Build Student Competition for the Southeastern region, sponsored by Rodgers Builders Inc.

Student teams were given 13 hours to develop a conceptual design and prepare a written proposal for a $12 million dormitory in Charlotte, N.C. The proposal included an estimate, value engineering options, project schedule, conceptual design, floor plans, architectural renderings and team company information. The following day, teams made an oral presentation to a panel of judges.

The winning Clemson team, coached by professor Shima Clarke, will go to the national competition in April to match skills with six other regional winners. Pictured from left are Tristan Cunio, Jill Hazel, Cody Albergotti, Frank Cardella, Jessica Latour and Colin Baker.

Therapeutic scholar

Graduate student Angela Conti of Cincinnati received the 2005 Peg Connolly Scholarship from the American Therapeutic Recreation Association (ATRA). She’s pursuing a master’s degree in parks, recreation and tourism management with a concentration in therapeutic recreation.

ATRA provides opportunities to reward students who demonstrate exceptional competence in the field of therapeutic recreation on the basis of their academic achievement, personal and professional philosophy, leadership skills and other occupational achievements.

Most of Conti’s volunteer and work experiences have been with older adults in long-term care. She’s worked in a camp setting with children and adults with developmental and physical disabilities and assisted in a therapeutic horseback-riding program for children with disabilities.
1943
Samuel B. Deal (CH) of Holden Beach, N.C., and Julius H. Mappus (CHE) of Charleston along with the late Joseph D. Dukes (CHE), Harold T. McGill (CHE) and Ralph H. Walker ('41 EE) are included in a book written by Michael Connelly, the son of a fellow officer of these classmates who served together in a World War II unit. The Mortarmen tells the story of the 87th chemical mortar battalion. For more information about the book, email the author at mrobertc@hotmail.com.

1962
Daniel J. McPherson III (CE) of Spartanburg, a senior project engineer with Hayes, Seay, Mattern & Mattern Inc., was selected to present a paper at the Water Environmental Federation conference in Washington, D.C.

Robert E. Wall (TS) of Lexington has retired after 42 years with Albany International.

1967
Ron W. Glass (M CHE, PhD ’70) of Clinton is an inaugural member of the Arkansas Academy of Chemical Engineering.

1969
R. Glen Ayers Jr. (HIST) of San Antonio, Texas, is in private law practice and lectures and writes on bankruptcy and related matters.

1970
Jewell P. “Coach Mac” McLaurin III (RPA) of Dillon was inducted into the S.C. Athletic Coaches Association Hall of Fame. A standout defensive back at Clemson, he has coached for 34 years. He’s athletic director and head football coach at Lake View High School.

1972
I. Lee Adams (INDE) of Columbia works with GNLD International, a whole-food nutritional supplement company.

John W. Richards Jr. (PREMED) of Evans, Ga., is owner, president and CEO of Innovative Health Strategies (IHS), AWAC®, and iProcert in Martinez. IHS’s business model and AWAC®’s proprietary technology were chosen by the Newt Gingrich Center for Health Transformation as examples of better health and lower costs.

1974
*Charles C. Baker (INDMGT) was named Clemson Area Chamber of Commerce 2004-2005 Ambassador of the Year. He’s with Strickland & Baker Financial Inc. and serves on the University’s student affairs advisory board.

High flying
Hugh A. Woodle ’51
Chemical engineering graduate Hugh Woodle of Midlothian, Va., is still seeing the country from a bird’s-eye view. He’s pictured here with his 59-year-old Cessna 120 at Leadville, Colo., at the highest public-use airport in the nation.

The challenge of his flight was to travel about 140 miles west of Colorado Springs over and around 14,000-foot mountains in thin air that takes away 80 to 90 percent of the performance of older, normally aspirated aircraft.

Woodle has been a major force in efforts to perpetuate Clemson’s proud military heritage including his work as fund-raising chair for the Military Heritage Plaza. He’s also active in IPTAY.

‘Global Vision’
Palmer E. “Satch” Krantz ’72
Zoology graduate Satch Krantz, executive director of Riverbanks Zoo and Garden in Columbia, is recipient of the 2005 Global Vision Award from the Columbia World Affairs Council.

Krantz is one of only three American zoo directors to have served as president of both the American Zoo and Aquarium Association and the World Zoo Organization. He received the International Ambassador of the Year Award from the Committee of 100 in 2002.

He’s been on 13 African safaris and traveled to the Virunga Volcanoes in Rwanda to observe mountain gorillas in their native habitat. In 2002, he and several friends trekked 120 miles across the Tsavo National Park in Kenya, only the second time anyone had ever walked the park’s entire width.

Krantz has served his community, profession and Clemson in a variety of ways including as president of the University’s Board of Visitors. He and his wife, Becky, have two sons, who are also Clemson graduates, Eric ’02 and David ’05.

*Active Clemson Fund donor for 2006 Fiscal Year (July 1, 2005-June 30, 2006) through November 15. For more information, call Annual Giving at (864) 656-5896.
**Saving shellfish**

*Jack M. Whetstone '75, M '78*

Aquaculture specialist Jack Whetstone, who works through the Clemson University-S.C. Department of Natural Resources Cooperative, was recently noted for his work with the S.C. shellfish industry. Whetstone received a Superior Outreach Programming Award from the South Atlantic Sea Grant Region (the Carolinas, Georgia and Florida) and recognition from the USDA for his outstanding regulatory work in the shrimp industry.

A member of Clemson’s forestry and natural resources department and the S.C. Sea Grant Extension Program, he was selected by the EPA to help develop regulations for reducing nutrient discharges from shrimp farms without putting the farmers out of business. His group developed guidelines to regulate discharges by timing harvest and pond drainage around a cycle that allows solid wastes to settle to the pond bottom first.

The Clemson Alumni Association honored Whetstone for his work both with the EPA and the state’s aquaculture industry with the Distinguished Public Service Award last year. He’s pictured (left) receiving the award from Brian O’Rourke, director of development and alumni affairs. Whetstone holds Clemson degrees in zoology and wildlife biology.

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**1975**

*Michael P. Bull (ADMMGT)* of Saint Simons Island, Ga., is superintendent of the Glynn County school system in Brunswick.

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**1976**

**Viktor I. Jonkoff (CHE)** of Fairfax, Va., a colonel in the U.S. Air Force, retired after more than 28 years of service. During the retirement ceremony, he was decorated with the Legion of Merit Medal. Prior to retirement, he served as the acquisition group deputy director at the National Reconnaissance Office in Chantilly.

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**1977**

**William H. Burton III (ADMMGT)** of Spartanburg is CEO of Café Enterprises Inc., parent company to Fatz Café, which was named to the Restaurant & Institutions magazine’s 41st annual Top 400 list for the third year.

*Cynthia Parr Detuelo (ELEM, M ’80 ADMSPV)* of Columbia retired as an administrator in public education after 28 years. She was named director of education at EdVenture Children’s Museum, the 10th largest children’s museum in the U.S.

*Alan M. Wind (SED) of Marietta, Ga., a teacher at Chattahoochee High School, conducted a session at the Georgia Council for the Social Studies Conference on writing and performing original historical plays in class.*

*Scott D. Myers (ME) of Lutherville, Md., received the 2005 Pioneer Award by the Association for Unmanned Vehicle Systems International. He’s with General Dynamics Robotic Systems.*

*D. Harding Stowe (TEXTT) of Charlotte, N.C., is president and CEO of R.L. Stowe Mills. He hosted George W. Bush when the president visited one of the Stowe plants.*

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**1978**

**Scott D. Myers (ME)** of Lutherville, Md., received the 2005 Pioneer Award by the Association for Unmanned Vehicle Systems International. He’s with General Dynamics Robotic Systems.

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**1979**

**Bruce W. Cooley (POSC, M ’90 BUSADM)** of McCormick is county administrator for McCormick County.

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**Judging exports**

**Brian H. Nilsson ’83**

History graduate Brian Nilsson of Arlington, Va., is with the U.S. Department of Commerce’s Bureau of Industry and Security. He recently became chairman of the operating committee for export policy.

The Bureau of Industry and Security is responsible for licensing dual-use items for export. The United States regulates commodities, software and technology based on international commitments to the multilateral export control regimes. The U.S. Department of Commerce also manages items unilaterally for crime control, regional stability and anti-terrorism reasons.

Nilsson is an administrative judge, hearing cases for proposed exports of dual-use items on which the departments of Commerce, Defense, Energy and State cannot agree. He serves as an impartial third party, writing and issuing a decision on each case.
*Mark D. (MATH) and *Lynne Hagan (*’82 SED-PS) Foster are living in Wilmington, N.C. He’s president of the N.C. Orthopaedic Association and serving a three-year term as managing partner of Wilmington Orthopaedic Group.

1980
Robin Long Gunn (ECHED) of San Antonio, Texas, is a senior vice president of custom assessment programs with Harcourt Assessment Inc.

Donald J. Hamburger (AGE) of Charleston is chief operating officer for B.P. Barber & Associates Inc.

Kirk C. Heriot (INDMGT, PhD ’96) of Dahlonega, Ga., is teaching strategic management and entrepreneurship at Stetson School of Business and Economics at Mercer University in Macon.

Annaclair Lawson Kiger (FINMGT) of Columbia was selected by Insurance & Technology magazine as among the “Elite 8” for 2005. The award honors technology officers from the insurance industry who’ve made an outstanding contribution to their company’s success and demonstrated leadership, insight and innovation. She’s senior vice president for customer service and information technology for Colonial Supplemental Insurance.

1981
Nancy R. Adams (NURS) of Kingstree is a nursing instructor at Francis Marion University in Florence.

Dennis A. Martin (BIOCH) of Greenville is president of the S.C. Academy of General Dentistry.

1982
Karen Lybrand Dey (ACCT) of Lexington is controller and principal accounting officer for SCBT Financial Corp. and its subsidiary banks.

Jackie Taylor Langston (ENGL) of Roswell, Ga., received the Hall

International leader
Ampoon Kittiampon PhD ‘88

Applied economics graduate Ampoon Kittiampon of Bangkok, Thailand, has served more than two decades as a distinguished civil servant for the Thailand government. He’s currently Secretary General of the National Economic and Social Development Board and a member of the Board of the Bank of Thailand and also the chief economist adviser in the cabinet.

He’s held a vital role in international agricultural trade talks under the General Agreement on Tariffs and Trade and in the handling of such crises as the 2004 tsunami and bird flu.

Kittiampon continues to represent Thailand in international negotiations as the head of the Thai delegation in agriculture and forestry concerns. He remains connected to Clemson through his former adviser Edwin Faris, professor emeritus of agricultural economics and rural sociology, and his wife, Zorita, and his former teacher Myles Wallace, professor emeritus of economics, and his wife, Susan, retired agronomy professor.
Farmer for all seasons
Chalmers R. Carr III '90

Agricultural economics graduate Chalmers Carr is the current Lancaster/Sunbelt Expo Southeastern Farmer of the Year for South Carolina. The award is sponsored by Swisher International and the Sunbelt Expo.

He and his wife, Lori Anne Carraway Carr '90, M '92, own and manage Titan Peach Farms Inc. in Ridge Spring, the largest producer of peaches on the East Coast.

The Carrs' orchards cover almost 2,600 acres and produce 350 bushels per acre. Their total produce operation of more than 4,680 acres also includes 80 acres of watermelons, 50 acres of peppers and 10 acres of eggplant.

Titan produce is sold at many major supermarkets including BI-LO, Harris Teeter, Wal-Mart, Lowes Foods, Publix and Food Lion.

Beyond the orchard, Carr has been a leader in the S.C. Peach Council, which represents the state's wholesale commercial shippers as well as smaller basket growers. He has been instrumental in the council's partnership with Clemson and in major fund raising that's resulted in competitive grants.

His father, "Hap" Carr '60, is past chairman of the Clemson Corps and president-elect of the Alumni Association.

Robert C. Holmes (ET) of Louisville, Ky., is a captain with UPS and flies 747 aircraft. He's a major in the U.S. Air Force Reserves.

Angela D. Prosser (RPA, M '02 PRTM), program and events director for the city of Greenville, received professional designation as a certified festival and event executive.

1986

*Alma A. Evans (FINMGT, M '88 AGEC) of Summerville is a financial analyst for Santee Cooper. Last year she received the Trailblazer Award from Santee Cooper's Green Power program for outstanding achievement, vision and dedication in promoting Green Power in the Southeast.

Lee C. Rawl (EdS ADMSPV) of Homea Path retired from Anderson School District 2 and is now president of Forrest Junior College in Anderson.

Troy M. Terry (ENGL, M '91 ADMSPV, PhD '04 ED LDRS) of Clemson is director of graduate studies in education at Furman University.

1987

C. Douglas Johnson (ACCT) of Statesboro, Ga., assistant professor of management at Georgia Southern University, chaired professional development workshops for the practice theme committee of the Academy of Management's annual meeting in Hawaii. He led a workshop and was appointed to the Academy of Management Coalition to Increase Business School Faculty Diversity.

1988

Michael (ME) and Kimberly Robertson (*93 FINMGT) Burrafato are married and living in Laurens.

*William H. Marvin Jr. (FINMGT) of Dacula, Ga., is vice president of purchasing for Avado Brands Inc., owners of Hops and Don Pablo's restaurants.

Timothy L. Pritchett (ME) of Bethlehem, Pa., is plant manager for Sealed Air Corp.'s South Plainfield, N.J., plant.

1989

Chris A. Barbieri II (CPINSYS) of Roswell, Ga., received a master's of divinity degree from Emory University's Candler School of Theology. He's associate pastor at Sandy Springs United Methodist Church.

Lisa A. Cherry (RPA) of Alpharetta, Ga., is deputy director of parks and recreation for the Alpharetta Recreation and Parks Department.

Matthew T. Graham (BIOCH) of Jackson, Tenn., an interventional radiologist, is president of Jackson Radiology Associates.
**Outstanding engineer**

**Vicki Willis Ford ’96, M ’97**

Civil engineer alumna Vicki Ford of Bedford, Texas, has earned a national honor from her firm, Walter P. Moore. She received the 2005 Javier F. Horvilleur Outstanding Young Engineer Award to recognize design excellence, outstanding client service and business acumen.

Ford was selected from nominees throughout the firm’s nine offices nationwide. A senior associate and structural design engineer in the Walter P. Moore Dallas office, she joined the firm in 1998 and has been a key participant in many major projects. Ford is a licensed professional engineer in Texas and Maryland.

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**1990**

Eric S. Freshwater (ME) of Seneca is president of Palmetto Asset Services Inc.

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**1991**

Kathryn McLendon (ELED) and Michael A. (’92 INDE) Edmunds are married and living in Sumter. She’s an assistant professor of education at the University of South Carolina Upstate, and he’s plant manager with Federal Mogul Corp. in Summerton.

W. Thomas Freeland Jr. (MKTG, M ’92 BUSADM) of Greenville is vice president of residential and commercial business development of Overhead Door Company.

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Tammie J. Kaufman (PRTM) of Orlando, Fla., is an assistant professor in the Rosen College of Hospitality Management at the University of Central Florida.

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**1992**

Daren A. Arakelian (L&IT) of Troy, N.Y., is vice president of Standard Manufacturing Co. Inc. The company was awarded an $18 million contract from the U.S. Department of Defense to manufacture the physical training uniform for the U.S. Air Force. He reports that the Clemson Apparel Research Center staff helped in preparing for this contract.

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Kristen Casey Marshall (MKTG) is living in Newtown, Conn.

John R. McCoy (MKTG) is married and living in Simpsonville.

H. Calvin Pennington Jr. (FINMGT, ’94 ACCT) of Cumming, Ga., is revenue accounting manager with Cingular Wireless in Alpharetta.

Alethea “E.C.” Orfanedes Setser (ELED) of Mount Pleasant teaches kindergarten and online classes for PBS TeacherLine.

Derick M. Thurman Jr. (EA) is married and living in Charlotte, N.C. He’s a partner in the multi-state law firm of Shumaker, Loop & Kendrick LLP.

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**1993**

Yolonda Chaplin Brown (ELED) of Douglasville, Ga., is principal of C.W. Hill Elementary School in Atlanta.

Joe K. Collins (HORTT) is married and living in Helena, Ala. He’s sports turf manager at Samford University in Birmingham.

Jamie B. Howell (MGT, M ’94 BUSMGT) of Knoxville, Tenn., is sales manager/trainer for Boston Scientific Endoscopy.

Julie Anne Batchelor Hubert (GEOL, M ’94 ESE) is married and living in Martinez, Ga. She’s an environmental and safety manager for Cytec Surface Specialties.

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John M. (COMPENG, M ’95 EE, PhD ’98 EE) and Jill Hennessy (’94 FINMGT) Shea are living in Gainesville, Fla. He’s a tenured associate professor in the electrical engineering department at the University of Florida, and she’s a CPA.

Eric J. Spadavecchia (POSC) is married and living in Simpsonville.

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**1994**

Alissa Clapper Britain (ELED) is married and living in Riverside, Calif. She teaches kindergarten in Chino Hills.

Rhonda Hunter Brogdon (NURS) of Olanta is an instructor of medical/surgical nursing at Francis Marion University in Florence.

Allen Leland DuPre (ENGL) of McClellanville is an associate of the law firm Lyles & Lyles in Charleston.

Kimberly Anne Fowler Fly (MGT) of Spartanburg is business services officer for BB&T.

Jonathan P. Hunt (BIOCH, M ’01 ESE) of Florence, an environmental engineer with Hayes, Seay, Mattern & Mattern Inc., was selected to present a paper at the Water Environmental Federation conference in Washington, D.C.

Ashli Buckner (LSAH) and Tom J. (’97 ME) Morris are married.

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**Tigers at Stanford**

Craig Wenning ’97 and Matt Dunbar ’99

Accounting graduate Craig Wenning (left) and chemical engineering graduate Matt Dunbar received MBA degrees at the Stanford Graduate School of Business in June 2005.

Wenning, a former Clemson soccer student athlete, ACC Most Outstanding Senior Athlete and Norris Medal recipient, was named an Arjay Miller Scholar at Stanford. He’s now with Symmetry Capital Advisors in Dallas, Texas.

Dunbar, former Clemson student body president and Sullivan Award recipient, also received a master’s degree in education from the Stanford School of Education at the same time as a dual degree. He’s with Boston Consulting Group in Atlanta, Ga.

Dunbar is a driving force in Clemson’s Cemetery Hill Preservation efforts, and he helps Clemson World bring you “Cemetery Chronicles” each issue.
Tigers at MUSC

These Clemson alumni earned physical therapy degrees from the Medical University of South Carolina last year. All majored in pre-rehabilitation sciences unless otherwise noted.

Pictured, front row from left, are Cynthia Caughman ’03, Sarah Abel ’03, Jessica Frishberg ’03, Laura Reeves Robson ’03, Crystal Phillips ’03 and Allison Oneal ’02 (health science). Back row from left are Jeff Chapman ’01 (psychology), Sara Romansky ’03, Josh Long ’03, Alice Schwab ’01 (health science), Leann Stock ’03, Lisa Knott ’03, Eston Huff ’02 (health science) and Kristi Duke ’03.

and living in Lakeland, Fla. She's a Georgia registered landscape architect and works part-time in Florida. He's a plant manager for Plastipak.

Bethany Buckner Smith (INDE) is married and living in Watkinsville, Ga. She's a senior corporate recruiter for MAU Inc., a certified personnel consultant and a participant in LEAD Athens.

Michelle Wilson Walley (ACCT) is married and living in Simpsonville.

Peter S. Wludyka (PhD MGTSC) of Jacksonville, Fla., has published a book on statistics. He's an associate professor at the University of North Florida.

Ryan R. Hauck (CPSC) is married and living in Summerville. He's a software developer with Modulant Inc. and the national alumni association secretary of the national honorary musical fraternity Mu Beta Psi.

1996

Hillary B. Andrea (DESIGN, M ‘05 ARCH) of Greer is an intern architect with Paizdan-Smith Group Architects Inc. in Greenville in the firm’s Campus & Community Studio.

Dan M. (BIOLSC) and Mary Atmar Owings (PSYCH) Bradley are living in Mount Pleasant. He’s a lawyer, and she’s a speech pathologist.

Andrew R. Nelson (PRTM) of Duncan is the administrator at White Oak Manor Inc. in Shelby, N.C.

Andrew M. (CHEM) and Kirsten Glassmoyer (BIOCH) Pearson are living in Greensboro, N.C. He's a senior formulations chemist for Syngenta Crop Protection Inc.

Deborah Charyk Sanders (GRCOMM) is married and living in Baltimore, Md.

*Chuck R. (ACCT) and *Megan Heizer (M PACC) Welfare are married and living in Collierville, Tenn. They both work for Ernst & Young in Memphis.

1997

*Eric J. (ANSC) and *Laurie Zahlor (CE) Matkowski are married and living in Philadelphia, Pa. He graduated from the University of Pennsylvania Veterinarian School and is a small animal vet with Society Hill Veterinary Hospital. She’s an engineer with DVRPC, a regional planning commission.

Lindsay Stovall (HLTHSC, M ’98 HRD) and Wade D. (M HRD) Miller are married and living in Indio, Calif. He’s the tennis and fitness director at Eldorado Country Club in Indian Wells.

Craig Wenning (ACCT) is married and living in Dallas, Texas. He graduated from business school and is employed with Symmetry Capital Advisors.

Dramatic success

William N. Broyles ’03

Engineering graduate William Broyles is well on his way to making it on Broadway. He has landed a featured role in the national tour of Music Theatre International’s Broadway Junior On Tour. The show fittingly opened at Clemson’s Brooks Center last fall.

Broyles majored in electrical engineering and minored in theater at Clemson, making the dean’s list and gaining production experience with the Clemson Players, Pendleton Playhouse, Easley Foottills Playhouse and Electric City Playhouse in Anderson.

After Clemson he attended the American Musical and Dramatic Academy (AMDA) in New York City where he honed his skills under the direction of Broadway veterans. Since graduating from AMDA in 2005, Broyles has also appeared as Tulsa in a Texas regional theater production of Gypsy.
Tracking the news

Victoria J. Royer ’04

Communication studies graduate Victoria Royer is an associate producer for “Fox News Live” in the Fox News Channel studio in Washington, D.C.

She travels and produces in the field; for example, her work landed her in the aftermaths of hurricanes Katrina and Rita. Her stories vary from the search for the missing Alabama teen in Aruba to Supreme Court nominations.

Royer researches, writes and produces guest segments for the seven-days-a-week, multi-hour breaking and hard news program. She works closely with news reporters and writes the scripts for her segments. She’s also part of a current affairs show focusing on stories making headlines with an intense political concentration.

1998

*Jeffery B. (SCT) and *Bri Burelle (‘00 NURS) Arrowood are living in Oklahoma City, Okla. He graduated from the College of Dental Medicine at the Medical University of South Carolina and is in general practice residency at Oklahoma University.

*Elizabeth Skipper Huffines (PSYCH) is married and living in Mount Pleasant.

Aaron M. Jeffers (DESIGN, M ’00 ARCH) of Anderson is an intern with Pazdan-Smith Group Architects Inc. in Greenville in the firm’s Commercial Retail Studio.

Noelle Brown (GRCOMM) and Chris W. (‘00 CHE) Norfolk are married and living in Greer. He completed his doctorate in chemical engineering at the University of Notre Dame and is working as a project manager with the Applied Research and Development Institute.

1999

Jacob A. (COMPSC, M ’03 FAC) and Jennifer Brola (M ’02 FAC) Richards are married and living in Harrison, N.Y. He’s a lighting technical director for Blue Sky Studios in White Plains, and she’s a research and development production programmer for Blue Sky Studios.

2000

Jeffrey M. Davis (POSC) of Greensboro, N.C., is a partner in the law firm of Hunter, Higgins, Miles, Elam, & Benjamin, PLLC.

Kara Sexton (ACCT, M ’01 PACC) and Matthew J. (’01 CHE) Shealy are married and living in Newberry. She’s a CPA with PriceWaterhouseCoopers in Spartanburg, and he’s an engineer with SCDOT.

2001

Jill M. Armbruster (SP&COM) of Simpsonville is marketing coordinator for The Boudreaux Group and public relations chair on the board of the Contemporaries of the Columbia Museum of Art.

Dan J. Dodd (RPTM) of Fort Mill is senior project manager for Ellison Clary Comprehensive Public Relations in Charlotte, N.C.

Marla Demarcantonio Gaglione (POSC) of Logan Township, N.J., has completed her MBA degree at St. Joseph’s University.

D. Edward Jones (MICRO) of Raeford, N.C., graduated from Nova Southeastern College of Osteopathic Medicine and is completing a family practice residency at Fort Bragg, where he’s serving as a captain in the U.S. Army.

2002

Michael C. Barnes (HORT) of Ithaca, N.Y., is a Cornell Plantations Public Garden Management Fellow.

Dustin C. (MKTG) and Hope Heaton (ELED) are married and living in Greenville. He’s a financial specialist with Wachovia Bank, and she’s a registered nurse at St. Francis Women’s Hospital.

Laura Alexander (M CNLGUID) and Tyler J. (M ’04 CNLGUID) Page are married and living in Columbia. They are both working in student affairs at the University of South Carolina.

2003

Ben H. (MGT) and Lara Clemens (ECHED) Driggers are married and living in Columbia.

Kristine O’Connor Graham (AGE) is married and living in Prosperity. She’s a hydraulic engineer with SCDOT.

F. Gray Shealy III (DESIGN) of Flat Rock, N.C., worked on a

At the Embassy in Beijing

Ray M. Prock ’05

Construction science and management graduate Ray Prock of Seneca is helping to build the U.S. Embassy in Beijing. He is working in quality control and other supervisory measures with the American joint-venture team of Zachry-Caddell.

The new installation is the largest construction project ever undertaken by the State Department on foreign soil. It’s set to open in 2008 before the summer Olympic games in Beijing.

Prock, who’ll work at the site for a year, has also been involved with some diplomatic relations for his company, attending several dinners and other occasions as a representative. He was pictured in the Beijing Weekend newspaper last summer.
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.

With the average freshman SAT score at 1225, Clemson students have the right answers. BUT DO YOU?

Brush up on the latest Clemson alumni networks, events and news at alumni.clemson.edu.

TAPS


The 2006 TAPS may be purchased for $50 through the TAPS office, with tuition or online at www.yearbooksonsale.com.

For more information, call (864) 656-8277 or email taps@clemson.edu.

major architectural competition sponsored by the National Endowment for the Arts in Hendersonville last year. He was involved in the design and construction of the exhibit showcasing designs submitted from all over the world.

Jeremy M. Shyatt (MKTG) of Greenville is assistant basketball coach at East Carolina University.

Robert S. Stewart (POSC) of Lansdale, Pa., received his gold wings as a naval flight officer in a ceremony at Randolph Air Force Base, San Antonio, Texas. He’s an ensign in the U.S. Navy and will continue his training at Jacksonville Naval Air Station, Fla.

2004

Gabriel G. DiBiase (PRTM) of Camden is a mortgage consultant with South Carolina Bank and Trust in Columbia.

Hayley Adams Kern (PSYCH) of Athens, Ga., is a graduate assistant at the University of Georgia working on a master’s degree in educational psychology with an emphasis in research, evaluation, measurement and statistics.

Jennifer L. Page (BIOSC) of Ithaca, NY, is working on a Ph.D. in genetic engineering at Cornell University.

Ryan M. Turner (P-P ST) of Charleston is a third-year pharmacy student at the Medical University of South Carolina.

Jordan Gilmore (L&IT) and J. Russell Jr. (’05 PRTM) Watkins are married and living in Myrtle Beach.

2005

Colette F. Floyd (AVS) of Beaufort is working on a master’s degree in animal physiology at Clemson.

Mary Kate Flynn (MGT) of Gainesville, Fla., is a collegiate leadership consultant for Gamma Phi Beta Sorority.

Jennifer L. Gammon (AFWB) of Cowpens is living in Armenia working with the Peace Corps in environmental education.
Little Tigers


Raymond L. Sheedy '90, M '99, a daughter, Ansley Ruth, Aug. 6, 2005.


Ashley Witt Israel '94, a son, Hayden William, June 21, 2005. He's the grandson of Thomas M. Israel '63.


Ann Carol Sieverdes Murray '94, a daughter, Grace Elisabeth, July 9, 2005.


Jane Smith Davis '95, a son, Rafe Finnigan Pasquinli, Aug. 6, 2005.

Yolanda Chaplin Brown '93, a son, Jackson Caleb, Oct. 27, 2003.

Joe K. Collins '93, a daughter, Caris Anne, May 12, 2005.

Jay T. DeVane '93, a son, Miller James, Oct. 4, 2003, and a daughter, Emory Frances, July 24, 2005.

David J. Graham '93, a daughter, Isabella Rose, July 4, 2005.

Rebecca Garren Habbick '93, M '94, a son, Daniel Morgan, July 26, 2005.


Kristen Wagner Sanger '93, a son, Kobi, July 3, 2005.

John M. '93, M '95, PhD '98 and Jill Hennessy '94 Shea, a son, Tucker Hennessy, April 20, 2005.

Eric J. Spadavecchia '93, a son, Jacob, Sept. 4, 2005.


Elizabeth Carson Baker '96, a son, Carson Phillip, June 22, 2005.

David M. Boudolf '96, a son, Noah Martin, July 8, 2005.

Daniel M. and Mary Atmar Owings Bradley '96, a daughter, Ella Merritt, July 29, 2005.


Andrew W. '96 and Tracy Dean '97 Gaillard, a son, Ryan Wilson, June 20, 2005.


Anselle Blackmon and Bradford E. Marisco '97, a son, Davis Bradford, June 24, 2005.
Michael P. and Nicole Caputo


Mac '98 and Carmen DiBiase '01 Atkins, a son, Tilden Elliott, July 20, 2005.


Kari Vance and Justin C. Davis '98, a son, Cole Robert, April 19, 2005.

Melanie Galberry and Michael Anthony Jr. Stith '98, a daughter, Mary Marguerite, April 21, 2005.

Marnee Gautheir Tyrrell '98, a son, William Thomas, Jan. 6, 2005.


Jamie Leigh Bingham '98 and Gregory Robert '00 Wood, a son, Jack Taylor, July 10, 2005.

Mary Doyle '99 and George W. III '00 Bell, a son, Aidan William, Sept. 5, 2005.


Lindsay Renee Crane '99 and Robert Christopher '00 Holder, a son, Brett Logan, Sept. 23, 2004.


Kristen Cleveland and S. Justin Mullis '99, a son, Chase Cleveland, Aug. 19, 2005.

Jason G. '99 and Stacy Kennedy '00 Sanders, a daughter, Addison Grace, Sept. 28, 2005.


Jonathan P. '99, M '01 and Julie Mitchell M '05 Smoak, a son, Kyle Mackey, June 26, 2005.


Kenneth C. and Tyla Bedenbaugh Bowers '00, a son, Laban James, April 28, 2005.

Alexis McCanless Campbell '00, a daughter, Addison Reese, June 25, 2005.

Martha Huffman '00 and D. Edward '01 Jones, a daughter, Madison Bailey, June 8, 2005.

Mindy West '00, M '03 and Steven J. '01 Sandifer, a son, Weston Rhett, June 22, 2004.

James M. II '00 and Stephanie Hoyes '01 Wilson, a daughter, Rebekah Marie, June 16, 2005.

Catherine Wheeler '01 and Woodrow W. III '03 Cox, a daughter, Kaitlyn Alexander, July 2, 2005.

Danielle Goetz '01 and Chris Cannon '02 Herring, a son, Cannon Robert, July 3, 2005.

Jennifer Parnelle Wilson '01, a son, Robert Ellis, June 20, 2005.

Kevin T. and Michelle Villepontaine Driggers '02, a son, John McCrae, May 3, 2005.

Julian T. '02 and Anna Busha '03 George, a son, Robert Kenneth, Aug. 26, 2005.

Brian J. M '02 and Morgan Hutchinson '03 Gosey, a daughter, Orace Logan, Oct. 13, 2005, She's the granddaughter of David C. Gosey '74, M '76.


Janice Patterson and Patrick K. Day '03, a son, Thomas Kenyon, May 19, 2005.

Bridget Ferguson Stratton '03, a daughter, Chaislyn Adale, Aug. 10, 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.

Name (Please include maiden name.)

Year of Graduation Major

Town and State

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

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

Henry W. Asbill Sr. ’30, Columbia
Walter D. Moss Jr. ’34, Walhalla
S. Boyd Roach ’34, Rock Hill
Marchant C. Cottingham ’35, McCormick
Welbourne M. Schumpert ’35, Williston
Marion W. Stribling ’36, Habersham, Ga.
William C. Cunningham ’38, Aiken
Hubert E. Miller ’38, Ridgeland
Thomas E. Bell Jr. ’39, Lydia
Ralph W. Bridge ’39, Round O
Frank W. O’Neal ’39, Anderson
Thomas F. Stanfield ’39, Cordova
Robert C. Hubbard Jr. ’40, Seneca
Frederick E. Wells Jr. ’40, Greenwood
Guy W. Jones Jr. ’41, Greenville
Gordon H. Burgess ’42, Lynchburg, Va.
Benjamin W. Gettys ’42, Lugoff
Walter M. Hobson ’42, Belton
Winston W. Holliday Jr. ’42, Kingstree
Quinton L. Chapman ’43, Moultrie
Isham Nathaniel “I.N.” Rizer ’48, Lodge
Jack A. Bradford ’49, Anderson
Walter H. Jenkins ’49, Kline
Bonneau M. “Bill” Brodie ’50, Aiken
Thomas C. Keith ’50, Pickens
Ansel H. Lowe ’50, Graniteville
S. Layton Pettit ’50, Pauline
Lloyd W. Purser ’50, Chesterfield
Norman E. Shuler ’50, Rembert
Calhoun H. Strickland ’50, Oakboro, N.C.
J. Ansel Tinsley ’50, Liberty
John W. Gregory Jr. ’51, Union
John W. Kelly ’51, Central
Julian M. Alexander ’52, Westminster
J. Lamkin Smith ’52, Hawkinsville, Ga.
Paul W. Crenshaw ’53, Westminster
Carroll A. Gibson ’53, Greenville
Robert V. Frierson ’54, Denmark
Olin H. Pate Sr. ’54, Bishopville
Allston T. Mitchell Jr. ’55, Spartanburg
Guy R. Lanford Jr. ’57, Spartanburg
Pleasant G. Reynolds Jr. ’58, Sumter
Charles W. Goff ’60, Columbia
Sam B. McQueen Jr. ’61, Galivants Ferry
Burnett G. Du Bose Sr. ’62, Bishopville
Wayne B. Roark ’62, Blacksburg
Paul M. White Sr. ’62, Greenwood
James R. Head ’64, Lancaster
Ronald A. Cox ’66, Lancaster
Talmadge R. Hagler Jr. ’66, Columbia
Don L. Wilkins ’66, Blacksburg
William J. Hendrix ’67, Duncan
J. Clarke Plaxco ’67, Columbia
W. Ronald Williamson ’68, Green Sea
Fred E. Pearman Jr. ’69, Anderson
William J. Bryan Dorn HD ’70, Greenwood
James W. Evatt ’72, Greenville
Albert C. Todd III ’72, Greenwood
George D. Zatezalo ’72, Aliquippa, Pa.
Frances Goudelock Kirchner ’75, Greenville
Dennis C. Looney ’76, Irmo
Peter M. Hrynshyn ’77, Augusta, Ga.
James W. Holliday Jr. ’78, Pendleton
Diane Gniazdowski Batson ’79, Aiken
P. Kinney Stanton ’82, Cheraw
Joseph B. Chambers ’83, Beaufort
Curtis J. Hutto ’83, Greenwood
James B. Cagney ’87, Grosse Ile, Mich.
Steven P. Moyer ’89, Greenville
Michelle Bolton Fairfax ’90, Clemson
Joel S. Ellis ’94, Lancaster
Daryl K. Smoak ’96, Walterboro
Gail Sittmann Hoffman ’99, Greenville

Faculty and Staff
Clarence L.B. Addison M ’74, emeritus professor of construction science and management, Seneca
Peggy Black, retired employee of University Libraries, Clemson
Robert James, retired administrative assistant in fiscal affairs, Anderson
Don H. Johns, retired professor of packaging science, Fredericksburg, Va.
Glen H. Krohn, emeritus professor of family and youth development, Greenwood
Hugh H. Macaulay Jr., emeritus Alumni Distinguished Professor of Economics, Central. Memorials may be made to the Hugh Macaulay Professor of Economics Endowment. Gifts for the endowment should be made payable to the Clemson University Foundation in memory of Hugh Macaulay and sent to PO Box 1889, Clemson, SC 29633-1889.
Clemson World Travelers

In D.C. 1
Agronomy graduate William McNair ’41 of Gable and his daughter, history graduate Mary McNair Sohl ’73 of Charleston, toured the WWII Memorial last spring with Mary’s husband, Carl. McNair, who was awarded a Purple Heart in 1945, is a retired farmer, and Mary is retired from the Social Security Administration.

Orange for Laos 2
Lt. Col. Amos Hykes ’71, M ’72, Ed.S. ’79 of Greenville is shown presenting a Clemson Tiger Paw flag to Crown Prince Soulivong Savang of Laos at an Airborne meeting in Toronto, Canada, last year. Hykes holds Clemson degrees in psychology, education and education administration.

Mission in Honduras 3
Clemson graduates, from left, Thom White ’79, Bill West ’83, Brian Wilson ’82, Bob McConnell ’77, Al Steele ’80 and Hank Higgins ’80 participated in a mission trip to Estanzuela, Honduras, where they helped build permanent homes for the native Mayan people near Copan. They’re pictured at Mayan ruins.

Serving in Afghanistan 4
Clemson agricultural education professor Curtis White ’80 is serving in Bagram, Afghanistan. White is a lieutenant colonel in the U.S. Army Reserves. He’s attached to a special forces unit from Fort Bragg, N.C. He’ll be deployed until November 2006.

North to Alaska 5
Clemson alumni Dan Haight ’85 (economics), right, and Matt Hawthorne ’98 (English) ran into each other during a recent trip to Alaska. They’re pictured just before floating through a bald eagle preserve near Haines.

Reunion in Nepal 6
Applied economics graduates Damber K. Gurung Ph.D. ’95, now of Fairfax, Va., and Janardan Khatri-Chhetri Ph.D. ’88 of Katmandu, Nepal, held a mini-Clemson reunion with their families last summer.

Serving in Iraq 7
Financial management graduate Wally Matkovich ’93 with the C Battery, 1st Battalion 178th Field Artillery, displays a Tiger Paw flag signed by University people from the Clemson Corps, the administration, IPTAY and the athletic department, including student athletes.

Boundary Waters of Minnesota 8
Animal science graduates Kenneth C. Shuler Jr. ’95, M ’97 and his wife, Heather Stevenson ’97, are pictured during a Moose Track Adventure in Minnesota last year. Both earned veterinary medicine degrees from the University of Georgia in 2001. They have a practice in Santee.

Gurung, pictured here at a monastery in Katmandu, is an international specialist in health and development, and Khatri-Chhetri is an international resource specialist.
Singin’ with Charlie

Engineering graduate Dallas Burnett ’01, M ’03 of Spartanburg won the national Prilosec OTC “Burning to Sing Your Heart Out” competition last fall.

As a result he performed with Charlie Daniels during Daniels’ New York City concert and attended the 2005 Country Music Association Awards.

He also spent time with an A&R representative who works for Mercury and Universal records. Earlier this year, he met with some major publishers, managers and other music industry people in Nashville.

When Burnett isn’t writing or performing music, he works in sales and business development for Burnett Lime Company Inc. He and his wife, Danielle, are pictured here with Charlie Daniels.

‘Flip This House’

Real estate expert Richard C. Davis ’86 is the creator of A&E’s popular “Flip This House,” a weekly reality show that began broadcast last summer.

The show is based on the concept of buying property in need of repair, renovating it and then selling it for a profit.

Davis, a financial management graduate, founded Trademark Properties over 14 years ago in his hometown of Charleston. Since then, he’s bought, renovated and sold hundreds of houses, creating a multimillion-dollar business in the process.

An episode that aired last fall showcased the University and Clemson students during the opening week of football season as the Trademark team worked to flip several local condominiums.

$1 million toss

Army veteran Chris Bostic of Myrtle Beach became an instant millionaire and coast-to-coast celebrity last November when he tossed a winning pass at the Clemson vs. Florida State game.

The Clemson fan won $1 million in the BI-LO Healthy Choice Pigskin Challenge by throwing a 25-yard pass into a 20-inch hole and became the biggest winner in the competition’s five-year history.

His toss made the sports headline shows and magazines and newspapers across the country, and he appeared on “Good Morning America” and “The Today Show.”

Woman Engineer

Woman Engineer magazine’s fall 2005 issue features Clemson chemical engineering student and Milliken & Co. intern Tara Daniels in “Internships Pave the Path to Success.”

The article illustrates Milliken’s acclaimed college relations and internship program with Daniels’ experiences and success.

Daniels, of North Attleboro, Mass., completed her first internship with Milliken during her junior year, splitting 12 weeks between its research center and one of its plants. Her second internship during the summer of her senior year gave her more invaluable work experience, which resulted in her being offered full-time positions in the company’s automotive and chemical divisions.
Best job in academia!

Clemson has been named the No. 1 institution in The Scientist magazine’s annual “Best Places to Work in Academia” survey.

Provost Dori Helms sees the ranking as affirmation of a fact many at Clemson already know. “We know Clemson is a great place to work. That’s why we are here,” she says. “Now, this recognition, in an internationally known publication, will let even more academicians and researchers know that Clemson is committed to providing an atmosphere of collaboration and support for its faculty.”

More than 40,000 surveys were emailed to readers of The Scientist and registrants on the magazine’s Web site who are tenured or tenure-track life scientists working at noncommercial research institutions in the United States, Canada, Western Europe or Israel.

Southern Living ‘Idea House’


The issue features approximately 12 pages of the stunning house, showing various rooms, details and furnishings.

Yurcaba has been with Historical Concepts, a traditionally and classically based architecture firm, since graduating from Clemson. He also completed a master’s degree in architecture from the University of Notre Dame in 2004.

ABC ‘Primetime’

Zoology graduate William “Billy” Karesh ’77 of Rye, N.Y, appeared on ABC’s “Primetime” in September 2005 during a segment exploring America’s preparedness for potentially catastrophic events. His interview focused on a possible pandemic outbreak of avian influenza, a subject he’s worked on for the past 10 years.

Karesh is director of the Field Veterinary Program for the Wildlife Conservation Society (WCS), headquartered at the Bronx Zoo, with previous experience at the San Diego Zoo and the Seattle Zoo. He’s pictured here sampling a whooper swan for avian influenza in Mongolia.

The WCS Field Veterinary Program addresses the complexities of maintaining ecosystem health. Working with in-country wildlife experts, government agencies and public health officers from Patagonia to Central Africa, Karesh and co-workers lead local training programs, conduct cutting-edge health investigations, give advice on policies and compile preventive guidelines to reduce disease transmission between wildlife, humans and their domestic animals.

Karesh is also the co-chair of the Veterinary Specialist Group of the World Conservation Union, a network of over 350 experts in various aspects of wildlife health in 55 countries around the world who volunteer their expertise to address wildlife health problems whenever and wherever possible.

Remembering Pearl Harbor

The Florida Times-Union (Jacksonville.com) features alumnus Joe Reece ’42 in an anniversary piece on the infamous attack. In “Pearl Harbor: 64 years later,” Reece, a resident of Fernandina Beach, recalls how the event changed his life.

As a Clemson student, he had planned to become a vocational agriculture teacher. At graduation time, however, he received his orders and then his diploma.

After the war, he stayed in the Marine Corps, retiring as a lieutenant colonel in 1968. After retirement from the military, he went on to work as manager of manufacturing engineering with the Ordnance Engineering Division of FMC Corp.
Sirrine funds education

The J.E. Sirrine Textile Foundation has given Clemson $5.6 million for two endowed chairs in materials science. Sirrine Foundation Board President Mark Kent, pictured right with President Barker, says, “Since our inception, the J.E. Sirrine Textile Foundation has viewed education as its primary focus. The belief and wishes of Mr. Sirrine were that education was the key to success, as was investment in research and development. This is what he believed would help South Carolina and create jobs.” (See complete article on p. 4.)

Gift to benefit state farmers

Thanks to the wisdom and generosity of Clemson alumnus Ernest Corley, the University has added a leading expert in animal and veterinary sciences. Last fall animal science researcher Susan Duckett was named to the Ernest L. Corley Jr. Trustees Chair in the animal and veterinary sciences department.

An animal science expert at the University of Georgia, Duckett focuses her research on livestock nutrition and meat quality. She's a nationally recognized scientist and author on the benefits of grass-fed cattle.

Corley, a 1949 dairy science graduate who became one of the top officials with the U.S. Department of Agriculture, always credited Clemson with opening the door to his success. The Saluda native expressed his gratitude in 2000 by funding the Ernest L. Corley Jr. Trustees Chair in bovine livestock production. Corley saw the chair filled shortly before he passed away in November 2005.

“Dr. Corley’s gift represents a vital contribution to the college,” says Calvin Schoulties, dean of the College of Agriculture, Forestry and Life Sciences. “It allowed us to recruit and hire an outstanding expert — Susan Duckett — who will enrich the lives of our students and livelihoods of our farmers.”

Duckett’s research activities are aimed at examining the factors affecting fresh meat quality and developing strategies to increase red meat yield, quality grade, palatability and consumer acceptability of beef and lamb.

BB&T supports study of capitalism

BB&T is providing $1.4 million to the University's College of Business and Behavioral Science to establish the Clemson Institute for the Study of Capitalism.

The center will engage in four general areas of activity and include undergraduate and graduate education, research, community outreach and fund raising.

The institute is led by research professor Brad Thompson, who joins the Clemson faculty from Princeton's Madison Center. The institute will serve as an intellectual forum that brings together Clemson faculty and students with scholars from the United States and abroad to investigate and to increase public understanding of the underlying principles and institutions of capitalism.

Bruce Yandle, interim dean of the College of Business and Behavioral Science, says the new institute will lead the way in organizing “the world’s best conversation on the relative merits of capitalism and capitalist societies.”
If your charitable giving helps improve lives today, just think what you can do 120 years from now!

Thomas Green Clemson penned his will on November 6, 1886, and set into motion his dream of a “high seminary of learning.” Nearly 120 years later, his dream is thriving!

Leading a fruitful life, being good parents and respected citizens, and finding success in a career are all rewarding in themselves. But most people would like to feel that they have made a lasting contribution toward a better world, that their lives will benefit others for generations to come.

Touch of immortality
That small touch of immortality — the quiet satisfaction of helping perpetuate something meaningful — is the rich reward enjoyed by the many alumni and friends who have made bequests and endowment gifts to Clemson.

These thoughtful people have left their permanent imprint on our future. They have strengthened our ability to provide for future generations.

Bequests — gifts made through your estate plan — are a traditional way to continue your support of Clemson. Your bequests can take many forms and accomplish a variety of objectives. You might create a fund for a special purpose, create an endowment for a program that has personal meaning for you or establish a memorial to the life of a loved one. Or you simply can require that your bequest be designated as “unrestricted” and allow Clemson’s president and administration to place your gift where the need is greatest. Unrestricted, flexible dollars are the most precious dollars a University can receive.

Your legacy
Leaving a legacy is about you and your decision to look beyond today. It is about setting a priceless example for others to follow. It is about bringing your family together and exploring the values, ideals and life experiences you cherish the most. It is also about looking to the future — how you can change it, mold it and inspire it by leaving your imprint on the world.

It is most interesting that Thomas Green Clemson gave his entire fortune to a vision and allowed tremendous flexibility in his instructions to the Life Trustees. He never referenced race or religion or restricted who should attend the proposed college. Nor did he dictate how the college would achieve future success. He did, however, emphasize that he expected it to educate the citizens of South Carolina and uphold the highest ideals.

We invite you to explore with us the many ways you can leave a legacy for the benefit of Clemson University. You can do much to shape our future and assure yourself of a place among those who truly can say, “I deeply care about Clemson and want to have an impact on its future.”

For more information about bequests or estate planning, please contact JoVanna J. King, senior director of gift and estate planning, at (864) 656-0663 or (800) 699-9153.

Solid Orange Harper Corp.!

Clemson alumni employees of the Harper Corp. General Contractors are 100 percent supporters of the Clemson Fund.

The Harper Corp., led by president Doug Harper ’74, is a full-service general contracting firm serving commercial, healthcare, industrial and institutional clients throughout the Southeast from its headquarters in Greenville. Consistently ranked among the top-100 privately held companies in the state, it was recently honored as an Engineering News Record “Top-400 U.S. Contractor.”

The Harper family has several generations of Clemson graduates with degrees including civil engineering, construction science and management, and industrial management.

Gifts to the Clemson Fund provide student scholarships, support teaching and research, upgrade our libraries, fund student clubs and special programs, and attract some of the country’s top scholars and innovators. Annual gifts also support current operations and are critical in meeting the day-to-day needs of the University.

For more information on how to support the Clemson Fund through your business or company, call Ann Smith, director of annual giving, at (864) 656-5895 or email annsmit@clemson.edu.
Four years in a row ...