Driving the Future
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President’s View

Collaboration, economic development and core mission

As South Carolina heads into a new legislative session, the higher education landscape is cluttered with ideas, but virtually void of focus.

There are at least a half-dozen proposals of higher education governance structures, a number of highly regarded experts calling for more investment in research universities, and the prospect of yet another state budget cut.

In such an uncertain environment, it’s easy to get distracted from our course. To avoid that, we must refocus on our goals and the needs of our students and the state of South Carolina.

Above the clutter, we hear a few constant ideas emerging. All are ideas Clemson can endorse. In fact, they are ideas we already are implementing.

(1) There is a strong call for more collaboration among institutions.

Budget cuts, unfortunately, work against collaboration. Faced with budget cuts, most institutions will withdraw and hunker down, not seek out opportunities for collaboration. However, we’re bucking this trend.

I meet at least once a month with my counterparts at the University of South Carolina and the Medical University of South Carolina, and we are working collaboratively on more projects than ever before.

Outside the state, we are working with fellow ACC members to offer Clemson graduate students access to ACC academic programs at some of the finest public and private universities in the country.

Collaboration is becoming the rule, not the exception, at Clemson.

(2) There is a growing expectation that research universities should be more engaged in economic development.

Clemson has been in the business of economic development since our founding. In fact, the eight emphasis areas outlined in our current academic plan closely mirror the state’s economic development agenda.

With recent announcements about a major Clemson automotive research campus in Greenville (ICAR) and an advanced materials project at the Clemson Research Park in Anderson, we are helping create a knowledge-based economy. Experts in economic development say that future U.S. competitiveness will hinge on our ability to foster regional clusters of innovation. By definition, clusters are geographic concentrations of related and intertwined companies, academic institutions, labs and associated agencies that — because of their proximity and tight linkages — enhance innovation, productivity and the creation of new jobs. Our goal in these two projects — and others still in the embryonic stage — is to create such clusters of innovation for South Carolina. Each ties to one of our areas of emphasis in our Academic Plan.
(3) There is a sense that colleges and universities need to focus on core missions and not try to be all things to all people.

Clemson may have a better handle on its core mission than most institutions, largely because of the wisdom and insight of our founder, Thomas Green Clemson. In his will — our touchstone document — he clearly outlined a vision of a rigorous academic institution (a “high seminary of learning”) that included research and service, and that was dedicated to improving the economic conditions of the state. That essentially remains our focus today.

I often think of Clemson as a living organism shaped as a sphere. Near the surface, the materials are fluid and dynamic, always changing and adapting to surrounding conditions. But the core of the sphere is very solid and slow to change. That core represents the fundamental elements of Clemson’s mission. If it is damaged or allowed to erode, the Clemson University that we know will no longer exist.

Some of the proposals circulating in Columbia come very close to that core. We have been asked to consider whether we would become a private institution in order to help balance the state budget. We have seen budget proposals with crippling cuts to our public service programs, which are inseparably related to our teaching and research mission and which make Clemson distinctive.

We don’t know what the future will hold, but we do know this: Clemson remains 100 percent committed to its core mission, which includes economic development and service to the people of South Carolina as well as teaching. We will advocate for a state budget that recognizes the vital role Clemson plays in all of its mission areas.

If you would like to help tell the Clemson story, find out more about our legislative advocates program at www.ciclt.com/clemson.

James F. Barker, FAIA
President
Clemson Attracted Nearly $105 Million in Competitive Research Grants

Clemson attracted nearly $105 million in competitive research grants in the fiscal year ending June 30, 2003. Much of the research will directly benefit South Carolinians, ranging from cancer outreach programs and genetic engineering to automotive R&D and high-tech initiatives that will help attract high-paying jobs.

Sponsored research money doesn’t include state or federal appropriations, but counts only competitively awarded grants. Clemson’s involvement has skyrocketed as Clemson strengthens its research infrastructure. The University surpassed the $100 million mark last year, beating by seven years a goal set by Clemson President Jim Barker when he first took office in 1999.

Clemson faculty undertook 870 projects last fiscal year. A sampling includes biomimetic manufacturing of fibers, using a modified desktop printer to print tissue, human genetics work, plutonium waste handling, historical preservation, Hispanic health initiatives, improved energy production through high-energy gas turbines, human factors work that could mean safer cars, research that has helped unravel the mysteries of the rice genome and even research into the origins of the universe.

For more information on Clemson research, visit the Web at www.clemson.edu/research.

A New Partnership Between Clemson and Voorhees College has earned $5.26 million to develop a long-term program that will tackle obesity and related illness among South Carolina’s rural minorities.

The National Institutes of Health’s Center for Minority Health and Health Disparities awarded Clemson the four-year grant to work in a partnership with Voorhees to establish research, outreach and training programs to address immediate and future health concerns.

The grant will establish an EXPORT Center of Excellence aimed at providing greater understanding of factors that contribute to the disproportionate burden of disease and illnesses borne by racial and ethnic minorities.

Voorhees College’s Center of Excellence in Rural and Minority Health will work with Clemson’s College of Health, Education and Human Development to build the capacity for health-related research, to train future health educators and health-care workers, and to provide outreach education and health services information in rural South Carolina.
To your health!

Clemson and the Medical University of South Carolina (MUSC) have forged a unique biomedical engineering partnership that could make South Carolina a leader in the development of new biomedical engineering technology. The partnership is expected to help attract millions of dollars in additional biomedical engineering research grants. Benefits could range from new heart valves to biomed start-up companies.

Through the partnership, research is already under way on vascular implants and drug-enhanced cardiac stents. Noncardiac work includes cell-based drug-delivery systems, “injectable” liquid tissue implants and tissue, and therapeutic interventions for nerve regeneration, spinal injury repair and Parkinson’s disease. The collaboration is partially funded by a $6 million NIH award and a $9 million NSF grant.

Advancing industry

OVER THE NEXT FIVE YEARS, Clemson plans to invest approximately $70 million at the Clemson Research Park in Anderson County to support and grow an advanced materials industry cluster. The initiative could make the Upstate the epicenter of a regional knowledge-based cluster attracting high-tech, high-paying jobs.

Advanced materials is the backbone of such industries as telecommunications, automotive, microelectronics and chemicals. The focus of the project is to provide the research infrastructure needed by existing industries and to nurture growth in the emerging photonics industry.

The 111,000-square-foot advanced materials complex — being built on a 31-acre site in the Clemson Research Park in Anderson County, part of the statewide system managed by the S.C. Research Authority — will initially house two proposed Research Centers of Economic Excellence, one in electron imaging and one in photonic materials. Clemson’s nanotech research will also be housed there.

Access to electron imaging — essential for advanced materials R&D because it gives researchers the ability to “see” objects at the atomic and molecular level — will make existing state industries more competitive and help attract new industries.

‘Most Connected’

Clemson is one of The Princeton Review’s “Top 25 Most Connected Campuses.” Students place a high value on having access to technology as part of their college experience. Clemson’s ranking among the most connected campuses reflects an emphasis on improving quality at the University. Clemson is also providing training to faculty and students to ensure that they are able to use the new technology to the best educational advantage.

Stopping breast cancer

CLEMSON SCIENTIST HAS RECEIVED FEDERAL FUNDING TO PURSUE A promising line of research for a way to prevent breast cancer. Biological sciences professor Wen Y. Chen has received a two-year grant — with $73,500 for the first funding year — from the National Institutes of Health (NIH) for further research.

“In the past five years, we have focused on developing a potential treatment for breast cancer. It’s waiting for FDA approval for initiation of clinical trials,” says Chen. “The NIH grant is to support our idea of testing whether the same approach can be used as a breast cancer preventive agent.”

Working with his colleagues and graduate students at the Oncology Research Institute of the Greenville Hospital System, Chen has demonstrated promising results.

Photonics surge

CLEMSON IS TEAMING WITH INDUSTRY and technical colleges to bring new innovations to market and to build a highly trained work force and attract high-paying industry. The University’s photonics research — attracting more than $13 million in outside funding in three years — has earned the National Science Foundation’s economic development stamp of approval.

The $600,000 “stamp” — a grant from the prestigious NSF Partnerships for Innovation program — paves the way for an extended regional partnership that will create the innovation infrastructure needed to commercialize the photonics research conducted at Clemson.

Clemson’s Center for Optical Materials Science and Engineering Technologies (COMSET) is the only university R&D lab in the Southeast focused on the development of new optical materials. The brains and economic brawn behind the photonics research are COMSET teamed with Clemson’s Arthur M. Spiro Center for Entrepreneurial Leadership.

The demand for the photonic materials used in communication is expected to grow from less than $13 million in 2001 to more than $2 billion by 2005. Future use of photonic materials and devices in industrial, medical and computing applications will add to these demand scenarios.
CLEMSON GRAPHIC COMMUNICATIONS STUDENTS have extraordinary opportunities to learn by doing and by interacting with industry leaders — thanks to a $2 million press and die-cutting machine and a new facility.

The International Corrugated Packaging Foundation and Clemson’s graphic communications department recruited industry support to develop a corrugated instructional facility for Clemson, building on the University’s approach. And the Bobst Corp. generously donated a three-color Martin DRO 1628 NT. University and industry leaders dedicated the new operation at the Clemson Printing and Converting Research Center in Pendleton last fall.

Clemson graphic communications students win more research awards and industry-sponsored printing awards than students from any other institution. And after graduation, 100 percent of them receive job offers or begin graduate studies.

DuBose joins hospital

LONGTIME CLEMSON Alumni Association executive director Debbie Brockman DuBose resigned from her post at the University last fall to join the Oconee Memorial Hospital Foundation in Seneca.

A 1975 Clemson graduate, DuBose became the University’s first female director of the Alumni Association in 1988. Throughout her tenure, she exhibited a strong professional background, amazing energy and a genuine love of Clemson.

For the past 15 years, her expertise in serving alumni, increasing support, planning special events, developing positive community relations and working with people, individually or collectively, has been invaluable to the University.

DuBose says in leaving her post, “You can be assured that I will never stop working for Clemson as a volunteer and an ambassador.”

Matt Watkins ’77, M ’81, the Alumni Association’s senior director for administration and marketing, is serving as interim director. He has 13 years of experience with the alumni office and nine years with Clemson’s housing office.

Camp Voyager goes interactive

Clemson’s Youth Learning Institute (YLI) is planning a brand new interactive camp to be offered to youths ages 10 to 14. Camp Voyager will be presented in one-week sessions for six weeks next summer at the R.M. Cooper 4-H Leadership Center in Summerton. Voyager Camps are traditional camping with the latest technology and any and everything new.

Campers will be assigned a role on a team and will progress through their adventure by using technology such as global positioning satellite systems, handheld and desktop computers as well as building and operating simple machines like water pumps and solar-powered devices. To learn more about Clemson’s Youth Learning Institute or Camp Voyager, visit the Web at www.clemson.edu/yli or call (864) 678-1103.

Camp Odyssey set for takeoff

Another exciting summer experience is Camp Odyssey, June 27-July 3, at Clemson’s Outdoor Laboratory for children ages 6 to 12. Camp Odyssey offers hiking, fishing, camping, instructional swimming, challenge courses, arts and crafts, outdoor games, campfire programs, overnight camping trips, cookouts and other fun activities. Cost is $399 per child with a discount given to additional children from the same family. For more information and application materials call (884) 646-7502 or visit the Web at www.clemson.edu/outdoorlab/odyssey.htm.

From fryway to highway

French fries could actually help secure America’s energy independence. Oils used to cook many fast-food menu items can be recycled to diesel fuel. Clemson researcher James G. Goodwin Jr. has been awarded nearly $900,000 from the federal government to improve the process, expanding the production of biodiesel to power the nation.

Biodiesel is a domestically produced, renewable fuel that can be manufactured from vegetable oils (including soybeans), animal fats or recycled restaurant greases. It’s safe, biodegradable and reduces air pollutants.

Goodwin, chairman of Clemson’s chemical engineering department, is leading a team to find a more efficient catalyst to improve production and decrease costs.

Funded by the U.S. Department of Agriculture, the ultimate goal is for the nation to reduce dependence on foreign oil, increase the use of biomass and recycle carbon dioxide. Biodiesel can be used to power diesel engines in vehicles and electricity-producing generators.
IT IS ROCKET SCIENCE. CLEMSON STUDENTS ARE WORKING with NASA in the SPIRIT II program to study communications-disrupting winds in the upper atmosphere.

SPIRIT (Student Projects Involving Rocket Investigation Techniques) challenges students to design and build a rocket payload to measure winds in the mesosphere. A team of NASA engineers from the Wallops Island Flight Facility provides technical consultation.

Last semester, Clemson students from physics, mechanical engineering, electrical engineering and computer science teamed up with their Penn State colleagues to design experiments to collect information about wind, temperature and electron turbulence in the upper atmosphere. The SPIRIT II rocket launched from NASA's Wallops Flight Facility in Virginia in October.

The project is part of Clemson professor Miguel Larsen's research program and is funded by NASA.

ACC Coach of the Year

Clemson coach Tommy Bowden was named ACC Football Coach of the Year by the Associated Press and the Atlantic Coast Sports Media Association for the second time in his five years at Clemson.

Clemson's win over third-ranked Florida State was Clemson's first win over the Seminoles since 1989 and the highest ranked team Clemson has beaten in school history. With Clemson's selection to the Peach Bowl, Bowden became the first coach in ACC history to take a league team to a bowl game in each of his first five years with a program.

Last fall, Clemson ranked 11th in the nation, second among public institutions, in the NCAA graduation rate study for scholarship football signees who entered Clemson in 1999. The retention rate for Bowden's five years of signees is 91 percent.

Top profs

MEET SOME MORE OF CLEMSON'S OUTSTANDING professors who've recently made academic news.

Horticulture professor William Vance Baird has been named the American Society for Horticultural Science's Outstanding Graduate Educator for 2003. The award recognizes an educator who has had a distinguished career in teaching graduate level horticultural science for a decade or more.

Landscape architecture professor Donald L. Collins received the Award of Distinction from the Council of Educators in Landscape Architecture last year. He was also recently named a Fellow of the American Society of Landscape Architects for his role in developing Clemson's program.

Visiting mechanical engineering professor Markus Meier, on sabbatical from the ETH in Zurich, Switzerland, has been honored with membership in the Swiss Academy of Engineering Sciences.

Creative writing professor Keith Lee Morris has published The Greyhound God (University of Nevada Press), a novel that explores the world of dog racing. His short stories have been published in numerous literary journals, including Puerto del Sol, Georgia Review and New England Review.

Michael Pursley, Clemson's Holcombe Professor of Electrical and Computer Engineering, received the IEEE Communications Society's Armstrong Achievement Award. His research is primarily in spread-spectrum communications and mobile wireless communications networks. The award is named in honor of Edwin H. Armstrong, the inventor of the FM radio.

Entomology professor Pat Zungoli recently received Syngenta, an international agribusiness, and Pest Control Technology Magazine's 2003 Leadership Award. Zungoli has authored or co-authored more than 140 scientific articles, book chapters, abstracts, proceedings and fact sheets; made more than 165 technical presentations; and has been active on numerous local, state, national and international committees.

Calling Aero Club members

ALUMNUS OTHA H. “SKEET” VAUGHAN JR. ’51, M ’59, retired research scientist from NASA Marshall Space Flight Center, is collecting information on the history of the Clemson Aero Club and Clemson’s aviation heritage.

If you were in the Clemson Aero Club or have information about the club, its activities and the experiences of its members, please contact Vaughan at 10102 Westleigh Dr., Huntsville, AL 35803 or by email at o.h.vaughan@alumni.clemson.edu or skeet@knology.net.
Making Life Better – A Sweet Legacy

Wallace R. Roy ’26

If you grew up on orange juice — the sweet, slushy, frozen kind that comes in a tiny can and magically turns into a delicious pitcherful with the swirl of a spoon and some water — you have a Clemson alumnus to thank.

Chemical engineering graduate Wallace Roy ’26 helped develop the frozen concentrated orange juice of our childhood, establishing nearly the same process that’s used today. A former vice president and board member of Minute Maid, he was also vice president for technical services and a consultant for the Coca-Cola Co. In addition, he helped develop the Fresca and Fanta brands.

After Clemson, Roy earned advanced degrees at the University of Kentucky and the University of Minnesota. Soon after military service, he joined National Research Corp. in Orlando, Fla., which later became Minute Maid.

His career was so successful that he was named one of the “top 20 distinguished contributors to 20th century food processing” by Canner-Packer Magazine. He also held three patents, a stack of professional publications and many other honors.

His success was no surprise to those who knew him at Clemson. In fact, he was inducted into the Clemson Athletic Hall of Fame in 1977 for records he set in track and for performances in football and basketball. And, in 1986, the Clemson Alumni Association presented him with his highest honor — the Distinguished Service Award.

Along with his civic activities and philanthropy in Orlando, Roy continued to support Clemson throughout his life, giving to the Permanent Unrestricted Endowment, the Pooled Income Fund, the Libraries and other areas.

When Roy passed away last summer at the age of 97, his daughter, Patty Roy Edwards, chose to continue his legacy at Clemson. She established an endowment through the Clemson University Foundation to fund a professorship in his name — the Dr. Wallace R. Roy Distinguished Professorship. The endowment will provide supplemental support for an outstanding faculty member in the area of biotechnology and biomedical sciences.

“For love of his family and his church, came my father’s lifelong devotion to Clemson,” says Edwards. “Of all the honors that came to him during a long career, induction into the Clemson Athletic Hall of Fame and being given the Clemson Distinguished Service Award were among his most cherished achievements. It’s appropriate that my father’s love and respect for Clemson will go on in the form of a science-related endowment in his name.”

Because Patty Edwards shares the foresight and generosity of her father, the Roy legacy at Clemson will continue to make life better.

It was this kind of concern for the future and belief in education that prompted Thomas Green Clemson to begin his own legacy over a century ago with a provision in his will. His decision to establish a “high seminary of learning” continues to make a world of difference today.

For information on establishing an endowment or on planned giving, contact JoVanna King, director of gift and estate planning, Clemson University, P.O. Box 1889, Clemson, SC 29633-1889; call (864) 656-0663 or (800) 699-9153; or email jovanna@clemson.edu.
1. Why is 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 44 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 60 percent over the past seven years.

These are the main reasons:

There are more high school seniors than ever before, especially in South Carolina and nearby states. Recognitions of Clemson’s quality by Peterson’s Competitive Colleges, U.S. News & World Report and Kiplinger’s Personal Finance along with athletic successes, such as Clemson’s 2003 NCAA Golf Championship, provide additional publicity and exposure, making more people aware of the quality 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 1204 since 1996. Forty-two percent of the most recent class of Clemson freshmen graduated in the top 20 percent of their high school class, and more than 65 percent graduated in the top 20 percent.

Further, the size of the student body affects the experience that a student has at Clemson. When classes are larger, faculty workloads are heavier. Science labs and other academic sessions must be scheduled to go as workloads are heavier. Science labs and other academic sessions must be scheduled to go as workloads are heavier. Science labs and other academic sessions must be scheduled to go as workloads are heavier. Science labs and other academic sessions must be scheduled to go as workloads are heavier.

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

Admission to Clemson is an academic decision. Therefore, decisions are based 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. We encourage online application for admission through the University’s home page at www.clemson.edu. Also, be sure that SAT/ACT score reports are sent directly to Clemson from the testing agency.

3. 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 2002-2003 admission cycle, 75 percent of all legacies were accepted versus less than 60 percent of nonlegacies.

4. 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.

5. 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 as well.

Generally, a student needs to have completed at least 30 hours of collegiate-level credit with a grade-point average of a 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.
In the Spotlight

When the Brooks Center for the Performing Arts opened 10 years ago, it was as if someone turned on the lights — the spotlights — to a world where the performing arts shine for the entire Clemson community.
Since the Brooks Center’s dedication in April 1994, countless students have studied, practiced, performed and most recently majored in the performing arts. Thousands of schoolchildren have participated in the center’s educational outreach program. And patrons of music, theater and dance have enjoyed world-class performances by leading actors, musicians and dancers.

“In the decade of the 1990s, the Brooks Center forever changed Clemson’s self-concept. We no longer see ourselves in the same way,” says Clemson President James Barker. “Before the Brooks Center, we regularly brought to campus the nation’s finest performing artists. We attracted a wide audience for these performances, including many off-campus patrons. However, the Brooks Center fundamentally raised Clemson’s definition of quality, sophistication, artistic excellence and outreach.”

That “raised definition” can be seen almost every day, says Lillian Harder, director of the center since 1996. “For the past decade, the Brooks Center has presented outstanding artists and attractions. The artists who perform here also perform at Carnegie Hall in New York City, Kennedy Center in Washington, D.C., Royal Albert Hall in London and the other great concert halls of the world. It’s been our goal to bring the best to Clemson.”

The list of notable artists who have performed in Clemson is a Who’s Who of great performers. Grammy Award-winning jazz trumpeter Wynton Marsalis and the Lincoln Center Jazz Orchestra, piano superstar Lang Lang, the innovative dance ensemble Momix and the all-male chorus Chanticleer are just a few that patrons list as their favorites.

Other memorable performances include the Shanghai Acrobats, the musical Phantom, Scottish fiddler Bonnie Rideout, the Ten Tenors from Australia and the a cappella sensation Rockapella.

Community outreach is also a hallmark of the Brooks Center. Through its Tri-ART educational program, nearly 13,000 schoolchildren from the Upstate and other areas enjoy morning performances, workshops and other activities tailored especially for them.

“The wonderful thing about Tri-ART,” says Harder, “is that we offer these arts experiences for $2 per student, while others are free. The program has become an important part of arts education in the Upstate for public, private and home-schooled students.”

The Utsey Chamber Music Series is the Brooks Center’s other widely acclaimed community service activity. For nearly 20 years, the chamber series has offered free performances by leading musicians in the genre. Since its inception in 1986, the series has presented nearly 100 different performances to tens of thousands of classical music patrons in Clemson and beyond.

“We’ve had audience members drive from as far away as Charleston, Atlanta, Ga., and Tryon, N.C., to hear our chamber music,” says box office manager Tonya Henson.
Recordings made of many Utsey Series performances have been broadcast on National Public Radio’s “Performance Today” and heard throughout the country. The series has also been recognized for its community service in Chamber Music America, a leading music publication.

“Certainly, the quality of life for the entire Clemson community has improved since the center opened,” says Rick Goodstein, chair of the performing arts department, “but Clemson students — who are in the building every day — benefit the most.”

Prior to the Brooks Center, student musicians and actors practiced and performed all over campus in places designed for other purposes. For instance, the University bands rehearsed in the basement of Holtzendorff Hall. “Holtzendorff was an old gym, and it sounded like it,” says Goodstein. “The acoustics were so bad, the musicians couldn’t hear each other.”

But the state-of-the-art Brooks Center contains many of the best acoustical features in the region.

Clemson Players, the student drama troupe, performed in the Daniel Hall auditorium, not the ideal stage. Today, the Brooks Center’s Bellamy Theatre (a black box configuration) offers a platform for award-winning scene, sound and lighting designs. In fact, the Clemson Players has since garnered several regional and national awards for theatrical designs, among them a second place in scene design from the 2002 Kennedy Center/American College Theatre Festival.

Currently, more than 3,000 Clemson students take classes as diverse as the History of Country Music to Costume Design and Make Up in the Brooks Center. More than 700 students participate in the department’s instrumental music, choral and dramatic ensembles.

And recently, Clemson undergraduates started majoring in Production Studies in the Performing Arts. This unique degree combines performance opportunities with classes in sound engineering, arts management and many others.

For a decade, the spotlight has been on the Brooks Center for the Performing Arts. As the curtain rises on the next 10 years, the Clemson community is sure to experience many more shining performances.

It takes more than talent to mount a great theatrical production or instrumental concert at the Brooks Center for the Performing Arts. It takes lighting and sound equipment, instruments and sheet music, costumes and lumber, as well as state-of-the-art technology and staffing.

It also takes money — lots of it. Fortunately, the Brooks Center has some generous friends. The Friends of the Brooks Center is a group of nearly 700 loyal patrons who donate money, time and energy to the performing arts at Clemson.

“Without the Friends’ generosity, the performing arts at Clemson wouldn’t be the same,” says Lillian Harder, the center’s director. “It’s like the Beatles tune that says, ‘I get by with a little help from my friends,’ except we get by with lots of help from our friends.”

In fact, without the Friends, the performing arts wouldn’t have a home. An initial gift by Robert Howell Brooks ’60 provided the funds for the construction of the performing arts center. In addition to annual contributions over the years, Brooks and his wife, Tami, recently endowed a new performance series at Clemson. The Boni Belle Brooks Series, named for their daughter, features many of the center’s largest productions.

What’s more, the Friends of the Brooks Center provides more than $200,000 in unrestricted funds annually to the performing arts. That money supports a variety of activities and programs such as Tri-ART, student grants-in-aid, one-on-one music instruction and drama scholarships. The funds also purchase music and the latest equipment, pay artist fees and cover backstage production costs.

Recently, the group has earned a reputation for throwing great parties. “Over the years, we’ve hosted numerous fund-raising events, including golf tournaments and a Christmas tree auction,” says Carol Piacenti, Friends president. “But the annual spring party has become the best party of the season and a financial success.”

With themes such as a New Orleans Mardi Gras, Renoir Boating Party and the Mad Hatter’s Tea Party, it’s no wonder people scramble for tickets. This spring, April 17, the group is planning a big birthday bash in celebration of the Brooks Center’s 10th anniversary. “Party-goers will don birthday hats, dance to lively music, eat delicious food and enjoy the company of close friends while supporting the performing arts at the University,” says Piacenti.

If you’re interested in becoming a member of the Friends of the Brooks Center or want more information about the upcoming Brooks Center Birthday Bash, contact Lillian Harder at (864) 656-3043 or harderl@clemson.edu.
Among the legendary voices in Clemson’s history, few speak so clearly as that of beloved English professor John Dewey Lane. His influence still resounds today on the campus where he devoted his life’s work, and many seasoned alumni recall his name in admiration.

Originally from Lamar, Lane came to Clemson in 1924 after completing his undergraduate studies at Newberry College and earning a master’s degree from Columbia University in New York. Lane joined the Clemson faculty as an assistant professor of English. His prowess in the classroom soon made him one of the most popular professors on campus.

He taught with a visible and infectious passion. Often referred to as the “one-man journalism department,” Lane laid the groundwork for Clemson’s success in producing outstanding authors and editors. He was so influential that 10 years after his death, there were 12 newspaper editors in major cities around the nation who had been his journalism students, including Pulitzer Prize winner Harry Ashmore ’37.

His own writing was also recognized as excellent, indicated by the success of his series of English-instruction books including Knotty Speech Problems, Between You and Me and Lying or Laying? Because these books were immensely popular, Lane would often ship them (many of which contained caricatures of Clemson cadets) to schools across the nation.

But the professor’s devotion to his students was not confined to his classroom. Lane quickly established relationships with student organizations, and in 1929, he was appointed adviser to TAPS yearbook and The Tiger newspaper. During WWII, Lane made sure that The Tiger was not only published but also mailed to Clemson cadets in the U.S. military throughout the world.

Lane was the first president of the Faculty Senate, and he served as adviser to several honorary student organizations including Blue Key, Tiger Brotherhood and Sigma Tau Epsilon. He also founded Gamma Alpha Mu, Clemson’s honorary fraternity for writers.

In addition to teaching, Lane was an active member of the community in organizations ranging from the Clemson Methodist Church to the Clemson Fellowship Club. His ability to mix seriousness with humor made him a much-sought-after banquet speaker.

Lane’s home life was rich as well. He married Bessie Mell Poats in 1932, and they had two daughters and two sons. Their youngest son, Grayson, fondly recounts childhood memories of his father’s playing the piano and singing songs like “Ole’ Man River.” John Lane was a man of many talents, including tap dancing and saxophone playing, and of great loves, including poetry, Christmas and his family.

In 1961, Professor Lane retired after almost 40 years at Clemson. He was fittingly honored with the Algernon Sydney Sullivan Award for outstanding and generous service to the College and his students. Dean J.K. Williams offered these words of gratitude: “Several thousand Clemson men in all walks of life will agree with all of us who know John Lane that the description of a master teacher fits him.”

For the students who were fortunate enough to have studied under him, Lane truly was a master teacher. There are few times his family gathers at Clemson events that they do not run into former students who recount their memories of Professor Lane and the impact he had on them. In their minds and in the halls of Clemson’s classrooms, he will forever be revered as one of Clemson’s most outstanding professors.

John Lane passed away in January 1968. His final resting place atop Cemetery Hill appropriately honors a true gentleman who holds a renowned place in Clemson’s history. The lessons of the legendary John D. Lane continue to teach, impress and inspire.

The author, Mary Frances Ross, is a Clemson senior in biological sciences.
Clemson is a driving force in making South Carolina the hub of the nation’s automotive and motorsports industry cluster. Officials broke ground in November on a 400-acre Clemson automotive research campus in Greenville, to be anchored by a graduate engineering center and unique research and development facilities.

Pictured above from left, Helmut Leube, president of BMW Manufacturing Co. of South Carolina; former governor Carroll Campbell; and S.C. Gov. Mark Sanford joined Clemson President James F. Barker in turning the first shovels of earth at what will be the Clemson University International Center for Automotive Research.

BMW will build an Information Technology Research Center on site, making BMW the park's first nonacademic tenant. The 84,000-square-foot center will support research that focuses on improving automotive software systems and software/hardware compatibility for BMW products.

The $15 million facility will be owned by Clemson and leased by BMW. State funding to build the center is part of the state incentive package offered to BMW last year when the company announced an investment of $400 million and the creation of 400 new jobs over the next several years.

IBM plans to form a long-term partnership with Clemson in this project, starting with a first-year commitment valued at $1.1 million. The commitment includes $750,000 worth of software and the assignment of an IBM executive to support the work of Clemson faculty and students. IBM is working with both Clemson and BMW on extended participation in the future.
Microsoft is also committed to being a part of the center and will announce the details of its participation later.

The site consists of a 250-acre Clemson campus and an adjacent 150-acre property that will be privately developed by Rosen Associates. President and CEO Cliff Rosen has been integral in helping the vision of the automotive research center become a reality.

Eventually, the campus is expected to include unique research and testing facilities, such as an automotive electronics systems lab, crash-worthiness lab, fuels lab with an emphasis in hydrogen-based research, and a full-scale wind tunnel.

**Graduate engineering center**

The $25 million graduate engineering center, at BMW’s request, will be named for former governor Carroll A. Campbell Jr., who helped recruit the company to South Carolina. The center will house nine faculty members and up to 50 graduate students, who are expected to generate $5 million a year in external research support.

The graduate programs will focus on systems integration, addressing a growing challenge in the automotive industry as car components become increasingly computerized.

Graduates of the program will be prepared to meet the engineering and management challenges of designing and building a highly complex automobile in which mechanical, electrical and digital technologies work together to drive safety, performance, comfort and even entertainment.

Clemson will collaborate with Greenville Technical College to prepare the technical staff that will be needed as the campus develops.

**Support**

Two bills approved in 2002 by the S.C. General Assembly are providing key support — the Research Centers of Excellence Act and the State General Obligation Economic Development Bond Act.

The Clemson project already has generated more than $90 million in public and private support:

- $10 million from BMW to endow the graduate engineering center;
- $5 million in additional private support for the graduate center from BMW suppliers;
- $15 million in matching funds from South Carolina’s Research Centers of Excellence Act, which earmarks lottery revenues for endowed chairs;
- $40 million from the state’s economic development incentive bond act to build and equip the graduate engineering center and build the information technology center that will be leased by BMW;

“It makes sense to place the center here so that students at Clemson’s graduate school of automotive engineering can work with product development and manufacturing research teams. Clemson’s graduate program will create an additional source of quality engineers for BMW as well as the automotive industry internationally.”

Helmut Leube, President of BMW Manufacturing Co. of South Carolina

“In terms of retaining and developing core competencies for a razor-sharp competitive edge, IBM is joining forces ... to take on challenges of top strategic importance to the future of the automotive industry worldwide — and do so by helping in the training of top talent here in Greenville.”

Todd Kirtley, General Manager of IBM Global Services for the Industrial Sector
• $14 million in state funding for roads and other infrastructure;
• $1.1 million in a first-year commitment from IBM;
• $7 million to be raised by the Clemson University Foundation to purchase land.

Construction

The campus will be built on 400 acres of prime Greenville property that fronts Interstate 85 halfway between Charlotte, N.C., and Atlanta, Ga., a corridor that is home to two-thirds of the nation’s motorsports racing teams. There are 200 automotive-related businesses in South Carolina and another 114 automotive industry suppliers located in the Palmetto State.

Construction will begin this year on the graduate engineering center, located on the research and education campus at the intersection of I-85 and Laurens Road in Greenville. Initial plans call for a four-story building with space for laboratories, classrooms and offices. An additional $30 million from the state Research Centers of Economic Excellence program and matching industry awards will secure three endowed chairs and six additional faculty members.

The research synergy between the center and related campus research is predicted to generate more than $10 million of external funds a year eventually.

The center director is expected to be on board later this year. An international search has begun, seeking top applicants from industry and academics.

At the wheel

Clemson’s new Carroll A. Campbell Jr. Graduate Engineering Center will put South Carolina in the driver’s seat in the emerging field of automotive systems integration.

As any motorist can see from behind the wheel, automobiles and computers are increasingly intertwined. Today’s dashboards glow with global positioning units while sensors monitor tire traction and pedal pressure applied to the brakes.

Systems integration is a critical challenge for the automotive industry as car components become more complex. It is also a challenge for a host of other industries, ranging from computers to gas turbine generators.

Through the graduate engineering center and related research labs, Clemson faculty and students will find ways to integrate the scores of different systems in automotive development and manufacturing.

The center, set to open in 2005, will build on existing strengths at Clemson, where researchers already collaborate with some of the world’s top automotive companies and motorsports industry. (See “Already at Clemson” on the next page for many of the University’s current auto-related research projects.)

“You need people who understand a range of disciplines and know how to put them together,” says Imtiaz Haque, chair of Clemson’s mechanical engineering department. “That’s where Clemson comes in.”

For more information on the automotive research campus, visit the Web at www.clemson.edu/autoresearch.
Auto-related research projects already in the works range from computer models to breakthroughs in fuel efficiency to improved materials and techniques.

Here is a brief rundown.

- More efficient engines. Harnessing world-class computational capabilities, researchers in Clemson's computational fluid dynamics (CFD) lab can predict and eventually control intricate fluid flows in everything from the interiors of engines to the exteriors of speeding cars. Using Clemson's supercomputing capabilities, researchers are developing complex aerodynamic modeling that may help eliminate time-consuming prototype testing. Clemson has one of the top university labs focused on CFD improvements to aircraft jet engines, power-generating turbines and race cars.

- Drive-by-wire technology for use in mainstream automobiles. “By wire” means that the steering, braking and throttle are controlled by the electrical pulses going through the wires instead of mechanical linkages. This technology holds promise of quicker response times in braking and maneuvering.

- Computer-aided development of novel materials and processing technologies that will enable the development of more efficient and environment-friendly vehicles, as well as electrical power generators.

- Toughened plastics for automotive uses, such as bumpers and interior structural components.

- Modeling and analysis of emerging manufacturing processes, such as cost-effective, environmental-conscious machining.

- Modeling and implementation of e-manufacturing (Internet-based distributed manufacturing). This research could provide a platform for remote process/system monitoring and optimization, helping pave the way for fully integrated automobile manufacturing.

- Work on developing a plastic engine for cars. High thermal conductivity carbon fibers in the engine would wick away heat, keeping the engine cool and the plastic intact. The work is done through Clemson's national Center for Advanced Engineering Fibers and Films (CAEFF).

- Virtual-reality testing to determine how drivers’ attention is affected by cell phone use, conversations with passengers or even the use of electronic navigation aids.

- Pedestrian visibility and perceptions of visibility in nighttime driving.

- Research into whether or not in-car displays, such as the windshield displays that detect objects in fog, truly help drivers or only distract them.

- Computer-modeling tools that will help the U.S. Army develop 21st century tanks and vehicles. The design and simulation approaches are needed to make tomorrow’s hybrid and alternative-fuel vehicles cheaper, lighter, faster, more stable and more fuel efficient.

- Quieter rides, thanks to development of advanced computational and modeling methods to predict and prevent road noise and vibration.

- Enhanced ride comfort and handling, resulting from research in aerodynamics, suspension and chassis design.

- Novel research that may provide insight into how car-generated pollutants are removed from the air during rainstorms.

- Research in enhanced thermal system management for automobiles. Improved heat control and dissipation could lead to significantly lighter, more fuel-efficient engines with reduced tailpipe emissions.

- Greater fuel efficiency, made possible by development of lighter-weight structures and through advances in continuously variable transmissions.

- Breakthrough research into development of sturdy road materials made from recycled tires.

- Researchers with CAEFF are developing fibers that could make hydrogen a practical fuel for cars. The fibers are highly porous and contain metal nanoparticles designed to attract and adsorb hydrogen. The goal is to create a material that can store gaseous hydrogen at liquid densities.

- Developing computer-based models of the human driver, which will be used to develop virtual prototyping of vehicles. Total virtual-reality design could significantly shorten the design process.

- Finding a more efficient means to make biodiesel. The alternative fuel is a blend made from petrodiesel and used cooking oil from restaurants, as well as from vegetable oils, greases or rendered animal fats. There is no performance loss from the cleaner-burning renewable-energy product. Its use requires little or no diesel engine modification. National leaders expect biodiesel to be a step toward energy independence.

- Clemson’s Center for Optical Materials Science and Engineering Technologies (COMSET) is developing improved uses for optical fiber in automobiles. Fibers route information between a car’s electronics and on-board sensors. They are considerably lighter than electrical wires, thereby reducing the weight and size of wiring harnesses. Light carried by future optical fibers is expected to pull double duty by providing internal and external lighting as well.

- “Smarter” tires, embedded with piezoelectric materials, could someday sense and respond to changing road conditions and provide tire-shape modulation.
Mechanical engineer Dave Zumbrunnen, a White House Presidential Faculty Fellow, has developed a “smart blending” process that could change the way plastics are made.
Chaos, simply put, holds that small changes can have a huge impact on the big picture. Chaos theory, already used to encrypt military secrets and predict economic market slides, was taken into the mainstream lexicon by *Jurassic Park*, in which small oversights led to lots of human snacks for dinosaurs.

“Our work amounts to chaos people can hold and touch,” says Zumbrunnen, Clemson’s Warren H. Owen-Duke Energy Professor of Mechanical Engineering. He developed his “smart blending” process along with faculty and student researchers from Clemson’s Center for Advanced Engineering Fibers and Films.

Zumbrunnen’s process could change the way plastics are made, essentially bringing plastics production into the 21st century.

Immediate applications could include improved food packaging films, personal hygiene products, light-interactive plastics and toughened plastics for automotive uses. Smart blending could also be used to produce patterns for countertops and even better-tasting breakfast cereals.

Stories published in peer-review journals over the summer drew strong interest from European and U.S. plastics manufacturers, with Zumbrunnen sometimes fielding as many as eight calls a day from plastics and equipment manufacturers interested in commercializing the technology.

Zumbrunnen predicts that the first wave of smart-blended plastics could be on the market within a few years.

“For him, this is the fruition of 12 years of research. “I have wondered why this technology advance occurred in my laboratory and not elsewhere,” says Zumbrunnen. “Looking back, I had a unique mix of experiences that exposed this technology to me. I also tend to see connections among most things that I learn.”

His background includes more than five years in the U.S. Navy, where he oversaw operation of the nuclear propulsion system on a ballistic missile submarine.

“I felt, and still feel, that the world can be made a better place through education and discovery,” he says. “What better place than a university?”

Zumbrunnen has been named a White House Presidential Faculty Fellow and was a recent participant at the National Academy of Engineering’s prestigious Frontiers of Engineering symposium. In addition to conducting his own research, he typically works with five to eight graduate students and teaches mechanical engineering courses at the graduate and undergraduate levels.

His research is based on the work of Hassan Aref, who developed what’s known as the theory of chaotic advection. In a 1980s paper, Aref showed that particles in a fluid can move chaotically in response to simple agitations. The chaotic motions cause fluidic regions to become stretched and folded, forming the layers on which Zumbrunnen has based his work.

Aref, now dean of Virginia Tech’s College of Engineering, has called the Clemson mechanical engineering professor’s work “attractive and ingenious.”

Zumbrunnen’s work is a pivotal research initiative in Clemson’s fibers and films center. The National Science Foundation established the center as one of the nation’s elite Engineering Research Centers in 1998. It’s the only national Engineering Research Center to target fiber and film research.

“This technique could change the way we produce all polymer products — fibers, films and even injection-molded products,” says the center’s director Dan Edie.

With a smart-blending machine, engineers can optimize the plastic for maximum effectiveness with only a few strokes on a computer keyboard. Plastics can be made tougher, electrically conductive, porous — whatever is needed for the particular end product — but without expensive trial and error.

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From the lab to the crib, these Clemson alumni are giving Mother Nature a little help.
Last year Clemson alumnus Bill Boone celebrated the birth of his 500th baby. Okay, they weren't really "his" babies. But he certainly had more to do with their births than just wishing their parents good luck.

Boone, who earned both a master's degree in animal science (1972) and a Ph.D. in animal physiology (1977) at Clemson, has been helping couples overcome infertility for more than a decade.

He's director of the Assisted Reproductive Technology (ART) and Andrology laboratories in the Center for Women's Medicine of the Greenville Hospital System.

With previous expertise in reproduction ranging from avian to bovine even to black bear, Boone began focusing on the causes and treatment of human infertility in the mid-1980s. He joined the Greenville Hospital System in 1990 and set up the Andrology lab. By 1992, he had the ART lab running full-force. Now, with more than 500 babies and many more happy family members to show for its efforts, the program is a leader in the Southeast with a success rate of more than 50 percent for those patients having a retrieval, which is well above the national average of 35 percent.

Part of that success has resulted from the center's "cleanroom" laboratory. One of only two like it in the nation, it was established in 1992 as the world's first cleanroom to further improve patients' chances of pregnancy. The state-of-the-art laboratory is designated as a Class 100 clean air system, meaning that no more than 100 particles that are .5 microns and larger are in a cubic foot of air. The average house has more than a million per cubic foot.

"Reduction of air particles decreases the likelihood of contaminating the culture medium used in assisted-reproduction techniques such as in-vitro fertilization. This improvement in air quality increases the likelihood of success," says Boone.

It's just one of the ways that he and his ART laboratory staff increase the chances of pregnancy. In addition to treating patients, Boone is actively involved in both research and education.

His other professional affiliations, activities, grants, research projects and papers are as impressive as they are comprehensive. In addition, he developed four patents for various companies.

Sharing education is as important as acquiring it for Boone. He holds an adjunct full professorship appointment at Clemson, has co-authored a number of studies with Clemson researchers and has served on graduate committees for Clemson students.

As a matter of fact, two of his ART lab staff members are also Clemson alumni — Lee Higdon Ph.D. '99 and Jennifer Graves '97, M '00.

"I witnessed the expertise and education of both these members while they were students at Clemson," says Boone. "I knew they would fit well into our team."

Higdon's attention to detail has led to an improvement in how the embryos are cultured in the ART laboratory. He has altered the actual incubation environment (e.g. temperature, gas concentration and media design) in which the embryos reside. In addition, Higdon is implementing a paperless system into the ART and Andrology laboratories that will help reduce staffing time and improve data collection. Use of data collection helps make the advances that appear in these laboratories.

Graves is the quality control expert for the ART laboratory. She ensures that all plasticware and media used for culturing human embryos has passed a stringent mouse embryo assay, a test she learned to perform while at Clemson. Her desire for knowledge has led her back to Clemson where she's now pursuing a Ph.D. degree in the biological sciences department. She's currently trying to develop a closed system of vitrification to rapidly freeze mammalian embryos.

Boone and Clemson alumna Jennifer Greer '97, M '00 and Boone's daughter Becky Keck Ph.D. '01 also worked on a project to help save the endangered black bear. As a result, Boone and his nonprofit group, Bears Inc., produced the world's first embryo-transfer bear cub.

In addition to his Clemson connections, Boone holds adjunct full professorship positions with the University of South Carolina and the Medical University of South Carolina.

Along with his intense scientific interest, Boone has a keen understanding of what it means to be a parent. "My wife, Edna, and I have experienced the joy of raising four children," he says. "It's wonderful to be able to give couples who are struggling to conceive the same opportunity."

To learn more about the Greenville Hospital System's Center for Women's Medicine, visit the Web at www.ghs.org/womenssvcs.asp or call (864) 455-1600.

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All in the family

Bill Boone grew up in a Clemson home filled with the love of knowledge and unlimited energy. His father, the late Dan Boone, was a Clemson poultry science professor for more than three decades, known throughout the state and region as an avian expert. His mother, Dot, worked with the USDA Cotton Division on the Clemson campus nearly two decades; and his brother, Mike ’68, M ’72, who holds Clemson industrial education degrees, teaches at the Rock Hill Applied Technology Center.

Last fall the University and the S.C. Poultry Federation dedicated the Wiley-Boone Aviary, located on Old Cherry Rd., in memory of Dan Boone and fellow poultry science professor William Wiley, both integral in establishing the original aviary area. The new aviary houses domestic, game and exotic fowl, along with a pond and education center. For more aviary information, call Clemson poultry specialist Mickey Hall at (864) 656-4022.

Bill and his mother have just completed 113 Calhoun Street: The Early Years of the Beta Zeta Chapter of Alpha Gamma Rho, a book on the beginnings of the fraternity with its Clemson connection. Their book honors Dan, founder of the fraternity, who had intended to write the history of the agricultural fraternity before his death. (For more information on the book, email Jason Hart at JasonHartQD-MA@aol.com.)
Tiger pride
Coach Tommy Bowden gets a little help from the Clemson Tiger and Tiger Cub in displaying the Chick-fil-A Peach Bowl trophy. Clemson’s 27-14 victory over then 6th-ranked Tennessee (Jan. 2, 2004) helped Clemson finish the 2003 football season ranked 22nd in the nation in both the AP Poll and the USA Today/ESPN Coaches’ Poll.

Monday, March 22, 8 p.m.
Bowfire
A total violin experience! Eleven critically acclaimed violinists and fiddlers perform music as diverse as classical, jazz, country, rock ‘n’ roll, old-time, Texas-style, bluegrass, Celtic and more.

Thursday, March 25, 8 p.m.
Cinderella
The Moscow Festival Ballet tells the magical story of Cinderella set to the beautiful music of Sergei Prokofiev.

Friday, April 2, 8 p.m.
La Traviata
Giuseppi Verdi's amazing story of love found and lost is stunningly presented by Teatro Lirico D'Europa, one of Europe's finest opera companies.

Monday, April 26, 8 p.m.
Comedy Pet Theatre
Russian clown Gregory Popovich combines juggling and acrobatics with the artistry of highly talented cats and dogs to produce one of the funniest circuses ever.

Brooks Center Box Office, Monday-Friday, 1-5 p.m., Telephone: (864) 656-RSVP (7787), Web site: www.clemson.edu/Brooks
Tale of a Tiger
by Sarah Miller ’04

Thanks to Special Collections, Clemson University Libraries, for archives and art.
One of the main things that drew me to Clemson University as a freshman was the beauty of its campus. Now as I get ready to graduate, I've come to appreciate the things that really make Clemson so distinctive. Not only was Abe Wolfe Davidson a famous sculptor, he was also a fellow Clemson student who contributed to the uniqueness of our school. I take pride in the fact that his sculptures are part of what makes Clemson so special.

Outside Clemson’s newly renovated Littlejohn Coliseum stands one of the University’s most famous “residents” — the Littlejohn Tiger. It has quietly watched over more than three decades of Clemson students.

But the Littlejohn Tiger has its own story to tell.

Its story, however, starts back at the even better known bronze sculpture of Thomas Green Clemson in front of Tillman Hall. And the story of both Clemson landmarks goes all the way to Vitebsk, Russia, over 100 years ago.

There, in 1903, was born A. Wolfe “Abe” Davidson, destined to be one of Clemson’s most unusual students.

While four of his brothers immigrated to the United States prior to 1914, young Abe and his parents remained in Russia. An early interest in art sent him to the Russian National Art School in Vitebsk where he studied after the Russian Revolution. In 1922, a brother succeeded in having him and his mother smuggled from Russia to Latvia.

Later that year, Davidson immigrated to Greenville, S.C., at the age of 19. He continued his study of art, sculpture in particular, while being tutored in the English language. He spent two years in New York City widening his artistic knowledge through close observance of work in museums and galleries. Stricken with a serious illness in 1928 from the aftereffects of the famine in Russia, Davidson was an invalid for the next six years. Despite the debilitating illness, he was determined to continue sculpting.

In 1934, Davidson was admitted to Clemson College under very interesting circumstances. Through special arrangements with President Enoch Sikes and J.C. Littlejohn, the College’s business manager, Davidson was given a studio and materials to construct a statue of Thomas Green Clemson. This cast cement statue would serve as payment for his room, board and tuition. Little did he know his creation would become one of the University’s most prized landmarks.

Davidson worked at Clemson for two years and in that time sculpted the cast-stone football panel at Fike Recreation Center and made a portrait bust of President Sikes.

In addition, Davidson was called upon to design the commemorative half dollar for the 1936 Sesquicentennial Celebration of the state Capitol in Columbia. He also produced sculptures of many prominent South Carolinians and Georgians.

A few years later, after the construction of Clemson’s new basketball arena, the Littlejohn Coliseum, the University called on the artist again. This time, Tiger Brotherhood commissioned Davidson to create another work of art for the west side of campus. Using aluminum, Davidson sculpted the now famous Littlejohn Tiger, a symbol of strength and beauty that was unveiled at the dedication of the coliseum in 1969.

Davidson passed away in 1981 at the age of 78 in Gainesville, Ga., and was buried in Greenville.

What started out as payment for Davidson’s college education has turned into one of Clemson’s most prominent landmarks. The Clemson statue, sometimes affectionately called “Old’Green Tom,” is a focal point of the Clemson campus.

The Littlejohn Tiger has become a Clemson icon, as well, and perhaps a symbol of one of Clemson’s most extraordinary students. With its fascinating tale of Abe Wolfe Davidson and all his endeavors, the Tiger will continue to stand proudly outside Littlejohn Coliseum for many more decades and students to come.
“This experience was, without doubt, the defining moment of my college career.”
— Stephanie Zabel

“From the halls of Congress to the bow of the Hunley, from the Smithsonian to the Good Shepherd Clinic in Belize, from D.C. to Dominica, Clemson students are redefining the meaning of ‘summer vacation.’

Clemson’s Calhoun Honors College awards competitive grants — Educational Enrichment Awards — of up to $2,000, and sometimes more, to students to help provide life-changing educational experiences outside the classroom and away from the Clemson campus. These experiences may be internships, foreign study, public service projects or other significant undertakings consistent with the student’s educational, career or personal goals.

Meet Clemson’s latest award recipients, and see how they spent their summer vacation.

Ann Cade, of Birmingham, Ala., a history major, interned with the Child Welfare League of America in Washington, D.C. She also had the opportunity to attend Congressional hearings on the Head Start program.

“My research and responsibilities over the summer helped me establish a frame of reference about the issues facing child welfare,” Ann says. “This experience has helped me better define what I am passionate about and the steps to get there. I am excited about pursuing a future in public health, creating and implementing policies to keep families together.”

Casey Hancock, a polymer and textile chemistry major from Hartsville, became part of an international team of scientists studying the H.L. Hunley and its artifacts. The team included researchers from the Smithsonian Institution, France’s Cold Plasma Research Laboratory and the Western Australia Maritime Museum.

“I arrived in Charleston not knowing what to expect,” Casey says. “But I quickly came to realize what the Hunley meant to people and how important it was for the history of this country.”

Tera Keeler of McClellanville, who is majoring in aquaculture, fisheries and wildlife biology, studied at the Rocky Mountain Biological Laboratory near Gunnison, Colo. She researched the Iron Fen at Mount Emmons, a unique acidic wetland being threatened by mining and development in the area.

Jan Levinson, a history major from Clinton, studied jazz and other forms of popular music at the Smithsonian. Her research project supports the development of an exhibit that showcases the “lost age” in country music (1971-84) and documents the cultural influence of country music from the 1940s to the 1970s.

“I had an amazing experience,” says Jan. “I worked under the guidance of one of the curators and performed primary research on country music for an exhibit called Honky Tonk, a photography display with memorabilia from country music of the 1970s.”

Tara McQuistion, a French and international trade major from Huntsville, Ala., interned with the Department of Commerce’s Export Assistance Center (EAC) where she was asked to represent the EAC at the International Business Center Trade Show in New York City. Her duties ranged from conducting market research to analyzing export trends. She also attended seminars on European Union standards and an international trade-training program at Pace University.

Invaluable ‘Vacations’
By Teresa Hopkins
Kelly Paterson of Greenville pursued a service-learning project at the Austine School, an institution in Brattleboro, Vt., that specializes in the education and development of deaf children. As a volunteer counselor/teacher, Kelly, an early childhood education major, gained valuable experience for a career in deaf education. The experience also tested her skills in American Sign Language, the sole form of communication among students and staff at the Austine School.

Clarice Seifert of Boise, Idaho, a biochemistry major, volunteered at the Let the Little Children Come home in Maneadero, Mexico, a refuge for abandoned and abused children. Despite having to adjust to a life where running water and cement floors were luxuries, she was gratified by the opportunity to care for children whose lives have been ravaged by disease, malnutrition and neglect.

“Generally, when I tell people that I want to become a pediatric oncologist, they comment on how difficult it must be to have to deal with suffering and dying children,” says Clarice. “But after spending five weeks with suffering Mexican children, I learned that they appreciate the small things in life.”

Mike Stadnisky, a biochemistry major from Alpharetta, Ga., had a three-part summer experience. First, he conducted research at the Good Shepherd Clinic in San Jose Succotz, Belize, where many patients are treated with medicines derived from rainforest plants. Next, he took an intensive course on tropical dendrology in Costa Rica. Then, he interned in the Washington, D.C., offices of the American Conservation Team (ACT) where he continued his study under ACT director and renowned ethnobotanist Mark Plotkin.

Stephanie Zabel, a senior horticulture major from Simpsonville, studied at Clemson’s Archbold Tropical Research Center in Dominica. Her research focused on the medicinal properties of rare plants discovered and used by the last remaining tribes of Caribs. Early into her summer experience, she was invited to give a presentation at a meeting of the Dominican Foundation of Herbal Researchers.

“I was able to meet all sorts of interesting people from bush doctors to herbalists to the Carib chief, and I had a wide range of new plants to explore and collect,” says Stephanie. “This experience was, without doubt, the defining moment of my college career.”

These nine students represent Clemson programs designed to meet the academic needs of top students. Some are Dixon Fellows while others are National Scholars. All are members of the Calhoun Honors College. And they all plan to use their Educational Enrichment Award summer experiences in their applications for Rhodes, Marshall, Truman, Goldwater, Fulbright and other nationally competitive scholarships.
Go ’53!

Alumnus Leonard Butler ’53, pictured center with Eddie Robinson, Alumni Association president, and Debbie DuBose, former chief alumni officer, received the 2003 Alumni Association Volunteer of the Year Award.

Butler was awarded for his extraordinary contributions to the success of his 50th Reunion. He authored 17 Class of 1953 newsletters prior to the 2003 Reunion, sharing information on each class member and encouraging attendance.

A member of the Alumni National Council for 15 years and a former president, Butler has been an active member of IPTAY for 49 years and is the founder and chairman emeritus of the Committee to Perpetuate the Memory of the Clemson Senior Platoon.

Butler worked for Burlington Industries for 35 years in various manufacturing and human resource development positions. He’s now a training consultant for Leonard C. Butler and Associates in Burlington, N.C. His son, Clator, is a 1995 Clemson graduate.

Judgment day

Picking the best Homecoming displays on Bowman Field was a tough job for these Clemson judges, pictured from left, Eddie Robinson ’79, Frank Gentry ’72, Cynthia Robinson, Central Spirit student coordinators Jennifer Cordell and Adriane Bell, Les Heaton ’74 and Kathy Hunter ’80.

Winners were Alpha Gamma Rho for the best moving display and Fellowship of Christian Athletes for the best still display. The annual competition is funded by the Alumni Association and coordinated by Central Spirit.

YA of Merit

Clemson’s 2003 Young Alumnus of Merit, or “alumna” in this case, is Elizabeth Milhous ’97, M ’99, pictured here with John DeWorken, president of the Young Alumni Council.

This annual award recognizes outstanding alumni for their professional success and their contributions to the University and their communities.

Milhous is a middle-school teacher in the Fulton County, Ga., talented and gifted program. She’s a member of the Kappa Delta Pi Honors Education Sorority and the Atlanta Humane Society.

For Clemson, she serves as president of the Atlanta Clemson Club and as a member of the Women’s Alumni Council. Overall, Milhous is a constant champion for Clemson academics, athletics and alumni relations.

Alumni Tiger Band

Tiger Band alumni marched back to campus during Homecoming to play “Tiger Rag” and cheer on the Tigers during the 21st annual band reunion. Members also raised money for Tiger Band scholarships. For more information about Alumni Tiger Band or to see more photos, visit the Web at www.clemson.edu/tigerband.
Tigers and Taps
Clemson Student Media welcomed alumni in October to compare notes on their days of writing and broadcasting for campus media. For more information about Clemson Student Media or to sign up with media alumni, visit the Web at union.clemson.edu/sa/student_media.

TAPS alumni, from left, Henry Chaplin ’51, Richard Imershein ’48, current editor Lindsey Mathis, Brad Jones ’01 and Jenna Baker ’02 with daughter Richey.

The Tiger, from left, student member Caroline Stone and alumni Kevin Taylor ’91, Eric Freshwater ’90 and Henry Chaplin ’51.

Bring your daughter
Mark May 15-16 on your calendar for Bring Your Daughter to Clemson 2004 weekend. Sponsored by Women’s Alumni Council, the annual event is an opportunity for alumni to return to Clemson and to experience campus life with their daughter, niece, sister or special friend. For more information, call (864) 656-2345.

Ready, set, pack!
PASSPORT Travel has a series of adventures awaiting Clemson alumni in 2004. Plans include an April cruise of Holland and Belgium waterways, a July cruise of Scandinavia/Russia, a July journey through Civil War sites, an August tour of U.S. National Parks and a December river cruise of Austria’s holiday markets. For more on these and other PASSPORT Travel adventures, call the Alumni Center at (864) 656-2345.

CAFLS Orange
Clemson’s College of Agriculture, Forestry and Life Sciences (CAFLS) alumni, family and friends gathered for the college’s annual tailgate party last fall. Pictured here, Matt Honea gets his face painted by CAFLS staff members Kim Erwin (left) and Amy Sanders. CAFLS also held its fifth annual Thomas E. Skelton Scholarship Benefit Golf Tournament at Clemson’s Walker Course.

ANC 2003-2004
Members of the Alumni National Council (ANC) are elected by alumni to guide the association in its service to the Clemson family. Leading ANC are Eddie Robinson ’79 of Columbia, president, and Brian J. O’Rourke ’83 of Greenville, president-elect.

District Representatives
1. Danny E. Gregg ’71, Clemson
2. E. Grant Burns ’88, Greer
3. Kenny W. Poston ’78, Greenwood
4. Kimberly A. Fly ’94, Spartanburg
5. Michelle M. Hatchett ’88, Myrtle Beach
6. Leslie D. Callison ’81, Lexington
7. Karen O. Wimberly ’87, Bowman
8. Witt I. Langstaff Jr. ’75, Hartsville
9. Laurence S. Bolchoz Jr. ’86, Myrtle Beach
10. Andy R. Thomas II ’88, Hampton
11. Tom B. LaRoche ’82, Charleston
13. Claude W. Garraway ’54, High Point, N.C.
17. John E. Beaman ’87, New York, N.Y.
19. Tracey L. Young ’90, McKinney, Texas

At-Large Members
Clemson Black Alumni Council, Jessie L. Hood ’94
Clemson Foundation, Virginia C. “Ginny” Skelton ’58
Extension, Charles W. Davis Jr. ’79
Faculty, Patti Connor-Greene
Graduate Student Government, Mason Ailstock ’02, M ’04
IPTAY, Jim R. Sanders Jr. ’70
Student Alumni Council, Jonathan Williams ’04
Student Government, Fletcher Anderson ’04
Women’s Council, J. Lynn West ’84
Student Phonathon, Myra Morant
University Guide Association, Mac Mitchell ’04
Young Alumni Council, John M. DeWorken ’96
Clemson President James F. Barker ’70
Director (at large) Frank Kellers III ’57, California
Acting executive director Matt J. Watkins ’77, M ’81
Past president Kathy H. Hunter ’80, Lexington
University Advancement, A. Neill Cameron Jr.
The Clemson Family

Student Life

Prince-ly picnic

Clemson students who benefit from the Philip H. Prince Alumni Scholarship gathered for a picnic at the Alumni Center and the opportunity to meet president emeritus Phil Prince ’49 and his wife, Celeste.

The Alumni Association created the unrestricted scholarship program in 1999 to honor Prince for his service as the 12th president of the University. More than 400 Clemson students benefit from the scholarship.

‘Forza, Tigers!’

Clemson design students studied in Italy last fall with professors Stefano Fera and Robert Bruhns. Students are pictured here during a trip to Andrea Palladio’s Villa Rotonda in Vicenza. The group also toured the villas and gardens of the Veneto and saw Villa Rocco-Pisani.

The College of Architecture, Arts and Humanities offers semester-long resident programs for design students in Genoa, Barcelona and Charleston. More than 75 percent of Clemson seniors in architecture in the Class of 2004 have spent at least one semester in an off-campus program.

For more about the College of Architecture, Arts and Humanities’ off-campus programs, visit the Web at www.clemson.edu/caah and click on “off-campus study.”

Day with India

The Clemson chapter of the Association for India’s Development celebrated a “Day with India” to acquaint the Clemson community with Indian culture, featuring henna tattooing, Indian food and handicrafts, and colorful exhibits about India and its heritage.

The nonprofit organization supports a wide variety of social development projects designed to improve life for the poor and underprivileged in India.

The Clemson chapter is one of 36 in the nation. Its volunteers have supported literacy campaigns, vocational training and health care among preteens, free medical checkups for villages, health awareness programs and a mobile science lab.

Classy dinner

Student Alumni Association members got an extra serving of manners at their business etiquette dinner last fall. The annual dinner, one of the membership benefits, teaches students the correct way to conduct themselves in a business setting over a meal.

Clemson in Vegas

Clemson students Yi Lin (left) and Tao Xu discuss their research with Rita Colwell, director of the National Science Foundation, whom they met last semester at the NSF’s EPSCoR National Conference in Las Vegas, Nev.

Xu is a graduate research assistant in bioengineering professor Thomas Boland’s laboratory, and Lin is a graduate research assistant in chemistry professor Yaping Sun’s laboratory. The students represented both the University and the South Carolina EPSCoR (Experimental Program to Stimulate Competitive Research).

One of the NSF EPSCoR projects in South Carolina is artificial human-tissue engineering by Clemson scientists.
Top Tiger Cup

The Tiger Cup, sponsored by Tiger Brotherhood, the communication studies department and many others, is an oratorical competition among student organizations in the spirit of Clemson’s famous orators.

The latest winner is Kevin Tucker (left), a psychology major from Eastover, representing Clemson’s Pi Alpha Chapter of Alpha Phi Alpha. Kevin’s winning speech on “The Next Big Thing In Clemson’s Enduring History Is...” can be found on the Web at www.tigerbrotherhood.org/tigercup.

The Tiger Cup awards the top five individuals and the organizations they represent. The first-place individual and organization receive $500 each and a place in Tiger Cup history.

SAA goes a long way

Student Alumni Association (SAA) president Jonathan Williams presents a check for $3,720 to President Jim Barker and Joe Boykin, libraries dean, as the student organization’s annual gift to the Clemson Fund.

A gift of $5 per member is directed each year toward a student-based project or program on campus. This year’s check for $3,720 will be added to last year’s amount to help build a study/lounge area on the Cooper Library balcony that overlooks the Strom Thurmond Institute.

The student organization works to connect students, alumni, faculty and community to enrich the Clemson experience. Members get discounts with area businesses. The Alumni Association provides frequent giveaways, money-management seminars, career-networking receptions and other events for members throughout the year.

Membership is $20 per year — $15 dues and a $5 gift to the Clemson Fund. For more information, visit the Web at www.alumni.clemson.edu/saa or call the Alumni Office at (864) 656-2345.

Gantt Center

Clemson’s multicultural affairs office in the Hendrix Student Center has expanded its services. Renamed the Gantt Intercultural Center, the office now provides a variety of programs and support services for international students. The Gantt Intercultural Center staff will continue to provide support services for minority students, cultural awareness activities for the campus and community, and diversity training. For more information, call (864) 656-7625 or visit the Web at stuaff.clemson.edu/oma.

CARS

Clemson Auto Racing Society (CARS) members gather around their newest “member” — a late model stock Chevy Monte Carlo that they rebuilt themselves. The organization is composed of Clemson students, faculty and alumni as well as members of the motorsports community who share a passion for the sport.

Membership is designed to foster communication between the motorsports industry and Clemson students, provide students with the tools necessary to succeed in motorsports, and allow motorsports industry partners to search for employees.

The group is also organizing a NASCAR race team and lining up a professional driver. Students will man the pit crew and manage the team. They plan to race in March at the Greenville-Pickens Speedway as part of NASCAR’s Dodge Weekly Racing Series.

To learn more about the auto racing society, go to the Clemson mechanical engineering department’s Web site at www.ces.clemson.edu/me and click on “CARS.”

The Tiger in Dallas

The Tiger staff members traveled to Dallas, Texas, last semester for the annual National College Media Convention. Clemson’s student newspaper received second place in Best of Show and was nominated for the Pacemaker award.
Classmates

Charles James of Wood River, Ill., now retired from Southern Illinois University, recently took part in recreating history. He spearheaded the building of Camp DuBois where the Lewis & Clark Expedition encamped on Wood River.

Just over 200 years ago, Meriwether Lewis and William Clark wintered along the banks of the river with their Corps of Discovery before setting out on their historic journey through the territory of the Louisiana Purchase to Fort Clatsop, Ore.

James and a historical re-enactor launched the Camp DuBois Rendezvous last year, a living history weekend during which people from all over the United States visited Wood River to relive frontier life. From that experience came the idea to build a replica of the original camp in time for the 200th anniversary.

1947
David C. Wylie (ANHUSB) of Chester and Steve Epps Sr. ('49 TMFG) of Lancaster have contributed to a book, World War II — Hometown and Home Front Heroes: True Experience Stories from the Carolinas’ Piedmont, published by A. Borough Books.

1954
L. Stanley DuBose (AH) of Sumter received the Legion of Honor award from Kiwanis International for 35 years of perfect attendance.

1962
Charlie G. Coble (AGE) of College Station, Texas, was named a fellow of the American Society of Agricultural Engineers. He’s recognized for his many years of service to the agricultural engineering profession as an educator, researcher, consultant and loyal society member.

1963
T. Griff Stanley Jr. (FOR) of Tuscaloosa, Ala., is vice president and business leader for Gulf States Paper Corp., wood products division.

1965
Timothy H. Long (TC) of Greenville retired last year after working for Cognis Corp. for 28 years.

Guy C. Tarrant (INDMGT) of Charleston was appointed by Gov. Mark Sanford to the State Board for Technical and Comprehensive Education. He’s president of the Tarrant Co., a commercial and industrial real estate investment firm.

1966
J. Richard Cottingham (CE, M ’73) of Seneca received the 2003 National Council of Examiners for Engineering and Surveying Distinguished Service Award. He’s the retired president of the Titan Atlantic Group in Raleigh, N.C.

1967
Barry T. Davilli (EE) is working in new product development for Sun Microsystems Ltd. in Surrey, UK.

1968
Kenneth M. Suggs (ECON) of Columbia is vice president of the Association of Trial Lawyers of America.

1969
Tom K. Gaither (RPA, M ‘77 ADMSPV) of Pawleys Island has retired after 25 years as a college and high school basketball coach. He set records for wins and/or win percentages as a head basketball coach at Morehead State and Charleston Southern universi-
ties as well as Lower Richland, Georgetown, Indian Land and Berkeley high schools. He has been nominated for the S.C. Coaches Association State Hall of Fame. He's currently coordinator of human resources for the School District of Georgetown County.

J. Allen Martin (HIST) of Vienna, Va., served 22 years as chief of staff for Rep. Bob Livingston. After leaving Congress in 1999, they started the Livingston Group, a lobbying firm in Washington, D.C.

1970
Gary E. Clary (HIST) of Spartanburg is a senior litigation counsel for Extended Stay America.

Robert A. DeFrancisco (PSYCH) of Brewton, Ala., published an article in The National Psychologist entitled “From Clinical Psychologist to Clinical Detective.” He has been in private practice for 30 years at the Brewton Medical Center.

1971
John M. McTamney (CE, M ’77) of Navarre, Fla., has retired from the U.S. Air Force with the rank of lieutenant colonel after 22 years of service.

1972
Thompson E. “Tom” Penney (PREARCH, M ’74 ARCH) of Charleston received an honorary fellowship in the Korean Institute of Architects in Seoul, Korea. He's the current president of the American Institute of Architects.

1973
Fred W. Andrea III (HIST) is married and living in Aiken.

1974
Charles C. Baker (IM) of Clemson has been named to the Clemson Area Chamber of Commerce board of directors. He's a financial consultant with AG Edwards & Sons Inc. of Seneca.

Elizabeth Tobias (M EDUC) and Gerald J. (M EDUC) Berry are living in Sutherland, Va. She's Teacher of the Year at Bensley Elementary School where she is guidance counselor. He's a retired lieutenant colonel in the U.S. Army and has published a novel, When Eagles Are Silent.

J. William (POSC) and Melynda Higgs (’85 ECON) Taylor are married and living in Florence.

1975
Brian D. Garrett (PREARCH) of Ocean Isle Beach, N.C., is

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### Major medical scientist Perry Sprawls ’56, M ’61, PhD ’68

Three-time Clemson graduate Perry Sprawls was recently awarded the Harold Johns Medal for Excellence in teaching and leadership in international medical physics education. He holds a bachelor's degree in industrial physics, a master's in nuclear science and a Ph.D. in bioengineering.

He received the prestigious award from the International Organization of Medical Physics, which represents over 75 countries. This honor is awarded every three years to a medical scientist who has made major international contributions in the fields of medical science and education.

His current affiliations include professor of radiology at Emory; director of the College on Medical Physics, International Center for Theoretical Physics in Trieste, Italy; and director of the Sprawls Education Foundation. He also holds faculty appointments at educational institutions in several developing countries and other leadership roles in education.

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### Mount Everest Garry C. Phillips ’69

When industrial management alumnus and former Clemson football player Garry “Flip” Phillips was a student at Clemson, he enjoyed hiking and climbing in the mountains of the Upstate and surrounding areas.

After his days at Clemson, he earned national recognition in the U.S. petroleum industry during a 30-year career with Shell Oil Co. And for the last two decades, he's been CEO and board chairman of International Technologies as well as director of other company boards, associations and not-for-profit organizations.

Despite his hectic schedule, Phillips decided several years ago it was time to get back to climbing. He set the top of Mount Everest as his goal. In the meantime, he traveled from his home in Ponte Vedra Beach, Fla., to the frozen waterfalls of New Hampshire for climbing practice.

Last March, Phillips set out for a trek that would take him from Katmandu, Nepal, through Tibet and to Mount Everest for a 26,300-foot climb without supplementary oxygen.

Along with the extreme physical and mental challenges, Phillips found an equal sense of wonder, beauty and gratitude for an incredible adventure. He advises anyone else considering such a feat to prepare well and then go for it. He says, “Everyone has their Everest inside. Attempting to climb it is what keeps us truly alive.”
Alumnus Neyle Wilson of Myrtle Beach, president of Horry-Georgetown Technical College (HGTC) in Conway, began his 33-year career in technical education as an instructor. After only two years of teaching, he was selected as an Outstanding Educator in America. That title has epitomized his entire service at HGTC.

Wilson earned his way through a succession of growing responsibilities from department head to dean of continuing education, dean of instruction, vice president of academic affairs, executive vice president and chief financial officer to his current position as president of the college.

Wilson is chair of Partners Economic Development Corp., a public/private corporation for Horry County economic development. He’s recently been named the Outstanding Administrator for the S.C. Technical College System, Outstanding Administrator for HGTC, Myrtle Beach Jaycees Outstanding Educator and Conway Chapter of Professional Secretaries International Executive of the Year.

Outstanding educator H. Neyle Wilson ’70

1984
John J. Carvelli (INED, M ’93 VTED) of Port St. Lucie, Fla., was re-elected to a third term on the St. Lucie County school board and is serving as chairman of the 32,000-student school district.

Scott L. Garvin (DESIGN, M ’86 ARCH) of Lexington has opened architecture and design firm of Garvin Design Group in Columbia.

1985
Gloria Singleton Burns (HIST, M ’89 CRP) of Georgetown is principal of the Matheny-Burns Group, a planning and resource development consulting firm.

B. Chad Connelly (CE) of Newberry has published a book, Freedom Tide — Now You Can Make a Difference. For more information go to www.freedomtide.com.

Curtis F. Morgan (HIST) of Strasburg, Va., is working on a military biography of Nathanael Greene for the Nautical and Aviation Publishing Company of America. He’s on the program committee of the European Section of the Southern Historical Association.

Jody B. Newman (CE, M ’03 COMPSC) and Michelle Clark (’88 ECON) are married and living in Clemson. Michelle is working with the University’s Fertilizer and Seed Certification services.

1986
Eric V. Brown (CHE) is married and living in Charlotte, N.C.

Still serving R. Bernard Chapman Jr. ’71

Political science alumnus Bernard Chapman, one of the founding members of the Clemson Corps, has moved from one field of service to another. He retired from the U.S. Army Medical Department as a colonel and joined the William Jennings Bryan Dorn VA Medical Center in Columbia as director of diagnostic and ancillary services.

In his new role, he’s been an integral part of the medical center’s initiatives to emphasize the diversity successes already existing at the facility and to further improve them.

As a result, the center’s “Movin’ On Up” leadership development program recently received the Veterans Health Administration National Diversity Award. Clemson microbiology alumnus Rodney Reid ’83 was also a member of the award-winning team.

Chapman is a fellow of the American Academy of Medical Administrators and a past recipient of the academy’s Stateman of the Year Award.
The number of alumni who make a gift every year is a key factor in Clemson’s becoming a top public university. Our alumni participation goal for this year is 26 percent.

To see how your class is doing, visit the Web at alumni.clemson.edu/projects/update.htm for the latest numbers.

To help raise your class’s giving record, use the enclosed envelope, call (864) 656-5896 or make a secure online gift at www.clemson.edu/isupportcu.

Susan E. Hayes (ADMMGT) of Old Hickory, Tenn., has formed a market research consulting company, Hayes Consulting L.L.C.

Leon Pete Kythas (ET) of Wake Forest, N.C., received his license as a professional engineer from the N.C. Board of Examiners for Engineers and Surveyors. He works as a market manager for Square D in Raleigh.

Robin Burwell Weeks (CIS) is married and living in Pendleton.

Michael H. Freytag (CPENGR) of Simpsonville traveled with his wife, Amy, through France following several stages of the Tour de France last year. He reports that Lance Armstrong gave them a nod when they waved the American flag in his honor.

Amanda Burton Lewis (SCT-MA) of Iva is 2003-2004 Teacher of the Year for both Crescent High School and Anderson County School District 3.

Anthony J. Meyer (ADMMGT) of Evans, Ga., is senior director of development for the Medical College of Georgia in Augusta.

Darlene O’Dell (ENGL) of Williamsburg, Va., is a visiting instructor in the women’s studies program at the College of William and Mary. Her second book, I Followed Close Behind Her, was published by Spinsters Ink Press.

Andrew R. Thomas II (HIST) of Hampton is the director of a TRIO Student Support Services grant at USC Salkehatchie. He’s president of the Hampton County His-torical Society and is District 10 representative of the Clemson Alumni National Council.

John Jay Boland (AGBUS) of Ly- man is a self-employed contractor specializing in house renovations, landscaping, and swimming pool installation and service.

Blaire Jones Ferguson (MKTG) of Lafayette, Colo., is the sole proprietor of Petite Patsot, a business that sells recycled children’s clothing. The business is in its third year of operation and markets in the Denver and Boulder areas.

Christopher D. Sturkie (EE) of Greenville is a principal partner and senior electrical engineer at AC&S Engineering and Surveying Inc. He’s a real estate developer and investor.

John C. Womack (ARCH) of Sumter is a major in the U.S. Air Force and is attending Air Com-mand and Staff College at Max-well Air Force Base in Alabama.

John P. Yonce Jr. (EE) is married and living in Johnston. He owns Yonce Electric Motors.

Kelly Patterson Bostic (FIN-MGT) of Anderson is treasurer accountant at Plastic Omnium.

Alumni Dan Gerding (left) and Mark Godfrey of Gerding Architects, LLC in Atlanta, Ga., have recently completed the design of a LEED-registered visitor’s center and museum for the Georgia Department of Natural Resources. LEED (Leadership in Energy and Environmental Design) is the U.S. Green Building Council’s rating system that scores buildings on energy efficiency and environmentally conscious design.

Located in the historic Sweetwater Creek State Conservation Park, the visitor’s center and museum will serve as a gateway to the park. The first phase of construction of the visitor’s center is scheduled to begin in early 2004. The museum is expected to be the first LEED gold-rated building in Georgia.
The Clemson Family

Toni Coleman Carson (POSC) is married and living on Daniels Island.

Evelyn Nalley McCollum (HIST) of Easley will have her play The Proof is in the Puddin’ produced by the Foothill Playhouse beginning May 21, 2004.

Rebecca P. Rogers (DESIGN, M ’93 CSM) of Gainesville, Fla., is assistant housing programs manager with Alachua County.

Rosemary M. Thomas (POSC) is vice president of advancement at Salisbury University in Salisbury, Md., and executive director of the SU Foundation. Previously, she was vice president of advancement at Glenville State College in Glenville, W.V., and executive director of its foundation.

Joel R. Walker (CSM) of St. Petersburg, Fla., is a licensed real estate and mortgage broker and general contractor.

1991

David P. Baldwin (FINMGT, M ’93 ACCT) of Charlotte, N.C., is external financial reporting specialist at Goodrich Corp.

Amy White Chapman (FINMGT) of Anderson is controller for O’Dell Oil Co. in Belton.

Chet D. Davis (APLSOC) of Cincinnati, Ohio, is a VISTA worker at Media Bridges.

W. Brian (CE) and Dawn Blackwell (’92 ELED) Drummond are living in Greenville. He’s director of marketing for Metromont Prestress.

Mark David Major (HIST, DESIGN) of Fernandina Beach, Fla., is senior planner of Nassau County. He’s working on a Ph.D. in architecture on the urban morphology of American settlements through the University of London, England.

Tina Melton McCaskill (L&IT) is married and living in West Columbia.

Kristen Ikelter (FINMGT) and Jeffrey P. (’92 PRTM) Meierer of Charleston attended the 2003 North Wales Bluegrass Festival in Great Britain. Their group, Yee-

1992

Amy Ogg Clayton (NURS) of Dayton, Ohio, received certification in high-risk neonatal nursing. She’s the clinical nurse educator for the N.I.C.U. at Miami Valley Hospital.

Kenny G. Garner (BLDSC) of Greer received an MBA from the University of South Carolina. He’s a project manager for Fluor Daniel in Greenville.

Karla Bjontegard (MGT) and David Max (’93 CE) Johns are married and living in Columbia. She’s a training consultant for Companion Medical Services, and he’s a programmer for SCANA.

Brian Scott Johnson (HIST) of Greenville teaches college prep, honors and advanced placement classes at Eastside High School. He’s serving a second term on the history committee of the Society of the Cincinnati in Washington, D.C.

Jennifer Johnson McClain (HIST) of Piedmont is working with the public defender’s office in Anderson.

Reggie M. Phillips (CRE) of Greenville owns a Jersey Mike’s Subs franchise restaurant and is a member of the Greater Greenville Chamber of Commerce.

Gretchen Mindnich Ramey (MKTO) of Wando is a repre-

Racin’ Doug VanWingerden ’89

Mechanical engineering graduate Doug VanWingerden got the perfect birthday gift for a race fan. His fiancée surprised him with a day at the Atlanta Motor Speedway driving school, which included driving this special car, reaching speeds of up to 150 miles per hour.

Friend of the Hunley Robert L. Peeler ’91

Clemson trustee Bob Peeler of Lexington recently visited the H.L. Hunley lab in Charleston to see cooperative work between Clemson and the Hunley Commission. The Hunley, a Civil War submarine and the first submarine to sink a warship, was recovered off the coast of South Carolina.

Clemson’s School of Materials Science and Engineering is participating in the international conservation effort. Peeler serves on the Friends of the Hunley board of directors.
sentative for Southern Living at HOME. For more details, visit her Web site at www.southernlivingathome.com/clemson.

Deborah J. Thomason (EDD V&TED) of Westminster was appointed to the national member services committee of Epsilon Sigma Phi, the Cooperative Extension professionals’ organization. She’s chair of the Alpha Phi Chapter’s professional development committee and an associate professor in family and community studies at the University.

Lance Triplett Towery (FDSC) and Vicki Volsen (FDSC) are married and living in Sumter. He’s an investments broker with AG Edwards, and she’s an office manager.

Brian P. Western (IE, M ’93) of Lowville, N.Y., is a manufacturing engineer for Kraft Foods.

1993

G. Wayne Elmore (EE) and Susan Murphy (ECHED) are married and living in Greenwood. He’s a sales engineer with Eaton Cutler Hammer.

Brian R. (CRE, M ’94 ESE) and Denise Ward (BIOSC) Kistner are living in Florence. He’s an environmental engineer with Roche Carolina Inc., and she’s a registered nurse at McLeod Regional Medical Center’s coronary care unit.

Brett A. Turner (HIST) of Anderson is a public relations account executive with Jackson-Dawson Integrated Marketing Communications.

Paul S. Wright (PRTM, M ’96) is married and living in Buena Vista, Va. He’s department chair of

Parish nursing

Sybil D. Smith M ’92

Nursing alumna Sybil Smith has written Parish Nursing: A Handbook for the New Millennium. Targeted for lay and professional audiences, her book can be used by congregations as they plan to minister to the growing needs of the elderly within and without the congregation.

Parish Nursing is a “how-to” guide in easy-to-understand language specifically about ministries of health for the elderly, the care needs confronting the elderly and the impact of resource allocation.

Smith is an independent consultant for ministries of health and senior adult care. She has taught nursing at Clemson and is former professor of applied gerontology at North Greenville College. She has more than 30 years of experience in community health and has authored numerous articles and book chapters.

Clemson nursing alumnae Karen M. Brown M ’80 and Janet C. Timms ’81, M ’86, on faculty at the University, also contributed to the book.

Kenny J. (MGT) and Lori Hinnant (MKTG) Fuqua of Charlotte, N.C., have formed a real estate team, Fuqua & Fuqua, selling for Helen Adams Realty.

Martin L. Hogg (AQFI&WB) of Gaffney is youth/children’s minister at Grassy Pond Baptist Church.

Parish Nursing: A Handbook for the New Millennium

For more tips on advancing your career, contact:
Tenniel Moody, Director, Alumni Career Services 864-656-2345
Email: acs@L@clemson.edu Web: alumni.clemson.edu

Top 10 Ways to Advance Your Career

1. Identify the work you are good at and enjoy.
2. Expect change. Remember it’s not what happens, but how you respond to it that counts.
3. Demonstrate initiative. Do tasks without being asked.
4. Set short-term and long-term career goals. Do the best you can in the job you have right now, even if it’s not the one you ultimately want.
5. Manage the company’s financial resources as you would your own.
6. Maintain a sense of balance between your career and other important areas of your life.
7. Be willing to admit when you’ve made a mistake, and learn from it.
8. Ask for help when you need it — involve colleagues.
9. Be positive toward all co-workers regardless of personal traits or job level.
10. Use careful timing when you approach your boss with an issue or request.

Career Services

For more tips on advancing your career, contact:
Tenniel Moody, Director, Alumni Career Services 864-656-2345
Email: acs@L@clemson.edu Web: alumni.clemson.edu
physical education and recreation administration at Southern Virginia University and head coach of the men’s and women’s cross country/track and field teams.

1994
Kevin T. Batson (M IM) of Marietta, Ga., is technical sales manager for Business Objects in Atlanta.

Lee M. Bryson (BIOCH) and Crystal White (ELED) are married and living in Seneca. He’s the environmental manager at U.S. Engine Valve-Eaton Corp., and she’s a homemaker.

John Morris Clayton (CRE) of Brandon, Fla., received his Ph.D. from Georgia Tech. He’s working with Hazen and Sawyer P.C., Tampa.

Brian A. Cope (ME) of Melbourne, Fla., is serving in Iraq with the Florida National Guard. Lloyd P. Fiedler (FINMGT) of Marietta, Ga., is a mortgage consultant with HomeBanc Mortgage Corp. in the greater Atlanta area.

Greg W. Fox (M SED-MA) of Greenville is one of six teachers to be named a state finalist for the 2003 Presidential Award for Excellence in Mathematics and Science Teaching. He is a math teacher at Greenville Senior High Academy.

1995
A.G. “Treb” Courie (HIST, M ’01) of Columbia is a captain in the U.S. Army stationed in Kitzingen, Germany.

Scott R. (ACCT) and Teresa Robinson (CE) Crain are living in Greenville. He’s the CFO for C. Dan Joyner Co., and she’s an engineer with the City of Greenville.

Sheldon T. Rhyne (GR COMM) and Heather Yancey (’97 ECHED) are married and living in Charlotte, N.C. He’s employed with Cadmus Communications, and she’s a kindergarten teacher in Fort Mill, S.C.

Jeffery Craig Summers (MICRO) of Fountain Inn graduated from MUSC College of Dental Medicine and completed his residency in orthodontics at the Medical College of Georgia. He’s a partner at Wirthlin and Summers Orthodontics in Greenville.

1996
Gretchen Barry Cuzick (PSYCH) is married and living in Scotts Valley, Calif. She is pursuing a master’s degree in psychology.

Virginia Davis Hayes (ENGL) is married and living in Greenville. She’s a public relations account executive with Erwin-Penland Inc.

Jennifer Livingston Jones (SED-EN) of Anderson completed her master’s degree in library and information science from the University of South Carolina and is a media specialist at Calhoun Elementary School.

Thomas S. Kidd (HIST) of Woodway, Texas, is an assistant professor of history at Baylor University. He received a Ph.D. from Notre Dame.

Jared F. Scarpaci (HIST) is married and living in Danvers, Mass. He’s a high school history teacher and head coach for men’s soccer at Emerson College, Boston.

Kelly Rhodes Spearman (BIOSC) of Alexandria, Va., is the associate director for public policy at the White House Cabinet Affairs Office in Washington, D.C.

Clare L. Sterling (L&IT) of Alpharetta, Ga., is an account executive in marketing sales with Guthrie & Associates in Greenville.

1997
James Brian Cave (PRTM) of New York, N.Y., is a student at Union Theological Seminary.

Meredith A. Love (M ENGL) of Oxford, Ohio, is assistant professor of English at Francis Marion University in Florence.

Emily A. Miller (EDU) of Fairfield, Conn., is a second-grade teacher at the International School of Trieste in Trieste, Italy.

Cheryl Heuer Sellers (MGT) is married and living in Spring, Texas. She’s a human resources specialist with Hewitt Associates in The Woodlands.

Christopher S. Shelnut (PRTM) of Summerville has joined Wachovia Bank NA as financial center manager at Walterboro Main.

1998
Erin Manahan Alkire (L&IT) is married and living in Cincinnati, Ohio.

Brantd Phillips (CE) and Ronnie T. Broughton (ME) are married and living in Indian Trail, N.C. She’s a project engineer with McKim & Creed, and he’s an engineer with Framatome ANP. Both passed their professional engineer exams.

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### Under Southern Skies

**Susan Gaulden M ‘02**

Secondary education-English graduate Susan Gaulden of Moore is the author of the new mystery novel *Under Southern Skies*, published by Alpha Publishing Inc. The story takes place in South Carolina and is currently being put into cinema-script format.

Gaulden is a pastor at Evangel Cathedral in Spartanburg where she oversees the student ministries, creative arts and women’s ministries. Prior to this position, she taught English for 10 years. She also travels and speaks at conferences worldwide, including Latvia, Russia and Nicaragua.

### Frontline

**Anna Prendergast ’00**

Speech and communications alumna Anna Prendergast, an anchorwoman for WKAG-TV in Clarksville, Tenn., was given an extraordinary opportunity last summer. She and a cameraman were invited to travel to Iraq to cover the 101st Airborne Division.

They flew into Kuwait and waited at a camp for several days until a C-130 came to fly them to Mosul, Iraq, where most of the 101st Airborne was stationed. Prendergast spent a month touring Iraq with various troops and even went on night missions to better understand what troops were going through.

She covered city council meetings, the first signs of a real democracy in Iraq, and saw the new Iraqi army being formed. Prendergast also talked to locals about the huge U.S. presence and witnessed firsthand the living conditions for most people there, including the coalition forces.
Masai Aba Dalton (TMGT) is married and living in Rock Hill.

Cheryl Dove (L&IT) and Jonathan D. Dunagin (99 SED-EN) are married and living in Columbia.

Chad Vinson Echols (FORMGT) of Rock Hill works for Williams & Fudge.

Mark Russell Fisk (CHE) is married and living in Spring, Texas. He works as a sub-sea engineer for ExxonMobil.

Mark Joseph Reef (EDUC) of Fairfax, Va., is director of residence life at Marymount University in Arlington.

Jess M. (HIST) and Stephanie Moore (SED) Rigler are living in Indianapolis, Ind. He’s a coordinator of membership services for the National Collegiate Athletic Association, and she’s working for the American Cancer Society.

Meredith S. Vey (ECON) of Miami, Fla., received an MBA from Florida International and is working in marketing.

Jennifer L. Woodall (MGT) of Charleston, S.C. has opened her own stationery and gifts business, Nan’s Notes, featuring party and wedding invitations, stationery and gifts.

Marketing graduate Chris Machado of Atlanta, Ga., a field marketing representative for Sanford North America, recently went on a mobile marketing tour for Sharpie. Last summer and fall, he traveled in a Sharpie H2 HUMMER throughout the Southeast. Along the way he stopped at sporting events, festivals and fairs offering the public a chance to participate in interactive games and even a chance to win an H2 HUMMER.

Alicia D. McKeag (NURS) of Fairbanks, Alaska, is a labor and delivery nurse at Bassett Army Community Hospital in Fort Wainwright.

Kevin J. Mizzell (HIST) of Charleston is the co-director and senior research coordinator of the Anxiety Disorders Program at the Medical University of South Carolina. He received a master’s degree in management.

Jeannette M. Myers (M PHYS, PhD ’03) of Central is assistant professor of astronomy and director of the Dooley Planetarium at Francis Marion University in Florence.

Curt A. Runger (L&IT) of Memphis, Tenn., received a juris doctor’s degree from the University of Memphis.

Lucinda Nan Stallings (ACCT) of Columbia has opened her own business, Nan’s Notes, featuring party and wedding invitations, stationery and gifts.

Meredith Watson (ME) and Neil Albert Jr. (’00 ME) Struby are living in Decatur, Ga. She’s a patent attorney with the Alston and Byrd law firm in Atlanta, and he’s co-owner of Bevill and Struby Construction Co.

Ryan A. (DESIGN) and Shaun Horsman (DESIGN) Yurcaba are living in South Bend, Ind. He’s pursuing a master’s degree in architecture at Notre Dame. They spent five months in Italy studying architecture.

L. Wil Brasington (HIST) of Greenville is a medical sales representative with King Pharmaceuticals.

Molly H. Brenlove (M HRD) of Bridgeville, Pa., is a senior human resources administrator for the marketing agency MARC USA/Pittsburgh.

Jeffrey M. Davis (POSC) of Greensboro, N.C., received a law degree from the UNC-Chapel Hill School of Law and has passed the N.C. Bar Exam. He’s an associate with Hunter, Higgins, Elam & Benjamin PLLC.

Amanda M. Gaither (SP&COMM) of Charleston, a news reporter for WCSC-TV5, was awarded Best Feature Story by the S.C. Broadcasters Association.

Katie M. Roenker (HIST) of Richmond, Va., received a master’s degree in history with a concentration in museum studies from UNC-Greensboro. She works for an exhibit design firm.

Matt C. Caprari (HIST) of Fort Drum, N.Y., is a first lieutenant in the U.S. Army. He is deployed to Afghanistan.

H. Ansley Coker (ELED) of Chapin, is an administrative engineering technician with Engineering Resources Corp.

Laura Allen (TMGT) and Stephen E. Oliver (MKTG) are married and living in Columbia. She’s a vascular technologist for Carolina Diagnostics, and he’s a sales representative for Shealy’s Inc.

Mary J. Anderson (SED-EN) of Summerville was named Rookie Teacher of the Year at her high school and on the district level.

Becky A. Boyle (ELED) of Silver Springs, Md., received the Marian Greenblatt Award, Montgomery County’s first-year excellence in teaching award.

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.

To help raise your class’s giving record, use the enclosed envelope, call (864) 656-5896 or make a secure online gift at www.clemson.edu/supportcu.
Little Tigers

Darrel A. Cook ’78, a son, Colin Ferguson, July 26, 2003.

Emanuel “E.L.” III ’82 and Regina Makapugay ’84 Taylor, a son, Nicholas Emanuel, March 28, 2003.

Linda Lillycrop Gatti ’84, a daughter, Claudia Marie, March 25, 2003.

James W. Moorer ’84, a son, Gabriel Charles, Sept. 19, 2002.


Michalann Greenway ’85, M ’87 and Michael T. ’93 Evatt, a daughter, Madelyn Grace, July 8, 2003.

Bill P. and Kim Everett McCracken ’85, a son, Teague Everett, March 9, 2002.

Margaret Chappell Smolka ’85, twins, Elizabeth Carlisle and William McDonald, April 18, 2003.


Marcy Nancy Reid ’86, a son, Timothy Alexander, July 22, 2003.


Beth Smoley ’87 and Rod L. ’89 Martin, a daughter, Emily Elizabeth, June 25, 2003.


John Robert ’88 and Joy Robertson ’90 Finley, a daughter, Dillon Camille, March 30, 2003.


Brad T. and Stephanie Shell Keaton ’89, a son, Tyler Troy, July 3, 2003.


Christopher D. Sturkie ’89, a daughter, Cierra Elizabeth, May 23, 2003.


Kelly Patterson Bostic ’90, a daughter, Emily Nicole, Aug. 31, 2002.

Toni Coleman Carson ’90, a daughter, Parker Elizabeth, March 6, 2003.

Jennifer Brooks Herden ’90, a son, Nicholas Brooks, June 17, 2003.


Kevin A. ’91 and Candace Meadors ’92 Boatwright, a son, Diego, June 11, 2002.

William Brian ’91 and Dawn Blackwell ’92 Drummond, a daughter, Calhoun Jackson, April 24, 2003.

Deborah Demos Jonas ’91, a daughter, Helena Anne, July 8, 2003.


James B. ’92 and Michelle Shirer ’96 Avent, a daughter, Margaret Ann, Aug. 21, 2003.

Melissa Adcock ’92 and James A. Jr. ’93 Benton, a son, Trevor James, June 30, 2003.

Stacey Padgett ’92, M ’94 and John ’93 Durfee, a son, John Samuel, March 30, 2003.

Kenny G. Garner ’92, a son, Jie Adam, April 11, 2003.

Charles A. ’92 and Rebecca Emery ’94 Goessel, a son, Andrew Charles, May 1, 2003.

Heather Czezczok Hirschman ’92, a daughter, Ashley Faith, July 1, 2003.


Sonda Spitzer Jones ’92, a son, Weslin Gene, Dec. 20, 2002.


Lance T. ’92 and Vicki Volsen ’95 Towery, a son, Michael Brendan, March 28, 2003.
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 □

Send your news by FAX to (864) 656-5004 or by email to sleigh@clemson.edu.
Or tear along perforated lines and mail your news to Clemson World, 114 Daniel Drive, Clemson, SC 29631-1520.
Andrew W. ‘96 and Tracy Dean ‘97 Gaillard, a son, Matthew Dean, July 30, 2003.


J. Rutledge “Cotton” Coleman Sr. ‘33, Pamplico

Little Tigers continued


Jennifer Saylors Erminio ‘98, a son, Jackson Patrick, April 1, 2002.


Betsy Morgan ‘99 and John Oliver ‘02 Clarke, a daughter, Hannah Elizabeth, Feb. 18, 2002.


Paul M. Brooks ‘00, a daughter, Avery Elizabeth, July 15, 2003.

Rick A. Rembis ‘00, a son, Andrew Richard, May 6, 2002.


Jennifer Saylors Erminio ‘98, a son, Jackson Patrick, April 1, 2002.


Betsy Morgan ‘99 and John Oliver ‘02 Clarke, a daughter, Hannah Elizabeth, Feb. 18, 2002.


Paul M. Brooks ‘00, a daughter, Avery Elizabeth, July 15, 2003.

Rick A. Rembis ‘00, a son, Andrew Richard, May 6, 2002.


J. Rutledge “Cotton” Coleman Sr. ‘33, Pamplico

Louis M. Glyph ‘33, Little River

William J. Burton ‘34, Seneca

Farnum M. Gray ‘34, Brunson

W. Howard Mann Sr. ‘34, Arlee, Va.

Charles E. Calhoun ‘36, Clio

John F. Fletcher ‘36, Anderson


Eugene W. Rochester Sr. ‘38, Salem

Joseph H. Guess ‘39, Denmark

Ellerbe P. Johnstone ‘39, Newberry

J. Drake Watson ‘39, Florence

Robert A. Link ‘42, Abbeville

Richard N. Steele ‘42, Fairhaven, Mass.

Arthur M. Klugh Jr. ‘43, Anderson

Fred S. Winstead ‘43, Mullins


Richard R. Baskin ‘48, Bish- oppville

Richard C. Hendrix ‘48, Greenville

William K. Stephens ‘48, Canton, N.C.

James W. Ard ‘49, Hemingway

Robert H. Hammett ‘49, Newberry

C. Gene Carson Jr. ‘50, Spartanburg

George S. McDonald ‘51, Chester

Curtis L. Rye ‘52, Chapin

Kenneth C. McAllister Jr. ‘56, Anderson

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

On Military Appreciation Day, Nov. 15, 2003, fans at the Clemson vs. Duke football game paid tribute to the University's proud military heritage. We remembered the thousands of Clemson men and women who have served America and honored the young alumni making sacrifices today to protect the freedoms we cherish so dearly. Your support through the Clemson Corps Scholarship Endowment is critical to keeping our strong military tradition alive and to helping Clemson ROTC programs be the best they can be. Use the envelope in this magazine, or make a secure online contribution by going to www.clemson.edu/isupportcu. Specify that your gift is for the Clemson Corps.

Meet in exceptional style at the Madren Conference Center. Designed as a professional meeting environment, the Madren Conference Center features 17,000 square feet of outstanding facilities, including a grand ballroom, generous prefunction space, seminar and training rooms, a tiered auditorium, and an executive boardroom that opens to a beautiful terrace.

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Cosmic Clemson research in Nature

The puzzling, energetic cosmic explosions called gamma-ray bursts are finally giving up their secrets. Clemson astrophysicist Dieter Hartmann is co-author of a paper that investigates the effects of one of the century’s brightest bursts. The study appeared in *Nature* (Nov. 13, 2003), one of the nation’s pre-eminent scientific journals.

The study’s findings help support a widely held conclusion that gamma-ray burst phenomena are caused by the formation of a massive black hole inside a collapsing star. The study’s lead author is Jochen Greiner of the Max-Planck-Institut für extraterrestrische Physik in Germany.

Hartmann, who was named Gauss Professor by the Academy of Sciences at Göttingen, Germany, is among a team of nationally renowned astrophysicists at Clemson. The group is led by Donald Clayton, a Fellow of the American Academy of Arts & Sciences. In 2002, his groundbreaking research was selected by the American Astronomical Society as one of the most important astrophysics research papers of the 20th century.

To learn more about astronomy and astrophysics at Clemson, visit the Web at http://photon.phys.clemson.edu.

One Foot on ‘Radio Reader’

National Public Radio’s “Radio Reader,” hosted by Dick Estell, featured Ron Rash’s novel *One Foot in Eden* in December. Rash, who earned a Clemson master’s degree in English in 1979, is the John Parris Chair in Appalachian Studies at Western Carolina University in Cullowhee, N.C.

The novel, set in the mid-20th century in a valley on the edge of Southern Appalachia, won the 2002 Novello Festival Press competition and the 2003 Independent Publisher’s Award. Rash is also the author of three books of poetry, two collections of short stories and a children’s book. He’s won an NEA Poetry Fellowship, a General Electric Younger Writers Award for fiction and many other writing honors.

In Equus

Professor and Extension trails specialist Gene Wood is quoted in *Equus* (July 2003), the national magazine for horse-care information, in the article “Trail Etiquette.”

Wood, of Clemson’s forestry and natural resources department, gives expert advice and common sense for people on a trail ride in an article offering “23 tips for winning friends, influencing people and avoiding conflict on the trails.”

‘Fighting’ bullies

Clemson professor Susan P. Limber has been called on by NPR’s “All Things Considered,” *Washington Post*, CNN.com and other news media for comments on the problem of bullying among children and youth and what can be done about it.

Limber is associate director of Clemson’s Institute on Family and Neighborhood Life and director of its Center for Youth Participation and Human Rights.

She’s currently providing consultation on the development of a $3.4 million public information campaign on bullying prevention, supported by the Health Resources and Services Administration, U.S. Department of Health and Human Services.

The institute’s mission is to generate, share and apply the knowledge needed to strengthen ties between families and communities. Its staff is particularly interested in the everyday experiences of children, youth and adults in neighborhood environments, such as schools, workplaces, religious organizations, civic groups and courts. For more information about the institute, visit the Web at www.clemson.edu/ifnl or call (864) 656-6271.
Family on Hallmark Channel

John R. London III ’75 and his family appeared on the Hallmark Channel in September in its weekly “Adoption” series. The documentary followed the Londons to Russia where they added three Russian children to the six adopted children they already had.

Pictured here at Red Square in Moscow with the Kremlin in the background are, from left, Ivan, Masha and Dasha with London.

At the time, Joyce London, a former teacher, was at home in Madison, Ala., with the family’s other children — Betsy, Sadie, Joshua, Annie, Molly and Samuel. John is retired from the Air Force and now works for NASA at the Marshall Space Flight Center.

Washington Post cover

Washington Post Magazine’s cover story “Into Thin Air” (Oct. 26, 2003), by Michael Dobbs, features Clemson alumnus Major Rudolf Anderson ’48. The in-depth article, described as “an untold story from the most dangerous days in history,” marked the 42nd anniversary of the Cuban Missile Crisis. Anderson was among those few pilots flying dangerous reconnaissance missions to get the information about Russian missiles in Cuba that President John F. Kennedy needed.

In NY Times

Certified financial planner and former Clemson football player Dean Harman ’91 of Houston, Texas, was featured in the New York Times (Nov. 26, 2003) in an article on the cost of college tuition and how families are able to fund the expenses.

The article — “When College Savings Don’t Go the Distance” — covers strategies parents and students can use to offset the effect of escalating higher education costs.
Commitment

Boppin’

Sweethearts Jim and Marcia Barker share a cherry Coke and a little slow dancing during Clemson’s annual Major Gift Club event last fall. Guests bopped the night away during the free-spirited 1950s sock hop in the newly renovated Fike Recreation Center.

Clemson Fund phona-thoners (from left) Steve Naylor, a computer science major from Woodbine, N.J., and Jeremy Underwood, a management major from Rock Hill, try “rat hats” along with Walter T. Cox ’39 at the event. No doubt they learned some Clemson history from the president emeritus and longtime dean of students.

Major Gift Clubs participants (gifters of $1,000 or more annually) sustain the quality of education at Clemson. During the last fiscal year, Clemson’s 1,295 Major Gift Clubs members provided more than $17,335,000 in support for the University. For more information about supporting Clemson, visit the Web at www.clemson.edu/giving or call (864) 656-5896.

Foundation volunteer

Clemson trustee William C. “Bill” Smith Jr. ’82 of Columbia has been named Clemson University Foundation Volunteer of the Year. He played an integral negotiation role in the groundwork for the Clemson University International Center for Automotive Research.

Smith, an administrative management occupational safety and health graduate, is CEO of Holmes Smith Development Inc.

GE’s Project Pipeline

Minority students from across South Carolina will be better prepared to pursue college degrees thanks to a $500,000 grant from the GE Foundation.

The University and the GE Foundation have partnered in a new initiative called Project Pipeline, designed to enable teachers to prepare and motivate minority students in South Carolina to pursue technical degrees in college.

The project brings together the strengths of two outreach efforts, Clemson’s Emerging Scholars and GE’s Close the Gap, to maximize the impact of both in transforming mathematics education in key S.C. schools. The program focuses on math curriculum development, teacher training and targeted student exposure to inquiry-based math materials.

Over the five-year period of the grant, Project Pipeline will directly impact 350 Emerging Scholars and 38 teachers from six high schools. Also, the algebra and K-5 modules developed for the project will be available through regional math and science education support infrastructure, such as the University-based AOP Hub.

The GE Foundation, the philanthropic foundation of the GE Company, invests in improving educational quality and access and strengthening community organizations in GE communities around the world. GE Gas Turbines L.L.C. contributes more than $600,000 annually to Upstate educational efforts, arts programs and community needs.
Solutions to planning puzzles

Meeting all your financial planning and charitable gift planning objectives at once can be difficult. It can sometimes be compared to working a 1,000-piece jigsaw puzzle. Fitting together all those odd-shaped pieces can be difficult, but the resulting picture can be rewarding in many ways.

A flexible “piece” of the puzzle

There are several ways to make charitable gifts while retaining income for yourself and loved ones as well. This “giving for income” is a planning concept offering flexibility, convenience and additional security along with the satisfaction of giving.

Cash is one of the most popular assets used to fund life-income gifts, but it's not the only way and not always the best way. Securities (stocks, bonds, mutual funds, etc.) may be given as well as real estate and other types of property.

You can fulfill your desire to give — and you may also enjoy tax and other financial benefits — while increasing spendable income for yourself and/or others you designate. The benefits to all concerned are important.

The tax and other financial consequences of each plan vary, and the best choice can be made only after careful consideration.

The right combination

All giving-for-income plans provide extra income to the donor as well as an ultimate charitable gift. Such gifts enable us to strengthen our foundation for the future. Giving through a life-income plan may offer just the right combination of benefits to fill gaps in your financial puzzle.

To learn more about life income plans and other ways to include Clemson University in your estate, contact JoVanna King at (800) 699-9153 or (864) 656-0663 or by email at jovanna@clemson.edu.

If you have already named Clemson University or the Clemson University Foundation in your estate plan, please let us know so that we can induct you into the Clemson Legacy Society. This is an honorary circle of alumni and friends who have made a decision to follow Thomas Green Clemson’s example and secure Clemson’s future through their estate plans.
Clemson on a “snowy evening” in 1930

The woods are lovely, dark and deep.
But I have promises to keep ...

— Robert Frost