

CLEMSON WORLD

SPRING
2003

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and
a Plan

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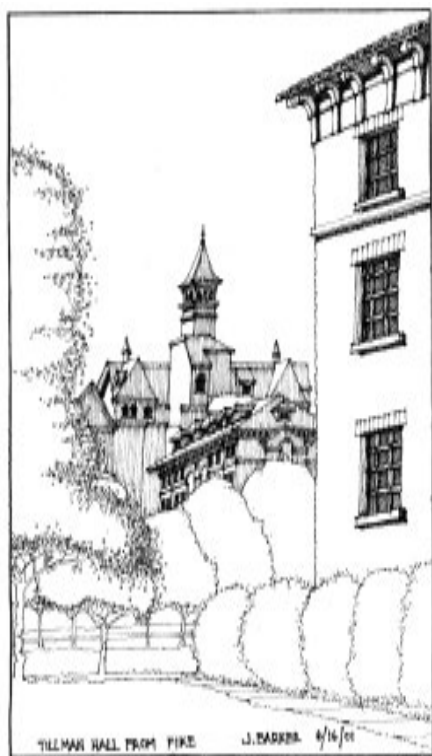
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❖ *With the introduction of this legislation, the economic outlook for South Carolina is suddenly brighter.*

Landmark opportunity for our economy

The state's research universities — Clemson, the University of South Carolina and the Medical University of South Carolina — have a significant opportunity to build South Carolina's economy.

House Speaker David Wilkins of Greenville and Ways and Means Chairman Bobby Harrell of Charleston are leading a coalition to propel South Carolina's three research universities to the forefront of economic development.

In April, they introduced a legislative reform package to change state laws to allow us to increase our research capabilities to focus further on helping grow the state's economy; collaborate and cooperate with each other more effectively; and find ways to increase private funding through grants, patents and private partnerships.

The need is critical. South Carolina's per capita income, which is 81 percent of the national average, has been largely stagnant for about a decade.

This bill will give us the tools we need to acquire the best talent, to work with business and industry, to create new jobs and to play the role major research universities should be playing in our state's economy.

A centerpiece of the legislative reform package is the South Carolina Research Oversight Council, which would be the new governance board for the three universities.

The legislation also authorizes a funding source from which money will be earmarked for specific economic development projects after competitive bid. The Centers of Economic Excellence Board, the Joint Bond Review Committee and the State Budget and Control Board must approve proposed capital projects from this revenue stream.

The approved projects must be matched dollar for dollar by nonstate resources to qualify.

The legislation would also allow private development on university property and give the research universities flexibility to compete for top-tier professors, research assistants and students.

To underscore the urgency of this package, the legislators pointed to recent studies showing South Carolina far behind in economic development:

- The Palmetto Institute study found that South Carolina is not competitive in the knowledge-based economy.
- The Progressive Policy Institute ranked the state 41st in being prepared for the new economy, while Florida was 16th, Georgia 22nd and North Carolina 26th.
- The Jim Self Center on the Future ranked the state well below those states in economic and social well-being.

Clemson's academic plan identifies eight emphasis areas in which the University will focus its efforts and resources. They were chosen because of faculty strength, opportunities for external funding and alignment with state economic development needs.

While all eight areas may eventually include major research centers, three projects have emerged as immediate priorities:

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Clemson World is published quarterly for alumni and friends of Clemson University by the Division of Advancement. Editorial offices are in the Department of Publications and Promotion, Clemson University, 114 Daniel Dr., Clemson, SC 29631-1520 (FAX: 864-656-5004). Copyright© Publications and Promotion, Clemson University. Story ideas and letters are welcome, but publisher assumes no responsibility for return of unsolicited manuscripts or art. Send address changes to Records, 110 Daniel Dr., Clemson, SC 29631-1520 (FAX: 864-656-1692), or call 1-800-313-6517.

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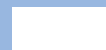
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- an automotive engineering research park in Greenville
- an optical fibers center at the Clemson Research Park in Anderson County
- an advanced materials research project on campus

One of Clemson's Guiding Principles in working through this current budget crisis says, "We will not whine, but we will be aggressive and positive." We believe this legislation is following this Guiding Principle.

With the introduction of this legislation, the economic outlook for South Carolina is suddenly brighter.

Our three research universities generate more than \$300 million in external funding a year, have faculty expertise related to every industry sector and cover all geographic regions. When you combine that horsepower with support from the state and business community, we have all the tools we need to move South Carolina forward.



James F. Barker, FAIA
President



A state legislative reform package will give South Carolina's research universities tools to work with business and industry and to create new jobs that will improve the state's economy. One of Clemson's priorities is the creation of an automotive research center in Greenville, a project that will build on the University's strengths and expertise in engineering. Pictured here are mechanical engineering students Michael Jones (left) and Andy Miller, members of Clemson's Formula SAE (Society of Automotive Engineers) race car team.

World View

Tissue 'printing'

SCIENTISTS AT CLEMSON AND THE MEDICAL UNIVERSITY OF SOUTH CAROLINA ARE using desktop printers to produce three-dimensional living tissue. The work is a step toward printing complex tissues or even entire organs.

"Instead of ink, we're substituting components such as a growth medium and cells that, just like ink, can be directed through the nozzle onto the 'paper' material," says Thomas Boland, an assistant bioengineering professor at Clemson.

Other scientists include Vladimir Mironov, Roger Markwald and Thomas Trusk of MUSC, and Gabor Forgacs of the University of Missouri.

The printers were adapted by washing out the ink cartridges and refilling them with cells or supporting gels. Using a team of students whose backgrounds included electrical engineering, polymer science and bioengineering, Boland's group altered the printer's feed systems and reprogrammed the software that controls the viscosity, electrical resistances and temperature of the printing fluids.

By printing alternate layers of the gel and clumps of cells onto slides, Boland and Mironov have now demonstrated that three-dimensional structures can be built up. The gel is removed when the structure is complete, leaving only the living material. Other labs have printed arrays of DNA and proteins, but this is the first time scientists have printed living cells using ink jets.

"Building the blood supply is the '50-million-dollar question,'" says Boland. He and Mironov hope to print an entire network of arteries, capillaries and veins that nourish organs. Getting the science and technology to the point that it's approved and widely available for use, however, could take up to 15 years.

A much quicker application could harness the technology to develop tissues for rapid drug screening. The work is partly funded by grants from NASA and the S.C. Experimental Program to Stimulate Competitive Research (EPSCoR).

Agrohealth

CLEMSON'S AGRO-medicine Program is a major force in keeping South Carolina healthy. With two part-time physicians and three staff members, the Agromedicine office sends out a monthly newsletter to more than 300 physicians statewide, fields hundreds of calls from people with questions ranging from fire ant bites to mothball poisoning, and travels around the state giving educational lectures.

A partnership between Clemson and the Medical University of South Carolina, Agromedicine has been recognized as a national leader in an innovative approach that links medicine and agriculture to improve the health and safety of agricultural workers and consumers.

For more information about Agromedicine, call (843) 792-2281 or visit the Web at www.musc.edu/oem/ageneral.html. To request a consultation, email caldwest@musc.edu or spellh@musc.edu.

New basketball coach

OLIVER PURNELL, WHO LED DAYTON TO A TOP-FOUR SEED IN THE 2003 NCAA Tournament, is Clemson's new head coach for men's basketball. This past season, Dayton, with an overall 24-6 record and a 14-2 record in the Atlantic 10 Conference, won the Atlantic 10 Tournament.



President Barker, Coach Purnell and Athletic Director Terry Don Phillips

Purnell comes to Clemson with 15 years of Division I head coaching experience at Radford, Old Dominion and Dayton. He also has considerable experience as an assistant coach with USA Basketball. He's one of five USA Basketball coaches in the history of that competition to win four Gold Medals. His student athletes have been successful on and off the court.

He holds a bachelor's degree in health and physical education and a master's in physical education administration, both from Old Dominion. He and his wife, Vicky, have two children, Olivia and Lindsay.

Purnell succeeds Larry Shyatt, who resigned in March. Shyatt served as head coach of the Tigers for the last five years, including this past

season's 15-13 squad, the third straight year the team increased its overall victory total and winning percentage. All five seniors from the team are on track to graduate, and the team posted a GPA of 2.38 for the first semester with five players on the academic honor roll.

'Tiger Rag' in the Top 50

THE LIBRARY OF Congress has named "Tiger Rag" among the first 50 selections to the National Recording Registry. The song, first recorded in 1918 by Original Dixieland Jazz Band, was adopted in 1948 by Clemson's band. For the past 60 years it has been the rallying sound of Clemson spirit.



Rocket science!

CALHOUN HONORS student Meredith Russell of Evans, Ga., a physics major, is the recipient of the nationally competitive Goddard Scholarship for students committed to careers in aero-space science and technology.

She also received the Undergraduate Research Award from the S.C. Space Grant Consortium to perform research on solid-state materials and their possible application as advanced thermoelectric materials in NASA space probes. This summer she will work with the thermoelectric materials group at the NASA Jet Propulsion Laboratory in Pasadena, Calif.

At press time Meredith, along with Clemson students Matt Kerr, a physics major from Orangeburg, and Joe Ziska, a computer engineering major from Dover, Del., learned they had each been awarded the Goldwater Scholarship for Excellence in Science. This marks the first time Clemson has had three winners in one year — more than Stanford, Georgia Tech, Vanderbilt, Cal Tech, UC-Berkeley and Johns Hopkins.

(Look for more on Clemson's Goldwater Scholarship recipients in the summer issue of *Clemson World*.)

Best of E&S

CLEMSON CELEBRATED NATIONAL ENGINEERS WEEK IN FEBRUARY BY INDUCTING these three new members into its Thomas Green Clemson Academy of Distinguished Engineers and Scientists and naming an outstanding young graduate in the College of Engineering and Science.

David M. Bell '69, M '74, PhD '77

Inductee David Bell has built an international reputation for his work in satellite image processing, signal processing, topographic data processing and accuracy improvement. He's a senior scientist at Florida-based Harris Corp. He has mentored many engineers in Harris' Digital Processing Lab and worked with his local Odyssey of the Mind competitions, coaching one team to the World Finals.



Bobby J. Prochaska PhD '78

Inductee Bob Prochaska is the first person to receive a Ph.D. in mathematics at Clemson. He also became the youngest Clemson faculty member to serve as president of the faculty senate. He later joined the operations research department at Milliken & Co. He's held executive positions at Milliken, FabTextile Companies, Valdesse Textiles, Kayser-Roth Corp. and Gerber Children's Wear in addition to heading his own consulting company.



John B. Butt '56

Inductee John Butt is an international expert in reaction engineering. After Clemson, he earned master's and doctoral degrees from Yale, where he joined the faculty. He later became a chemical engineering professor at Northwestern and was the Walter P. Murphy Professor of Chemical Engineering from 1981 until his retirement in 1997. He's earned many honors, including being named a Fellow by the American Institute of Chemical Engineers.



Joy Laskar '85

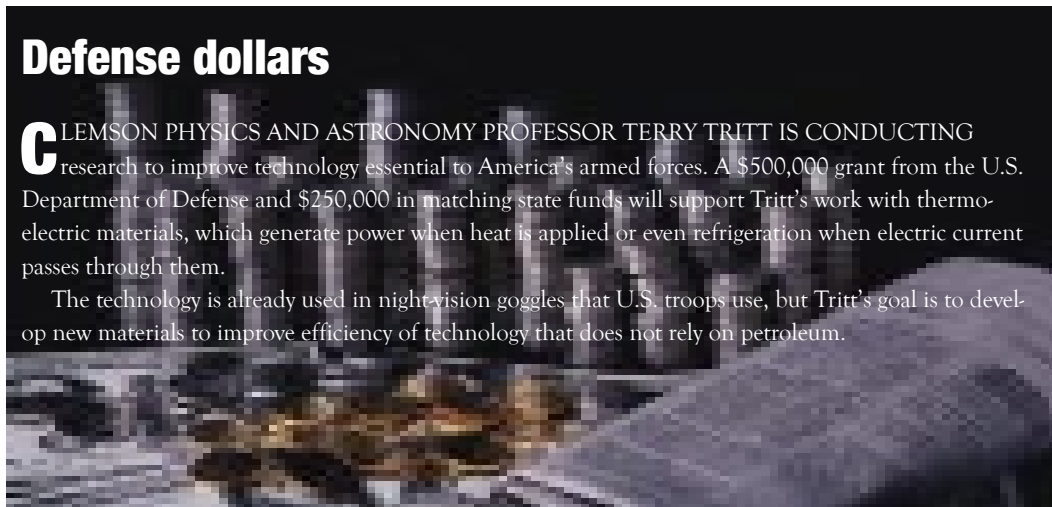
Joy Laskar is the 2003 College of Engineering and Science's Outstanding Young Alumnus. The son of two former Clemson professors, he has established his own reputation as an exemplar professor. Laskar is the Joseph M. Pettit Professor of Electronics at Georgia Tech, where he heads a research group that focuses on integration of high-frequency electronics with opto-electronics for next-generation wireless and optical systems.



Defense dollars

CLEMSON PHYSICS AND ASTRONOMY PROFESSOR TERRY TRITT IS CONDUCTING research to improve technology essential to America's armed forces. A \$500,000 grant from the U.S. Department of Defense and \$250,000 in matching state funds will support Tritt's work with thermoelectric materials, which generate power when heat is applied or even refrigeration when electric current passes through them.

The technology is already used in night-vision goggles that U.S. troops use, but Tritt's goal is to develop new materials to improve efficiency of technology that does not rely on petroleum.



Blame it on the wind

A RECENT STUDY BY WIND RESEARCHERS MAY ALTER THE WAY scientists predict and assess hurricane risk. Clemson wind engineer Tim Reinhold is one of the researchers whose findings question whether the traditional method of measuring surface friction in tropical cyclones is accurate.

Researchers had long theorized that high wind speed makes water surface choppy and rougher, which ultimately saps off energy from the wind, thus slowing it down.

But the new study found the opposite. Once winds exceed hurricane force of 35 meters per second (80 miles per hour), high winds actually begin to flatten the ocean surface. The smoother surface prevents the wind speed from decreasing as much as once thought.

"Momentum transfer between air and sea is critical in the development of tropical cyclones, and knowledge of the forces at work in these storms is vital to engineers building hurricane-resistant structures," says Reinhold. "The measurements we analyzed were relevant for open ocean conditions. Now we need to see if the same results apply in shallow water near the coast."

The study and findings team includes co-authors Reinhold and Peter Vickery of the University of Western Ontario, and lead author Mark D. Powell, with the National Oceanic and Atmospheric Administration, an atmospheric scientist in the Atlantic Oceanographic and Meteorological Laboratory's Hurricane Research Division.

Safe drinking water

ACCLAIMED SCIENTIST ALAN Elzerman, chair of Clemson's environmental engineering and science department, has been appointed to a task force of the Environmental Protection Agency's National Drinking Water Advisory Council. The group of 21 specialists from universities, public utilities, government agencies and corporations advises the EPA on the nation's drinking water supply.

Class of '39 honor

Biological sciences professor A.P. "Hap" Wheeler, pictured with his wife, Carolyn, is the latest recipient of the Class of 1939 Award for Excellence. Wheeler was chosen by his faculty peers for representing the highest achievement of service to the University, the student body and the larger community.

Currently, his research is focused on understanding the mechanisms of mineralization in calcifying organisms. He holds the Presidential Green Chemistry Award from the U.S. Environmental Protection Agency for the development of biodegradable polymers.

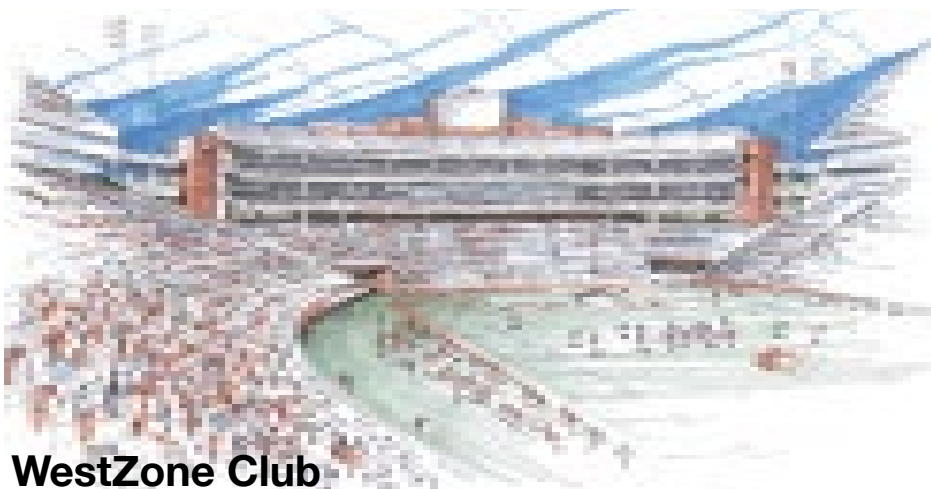


Top 100

CLEMSON HAS BEEN NAMED ONE OF THE TOP 100 U.S. Colleges and Universities for Entrepreneurs in the April 2003 issue of *Entrepreneur* magazine.

More than 700 entrepreneurship programs were researched for the study. Fifty regional institutions and 50 national institutions make up the list. Clemson appears in the list of top-50 regionally recognized academic programs in the country. The magazine's survey also found that Clemson placed third in a ranking of best regional schools according to alumni.

The focus of Clemson's entrepreneurial education is the Spiro Center for Entrepreneurial Leadership. Caron St. John, director of the center, says, "We're particularly pleased that our alumni supported our programs so strongly."



WestZone Club

THANKS TO THE UNIVERSITY'S NEW, EXCITING WEST END ZONE project, the face of Death Valley is changing. The project will create a dramatic door to Memorial Stadium while consolidating the football program.

It will connect the North and South concourses and offer amenity seating. The project includes something for Tiger fans of all ages including a family fun zone and a University/football museum.

For more information about the project or to learn how to become a club member, go to the University's official athletic Web site at www.clemson.com and click on "WestZone Club."

One World

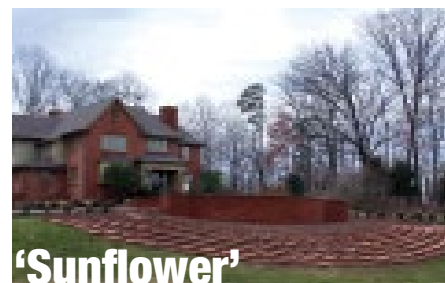
Bowman Field became a Field of Flags as part of Clemson's annual One World Week, a series of events in April to promote tolerance and acceptance of diversity. More than 11,000 colored flags were planted on Bowman with each flag representing a victim of hate crime reported in the United States last year.

This year's event featured former neo-Nazi skinhead T.J. Leyden, now an anti-hate-crime advocate. He spoke on the lifestyle of hate groups, why he turned away and how others can

New summer camp

Clemson University's Youth Learning Institute currently operates several exciting camping programs throughout South Carolina including Camp Sewee, Camp Wildlife and 4-H Camp. The institute is planning a new summer camp experience for the summer of 2004 that is fun, academic-oriented and teaches life skills.

Your input is wanted and needed through a brief online survey. With your response, you automatically earn a coupon good for 10 percent off any Youth Learning Institute summer camp program, and your name will be put into a drawing to win a free week of camp for your child. Just go to the Web at www.clemson.edu/yli/survey and complete the survey online.



'Sunflower'

WITH THE GREAT OUTDOORS as her studio, Mexican artist Yolanda Gutierrez added the latest work to the S.C. Botanical Garden's internationally acclaimed earth-based sculpture program. The artist, with help from students, faculty and community, created "The Devotion of the Sunflower" in front of the Fran Hanson Discovery Center.

The S.C. Botanical Garden on the Clemson campus encompasses 295 acres of gardens, streams and woodlands, historical features and earth-based sculpture. It also includes a discovery center, the Bob Campbell Geology Museum, the Betsy Campbell Carriage House Coffee & Gift Shop and other features. For more information, call (864) 656-6205 or visit the Web at www.clemson.edu/scbg.

The winners are ...

WHEN IT COMES TO TELLING CLEMSON WORLD READERS about the awards and accomplishments of our faculty, we can cover only the tip of the dais. Here are some of the more recent awards collected by Clemson faculty.

President Jim Barker was named to *Greenville Magazine's* list of the top-50 most influential people in the area. He also received the Buck Mickel Award for Business and Community Leadership by the Greater Greenville Chamber of Commerce.

The National Institutes of Health has recognized chemistry professor John Huffman as one of the nation's outstanding scientists.

Clemson's Building Family Strengths team was named a national winner for Excellence in Teamwork by the National Association of Extension 4-H Agents.

Construction science and management professor Dennis Bausman, Alumni Master Teacher, has been named the Associated Schools in Construction's Outstanding Educator of the Year.

Chalmers Butler, Alumni Distinguished Professor in the Holcombe Department of Electrical and Computer Engineering, is recipient of the 2003 Chen-To Tai Distinguished Educator Award by IEEE's Antennas and Propagation Society.

Extension economist Hal Harris received the Lifetime Achievement Award at the Southern Agricultural Economics Association.

Mechanical engineering professor John Wagner was chosen as one of the nine outstanding engineering educators to participate in the Society of Automotive Engineers' 2003 Ralph R. Teetor Educational Award Program.

The S.C. Nursery Association named Clemson horticulture professor and department chair Ted Whitwell Horticulturist of the Year.

Bruce Yandle, Alumni Distinguished Professor of Economics Emeritus, received the Distinguished Scholar Award of the Association of Private Enterprise Education.

History professor Richard Saunders was selected by the Railroad & Locomotive Historical Society to receive the George W. and Constance M. Hilton Award for his book on American railroads.

English professor Lee Morrissey has received the 2002-2003 Excellence in Teaching Award from Clemson's student government, co-sponsored by the Fluor Corp.

Clemson's Center for Community Growth and Change received the Outstanding Planning Project within a Multi-jurisdictional Area award from the S.C. chapter of the American Planning Association for its part in the Reedy River master plan.

Tom Keinath, dean of the College of Engineering and Science, received the Founder's Award from the Association of Environmental Engineering and Science Professors.

Francis McGuire, Alumni Distinguished Professor in parks, recreation and tourism management, has been named Fellow by the Association for Gerontology in Higher Education.



National champs!

CLEMSON'S PERSHING RIFLES, COMPANY C-4, is once again the best in the nation.

At the 2003 convention of the National Society of Pershing Rifles in Toledo, Ohio, C-4 competed against 18 other schools from across the country. It placed first in exhibit and second in basic, amassing enough points to earn the National Championship Trophy for the second time in four years.

Pictured from left are Chad Morehead, Kevin Diamond, Bob Preston, Casey Manning, Neil Penttila and Alex Hooper. Members not pictured who also competed include Craig Zagorski, Melissa Mateo, Rivers Plowden, Chris Sojourner, Andrew Smith, Matthew Jones and Ian Funderburk.

Current members are seeking historical information from alumni. If you were a member during your Clemson days, please contact Company C-4 Pershing Rifles at 2155 University Station, Clemson, SC 29632, email prshrf@clemson.edu or call (864) 656-3107 and ask for Pershing Rifles adviser.



Sacred brick

Hardin Hall, the oldest academic building on campus, has been fully restored and reopened for learning. The grand reopening ceremony was in March 2003.

The historical treasure underwent two restoration additions giving it a three-part architecture and a claim to three different centuries. The oldest part was built in 1890, the second in 1900, and the final restoration was completed in 2002.

"As a result, the facade contains brick from three centuries, yet the completed restoration brings these eras together into a unified whole," says President Jim Barker.

Fittingly, it's now home to Clemson's history, geography, philosophy and religion departments.



The Thomas Green Clemson Legacy

THOMAS GREEN CLEMSON STARTED SOMETHING YEARS AGO.

THE UNIVERSITY'S FOUNDER BEGAN WITH A BELIEF IN EDUCATION AND A DESIRE TO BUILD A LIFE FOR PEOPLE IN SOUTH CAROLINA. HE FOUND A WAY TO DO JUST THAT WITH A PEN AND A

By making a provision in his now famous will for a "high seminary of learning," improved the lives of many generations in this state and far beyond.

In the post-Civil War days of 1865, Clemson looked upon a South that lay in economic aloud what could be done. Fortunately for South Carolina, Clemson was Nov. 6, 1886, he put that vision on paper as he penned his last will and testament in the quiet of his library at Fort Hill.

Clemson's death in 1888 set in motion a series of events that marked the start of a new era in higher education in South Carolina. Through his carefully planned will, he left most of his estate to establish a college that would teach scientific agriculture and the mechanical arts. He bequeathed the Fort Hill plantation and a large sum from his personal assets for its establishment.

Clemson made his greatest historical contribution when his life became intertwined with the destiny of educational and economic development in the state. He believed in education as the key to the state's economic well-being and that South Carolinians deserved a high quality of education.

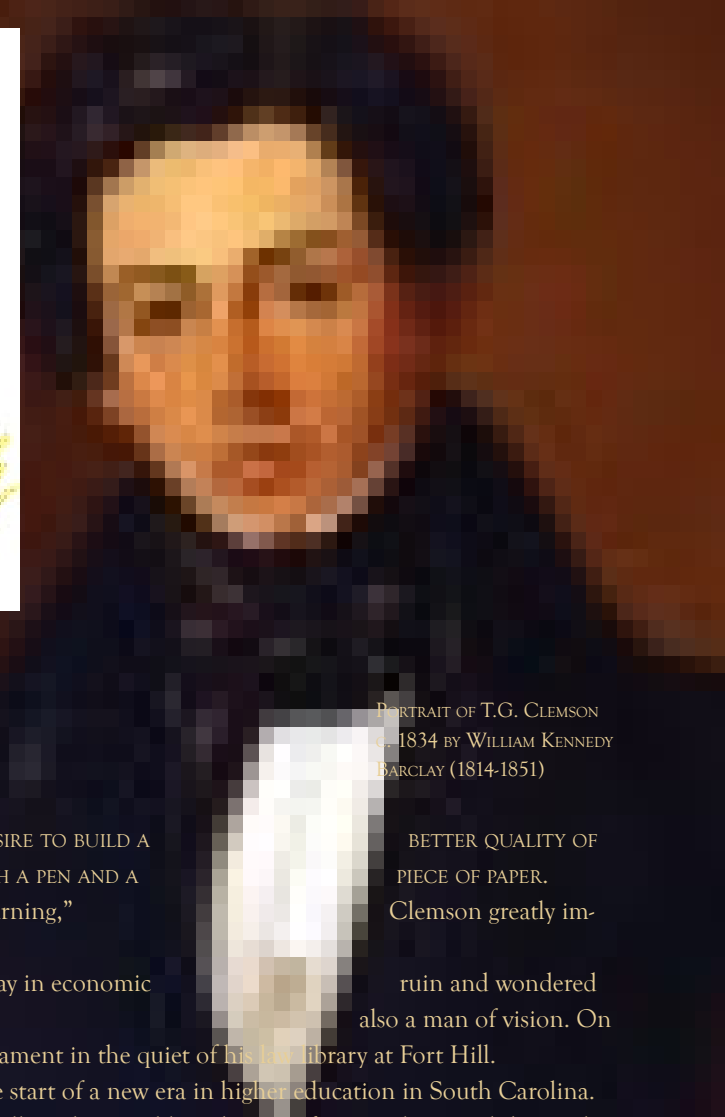
His legacy is that of keen foresight and practical philanthropy. Alumni and friends who share the founder's vision are continuing his legacy by including the University in their own wills or through other forms of planned gifts.

With pen and paper and a powerful vision, the University was born. With similar actions from alumni and friends, it continues to make a huge difference in the state's economic health and the lives of countless people.

In honor of Clemson's will and in appreciation of alumni and friends who make provisions in their own wills to support the University, the Clemson University Foundation has formed the Clemson Legacy society. To learn more about the society and how to make a bequest gift, contact JoVanna King, Planned Giving, 110 Daniel



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PORTRAIT OF T.G. CLEMSON
c. 1834 BY WILLIAM KENNEDY
BARCLAY (1814-1851)

BETTER QUALITY OF
PIECE OF PAPER.

Clemson greatly im-

ruin and wondered
also a man of vision. On



Heart of the University

by Liz Newall
Photographs by Patrick Wright

Before there was a Clemson University, before there was the dream of a “high seminary” of learning, as its founder would pen in his famous will, there was a home called Fort Hill.

Once the home of legendary S.C. statesman John C. Calhoun, and then University founder Thomas Green Clemson, the house now sits at the heart of the Clemson campus.

Humble beginning

Originally, the Fort Hill dwelling was a four-room cottage built in 1803 by Presbyterian minister James McElhenny. In 1825, Calhoun acquired the house and 1,100 acres of land around it. He greatly enlarged the structure for his own family and lived there until his death. The house and property eventually passed on to his daughter Anna Maria Calhoun Clemson, and the Clemsons lived there from 1872 until their deaths.

Clemson inherited the property from his wife and later willed it to South Carolina for a college. It was his intention that such a college would teach scientific practices in agriculture in an effort to bring the state out of post-Civil War poverty.

Clemson saw the potential of higher education on the economic impact of the state long before many of its legislators did. His legacy has proved the accuracy of his vision.

In his 1886 will, which allowed for the establishment of the University, Clemson also included instructions about the house itself. He wrote: “It is my desire that the dwelling house on Fort Hill shall never be torn down or altered but shall be kept in repair, with all articles of furniture and vesture which I hereinafter give for that purpose, and shall always be open for inspection of visitors.”

Happy Bicentennial!

On this 200th anniversary of the building of Fort Hill, the University is making sure that the National Historic Landmark is indeed accurately restored and carefully preserved for both the present and future.

For many years, the University has maintained Fort Hill’s upkeep and operated it as a museum through state funds and donations. No small task considering that the structure as Clemson left it is a Greek Revival home with 14 fireplaces, eight bedrooms, three dressing rooms, a main parlor, a formal dining room, family room and basement. It also includes broad piazzas on the north, east and south entrances, a separate kitchen and an office.

Until recently, the house had undergone no major renovations since the 1930s although plans, research, reports and hopes of renovation have abounded for the last 15 years. In the late 1990s, with some financial support through donations, grants and legislative funds, another renovation effort began.

“We’ve had continuous planning toward the goal of major restoration with various consultants and reports for more than a dozen years,” says Will Hiott, Fort Hill director and curator. “We were building the case for the need of financial support.”

From the ground up

Preliminary work began in 1997 with a Historic American Building Survey documentation of Fort Hill. A project architect, several students and a photographer spent the summer measuring, drawing and photographing Fort Hill.



Above: Will Hiott, Fort Hill director, curator and major force behind the home’s restoration; top photo: University founder T.G. Clemson in front of Fort Hill, c. 1876.

The team produced 28 sheets of drawings and 150 large format photographic views of Fort Hill that served as baseline documentation of the property prior to the planned restoration project. It included all of the remains of Calhoun's former plantation, including the house, kitchen, law office, springhouse and landscape.

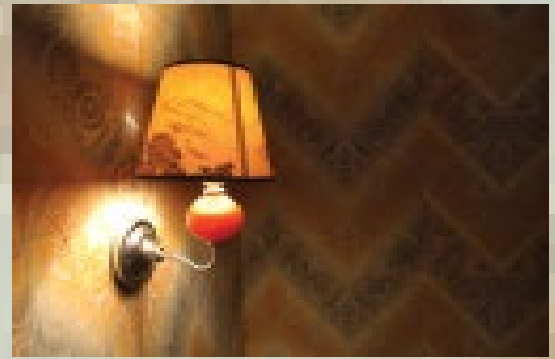
The documentation project was funded by Clemson's Class of 1947 whose donations matched a grant from the S.C. Department of Archives & History's State Historic Preservation Office.

Also in 1997, Fort Hill renovation got a huge boost when the S.C. General Assembly appropriated \$1.2 million for repairs and restoration work.

After the development of a comprehensive master plan based on historic research and investigation, restoration began with weatherizing of the building envelope. The first phase included lead-paint abatement, repainting, installation of a new cypress wood shingle roof, new copper gutters and downspouts, window and glass restoration, shutter repairs and reproductions, and stucco restoration to chimneys.

The first phase included structural stabilization and the installation of climate-control, upgraded fire suppression and electrical systems. It also included the restoration of Calhoun's office thanks to a gift from Archie '49 and Caroline Dargan in memory of George Edwin Dargan.

The second phase of restoration, made possible by an anonymous donation of \$500,000 for restoration and maintenance, focused on the inside of the home. It included painting and plaster repair and the reproduction of missing architectural features such as doors. It also included the painstaking reproduction of wall coverings.



Attention to detail

The wallpaper in Fort Hill is an art collection itself. To replicate the originals, experts conserved fragments and sent them to specialists to reproduce.

The patterns are colorful and varied. For example the parlor's paper is a blue stripe with a border of tobacco and cotton blossoms. The hallways are decorated with a small boutonnière and vine pattern; one bedroom is papered in a Japanese figurine print, while another is in a blue pinwheel print with a floral border.

Hiott and his team also searched for a wallpaper installer who hangs wallpaper on stretched muslin canvas and uses wheat paste, the traditional method for plank walls as in Fort Hill.

Their search brought them to a wallpaper group whose craftsmen have papered the White House Blue Room, Andrew Jackson's Hermitage and other historical homes.

In addition to attention to wallpaper and paint, the second phase also included the study of such minutia as tack holes for indications of draperies and carpeting on the floors and stair treads. Such information will be helpful when future funds allow floor coverings, window treatments and other finishing details.

Fort Hill Collection

A "Save America's Treasures" federal grant is helping to fund the third stage of Fort Hill's restoration and preservation. This phase will address some of the most pressing conservation needs of furniture, paintings, books and other artifacts.

The federal grant to the National Park Service and administered by the Institute of Museum and Library Services is one of 80 grants in the nation. It will bring in specialists for analysis and conservation of the Fort Hill Collection over the next year.

The collection, which has been designated a national treasure itself, includes a Windsor chair once owned by George Washington, a chair and footstool given to Clemson by King Leopold I of Belgium, a sideboard given to Calhoun by Henry Clay, paintings and many other historical artifacts.

The \$73,000 grant is being matched with funds from the Clemson University Foundation, funds from an existing state project to restore Fort Hill and in-kind gifts.

Open house

Clemson's historical centerpiece reopened during the University's celebration of Fort Hill's bicentennial on March 31. It's now freshly restored and ready for visitors. Fort Hill also has additional visitor parking spaces. So if you never visited the home of John C. Calhoun and Thomas Green Clemson while you were a student, or even if you did, come back home and see where the University began.

Visiting hours for Fort Hill are Monday-Saturday, 10 a.m.-noon and 1-4:30 p.m., and on Sunday, 2-4:30 p.m. For more information about Clemson's Historic Properties, call 864-656-2475, email hiottw@clemson.edu or go to www.clemson.edu/welcome/history/forthill.htm on the Web.

Fort Hill Facts

- ✧ The original four-room structure was built in 1803 by Presbyterian minister James McElhenny, who served the congregation at the nearby Old Stone Church. He called the house Clergy Hall.
- ✧ John C. Calhoun moved to the house and surrounding land in 1825. He added onto the structure and renamed it Fort Hill in honor of Fort Rutledge built in the area in 1776. He lived with his wife and family there until his death on March 31, 1850.
- ✧ The wedding of Anna Maria Calhoun and Thomas Green Clemson took place in the parlor of Fort Hill in 1838.
- ✧ Clemson, the University's founder, lived at Fort Hill with his wife and family from 1872 to 1888.
- ✧ Willed by Clemson to the state of South Carolina along with surrounding land for a college, the house was intended as a memorial to Calhoun — in Clemson's words, "the illustrious man who spent his life in the public service of his country and who dignified a State which so long trusted and honored him."
- ✧ By willing the house to the state, Clemson created one of the country's first historic house museums.
- ✧ Fort Hill was designated a National Historic Landmark in 1960, on the same day as Monticello and Mount Vernon. The status was based on the national stature of Calhoun and Clemson. Calhoun served as vice president twice, secretary of war, secretary of state, member of the House of Representatives and, at the time of his death in 1850, as U.S. senator. Clemson was a diplomat to Belgium and essentially the first acting director of the Department of Agriculture.*

To help continue the restoration and preservation of Fort Hill, contact the Clemson Fund at 110 Daniel Drive, Clemson, S.C. 29631-1520 or call (864) 656-5896.

Back home

Architect Ellen Pratt Harris '81 loves a good mystery, especially when it comes to historical buildings. She's made a career of preserving and restoring structures with rich stories to tell. Recently, Harris came home to Clemson for the restoration of Fort Hill, home to John C. Calhoun and then to Thomas G. Clemson.

Harris first came to Clemson in 1977 to study design. After earning her degree, she enrolled in graduate school at Clemson and spent a semester in Genoa, Italy.

Because she wanted to concentrate on historical architecture, she finished her master's degree at Ohio State.

Over the next 10 years, she worked for various firms in Atlanta, Ga., and Washington, D.C., specializing in historic preservation projects.

"I especially enjoy the investigative aspect of historic preservation projects," says Harris. "Conducting background research of historic documents and investigating existing conditions to determine how to best restore buildings are fascinating."

Ellen and her husband, Doug, also an architect, now have the firm Harris Architects in Brevard, N.C., where their work includes residential, commercial, religious and historic preservation projects.

"Fort Hill has been a very important project over the past five years for our firm and for me personally," says Harris, who lived in the "shoeboxes" during her four undergraduate years at Clemson.

She recalls walking past Fort Hill several times a day as an undergraduate until she ventured inside as part of an architectural history class. Fortunately, two decades later, she returned to campus and spent countless hours helping restore the home that represents the heart of the University.

In addition to Harris Architects, the Fort Hill restoration team for phases I and II includes: Landscape Architect — The Jaeger Company; Structural Engineering — Weems/Doar Engineers Inc. and DCF Engineering Inc.; MEP Engineering — Landmark Facilities Group; Architectural Conservation — George T. Fore & Associates; Historic Interiors — Volz & Associates; Wallpaper Conservator — Susan Nash, AIC; General Contractor — The Flagler Company, now Manhattan Construction, the Flagler Division.

Restoration efforts have truly been a national effort involving craftsmen and experts from across the country including California, Connecticut, Georgia, West Virginia, Tennessee and Texas.



by Debbie Dunning

Photographs by Dave Lewis

MEET FIVE CLEMSON
ALUMNI WHO HAVE
PURSUED THEIR CA-
REERS, SERVED THEIR
COMMUNITIES AND
SUPPORTED THE
UNIVERSITY WITH
EXTRAORDINARY
ENERGY, VISION AND
DEDICATION.
TO HONOR THEIR
ACCOMPLISHMENTS,
THE CLEMSON
ALUMNI ASSOCIATION
HAS RECOGNIZED
THEM WITH THE
2003 DISTINGUISHED
SERVICE AWARD.



ALVIN NELSON BERRY '65

"Service Above Self" is the motto that has driven Al Berry's life-long commitment to education and community.

The Saluda native graduated from Clemson in 1965 with a bachelor's degree in agricultural education and began teaching and coaching at Lower Richland High School. In 1986, Berry was named assistant superintendent for school planning and operations for Lexington School District One, a position from which he retired in 1994.

While building his career in public education, Berry earned an M.Ed. degree from the University of South Carolina and

established a private business, Al Berry Builders. Since 1994, he has served as principal and president of The Educational Group Inc., an educational consulting company.

Known for his "contagious Clemson spirit," he served on the University's Board of Visitors from 1996 to 2000 and as chairman during 2000-01. He also has served as an alumni district director and IPTAY representative. A life donor of IPTAY, he and his wife, Evelyn, recently endowed two scholarships for Clemson students in their area.

Berry has held leadership positions in the Lexington Chamber of Commerce, the Lexington New Life Committee and the Lexington Business and Industry Council. He's a 29-year member of the Rotary Club and a three-time Rotary Foundation Paul Harris Fellow. He's founder and charter president of the Rotary Club of Chapin Sunrise and a Rotary Foundation Benefactor.

The Berrys have five children — Amy B. Tapp, Lynn B. Swygert, Nelson Berry '91, Ken Berry '92 and Brian Berry '97.

CHARLES WATES BUSSEY JR. '57

Charlie Bussey first made his mark at Clemson on the gridiron, quarterbacking the Tigers to the 1956 conference championship and the 1957 Orange Bowl as team captain. He received a bachelor's degree in textile manufacturing from Clemson in 1957 and began a career as an instructor-pilot in the U.S. Air Force.

After service, he completed the Harvard Business School Program for Management Development. He held senior management positions at

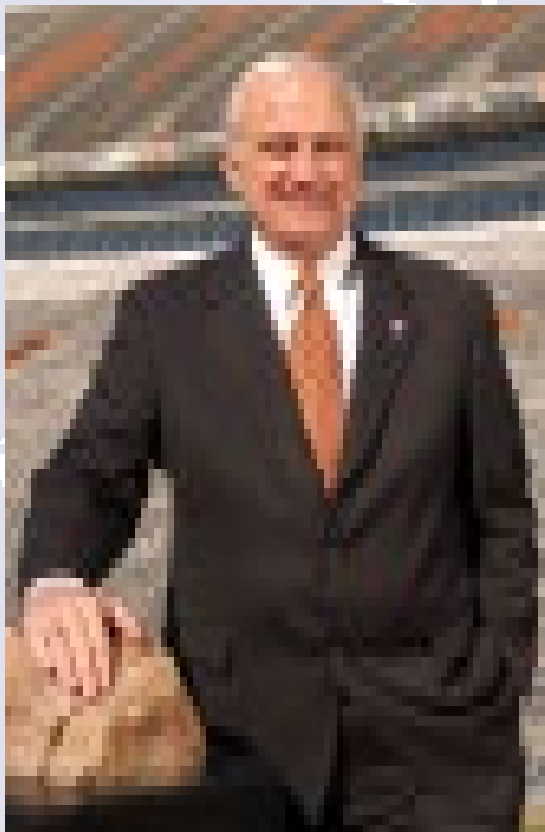
Laurens Glass Co. and Palmetto Chemicals Inc. and was employed at Louis P. Batson Co. for 10 years. He also served as athletic director at Louisiana Tech University from 1980 to 1983.

Now retired and living in Clemson, Bussey demonstrates his lifelong leadership in getting things done. His success as a businessman led to his being tapped for the Commission on the Future of Clemson and the University's Board of Visitors. A former member of the Alumni National Council, he has worked on development efforts including the Campaign for the Robert Cook Edwards Endowment for Excellence in Science and Technology and the Class of 1957 Golden Anniversary project. He's on the Clemson Corps Board of Directors and is a member of the Clemson University Athletic Hall of Fame.

Bussey serves on the IPTAY Board of Directors as a life member and was IPTAY president in 1980. As charter president of the Tiger Lettermen's Association and its coordinator since 1998, Bussey administers the selection and induction of athletes into the Clemson University Athletic Hall of Fame.

Bussey serves the community through the Rotary Club, YMCA, S.C. Athletic Hall of Fame, Carolina/Georgia Blood Center and Meals on Wheels. He also has served on Winthrop University's Board of Trustees and Board of Visitors.

Bussey and his wife, Joyce, have three daughters — Pamela B. Murray '81, Laurie B. McNair '82 and Jennifer B. Banks '86.



BENJAMIN THOMAS ROOK '68, M '74

Architect Ben Rook is recognized as a national leader in redefining the role of the architect in the developmental process through the design of innovative public-private funding partnerships.

He earned a bachelor's degree in architecture from Clemson in 1968 and a master's in 1974. He holds a Master of Urban Design and Real Estate Development degree from Harvard University Graduate School of Design.

After working at Clemson as assistant campus planner, Rook joined Odell Associates, one of the nation's largest architectural firms. During his 27-year career with Odell, Rook served as principal-in-charge on numerous corporate headquarters, academic research centers and medical campuses. In 2001, he retired from Odell as chairman and CEO and established Design Strategies in Greenville. He's a Fellow of the American Institute of Architects and a 2000 Clemson Alumni Fellow.

Rook has been a member of the Clemson Advancement Foundation for Design + Building since 1976, serving two terms as president. He was instrumental in its reorganization to encompass Clemson's planning, landscape, construction science and art programs. He's also served on the Clemson University Foundation Board of Directors, the Commission on the Future of Clemson and the President's Advisory Council. He's a 30-year IPTAY donor.

Through Rook's leadership, the Alliance for a Better Charlotte and the Greater Greenville Forum have united local governments, business and industry leaders, and nonprofit organizations to coordinate economic development in their respective cities. He also serves on 18 local, regional and national boards, commissions and organizations.

Rook and his wife, Becca '75, have two children — Kelly and Jennifer.



DAVID HORTON WILKINS '68

Clemson has a dedicated advocate in the state Legislature. David Wilkins, a champion for Clemson, keeps the University in the forefront of the legislative agenda. A remarkable statesman and consensus builder, he represents the finest qualities gained from his Clemson experience.

The Greenville native attended Clemson on a full athletic scholarship, serving as captain of the tennis team in 1967 and winning ACC Championships in 1966 and 1967. After earning a bachelor's degree in history in 1968, he earned a J.D. at the University of South Carolina School of Law in 1971. He served in the U.S. Army and Army Reserve until 1975.

Wilkins has served as speaker of the S.C. House of Representatives since December 1994. He was the first Republican-elected speaker of any state legislative body in the South since Reconstruction. He began his legislative career in 1981, serving six years as chairman of the Judiciary Committee and two years as speaker pro tem.

Wilkins was the first recipient of the David Eckstrom Leadership Award and the Terry Haskins' Memorial Award. He received the 2001 Distinguished Service Award from the S.C. Association of Counties, the 2000 Palmetto Leadership Award by the S.C. Policy Council and the 2000 Legislator of the Year by the S.C. Realtors Association. He's been named Outstanding Legislator of the Year by a variety of organizations.

He's past president of the National Speakers' Association and past chairman of the Southern Legislative Conference. In 2002, President Bush appointed him to the Board of Visitors of the U.S. Military Academy at West Point.

Described as a "fair and visionary political leader" and a "man of impeccable character and integrity," Wilkins helps place Clemson in a legislative position to become a top-20 public university. These same qualities are evident in his service to the Clemson Alumni Association and as a former member of the University's Board of Visitors.

Wilkins and his wife, Susan, have two sons — James '00 and Robert.



HUGHEY ALLEN WOODLE JR. '51

The traits of a Clemson military education — honor, leadership, integrity and responsibility — are engraved in the steps of the Military Heritage Plaza. They also describe Hugh Woodle.

Woodle, who grew up in Clemson, earned a bachelor's degree in chemical engineering in 1951 and served two years in the U.S. Army. Following the service, he earned master's and doctoral degrees in chemical engineering at Virginia Tech.

Woodle dedicated his 36-year career to DuPont deNemours Co., working in New Jersey, Tennessee and Virginia. He was involved in the manufacturing of innovative fibers and packaging film products and was an operating unit manager at DuPont's Spruance site at Richmond upon his retirement in 1990.

To perpetuate Clemson's proud military heritage, Woodle has helped raise more than \$590,000 as fund-raising chair for the Military Heritage Plaza and \$31,000 for the Clemson Corps ROTC scholarship program. He served as assistant fund-raising chair for the Class of 1951 Golden Anniversary project, which collected almost \$5 million for academic support. A member of the Benjamin Ryan Tillman Society

and the Benefactors of 1889, Woodle, with his sister Violet Woodle Washington, established trusts supporting the Clemson Corps ROTC Grant-in-Aid program and scholarships for engineering and agriculture majors.

As a Cessna 120 pilot and member of the Experimental Aircraft Association, he's been a frequent flyer to Clemson to participate in the Senior Platoon alumni exhibition drill team. He's also active in the Richmond, Va.,



Clemson Club and IPTAY.

As a director with the Chesterfield County/Colonial Heights Crime Solvers program, Woodle has made Virginia schools and communities safer. As a member of Hands Across the Lake, he's worked on environmental and zoning concerns.

Woodle and his wife, Sue, have two children — Bryant Woodle and Ann W. Barrar.*



Curtain Calling

by Ross Norton

Mark Charney (center)
with Clemson theater
students

The John F. Kennedy Center for the Performing Arts in Washington, D.C., recently honored Clemson professor Mark Charney with a Bronze Medallion for his years of service. Here's why.

Forgive Mark Charney if he seems sleepy. It's Friday, and he's going on 10 hours of sleep – for the week.

He's on the road with the Kennedy Center American College Theater Festival (KCACTF) where he dedicates hundreds of hours to the theater and its related craft.

Charney, an English professor and the department's director of undergraduate studies, is also a family man with few hours to spare. He's in his Clemson office by 3 a.m. most days unless he's on the road with the college theater festival.

The festival is an eight-region national project of the John F. Kennedy Center for the Performing Arts. For eight consecutive weeks at the beginning of the year, each region hosts a festival. Top student performers advance in April to the national festival at the Kennedy Center in Washington, D.C.

Charney is director of Region IV, which covers 10 states along with the Virgin Islands and Puerto Rico. This year's Region IV festival, which Charney planned and hosted, took place at Savannah College of Art and Design and attracted more than 1,000 participants – including 30 students from Clemson.

"The festival probably provides the most unique opportunity that any field provides for undergraduates anywhere," says Charney. "It offers opportunities for theater students to meet some of the best people in the nation working in their specific areas."

Theater professionals and educators at the Region IV festival included a Tony-winning composer, a costume designer from *Good Will Hunting*, Sandra Bullock's former agent, a critic with five Pulitzer nominations, and an actor whose 200 appearances on stage and screen include a role on "Seinfeld."

More than 150 colleges sent students to take part in workshops, compete in various disciplines from stage design to critique, and enjoy the camaraderie of others with a similar passion for stagecraft.

The festival gave 14 Clemson students a chance not only to mix and mingle with professional actors and acting coaches, but also to show their talents. Eight Clemson students competed for Irene Ryan Acting Scholarships.

Four were nominated for their work in stage design. One student represented Clemson as a playwright, and 11 others took part in the National Critics Institute program.

While the acting students competed for a share of the stage, those in the Critics Institute often found themselves on the outer edges of the festival, watching each play and writing a fast critique.

For several years Charney has led workshops in regional festivals across the country and at the national festival in Washington. When his term as regional director ends this year, he'll become the country's first national coordinator of the organization's O'Neill Critics Institute.

He also coordinates a 10-state effort to respond to virtually every college theater production. Respondents watch the play and meet with those involved afterward to provide feedback on what the players did right and wrong. A written report is submitted to Charney, who reviews it before passing it on to the school. The response is the basis for determining which plays and students make the regional competition and a chance for a national stage in the spring.

Charney, who also attends most of the regional festivals, manages to keep up with his duties in the English department by working in the wee hours and traveling with a laptop.

"I come in early to get it all done, but I like it so I'm not complaining," says Charney. "It's a lot of blood and sweat, but never tears."

In April, the Kennedy Center honored Charney for his six stellar years of outstanding service and leadership as vice chair and chair of Region IV of the Kennedy Center American College Theater Festival.

Clemson Away from Clemson

Meet some loyal Clemson alumni who first set foot on campus at graduation.

Did you know that you can get a degree from Clemson and never leave downtown Greenville? Clemson is one of seven institutions that offer course work and degrees through the University Center of Greenville.

Begun in 1987 by Clemson faculty and administrators, the University Center of Greenville is a consortium of institutions designed to serve the working adult population in Greenville and the Upstate.

Courses are offered in the evenings through compressed or accelerated programs and through distance education. This design helps adult students obtain a degree while they balance the demands of work and family. Approximately 5,000 students enroll each year within the seven institutions. The center is similar to a mini campus; all instruction and support services are located under

one roof. All degrees are awarded through the participating institutions.

Clemson currently offers one undergraduate degree – RN to BS in Nursing – and nine master’s degrees at the center. Courses are taught by Clemson faculty who don’t mind the 35-mile drive to offer students the same education and classroom experiences they would receive on

campus.

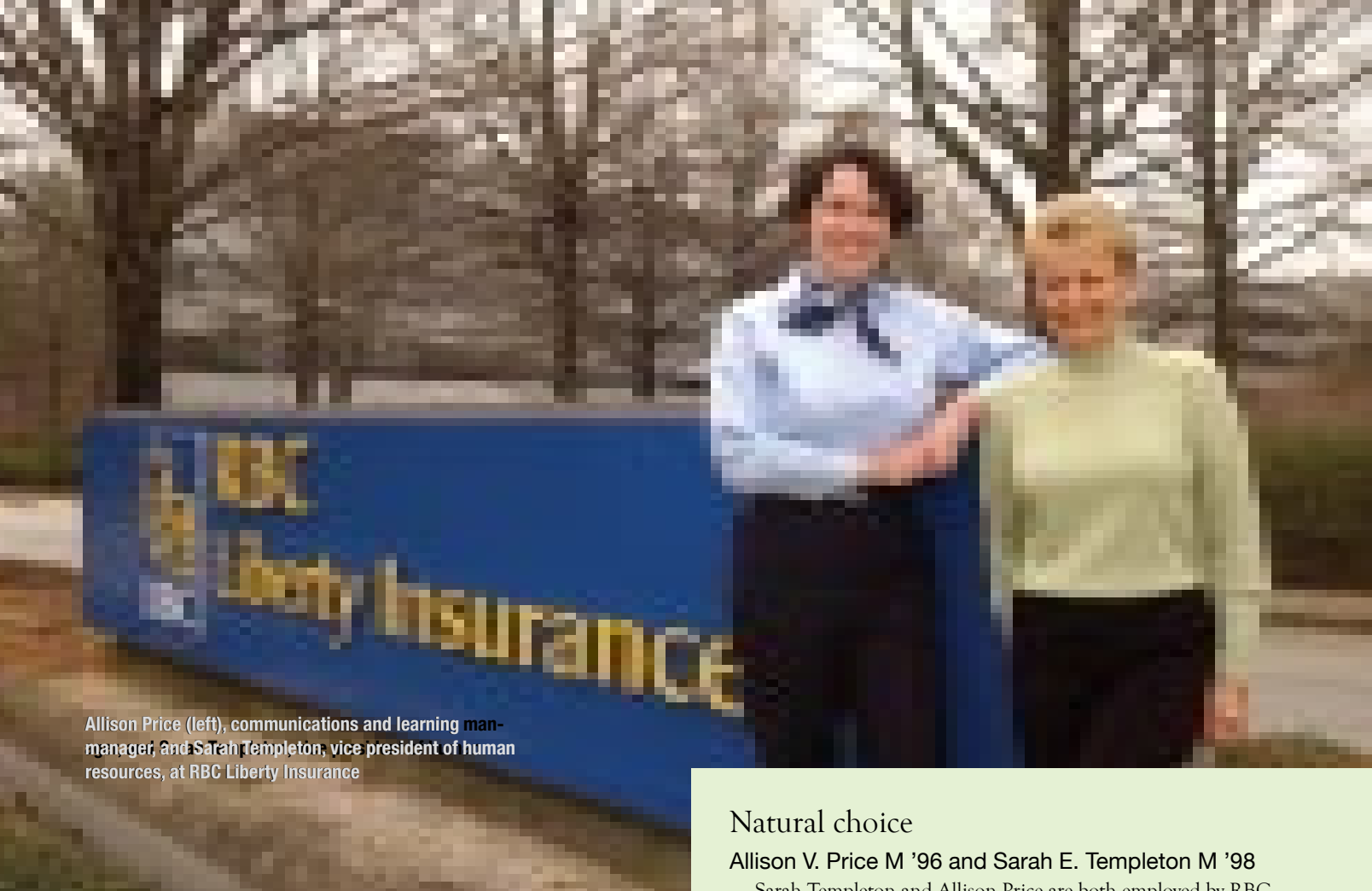
Clemson professor Clint Isbell has been teaching in Greenville for 10 years. He says, “The University Center provides an excellent opportunity for the working professional in the Greenville area to pursue advanced degrees in a fantastic learning environment.”

Because the center serves the adult learner, average age of 32, courses are offered primarily in the evenings. But some traditional Clemson students also find this a workable solution to scheduling problems and the challenge of balancing work, school and personal life.

Currently, Clemson enrolls nearly 500 students each semester at the center. Hundreds have graduated since its beginning, and many more students have taken courses at the center to complement their main campus experience.

Irene J. Pena, RN,
clinical research
coordinator at
Radiant Research



A photograph of two women, Allison Price and Sarah Templeton, standing outdoors in front of a large blue sign with the RBC Liberty Insurance logo. Allison Price is on the left, wearing a light blue button-down shirt and a dark skirt. Sarah Templeton is on the right, wearing a light green sweater and a dark skirt. They are both smiling at the camera. The background shows some trees and a fence.

Allison Price (left), communications and learning manager, and Sarah Templeton, vice president of human resources, at RBC Liberty Insurance

American dream

Irene J. Pena '02

Colombian-born Irene Pena came to the United States from Santa Fe de Bogota at the age of 19. She had attended two years of college in her native country when her parents decided to pursue the American dream. After first settling in New York City, Pena got a job in an ice cream shop where she saved money to take English courses. She eventually learned the language, re-enrolled in college and circuitously found her way to Greenville.

With a goal of becoming a nurse practitioner, Pena earned an associate degree in nursing at Greenville Technical College. She then enrolled in Clemson's RN to BS in Nursing program at the University Center.

"After completing my associate degree in nursing, I looked at colleges in North Carolina, South Carolina and Georgia," says Pena, "but none offered the flexibility and support that I needed to continue my education."

In May 2002, she received a Clemson bachelor's degree in nursing, magna cum laude. She's currently enrolled in the master's degree nursing program at the University Center and working at Radiant Research in Greer. A full-time employee, single mom and daughter of Spanish-speaking parents who also live in Greenville, she says, "Clemson at the University Center is perfect for my professional as well as personal needs."

Natural choice

Allison V. Price M '96 and Sarah E. Templeton M '98

Sarah Templeton and Allison Price are both employed by RBC Liberty Insurance in Greenville. They each have combined a successful career with a busy family life. They each hold a master's degree in human resource development from Clemson. And they both took all their classes in Greenville at the University Center.

Templeton, a Greenville native, is vice president of human resources at RBC Liberty Insurance. She attended Rutledge College in Greenville and graduated from Southern Wesleyan in Central with a bachelor's degree in administration.

When the manufacturing company she was working for moved to New Jersey, she declined to go. She says, "Being unemployed gave me a desire to get back in school."

She enrolled in Clemson's master of human resources program at the University Center and graduated in 17 months. "It's an excellent program," she says. "I absolutely recommend it."

Price is the communications and learning manager at RBC Liberty Insurance. Originally from Milwaukee, Wis., she came to South Carolina as a child. After she earned a bachelor's degree in psychology at Presbyterian College, she went to work in the human resources area.

When she decided to pursue a master's degree, Clemson's program at the University Center was an obvious choice. "It's a great program," she says. "It's convenient and designed for the working professional." She graduated in 1996 and is currently a candidate for the Ed.D. in vocational and technical education at Clemson.

Another step up

Julia W. Crawley '02

Julia Crawley's company, 3M, transferred her from St. Paul, Minn., to Greenville in 1998. She has a bachelor's degree in chemical engineering from Tuskegee University and a master's in chemical engineering from North Carolina A&T.

Crawley, however, wanted to pursue a master's degree in business administration to give her more opportunity for advancement and flexibility within the company. She says, "I didn't need another degree in engineering but rather more training in business."

She found the Clemson MBA program at the University Center on the Internet. "I didn't have the flexibility to travel to the main campus," says Crawley, "so the University Center was perfect for my needs."



University Center of Greenville Consortium

Clemson

Furman

Greenville Tech

Lander

Medical University of South Carolina

South Carolina

South Carolina State

USC Spartanburg

Clemson Degrees Offered

- Bachelor of Science in Nursing for Registered Nurses
- Master of Business Administration
- Master of Construction Science and Management
- Master of Education in Administration and Supervision
- Master of Education in Counseling
- Master of Health Administration
- Master of Human Resource Development
- Master of Public Administration
- Master of Science in Electrical Engineering
- Master of Science in Nursing

Location and Contact

The University Center of Greenville is located in the newly renovated McAlister Square shopping mall on South Pleasantburg Drive. For more information, contact Diane Smathers, associate vice provost, at (864) 250-6702 or visit the Web at www.clemson.edu/odce or www.greenville.org.

Tim Smith,
marketing instructor
at Greenville Tech

Career change

Tim G. Smith '01

When Tim Smith isn't teaching marketing at Greenville Tech, coaching youth soccer or traveling with his consulting business, he might be found at Clemson watching a baseball, basketball or volleyball game. An avid sports fan, Tim wears Clemson Orange with pride.

Smith came to South Carolina from his native Ohio after graduating from Kent State University in 1982. He spent 16 years in the food distribution industry before deciding to pursue a teaching career.

Tim enrolled in Clemson's MBA program at the University Center and found it a perfect fit for his family life and his busy schedule. "Without Clemson at the University Center," he says, "I wouldn't have found my joy in teaching."

"Among the best things about the program are the contacts you make," says Smith. "Although the center is a commuter school, you can build relationships with other students who are in the same life stage as you."*



CEMETERY CHRONICLES

An Orator and a Teacher

by Anne-Ross Cornwell '03



DAVE LEWIS

D.W. Daniel 1867-1961

Cemetery Chronicles is a series on the honored inhabitants of Clemson's Woodland Cemetery, better known as Cemetery Hill. For more information about the cemetery's historical value, contact Matt Dunbar at tigeray@alumni.clemson.edu or (423) 967-5323.

To support its preservation and research, you can make a gift through the enclosed envelope and designate it for the "Cemetery Hill Preservation Fund."

Every Friday afternoon in a one-room schoolhouse in Laurens County, students hurriedly assembled for their weekly oratory program. An audience overflowing with teachers, trustees and peers created an intimidating atmosphere. One student in particular – D.W. Daniel – dreaded the event.

From age 7 to 17, he tried his best to deliver some piece he had practiced during the week only to end up running off the stage in tears. But the laughs and jeers of schoolmates did not deter him from his drive to succeed as a public speaker. Eventually, the boy who failed to recite a single line on those Fridays matured into the man who became one of South Carolina's most renowned orators – and one of Clemson's most influential educators.

Born in 1867, David Wistar Daniel cultivated a passion for education through family influence and personal experience. His father served Laurens County as superintendent of education and as a teacher in the public school system where Daniel received his boyhood education. After Daniel graduated from Wofford College in 1892, he too taught several years in the S.C. public school system.

Then, in 1898, he accepted a position at Clemson College as assistant professor of English. Thus began a distinguished career in service to Clemson that would span a half-century.

During his career at Clemson, Daniel moved up through the ranks to associate professor of English in 1910, professor in 1913, director of the academic department in 1918, and dean of the School of the Arts and Sciences in 1925.

While his effective leadership resulted in steady advancement within the college administration, his first love remained the education of young collegians. Likewise, he remained a favorite professor among Clemson cadets throughout his tenure. It was common knowledge among the cadet corps that "If you want to get the best out of a Clemson education, you'd better take at least one class with Dr. Daniel before graduation."

Along with Daniel's professional commitment to the College, he remained dedicated to the public school system. He served on the S.C. State Board of Education for 12 years and led the state teacher's association as president. South Carolina honored his service by awarding him the 1951 American Legion of South Carolina plaque for distinguished service. In 1956, the state named the local high school in Central after him. Clemson also named an academic building and a campus road for him.

Daniel not only had a profound impact on the educational community of South Carolina, he also held sway over the minds of audiences nationwide as one of the South's finest, most entertaining public orators. His lecture tours carried him across the nation, and his messages, laced with humor and good grace, echoed his personal credo of diligence, service and patriotism.

Alongside the likes of President Herbert Hoover and Amelia Earhart, he spoke to senators and congressmen, Supreme Court justices, members of the armed services, manufacturing associations, social clubs and others. Daniel's powerful words and humorous stories helped improve the morale of army camps during World War II.


Although he traveled throughout America to deliver his messages, he was always happy to come home to Clemson to his wife, Eva, and daughter, Evelyn. He lived the last years of his life in his home near the present-day Clemson House where he could look out his den window and see Bowman Field.

Upon his death in 1961, he joined other Clemson legends in Woodland Cemetery. The great orator's echoes faded, but his inspiration resounds today.



by Liz Newall

A university, by its very nature, is dynamic — changing, expanding, reevaluating. At the same time it's brick-and-mortar solid — with classrooms, laboratories, centers, communication systems, parking lots.



The Clemson you attended is not the same today, whether you've been out three years or 30. And you wouldn't want it to be. Like all outstanding universities, your alma mater is continually improving.

As it prepares to grow in scope and reach, it also must prepare to keep up physically. That's where the Campus Master Plan comes in.

If you've watched Clemson in the past decade, you've seen a variety of construction, while at the same time a continuity of style, a blending of past with present — in other words, growth by design.

So what is Clemson's design for the next decade or two? Will Clemson need more housing for students? What about classrooms? What about research? What's going on with all the road construction? And where in the heck will people park?

Answers to these questions and many more have gone into determining Clemson's new Campus Master Plan. Our previous master plan was developed in 1994, and many of the projects identified then have been completed. In 2000, the University initiated a new comprehensive planning effort to address present needs and to focus on Clemson's vision of becoming a top-20 public university.

The completed plan will guide the University's physical development over the next 18 years and challenge Clemson to add 1.5 million square feet, double its current annual investment in facilities, and adopt design guidelines that will create a more sustainable, environmentally responsible and humane campus.

Its creation has involved input from all academic and administrative departments as well as students, faculty and staff. It includes an analysis of the central campus and surroundings as they now exist, an analysis of the University's needs to achieve its academic goals and an assessment of individual buildings.

Guiding philosophy

Clemson's plan is developed within a guiding philosophy that respects the University's unique campus and sense of community.

It should promote social/intellectual interaction among students, faculty, staff and visitors. The Hendrix Center is a prime example.

It must respect the history, tradition and culture of campus. The recent renovation of Hardin Hall combined the latest teaching technology with historical preservation of the landmark.





Fraternity Quad entrance

80 pages long with a wealth of drawings, explanations and other information. Here are some highlights.

The plan allows for substantial increase in research space to close the sizable space gap between Clemson and the average top-20 research university.

Clemson has approximately 5 million square feet of nonresidential usable space for academics and associated activities. Among the institutions in the top 20 that we compare ourselves to, the University has roughly two-thirds the average amount of space.

The campus plan includes an advanced materials building south of Earle Hall and the Fluor Daniel Building. It will be the first of several that will define a new academic quad in the area.

The plan presents a vision for the former Johnstone site. It includes a new dining hall, enhanced student programming facilities, housing, an academic building and open green spaces that link with Cox Plaza and Bowman Field.

Master planners envision an academic village in the Douthitt Hills area along the Highway 93 entrance to campus that will replace existing duplexes with a corridor of academic and research facilities and graduate student housing. The plan calls for a structure that will be a “one-stop shop” for student services, such as



Center of Centers

It must also value sustainable design and account for growth. Renovation of the Fraternity Quad, currently in design, is an example. It will be certified as a leadership in energy and environmental design (LEED) project, the new standard in green building design.

The plan assumes no change in overall enrollment, but does assume continued steady growth in research and a considerable increase in private fund-raising and legislative efforts related to facilities. Clemson’s new Public Service Activities biosystems research center, which offers office and laboratory space to prospective researchers, is an example.

Highlights

The University’s Campus Master Plan is more than



admissions, registration and financial aid, to be located near the Clemson House across from the President’s Park.

A “Center of Centers” behind Cooper Library will take advantage of a large underused open space. Placing centers and institutes together with a spectrum of activities – offices, research modules, seminar and classrooms – will create interaction and strengthen individual units. The Center of Centers is envisioned as the permanent home for the Academic Support Center and similar programs.

The plan calls for restructuring of the University’s Ravenel site, located across the lake and near the YMCA. It includes expansion



Center of Centers site plan

of office and research space and other space for projects unsuitable for a campus location. Storage and warehouse facilities and other support facilities currently located in the center of campus and facilities that could be used for short-term, project-specific research will be located here.

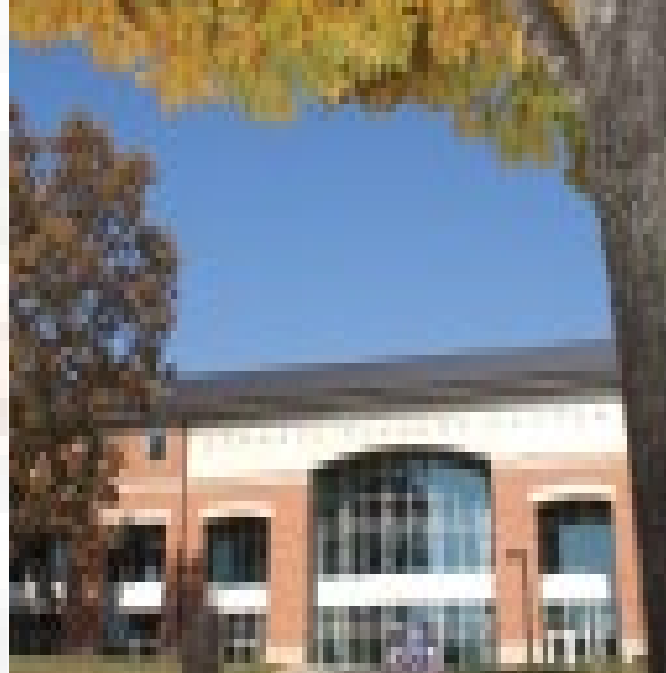
A major goal throughout development of the Campus Master Plan has been to advance the concept of Clemson as a pedestrian campus. Although lack of parking is a common complaint at any university, Clemson's rate of spaces per student — 83 places per 100 students — is significantly higher than its peers. For example the University of Georgia has 55 spaces per 100 students, while Virginia has 66, Tennessee has 45 and UNC-Chapel Hill has 52.

The campus plan, however, has a parking plan that includes the addition of parking decks as well as a more pedestrian-oriented central campus. Possible deck sites include areas near Douthitt Hills, the Hendrix Student Center, the future academic quad area, the Brooks Center and Memorial Stadium.

You can find the full University Campus Master Plan with drawings, findings, surveys, implementation timetable and other details on the Web at www.clemson.edu/masterplan.



Proposed academic quad



Master Planning Task Force

James Barker, FAIA, University President

Brian Becknell, Classified Staff Senate President 2001-2002

Rita Bolt, Student Body President 2000-2001

Mendal Bouknight, Chief Development Officer

Rick Cotton, City Administrator for the City of Clemson

Craig Dawson, Graduate Student Government President 2000-2001

John Finn, College of Engineering and Science Representative

David Fleming, Director of Planning and Institutional Research

Alan Grubb, Associate Professor of History, Faculty Senate President 2001-2002

David Hamilton, Graduate Student Representative

Dori Helms, Provost and Vice President for Academic Affairs

Almeda Jacks, Vice President for Student Affairs

John Jacques, Professor Emeritus of Architecture

Les Jones, Director of Capital Projects, Athletics

Gary Kirby, Student Body President 2001-2002

Jim London, Professor of Planning and Landscape Architecture

Scott Ludlow, Chief Business Officer

Angelo Mitsopoulos, Student Body President 2002-2003

Chris Przirembel, Vice President for Research

Sharon Richardson, Director of Planning and Codes Administration for the City of Clemson

Janice Schach, FASLA, Dean of Architecture, Arts and Humanities

Yatish Shah, Chief Research Officer and Senior Vice Provost 1997-2001

DeWitt Stone, Lecturer in the Office of External Instruction

Kinley Sturkie, Professor of Sociology, Faculty Senate President 2002-2003

Fred Switzer, Professor of Psychology, Faculty Senate President 2000-2001

Stassen Thompson, Director of Land Management

Bob Wells, Chief Facilities Officer

Allen Wood, AIA, Trustee, Vice President of Mosley Wilkins & Wood

Umit Yilmaz, Associate Professor of Planning and Landscape Architecture

Gerald Vander Mey, Director of Campus Planning

The background of the page is a close-up, slightly blurred image of the American flag, showing the stars and stripes. The text 'CALLED TO DUTY' is overlaid on the right side of the flag.

CALLED TO DUTY

WE KNOW THAT MANY CLEMSON
ALUMNI AS WELL AS FACULTY, STAFF AND
STUDENTS HAVE BEEN CALLED TO DUTY IN THE PAST YEAR. Some
have given us addresses to share with Clemson friends. You can check
out these names and addresses online at alumni.clemson.edu/military.htm.
To add a name and contact information, email Debbie DuBose at du-bosed@clemson.edu.

Week 10: Ethics in Counseling



LifelongConnections

With Your Alumni Association



Alumni Fellows '03

Meet the newest class of Alumni Fellows, outstanding Clemson graduates selected by the University's academic colleges for professional accomplishments and contributions.

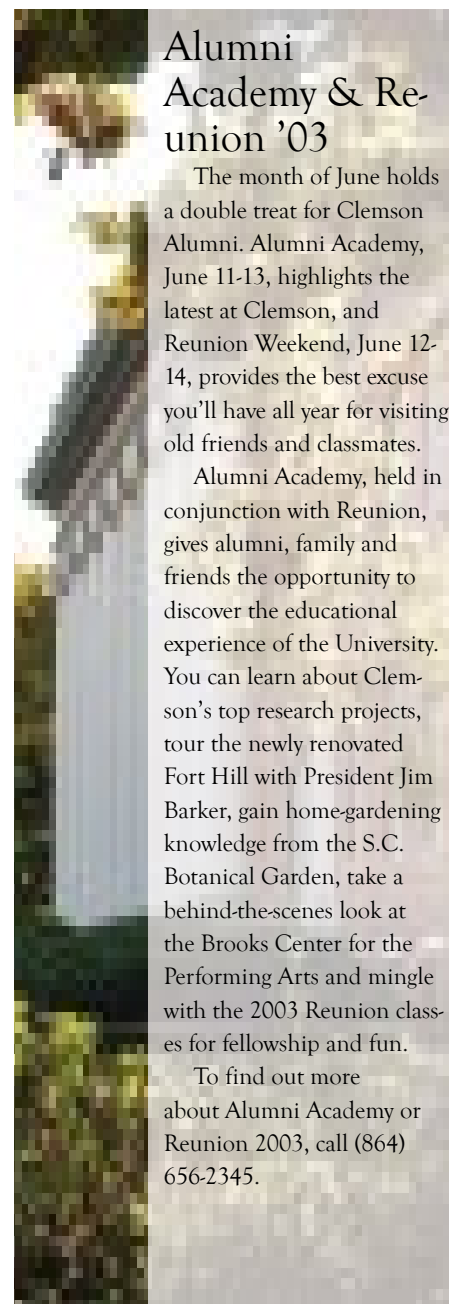
They are, front row from left, John C. Walker '64, director of compensation at Sonoco; Joseph A. Erwin '79, president of Erwin-Penland Advertising; Corinne F. Gerwe M '97, group president for Chronic Addiction Research; Robert T. Almodovar '82, design director for NK Architects; Rembert R. Stokes Jr. '53, president of Stokes Consulting; and James R. Brooks PhD '84, director of vegetable research and development and Campbell Seeds with Campbell Soup Co.

Back row, Scott C. Bergren '70, major general in command of Ogden Air Logistics Center, Hill Air Force Base; John T. Bigalke '77, national industry leader in health care and life sciences with Deloitte & Touche; L. Reynolds Logan Jr. '82, associate partner with Richard Meier & Partners Architects; Larry R. Kendall '69, executive vice president of M.B. Kahn Construction Co./Argo Division; Paul B. Ellis III '73, director of parks and recreation for Greenville; and J. Kenneth Hill '64, environmental management group director with American Forest Management.

Super Tigers '03

Terrific Tigers make great Clemson Clubs. The Alumni Association's latest Super Tigers and the clubs they represent are, from left, David Price of Charlotte, Claude Carroway of Piedmont/Triad, Elizabeth Milhous of Atlanta, Karen Wimberly of Edisto, Andy Thomas of Coosawhatchie, Al Byrd of Charleston and Eddie Robinson of Columbia.

Super Tigers not pictured are Kellye Whitaker of Atlanta, Richard Galloway of Cabarrus/Rowan, Lee Froneberger of Charlotte, Debbie Davis of Dallas/Fort Worth, Beth Bismack of Northern Alabama, John Phillips of Triangle, Brad and Leigh Anne Hoover of Tri-Cities and Jim Reinhardt of York.

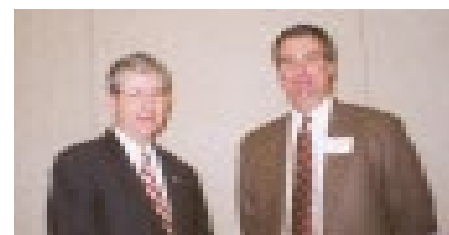


Alumni Academy & Reunion '03

The month of June holds a double treat for Clemson Alumni. Alumni Academy, June 11-13, highlights the latest at Clemson, and Reunion Weekend, June 12-14, provides the best excuse you'll have all year for visiting old friends and classmates.

Alumni Academy, held in conjunction with Reunion, gives alumni, family and friends the opportunity to discover the educational experience of the University. You can learn about Clemson's top research projects, tour the newly renovated Fort Hill with President Jim Barker, gain home-gardening knowledge from the S.C. Botanical Garden, take a behind-the-scenes look at the Brooks Center for the Performing Arts and mingle with the 2003 Reunion classes for fellowship and fun.

To find out more about Alumni Academy or Reunion 2003, call (864) 656-2345.

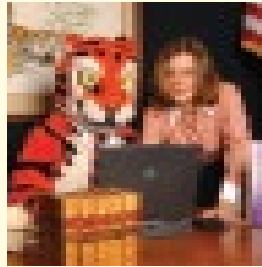


Easier access

Satch Krantz (right) of Clemson's Second Century Society in Columbia presents the society's gift of \$5,000 to Joe Boykin, dean of Clemson Libraries, for a library workstation designed for students with disabilities.

Career saavy

Clemson's Alumni Career Services director Tenneil Moody decided to check out some of those incredible "Work from Home!" career offers often seen on television, in newspa-



pers and on the Internet.

She researched a variety of work-from-home sites and responded to them with a proposal: "Waive the start-up fee for Clemson

University to confirm legitimacy, and I will recommend the site to our 90,000 alumni."

Out of 38 offers, no company accepted.

To experiment further, she selected a site that offered money for personal opinions on surveys, books, movies and other Web sites. After paying a \$30 membership fee, she learned that she could not choose surveys, but rather had to be selected to complete a questionnaire.

In three months, she received only two surveys for which she was qualified. And for her work on those two, she "earned" vouchers for other Internet sites, casinos and select stores — but no cash. The survey company, however, quickly refunded her membership fee when she explained the purpose of the research.

Bottom line: If it sounds too good to be true, you know the rest. For real help in your career search, contact Tenneil Moody, Alumni Career Services, at (864) 656-2345, by email at acs-L@clemson.edu or on the Web at alumni.clemson.edu.

Clemson in Va.

If you live in Virginia and want to display your Clemson pride, you just might be able

to get a Clemson tag for your car. The Clemson Clubs of Virginia are collecting applications and working toward the required goal of 350 tags. If you're interested, contact Gary Smith at supradrvr@aol.com or visit the DC/Baltimore Young Alumni Web site at members.cox.net/tigerplates.



Pi Alpha reunion

Clemson Pi Alpha alumni gathered at the Madren Center earlier this year for the fraternity's 20th anniversary celebration. The reunion is held every five years and provides members an opportunity to return to Clemson, reconnect with their fraternal roots and meet the young men who are now carrying the torch.



Panama par-t-e-e

Clemson PASSPORT Travelers cruised the Panama Canal earlier this year with fellow alumni and friends. The travel adventure, hosted by JoVanna and Jim King (back row, far right) with special guest Walter Cox (front and center), is one of many exciting destinations offered by PASSPORT Travel Adventures, the Alumni Association's official travel service.

Upcoming trips include Normandy in late July and the Canadian Rockies and Alaska in August. For more information, call the Alumni Center at (864) 656-2345.

Email changed?

Please send us your latest email address so that we can keep you updated on the Clemson Alumni Association's activities and the University's latest news. Just go to alumni.clemson.edu on the Web and click on "Want to stay connected," or go to www.clemson.edu/alumni/albums/talk/addr.htm. Or call 1-800-313-6517 to update your address.

You can also take advantage of our free email service. You'll get an easy-to-remember address: you@alumni.clemson.edu. For fast and simple registration, mail.clemson.edu.



Student *Life*



Almond champs

Two Clemson students in the food technology Ph.D. program reached across the culinary country to win the grand prize of the Almond Board of California's Almond Innovations Contest.

Jennifer Grower (left) and Aubrey Coffee created a winning cookie confection Almond Jewels, complete with its own specially designed packaging.

The students' work, along with the help of their faculty advisers Johnny McGregor from food science and Kay Cooksey from packaging science, represents a model collaboration for the program and for the University.

As a result of their winning creation, the students will share \$5,000 and a summer trip to the Institute of Food Technologists Conference in Chicago, Ill., the largest meeting of food industry professionals in the world.

Top 15



Clemson's Army Reserve Officer Training Corps (ROTC) program is in the top 15 percent in the nation. The U.S. Army Cadet Command ranks all 270 Army ROTC programs nationwide based on the

previous year's achievements in the number of participating students, retention and rate of alumni commissions.



Acting!

Thirty Clemson theater students took part in the Kennedy Center American College Theater Festival's Region IV event in Savannah, Ga., earlier this year. They worked with professionals including composers, agents, critics, costume designers, and stage and screen actors. Pictured from left are Nick Oglesby, June Choi and Michael Brown.



Winning design in NYC

The award-winning work of Clemson professional communications graduate students was featured at the Conference on College Composition and Communication in New York City this spring. The conference is the annual gathering of the largest professional organization of college faculty in rhetoric and writing.

Clemson was already well represented by Kathleen Yancey, director of the University's Pearce Center for Professional Communication and program chair for the conference.

Other Clemson representatives pictured here are, from left, professional communications graduate students Adam Wickliffe, Jodi Baker, Philip Randall, Shawn Apostel and professor Susan Hilligoss.

Clemson students Ashley Sherry and John Adam Wickliffe's design was used for the cover of the conference preview, for a postcard announcing the conference, for a display at two conferences and for the program cover.



Wise advice

Members of Clemson's new Ethics Bowl team get some advice from businessman Bob Rutland (left), benefactor of the University's Robert J. Rutland Center for Ethics. Team members include, from left, Pete Stone, Isaiah Trillo, Laura Loder, Jon Hiller and Jared Byrd. Their faculty adviser is philosophy professor Kelly Smith.

New internships

Clemson's Michelin® Career Center has received two grants to help fund student internships with non-profit agencies. A \$7,500 grant from the W.K. Kellogg Foundation for Institutional Change will give 10 students paid internship positions. The internships are part of the S.C. Leadership in Public Service program, a partnership of Clemson, S.C. State and the S.C. Technical College System.

The students are matched with nonprofit agencies in the Upstate during the spring semester. The program funds a peer coach, who will offer guidance and mentoring to the interns.

The career center also has received a \$20,000 Innovation Fund grant from Clemson's Office of the Provost and Vice President for Academic Affairs, which will fund 32 additional student internships in nonprofit agencies during fall semester.

Tigeroar

Clemson's all-male a cappella vocal ensemble Tigeroar won the regional quarterfinal of the International Championship of Collegiate A Cappella, a national competition that pits the best collegiate singers against each other for the chance to perform on Broadway.

The 13 members of Tigeroar earned first place honors over singing groups from the University of Georgia, Wake Forest, the University of Florida and Florida State.

In addition to earning top honors and the opportunity to advance to the South region semifinal, Clemson students also won individual awards. Rich Ramsey was selected for the Best Arrangement Award for his interpretation of "My Girl," and Seth Shirley won the Best Soloist Award. Dave Smith and Shirley were also named Most Dynamic Duo for the competition.

Founder and adviser of the group is Dan Rash (center), director of choral activities. Other a cappella groups in the choral program are Impulse, Southern Accents and Take Note.



Time to renew

The Student Alumni Association is only one year old, but nearly 1,000 Clemson students have already taken advantage of membership.

SAA members receive special discounts with local businesses, monthly drawings for prizes and a member packet filled with goodies. They're also invited to exclusive professional development activities and have the opportunity to network with Clemson alumni.

Membership fees are \$20 annually, with \$5 going to the Clemson Fund to support academics while \$15 goes to support SAA programs. Now is the time to renew membership for the upcoming year.

Go to alumni.clemson.edu/saa on the Web for the membership form or call the Alumni Center at (864) 656-2345.



Tiger Gras



Clemson students celebrated Fat Tuesday with a University Union twist at Tiger Gras, the Upstate's largest Mardi Gras celebration. Pictured here are Katie Scholler (left), a Union Programs and Activities Council volunteer, along with student Megan Gray.

Boston rockers American Hi-Fi made Clemson their first college stop on their spring tour. Trouble Is and The Early November added to the music while Tiger Gras goers reveled in New Orleans-style fun with beads, Cajun food, street vendors and artists. Sponsors for the free event included Bugle Boy, Xbox, RCA and Chick-fil-A.

Classmates

'39ers

These familiar alumni gathered in front of the Class of 1939 Bell in the Carillon Garden earlier this year for a photo. They are, front row, from left, Champ M. Jones, T.L. "Tee" Senn, Walter T. Cox and James C. Covington; back row, Frank W. O'Neal, William B. Zeigler, Elliott M. Loyless and Henry E. Avent. They were on hand to present biological sciences professor A.P. "Hap" Wheeler with the latest Class of 1939 Award for Excellence.



1948

Louis P. Batson (TE) of Greenville is a member of the Greenville Tech Foundation Entrepreneurial Forum.

Marshall A. Fant Jr. (GENSCI) of Anderson was inducted into the S.C. Football Officials Association Hall of Fame, Class of 2001.

1954

Lawrence M. Gressette Jr. (A&S-CI) of Columbia will be inducted into the S.C. Business Hall of Fame this spring. He is retired chairman and chief executive officer of SCANA Corp. and is a life trustee and chairman of the University's Board of Trustees.

1960

I. Michael Orenstein (ENT) of Northridge, Calif., retired as vice president and chief operating officer of A-Mark Auction Galleries in Beverly Hills after 32 years of

service. He started Aurora Galleries International, an auction firm specializing in aviation and space memorabilia. He was awarded the

Order of Yuri Alexeyevich Gagarin by the Federation of Supporting Russian Cosmonautics for his work in promoting Russian space memorabilia.

In step for life

R. Nelson "Chip" Crowe '50

Architect Chip Crowe entered Clemson as a 17-year-old from Greenwood in 1942. His company captain at Clemson was R.C. "Bobby" Blair '43, a member of the Senior Platoon, Clemson's elite precision drill team that performed from the early 1930s to the early 1960s. He taught Crowe many of the commands and some of the intricate maneuvers of the platoon.

It would, however, be several years before Crowe would become an upperclassman because on his 18th birthday he joined the Navy Air Corps.

But he remembered what he'd already learned, and when he was going through primary flight training at NAS Memphis, Tenn., he formed his own "senior platoon." His group performed often on the parade ground in front of the administration building.

As he rose through the ranks to become the highest-ranking Navy cadet in the country, he sent each insignia of his former rank to a friend back home.

He recently retrieved his insignias and had them framed in a shadow box (pictured here) along with the gold Navy Wings he later received. Crowe credits much of his lifelong success to the attention of an upperclassman and his experiences at Clemson.



1962

James R. Cothran (HORT) of Atlanta, Ga., is a fellow in the American Society of Landscape Architects. He is director of the planning and landscape architecture division of Robert and Co.

Myles O'Riley (A&SCI) is living in Columbia and has retired as claims team manager for State Farm Insurance Co. after 33 years of service.

1963

Bartow S. Shaw Jr. (FOR) of Sumter, chairman and CEO of American Forest Management, recently announced the company's merger with Shaw, McLeod, Belser & Hurlbutt Inc., a move that combines two of the nation's leaders in the field of forest management consulting.

1966

James A. Kelley (CH) of Aiken has retired from DuPont after a 32-year career. He was global technology director for DuPont Corian.

1968

Ed M. Bolin (EE) of Charleston has retired from the Space and Naval Warfare Systems Center with 34 years of service as an engineer. He's now CEO of Carolina Business & Commerce, a multimedia and

'60s Tigers in Africa

Alice Thomas Hendricks '62, Edward S. Tennent '66 and H. Devar Burbage '63

Teacher Alice Hendricks of Easley, chemical engineer

Edward Tennent (center) of Potomac, Md., and electrical engineer Devar Burbage also of Potomac were part of a group on an African animals expedition in Tanzania and Kenya. They're pictured here at the Hippo Pool in Ngorongoro Crater of Tanzania.



design franchise.

1969

Dudley J. Raynal (BIOL) of Syracuse, N.Y., is dean of instruction and graduate studies at the Syracuse University of New York College of Environmental Science and Forestry.

1971

Tad A. Stanley (ARCH, M '73) of Robins Air Force Base, Ga.,

received the Air Force Association Executive Division Management Award.

1972

Jesse C. Eargle (ANSC, M '87) of Orangeburg is Extension regional director for Savannah Valley.

Jeff T. Langley (TC, PhD '76 T-PS) of Lake Wylie is North American regional business director, process chemicals, for Cognis.

1973

Jesse Adams (ANSC, M '86 AGED) of McColl is Extension regional director for the Pee Dee.

H. Eddie McKnight (ZOO, M '79 AGED) of Moncks Corner is vice president of marketing/public relations for Berkeley Electric Co-operative. He accepted a national marketing award on behalf of the cooperative for its campaign featuring the S.C. Stingrays hockey team.

1974

Ric L. Barnett (RPA) of North Pole, Alaska, is operations manager at Fairbanks International Airport.

Alva D. Gaskin Jr. (BLDGSC) of Evans, Ga., is the national president of the Professional Construction Estimators Association of America Inc.

1975

Alan W. Beaver (RPA) of Charlotte, N.C., was elected to the Disc Golf Hall of Fame and is certified by the National Parks and Recreation Association.

Carroll P. Culbertson (AGED, M '84) of Greenwood is Extension regional director for the Piedmont.

David R. Grayden Jr. (BLDGSC) of Greenville received the M.A.I. professional designation, the

highest a commercial real estate appraiser can obtain. He is an independent contractor and fee appraiser with Wilkins Norwood Associates.

Jeffrey W.B. Pettit (BLDG CNS) of Simpsonville, a member of the architectural firm Craig, Gauden & Davis, is certified as a "leadership in energy and environment design accredited professional" by the U.S. Green Building Council.

Bruce A. Pullen (CHE) of Houston, Texas, is vice president, chemical manufacturing, with Old World Industries Ltd. in Northbrook, Ill.

1977

Dot Flitchett Jeger (ENGL) is married and living in Bluffton. She is vice president of customer operations for VeriSign in Savannah, Ga.

Linda L. Russell (M PERS) of Simpsonville is Extension regional director for the Upstate.

F. Stone Workman (POSC) of Monticello, Ga., is state director of USDA-Rural Development. He recently accepted the Heritage Award from East Central Technical College Foundation on behalf of the agency.

1978

Paul L. McDaniel (CHE) of

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to 1-800-313-6517 or fax
864-656-1692.

Ambassador to Ecuador

Kristie A. Kenney '77

Clemson political science graduate Kristie Kenney became the U.S. ambassador to Ecuador last fall. A member of the U.S. Foreign Service, she's also served as senior adviser to the assistant secretary for International Narcotics and Law Enforcement Affairs at the U.S. Department of State.

Earlier in her career, she served as executive secretary of the State Department, the first woman to hold that position. She headed a staff responsible for interagency policy coordination and crisis management, working directly for Secretaries of State Colin Powell and Madeleine Albright. She also led the State Department transition team from the Clinton to Bush administrations.

Kenney's overseas posts include economic counselor at the U.S. Mission in Geneva, economic officer at the U.S. Embassy in Argentina and consular officer at the U.S. Embassy in Jamaica.

Her Washington assignments include director of the State Department Operations Center, a detail to the White House as a member of the National Security Council staff and political-military officer in the Office of NATO Affairs.

An avid skier and tennis player, Kenney is married to William R. Brownfield, a senior Foreign Service officer, currently the U.S. ambassador to Chile.



'Little America'

Nancy J. Byrne '77

Recreation and park administration graduate Nancy Byrne would love nothing better than for you to visit her home state of New Jersey and to see why the state bills itself "America the Beautiful ... only smaller."

Byrne, who lives in Princeton, became director of Travel and Tourism for New Jersey last year. She promotes the state as a leisure and business travel destination. In addition, she coordinates travel trade development, tourism project development, visitor welcome services and outreach programs.

Byrne previously organized and implemented special events and marketing. She was also special assistant to former Secretary of the Interior Bruce Babbitt, a role in which she was responsible for National Heritage Tours. Last summer, the *New York Times* featured the Clemson graduate in her new role.

As for New Jersey, she says, "We have more horses than Kentucky, 127 miles of beaches, the Delaware River, great antique shopping." You get the idea. For more information, go to visitnj.com on the Web.



Bristol, Tenn., works in research and development at Alltrista Zinc Products, which manufactures the penny blanks for the U.S. Mint.

1979

Rebecca Lee Hanson (SED) of Fletcher, N.C., received national board certification in early adolescence/mathematics. She teaches at West Henderson High School in Hendersonville.

1981

Deborah Cremer Calhoun (ECON) of Anderson was appointed lieutenant governor, Foundation District representative for the Pace-setter District of the Carolina-West Region of Sertoma International for 2002-2003.

Harold W. Goldin (POSC) of Rockmart, Ga., is an assistant district attorney in the judicial circuit for Rome.

1982

Lee A. Davis III (RPA) of Indian

Trail, N.C., is senior pastor at Benton's Cross Roads Baptist Church in Monroe. He serves on the ministerial board of Wingate University and is on the general board of the Baptist State Convention.

Rob J. Kaufman (EE) of San Antonio, Texas, is a lieutenant in the U.S. Air Force. He is director of operations for the Computer Emergency Response Team, the organization that detects and stops hackers from intruding on Air Force networks.

1983

Barbara Kirwan Ward (IND MGT) is married and living in Double Oak, Texas, where she's director of quality for Motorola Broadband Communications Sector. She ranked nationally as a competitive cyclist in road racing in 2001.

1984

Edward A. Brock (ADMMGT) of Rock Hill is vice president and senior commercial relationship manager for Provident Community Bank.

Charles C. Hucks Jr. (EE) of Aynor represents District 11 on the Horry County School Board.

1985

F. Richard Flowe (M CRP) of Concord, N.C., retired from the planning firm he founded, Benchmark Planning.

Margaret Lucas (EE) and **Wayne "Corky" (FINMGT) Loper** are

living in Roswell, Ga. Margaret received a Ph.D. in computer science from Georgia Tech and is senior research scientist at the Georgia Tech Research Institute. She also teaches in the College of Computing. Wayne is a division president for Chateau Communities.

Curtis F. Morgan (M HIST) of Strasburg, Va., is associate professor of history at Lord Fairfax Community College in Middleton, Va. He has written the book *James F. Byrnes, Lucius Clay and American Policy in Germany, 1945-1947*, published by the Edwin Mellen Press.

Mark A. Ritter (M A&FIND) of Kenneth Square, Pa., is vice president, global sales, for SPI Polyols Food Division in New Castle, Del.

1986

Eric E. Goodson (CPINSYS, M '88 INDMGT) is married and living in Raleigh, N.C.

1987

Mark R. Terry (MGT) of Charlotte, N.C., is a senior sales representative with GlaxoSmith-Kline Pharmaceutical Co.

1988

David Edward Bradley (M PRTM) of Leicester, N.C., is a survival training supervisor for the wilderness and environmental medicine course, sponsored by the Department of Defense and Public Health Service Uniformed University of Health Sciences and the Wilder-

Tiger Lobster

Robert M. Sexton '79, M '81



On a visit to the lighthouses of Maine, industrial education alumnus Rob Sexton and his wife, Kathy, of Clemson discovered this

ness Medical Society.

Robin B. McFall (SED-EN, M '90) of Piedmont, English instructor at Tri County Technical College, has been named the college's outstanding instructor.

1989

Luke Haymond (PRTM) of Suwanee, Ga., is president and CEO of Haymond Antonio Group, an investment advisory firm.

Kirk A. Nix (TEXTMGT) of Boise, Idaho, is an investment representative with Edward Jones.

Alan W. Smith (CHE) of Atlanta, Ga., is plant manager of the HJ Heinz Stone Mountain facility.

Gustavus Brock Smith (EE) is married and living at Fairchild Air Force Base, Wash. He's a corporate pilot for Avista and the Air National Guard.

Cathy Lewis Thomason (L&IT) is living in Greenville.

1990

Brian Alan (MGT) and **Erica Johnson** ('91 ENGL) **Sanders** are living in Graniteville. He's the director of Aiken County Parks, Recreation and Tourism. She received a master's degree in social work from the University of South Carolina and is a part-time faculty member at Augusta State.

1991

Joey W. Albert (CPSC) of Goose Creek is software architect and co-founder of Atlanta-based EzGov, named the top private small company by the Technology Association of Georgia and the *Atlanta Business Chronicle*.

Beverly Meetze (CE) and **John E.** ('92 ME) **Hollowell** are living in Leavenworth, Kan. He received a master's degree in industrial engineering operations research from Kansas State.

Sean T. Mann (PSYCH) of Fort Gordon, Ga., has had two science fiction books published by iUniverse. Sean's Streekler Boglash series can be found at www.iUniverse.com.

John M. Sherrer (ENGL, M '93) of Columbia co-authored a book, *The Governor's Mansion of South Carolina, 1855-2001*.

S. Lee Samuels Sobocinski (MKTG) of Newark, Del., graduated from Widener University School of Law and is a law clerk at Salem County Court House in Salem, N.J.

1992

Mary Jo Gray Doll (POSC, M '97 MKTG) is married and living in Charleston. She is manager of loyalty and retention for TeleCorp Division at AT&T Wireless.

Noel Mathey Geoffrey (L&IT) of Cincinnati, Ohio, is brand manager for Proctor & Gamble. She was named one of *Advertising Age's* Top-100 Marketers of the Year for leading Proctor & Gamble's launch of the new at-home dry cleaning product Dryel.

Aaron P. Jersild (MGT) of Tampa, Fla., is a registered financial adviser with AXA Advisors.

1993

Robert P. Bradham (ACCT) of Charleston is manager at Gamble Givens & Moody LLC, a certified public accounting and consulting firm.

Benjamin G. (ECON) and **Carolyn Berube** (FINMGT) **Brock** are living in Lookout Mountain, Tenn. He's vice president of sales for Astec Industries.

M. Blake Gibson (ANSC) is married and living in Florence. He's a technical sales representative/application process manager with Jones-Hamilton Co., agriculture division.

Bill Keller (FORMGT) and **Linda Voller** ('94 A&FIND) **Reasonover** are living in Sun Prairie, Wis. He's an inspector and evaluator for high voltage power lines, and she's a senior food scientist with Kraft Foods.

1994

Manufacturing Defense

John P. Mistretta '85

New York native John Mistretta came to Clemson in the early 1980s for a degree in mechanical engineering. He went on to the University of Dayton to earn two engineering master's degrees.

He's currently chief of the Manufacturing Technology Division within the Air Force Research Laboratory's Materials and Manufacturing Directorate, Wright-Patterson Air Force Base, Dayton, Ohio.

Mistretta oversees the management of approximately 60 government and 25 onsite contractor personnel who help execute a technical portfolio valued annually at approximately \$100 million.

He has also helped lead the Composites Affordability Initiative, a partnership agreement between the government and all aerospace prime contractors. The initiative achieved a major milestone by transitioning large integrated structures into the baseline weapon system design for the Joint Strike Fighter (F-35).

In Ohio, Mistretta led a partnership initiative between



the federal and state governments to design, manufacture and construct composite bridges, one within each of the 88 counties of the state. He's one of a few Air Force personnel selected to participate in the Defense Leadership Acquisition Management Program.

Mistretta returned to campus recently to learn about Clemson's advanced materials programs. His primary interest is Clemson's expertise in composites and nanomaterials technologies in relation to research needs of the Air Force. Clemson's interest is to be involved through its Applied Research and Development Institute in the joint Air Force/Navy Unmanned Combat Aerial Vehicle Program.

Angela Ware Clardy (ELED) is married and living in Greer.

Terry E. Manning (ENGL) is married and living in Gaffney. He's assistant news editor for *Online Greenville News*.

1995

Franklin E. Freeman (DESIGN, M '99 ARCH) of Charlotte, N.C., is a registered architect with the firm McCulloch England Associates Architects.

Clay Trippi (INED) of Atlanta, Ga., completed 16 weeks of training at the FBI Academy in Quantico, Va., and is a special agent in the FBI's Atlanta division.

1996

Julie Mullikin Beard (NURS) of Anderson is an RN in the emergency department at AnMed Health and a clinical nursing instructor at Tri-County Technical College, Pendleton.

J. Scott Brown (M APLSOC) of Pittsboro, N.C., received a Ph.D. in sociology from Duke University. He's a postdoctoral fellow at

A+ architecture

R. Todd Ray '90

Architect Todd Ray of Arlington, Va., is one of only five people to receive the American Institute of Architects' 2003 Young Architects Award for leadership in design and service to the profession of architecture.

He's a co-founder and principal of STUDIO27 Architecture in Washington, D.C. His projects have received 11 local and state design awards and have been published in a variety of newspaper and professional journal articles.

Working with the Washington Architectural Foundation Community Design Services, Ray recently led a team of architects and interns in an emergency design charette for the tornado-ravaged town of La Plata, Md.

He also promotes architecture education through volunteer work at the National Building Museum and recently founded the Intern Mentoring Program in the AIA D.C. chapter.

He's taught at Philadelphia College of Textiles and Sciences and the Catholic University of America, and has served as a guest juror at an array of colleges including the University of Pennsylvania and Syracuse University Program in Florence, Italy.



the Carolina Population Center, University of North Carolina at Chapel Hill.

Brant R. Burkhardt (M MICRO)

of Gainesville, Fla., received a Ph.D. in medical science research from the University of Florida. He's working on a post-doctoral fellowship on diabetes research.

Patricia Traywick Kinman (M SPECED) of Henry, Tenn., teaches ninth grade special education classes at Grove High School in Paris.

Andrew M. (CHE) and Kirsten Glassmoyer (BIOCH) Pearson are living in Spanish Fort, Ala. He received a Ph.D. in organic chemistry from the University of Georgia and is a chemist with Syngenta Crop Protection.

Vicki M. Percie (ELED) of Mount Pleasant was named Distinguished Reading Teacher of the Year 2002-03 for Berkeley County School District.

1997

Jason L. Hayes (MKTG) is married and living in Charlestown, Mass.

T. Randall Long (FINMGT) of Florence is working for Sonoco Products.

1998

Jennifer Goldberg Applequist (M CNLGUID) is married and living in Budd Lake, N.J.

Erica Fortier Capozzi (IE) is married and living in Seymour, Conn. She's a replenishment analyst for

Peace Corps leader

Marie Gilliland Wheat '91

Marie Wheat of Arlington, Va., has been appointed by President George W. Bush as deputy chief of staff for the United States Peace Corps. In her new capacity, she manages the press operation, congressional relations, private sector initiatives, and policy and planning for the agency. Previously she was director of the Peace Corps' Office of Congressional Relations.

In December, Wheat accompanied the director of the Peace Corps to Armenia and Jordan visiting Peace Corps volunteers at their project sites and meeting government officials who work closely with the country staff at each post. Most notable of these was His Majesty King Abdullah of Jordan, who expressed appreciation for the Peace Corps' work in Jordan and his desire to reopen the program at the appropriate time.

Before her appointment to the Peace Corps, Wheat served as chief of staff in the office of Congressman Jim DeMint. She

has extensive experience in government and on Capitol Hill and has worked as a senior staff member to the Senate Subcommittee on Oversight, the House Budget Committee and the office of Congressman Steve Largent.

Wheat was also a policy analyst at Citizens for a Sound Economy, a seminar coordinator for the Strom Thurmond Institute at Clemson and a White House press intern. She graduated magna cum laude from Clemson with a double major in economics and political



Timex Corp. in Middlebury.

Chris R. Koon (POSC) is married and living in Columbia. He's an attorney at Nelson Mullins Riley & Scarborough, L.L.P.

Lisa Cox Smith (MKTG) of Columbia is a sales consultant for Hawthorn Pharmaceuticals.

Amy Hoyer Stokes (SP& COMM) is married and living in Hamilton, N.J. She's an assistant editor for *Cruise Critic*.

1999

Brent K. Faulkner (SP& COMM) is married and living in Pensacola, Fla. He is a lieutenant junior grade in the U.S. Navy and an attorney with the Naval JAG Corps. He graduated from the University of Alabama School of Law and from the Naval Justice School in Newport, N.J.

2000

Crystal Drennon Holder (SP&COMM) is married and living in Williamston.

2001

Chris K. Binder (ACCT, M '02)

of Greenville is a staff accountant for the Greenville office of Rødl Elliott Dendorfer LLC, a CPA firm specializing in assisting foreign corporations and individuals in doing business in the United States.

2002

W. Neil Lark (PhD EDLDRS) of Townville, dean of continuing education for Tri County Technical College in Pendleton, has been named the college's outstanding administrator.

Will T. Mink (POSC) of Nashville, Tenn., is residential and commercial lending specialist with Freeman Webb Mortgage Corp.

Jay W. Ragley (ECON) of Alexandria, Va., is a legislative assistant for Congressman Gresham Barrett, 3rd Congressional District of South Carolina.



Family day

Keith P. '96 and Zoraya Roldan '95, M '00 Rockow

Civil engineer graduates Keith and Zoraya Rockow are stationed at Misawa Air Base, Japan, where Keith, a captain in the U.S. Air Force, flies F-16s. The couple is pictured on the runway during his squadron's Family Day event.

Need a good lawyer?

**Anna Crawford McMillan '96, Julianne H. Booth '97 and
Lauren Vaughan '90**

Clemson psychology graduate Anna McMillan, accounting graduate Julianne Booth and sociology graduate Lauren Vaughan celebrated another degree last year. They all earned law degrees from Campbell University's Norman Adrian Wiggins School of Law in Buies Creek, N.C.



McMillan now practices in Cornelius, N.C.; Booth is with Howard, Stallings, From & Hutson P.A. in Raleigh; and Vaughan is with the Caldwell County Department of Social Services in Lenoir.



We love to get your photos, and we use them in the magazine or in the Alumni Web site photo album when possible. With electronic photos, we need to be able to reproduce images at a resolution of at least 300 dpi. With regular photos, sharply focused, glossy prints work best. Although we try to return prints when specifically asked, we can't guarantee return so be sure to hang on to the negative or have extra prints made.

'Laughs for Lupus'

Ferranté S. Johnson '00

Clemson alumnus and graduate student Ferranté Johnson knows that the disease lupus is no laughing matter. That's why he came up with Laughs for Lupus, a program to raise awareness of and money for lupus research.



A native of Honea Path, Johnson lost his mother to lupus when he was 15. Eleven years later, Johnson has raised nearly \$10,000, which he plans to donate in his mother's name to the Medical University of South Carolina for research into the prevalence of lupus among African Americans.

A history major, Johnson first became involved in community service through his fraternity Kappa Alpha

Psi at Clemson. He continued as a graduate assistant setting up community service projects for student athletes. He found the Web site for the S.C. chapter of the Lupus Foundation of America and decided to go to a meeting. He now sits on the board of directors.

Johnson kicked off Laughs for Lupus in the fall of 2002 with a College Night at Simone's, his father's restaurant in Anderson. Next came a fund-raiser on campus in which students, faculty and staff could pay for a chance to dunk local "celebrities" including President Jim Barker. The alumni chapters of Alpha Kappa Alpha sorority and Kappa Alpha Psi also raised donations through a Greek challenge.

Johnson credits Clemson graduate students Venesa Ruiz and Hassan Pressley, his brother Antonio along with Kappa Alpha Psi fraternity and Zeta Phi Beta sorority as essential partners in his effort. The Uptown Sushi Café in Clemson and members of the National Society for Black Engineers have also helped.

More fund-raising efforts are in the works including sushi socials, events at Simone's, a

Palmetto Farm Credit ACA is a co-operative lender for agriculture and rural South Carolina with branch offices across the state. It also has quite a staff of Clemson alumni.

Pictured from top left are Allen Buckner M '98, Tripp Kemp '02, Gene McCutchen '86, Gregg Miller '73, Gary Alexander '78, Owen Smith '78, Will Peeler '98, Lisa Smith Peden '83, Dell Padgett Murdaugh '90, John Nettles '74, Steve Wood '74, M '92 (chief credit officer), Eddie Shealy '76, Al Baldwin '86, Tom Sawyer '70, Thomas H. Coward '64, Ronnie Summers '81, Lynn Dantzler '71 (chief executive officer), John Livingston '69, Sammy Fogle '81, M '82, Johnny Peden '83, Beverly Martin Davis-Burns '88, M '94, Alisa Duke Gunter '80, M '92 (chief financial officer), Karen McCain Baxley '79, Virginia Carlton Kemp '01, David



Work From Home!!!

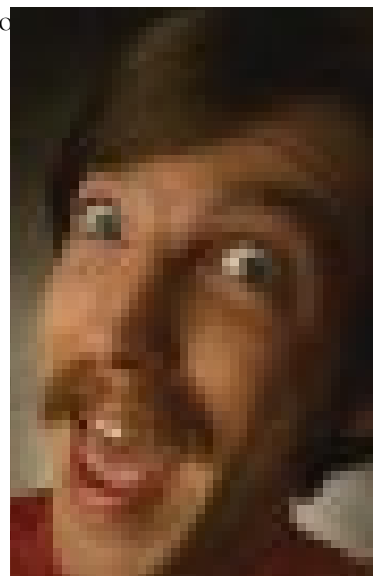
Up to \$8,500/Month, Free Vacations, Early Retirement

Too good to be true? Probably. The number of work-at-home scam complaints to

Alumni Career Services offers these tips for job seekers exploring work-at-home opportunities:

- **NEVER** provide money up front.
- **DON'T** believe that you will easily make huge profits.
- **BE WARY** of unsolicited email offerings for work-at-home dollars.
- **GET REFERENCES** from other people doing the work.
- **UNDERSTAND** the refund policy.

For more information related to your career search, contact Tenneil Moody at (864) 656-2345, by email at acs~L@clemson.edu or on the Web at alumni.clemson.edu.



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Little Tigers

Tyrus R. '79 and Linda Pickens '84 Cobb, a daughter, Rebecca Lynn, June 8, 2002.

Karen Moore Taylor '81, a son, Richard Scott, Dec. 12, 2001.

Elaine James Lane '82, adopted a daughter, Elizabeth, born June 12, 2002.

Carlotta Westbury and Robert R. Norris '83, a son, Robert Ramsey Rhode, Nov. 12, 2002.

Barbara Kirwan Ward '83, a son, Grady, July 5, 2002.

Mary Ann Martin Christensen '84, a daughter, Kellen Camille, May 29, 2001.

Sherri A. Teague '84, adopted a daughter from Hanoi, Vietnam, on Nov. 17, 2002, Meredith Nhai, born July 20, 2002.

Andrea Brewer '87 and Patrick

'89 Leonard, a son, Andrew Patrick, Feb. 26, 2002.

Layna Henson Clester '89, a son, Jackson Rainier, Sept. 20, 2002.

Brent D. '89 and Kate Knox '91 Masters, a son, Bryson Dean, Aug. 3, 2002.

Julie Herring Roberts '89, a son, Adam Lee, Nov. 7, 2002.

Alan W. Smith '89, a son, Cason Jonathan, Nov. 9, 2002.

Cathy Lewis Thomason '89, a daughter, Sarah Louise, Feb. 12, 2002.

Scott D. Brannan '90, a son, Nicholas Scott, Feb. 16, 2002.

Sherri Blancett '90 and Jon S. '91 McCall, a son, Jonathan Elias, Nov. 4, 2002.

Brian Alan '90 and Erica Johnson '91 Sanders, a son, Patrick Brian,

Dec. 5, 2002.

Melissa Capell Schramkowski '90, twin sons, Andrew Thomas and Matthew Lawrence, Dec. 19, 2002.

Tammy Smith Wood '90, a son, Arthur Dodson IV, March 22, 2002.

Joey W. Albert '91, a daughter, Margaret Couric, Aug. 15, 2002.

Mary Obney and Robert A. Freihofer '91, a daughter, Allison Nicole, Nov. 5, 2002.

Beverly Meetze '91 and John E. '92 Hollowell, a son, Jeremy Christian, Oct. 18, 2002.

Serena Malin McDaniel '91, a son, Riley Malin, Aug. 27, 2002.

Amy Arthur and Maynard V. III Schaible '91, a son, William Maynard, Nov. 16, 2002.

John M. Sherrer '91, M '93, a son, Nicholas Gramling, Oct. 8, 2002.

Lara Hamann Wannemacher '91, triplets, Emily Ruth, McGarry Frank and Owen Christopher, Nov. 13, 2002.

Brian Lee '92 and Stephanie Lewis '95 Beer, a daughter, Emory Ann, Sept. 8, 2002.

Robin Prescott Berkey '92, a son, William Thomas, June 7, 2002.

Alicia Wilson and C. David Breakfield '92, a daughter, Samantha Rose, July 16, 2002.

Noel Mathey Geoffroy '92, a son, Nicolas, June 30, 2001.

Jean Cantey Kiser '92, a son, Kasey Ryan, Sept. 14, 2002.

Jenny Williams Ward '92, a daughter, Madeline Witt, Oct. 8, 2002.

Colleen DeLand and Rick S. Wernoski '92, a daughter, Riley Elizabeth, May 23, 2002.

M. Chad Abramson '93, a son, Andrew Lawton, Dec. 13, 2002.

David L. and Michelle Bridges Bliss '93, twin sons, Jonathan and Kurt, Aug. 15, 2001.

Bridget Welsh Christian '93, a son, Austin Edward, June 6, 2002. **Edward "J.R." '93 and Eliza Pender '94 Foster**, a son, Blake Edward, Oct. 19, 2002.

Carla Jahelka Pisano '93, a daughter, Paige Olivia, July 3, 2002.

Tammy Murray Smith '93, a son, Dalton Keith, March 12, 2002.

John E. and Tracey Pardue Balderson '94, a son, John Eric Jr., Oct. 11, 2001.

Steven C. Braun '94, a son, Joshua Daniel, May 20, 2002.

Greg L. Burk '94, a daughter, Brenna Sophia, Aug. 14, 2002.

Amy Pearson Etheridge '94, a son, John Pearson, Nov. 1, 2001.

Virginia Greenwell Baumann '95, a son, Caleb William, July 24, 2002.

Aimee St. Louis Cupp '95, a daughter, Isabella Cecile, Jan. 6, 2003.

Robin Brown Harbaugh '95, a daughter, Shelby Elizabeth, Aug. 24, 2002.

Stephanie Bouvette Webb '95, twins, Ella Danielle and John Hayne, Sept. 23, 2002.

Becky Hall '96 and Anson A. '97 Merrick, a son, Anson Angus V, Nov. 18, 2002.

April Carter Nolan '96, a son, Garrett Thomas, June 22, 2002.

Bradley D. and Tonya McClain Stancil '96, a son, Douglas McClain, Oct. 31, 2002.

Joel A. and Katie Simmons Dutton '97, a daughter, Callie Elizabeth, March 20, 2002.

Jeffrey Michael and Kathryn Trawick Hendrix '97, a son, Stephen Michael, April 22, 2002.

T. Randall Long '97, a son, Evan Reece, May 27, 2002.

Scott P. Taylor '98, a daughter, McKenzie Lane, Aug. 31, 2002.

Michelle Stanley '98, M '99 and P. Scott '99 Tortora, a daughter, Emily Nicole, Nov. 12, 2002.

Heather Villeponteaux Ulmer '98, a son, Hayes, April 12, 2002.

Passings

William S. Drake '30,
Honea Path

William B. Thomson '33,
Abbeville

Wyburn C. Dozier '34, Marion

Frank B. Schirmer '34, Charles-
ton

John M. Mahon '36,
Calhoun Falls

Eugene W. Rochester '38, Salem

William W. Rush '38, Camden

Frank M. Fleming '39, Lanford

Alfred Hawkins '41,
Cliffside, N.C.

James H. Barton '42, Anderson

Robert F. Drennan '42,
Rock Hill

Lake H. Jameson '42, Easley

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

Ralph N. Moore '42, Calhoun

Thomas M. Parker '42, Sumter

Charles H. Von Hollen Jr. '42,
Greenville

J. Edward Kellett '43,
Fountain Inn

Jonathan H. Carpenter Jr. '44,
Rutherfordton, N.C.

William P. Martin '44, Columbia

Wesley M. Pitts Sr. '44, Camden

Joseph B. Rhame '44, Sumter

Julius R. Earle '49, Walhalla

William R. Swearingen '49,
Greenwood

Robert B. Culp '50,
Waxhaw, N.C.

George M. Barrett '51,
Atlanta, Ga.

Carroll R. Cox '51, Camden

H. Wallace Reid '51, Piedmont

Duncan D. McGregor '52,
Chesterfield

Chauncey D. Smith Jr. '55,
Spartanburg

Raymond H. Cleveland '56,
Seneca

Virgil S. Dominick '56,
Rock Hill

Valmore J. Forgett Jr. '56,
Teaneck, N.J.

Albert H. Marshall '56, Heath
Springs

Marshall O. "Buddy" Welch '56,
Ehrhardt

John F. Scurry Jr. '58, Chappells

James P. Barnes '60, Florence

Robert P. Rogers '61, Blackville

Parker H. Humphreys '63, Due
West

Charles R. "Chuck"
Gregory '69, Waterloo

Lynn Wright Bolt '71, Columbia

Robert E. "T-Bone" Moore Jr.
'72, Hartsville

Robert W. Thompson Jr. '73,
Dundalk, Md.

Elizabeth Minty Hair '79, Easley

Linda Annette Vance '79,
Greenville

William J. Wolff Jr. '86, Wilm-
ington, N.C.

Jama McDonald Hollingsworth
'88, Knoxville, Tenn.

James M. Waddell Jr. HD '83,
of Beaufort, Clemson trustee
emeritus from 1972 to 1989 and
leading figure in the S.C. State
House for more than 35 years

Sreenivasa Reddy Badam
and Ganeshram Sreenivasan,
graduate students from India,
died in an airplane crash at the
Charlotte-Douglas International
Airport in January 2003.

SPRING 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 whop-pin' 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.

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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.

Alumni National Council District Slate for 2003-2007

All candidates listed below are active alumni of Clemson and were duly nominated and endorsed by the Alumni National Council, the Alumni Association's governing body.

Candidates will be elected unless they are contested by 25 or more write-in nominations (for the same candidate) by active alumni in the candidate's district.

In case of a contested district election, a newly designed ballot will be sent to each active alumnus in that district. A simple majority vote, made in accordance with the ballot's instructions, will elect the person to fill the vacant seat.

All uncontested nominees will be considered elected within one month of the mail-

District 2 — E. Grant Burns '88

Grant, a political science alumnus and former Clemson student body president, is law partner with Nexsen Pruet Jacobs & Pollard LLC in Greenville.

He's a former president of the Greenville Clemson Club and an emeritus member of the club's board of directors. He's also a member of the Clemson Alumni Lawyers Society and has attended Leadership Clemson.

He has been a continuous Clemson Fund and IPTAY supporter since graduation and remains active in Tiger Brotherhood.

Within his community, Grant is a former president of the Greenville Young Lawyers Association and is currently president-elect of the Greenville County Bar Association. He does volunteer work with Habitat for Humanity and is an elder at John Knox Presbyterian Church.

District 2 covers Greenville County.



District 6 — Leslie Dunlap Callison '81

Leslie, an administrative management graduate and a former Tiger Twirler, is in the marketing department of Southern Anesthesia & Surgical Inc. in West Columbia.



Leslie, who also holds an MBA, was a member of Clemson Women's Alumni Council from 1995 to 2001 and served on its executive committee from 1998 to

2001. She's been an IPTAY member since graduation. She's also a Second Century Club member and a supporter of the Dunlap Family Endowed Scholarship.

In her community, Leslie served on the board of EdVenture Children's Museum from 1995 to 2002 and is an active member of Saxe Gotha Presbyterian Church. She's a former treasurer of Lexington Middle School Partners for Education.

District 6 covers Lexington and Richland counties.

District 10 — Andy R. Thomas '88

Andy, a history graduate, is director of the student support services program at USC Salkehatchie in Allendale, which serves first-generation, low-income and disabled college students.

He served as director of the Hampton County Literacy Council from 1991 to 1995. He earned a master's degree in history from Winthrop in 1997.

Andy is president of the Coosawhatchie Clemson Club, which represents Allendale and Hampton counties. He's also president of the Hampton County Historical Society.

District 10 covers Allendale, Beaufort, Colleton, Dorchester, Hampton and Jasper counties.



District 14 — Ben A. Leppard Jr. '74

Ben, a mechanical engineer graduate, is principal and co-owner of Leppard Johnson and Assoc. in Marietta, Ga. He's a third generation Clemson man, whose grandfather was a trustee and whose father finished the board term upon his grandfather's death.

His service to Clemson includes being on

the Atlanta Clemson Club board of directors for seven years, serving as president of the club for the 1992-1993 term and attending Leadership Clemson.

A longtime IPTAY member, he has served as a representative for eight years. An active Clemson Fund supporter, Ben served on the engineering innovation committee during the University's last capital campaign.

He's the past president of the Atlanta chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers and currently serves on its regional staff and several society committees. In his church, he's been a deacon and teacher.

District 14 includes the northwest Georgia area represented by ZIP codes beginning with 300, 301, 302, 303, 305 and 307.



District 18 — Richard A. Pederson '68

Richard, an English graduate, is president and co-founder of Applied Solutions Inc., an information systems consulting firm in Fairfax, Va. He also holds a master's degree in information systems.

He's served, in a volunteer capacity, as an officer for The Professional Group, a not-for-profit organization that helps senior professionals find salaried and volunteer positions within industry. He has also worked with many community organizations including Little League and Boy Scouts of America.

Richard has served as alumni class leader for the Class of 1968 and on the board of directors for the Baltimore-Washington Clemson Club. He's also a longtime member of IPTAY.

District 18 covers the mid-Atlantic area including the District of Columbia, Delaware, Maryland and Virginia.



Hey, South Carolina!

Clemson needs your help more than ever!

You know about Clemson's vision to be one of the nation's top-20 public universities and our goal to reach 26 percent alumni participation in the Clemson Fund by June 30, 2003.

But you may not know how much your county is participating.



COUNTIES	NO. OF ALUMNI	NO. OF DONORS	PERCENTAGE (AS OF 2/17/03)	ADDITIONAL DONORS NEEDED TO REACH 26%
Abbeville	321	22	6.9%	61
Aiken	1,200	165	13.8%	147
Allendale	58	3	5.2%	12
Anderson	4,386	327	7.5%	813
Bamberg	92	12	13.0%	12
Barnwell	171	19	11.1%	25
Beaufort	639	56	8.8%	110
Berkeley	551	41	7.4%	102
Calhoun	175	32	18.3%	14
Charleston	3,521	401	11.4%	514
Cherokee	323	36	11.1%	48
Chester	192	26	13.5%	24
Chesterfield	208	25	12.0%	29
Clarendon	182	20	11.0%	27
Colleton	249	35	14.1%	30
Darlington	456	73	16.0%	46
Dillon	164	20	12.2%	23
Dorchester	758	81	10.7%	116
Edgefield	188	23	12.2%	26
Fairfield	120	22	18.3%	9
Florence	1,008	118	11.7%	144
Georgetown	455	45	9.9%	73
Greenville	9,966	929	9.3%	1,662
Greenwood	1,122	131	11.7%	161
Hampton	135	18	13.3%	17
Horry	862	92	10.7%	132
Jasper	41	4	9.8%	7
Kershaw	411	45	10.9%	62
Lancaster	311	35	11.3%	46
Laurens	609	58	9.5%	100
Lee	107	17	15.9%	11
Lexington	2,377	318	13.4%	300
Marion	178	26	14.6%	20
Marlboro	100	14	14.0%	12
McCormick	59	8	13.6%	7
Newberry	460	57	12.4%	63
Oconee	2,467	227	9.2%	414
Orangeburg	648	87	13.4%	81
Pickens	5,457	735	13.5%	684
Richland	2,964	386	13.0%	385
Saluda	175	19	10.9%	27
Spartanburg	2,722	266	9.8%	442
Sumter	612	76	12.4%	83
Union	156	19	12.2%	22
Williamsburg	160	11	6.9%	31
York	1,698	278	16.4%	163

Because over half of Clemson alumni live in South Carolina, each county really adds up. See what it will take to reach 26 percent in the next few months. It isn't the size of your gift that's important; it's that you make a gift every year.

Use the enclosed envelope or make a secure online gift to the Clemson Fund at www.clemson.edu/isupportcu to support Clemson and help your county reach a higher level of participation. To check your giving record, call (864) 656-5896 or email annsm@clermson.edu.

News



Harvey Gantt

From Jet to White House Bulletin

Clemson's 40th anniversary of integration, honoring Clemson's first African American student Harvey Gantt '66, and the University's national conference on diversity caught the attention of national media earlier this year.

The University's National Conference on Best Practices in Black Student Achievement attracted more than 200 higher education officials from across the country to offer and receive expertise in preparation, retention, mentoring and other programs aimed at improving black student achievement.

Clemson is a leader in developing programs that help exceed the national average in retention and graduation rates for African American students.

Jet, *Chronicle of Higher Education*, *News Observer*, *Sarasota Herald Tribune*, *Associated Press*, *Cox New Services*, *The White House Bulletin* and others included Gantt's history-making decision in their coverage.

Understanding 'war'

Clemson history professor Edwin Moïse, an acclaimed Vietnam specialist, is a frequent resource for national media trying to get a better understanding of the current war.

In March, he was interviewed by "MTV News" on what defines war, and by *The Globe and Mail* on the media's influence on war. *La Opinion*, the nation's leading Spanish language newspaper based in Los Angeles, Calif., has used Moïse as a source on international law and the treatment of POWs.



Edwin Moïse in Tiananmen Square, Beijing, July 2002

National Award for Heroism

Clemson alumnus Dale McElhattan Jr. '85 (right) received the National Award for Heroism from the Federal Law Enforcement Officers Association earlier this year.

McElhattan is a diplomatic security agent with the U.S. Department of State currently assigned to the Protective Operation of President Hamid Karzai in Afghanistan. Prior to that he was regional security officer in Jerusalem (1999-2002) and Singapore (1993-1996). He has also served at U.S. embassies in Beijing and Moscow.

He and fellow agents Kirby Rosenbluth and Jon Davidson (pictured from left with McElhattan) were originally nominated for the Bravery Award for courageous performance in the



evacuation of American citizens and other foreign nationals trapped in Palestinian territories in March and April 2002.

After the awards committee reviewed the nomination, they determined that the three agents deserved the National Award for Heroism, the Federal Law Enforcement Officers' highest honor.

McElhattan's wife, Maureen Valk, also a 1985 Clemson graduate, is a senior adjudicator with Aegis Research Corp. of McLean, Va. They have three sons, all "future Clemson student athletes."

A bug's life

Science magazine (Jan. 24, 2003) features the breakthrough research of Clemson biological scientist Richard Blob along with scientists from the Field Museum and Argonne National Laboratory in Chicago.

Their discovery is that some insect species take in oxygen similar to the way that we humans fill our lungs. The discovery could revolutionize the field of insect physiology.

"As we come to understand the basic physiology of animal respiration and circulation through research such as this project," says Blob, "we have the potential to make further discoveries that can ultimately improve our ability to treat disease in humans."

Until now, it has not been possible to see movement inside living insects. Researchers solved the problem by using a synchrotron, a circular particle accelerator that can generate X-rays. The one at Argonne National Laboratory ranks among the most powerful in the world. This research was the first time scientists applied this technology to create X-ray videos of living animals.





'60 Minutes II'

Chief U.S. District Judge Joseph F. Anderson Jr. '72 (left) sat down with Dan Rather for an interview in January for "60 Minutes II" and CBSNEWS.com.

Anderson was asked about a new local rule adopted in the federal district court in South Carolina to prohibit court-ordered secrecy agreements associated with the settlement of civil cases. Judge Anderson drafted the new rule and convinced his court colleagues to adopt it.

The District of South Carolina is the first in the country to adopt such a rule to end the practice in which judges order that information be kept secret in cases where public safety might be affected.

Judge Anderson was appointed a U.S. district judge by President Ronald Reagan in 1986 and became a chief judge in 2000. Also serving on the court that adopted the rule is Clemson alumnus U.S. District Judge Henry M. Herlong Jr. '68.

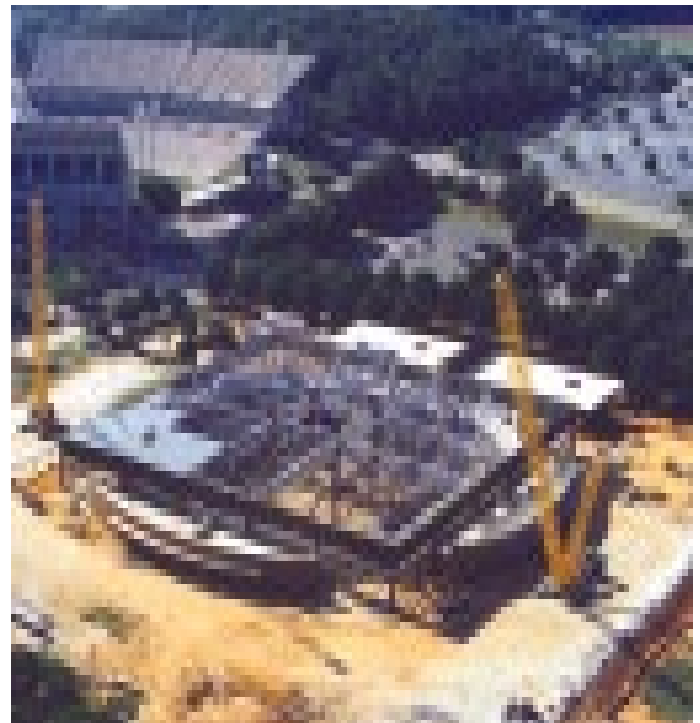
Tissue 'printing'

News of Clemson researcher Thomas Boland's "printed" living tissue has hit the international press. It's been covered in *New Scientist*, *Better Humans*, *Health Newswire Consumer* and London's *Evening Standard*.

Instead of using a degradable scaffold and covering it with cells to produce tissue, scientists Boland of Clemson and Vladimir Mironov of the Medical University of South Carolina are modifying ink jet printers and using cells to create 3D structures.

According to *New Scientist* (Jan. 22, 2003), "The work is a first step toward printing complex tissues or even entire organs."

See page 4 in this issue of *Clemson World* for more on organ printing.



Wild wind

The March 20, 2003, issue of *Nature* carries preliminary findings from research that could impact the way that scientists evaluate hurricanes.

The study, co-authored by Clemson wind engineer Tim Reinhold, focuses on the impact of extreme winds on the ocean. If the findings are borne out, the study could change the way scientists assess hurricane risk and the way researchers predict storm motion, intensity, waves and storm surges.

Lead author is Mark D. Powell with the National Oceanic and Atmospheric Administration. He's an atmospheric scientist in the Atlantic Oceanographic and Meteorological Laboratory's Hurricane Research Division. Another co-author is Peter Vickery of the University of Western Ontario.

See page 6 in this issue of *Clemson World* for more on wind research.

'Home Court Advantage'

The renovation of Clemson's Littlejohn Coliseum made the cover of *Modern Steel Construction* (January 2003), published by the American Institute of Steel Construction in Chicago.

The feature covers the coliseum's unexpected roof problems, its need for replacement and the teamwork that provided a high-speed solution.

For the complete story, go to the magazine's Web site at www.modernsteel.com, click on back issues and choose January 2003.

Commitment

Barnes Estate gift for education

The desire to honor two Clemson alumni along with the wisdom to do so through estate planning will help Clemson students for years to come.

The late Christine Dance Barnes honored the memory of her late husband, Frank '35, and nephew George Bruner M '51 by establishing an endowment in their names through an estate gift of \$200,000.

The William Franklin Barnes and George Evans Bruner III Endowment will provide fellowships for graduate students and scholarships for undergraduate students. For scholarships, financial need will be considered when other factors are equal.

For more information on estate planning, contact JoVanna King, Planned Giving, 110 Daniel Drive, Clemson SC 29631-1520. Or call (864) 656-0663 or toll free at (800) 699-9153.



Star power

A \$50,000 gift from the Seneca-based Curry Foundation is giving Clemson a better look into outer space. The gift provided startup funds for astronomer and observer Jeremy King, a professor from the University of Nevada, to join Clemson's physics and astronomy department earlier this year.

The Curry Foundation, led by board chairman Charles E. Curry, has supported the University for the past three years by paying the \$10,000 annual membership dues for the Southeastern Association for Research in Astronomy. Those dues permit undergraduates to have direct access to a telescope at Kitt Peak in Arizona.



Plowden Family Scholars

Benefactor Irvin Plowden Sr. '57 met some of the many Clemson students benefiting from his generosity during a luncheon last semester.

In 2000, Irvin and his wife, Jean, established a \$500,000 scholarship endowment at Clemson and a \$500,000 scholarship endowment at Winthrop, Mrs. Plowden's alma mater, for need-based scholarships. At Clemson, first preference is given to York County residents. At Winthrop, the scholarships benefit education majors.

Pictured here with several Clemson Plowden Scholars are Marcia Barker, the University's first lady (second row, far right); benefactor Irvin Plowden Sr. (third row, far right); and Irvin Plowden Jr. '82 (back row, far right). The Plowdens' other son, Daniel, is a 1993 Clemson graduate, and their daughter, Amy, is a Winthrop graduate.

In Jennifer's memory

The family and friends of the late Jennifer L. Farrell are honoring her time as a Clemson student by helping others from her high school get a Clemson education.

Shortly after Jennifer's death in an automobile accident in 2001, her parents, Walt W. '76 and Carol Crowther '75 Farrell, started raising funds to help other students from McEachern High School in Marietta, Ga., attend Clemson.

Earlier this year the Jennifer L. Farrell Memorial Endowed Scholarship fund named its first two awards of \$1,000 each for graduates attending Clemson. Pictured from left are McEachern High School principal Tommy Farr; scholarship recipient and Jennifer's brother Walt Farrell Jr.; Jennifer's parents, Carol and Walt; scholarship recipient Jennifer Hancock; and Marcia and Jim Barker.

If you would like to support the scholarship, you can send a contribution in the enclosed envelope and designate it to the Farrell Memorial Endowed Scholarship Fund or contact Ann Smith, Annual Giving, at (864) 656-5896.



Dear Gift Club Members,

Private giving has been an essential part of Clemson's makeup since Thomas Green Clemson signed his will on November 6, 1886, bequeathing his estate to establish "a high seminary of learning" in South Carolina. Private giving provides the margin for excellence and the momentum to embrace new initiatives, programs and directions.

Many benefactors within the Clemson family have provided the resources instrumental to building a record of accomplishment in education, research and public service. In recent months, we have announced major pledges and commitments of private support that, over time, will help Clemson achieve its vision of becoming one of the nation's top-20 public universities.

With this compelling vision and with generous private support, Clemson is moving ahead, even while experiencing its most challenging budget environment in decades. More than \$31.5 million in state funding has been eliminated in the past two years alone, and double-digit budget cuts are expected again this July. In 1999, the state funded more than 40 percent of the University's operating budget. Today, it funds 29.3 percent of the fiscal year 2003 budget.

At the same time, individually and as an institution, we're all feeling the effects of the stock market's downward spiral. This has reduced the University endowment and the income generated from the endowment for University programs.

All of these factors make the annual support provided by members of Clemson's Major Gift Clubs more important than ever before. Those annual gifts help maintain the quality of our students' academic experience, which is the University's highest priority.

As of March 2003, nearly one-third of the previous Major Gift Club members had not yet made an annual gift for 2002-03. Because the fiscal year (July to June) differs from the calendar year, some benefactors may not realize that their most recent gift counted in the previous fiscal year. For example, a \$2,500 gift in June 2002 would have been counted during the 2001-02 fiscal year, not the current fiscal year. To be an active Major Gift Club member, you must make a gift by June 30, 2003.

Other Major Gift Club members may not have made their 2002-03 donations because of the weakened economy. However, with a \$1,000 gift before June 30, you become an active Major Gift Club member.

For Clemson to have the best faculty; the brightest students; bold, meaningful research that unlocks doors for new opportunity; and a campus that we all cherish and celebrate, Clemson must have adequate funding. Private gifts like yours are more critical than ever to Clemson's future. Your investment today will pay off for generations to come. Thank you for your commitment to Clemson.

Go Tigers!

Mendal A. Bouknight '74
Chief Development Officer

P.S. If you're not sure that you've made your gift for the current fiscal year, you can check your record by contacting Louise Hopkins at lhopkin@clermson.edu or (864) 656-3612 or Sandy Murray at murrays@clermson.edu or (864) 656-4247.

Major Gift Societies and Clubs

Cumulative Gift Societies

Society	Lifetime Cumulative Contribution
Centum II Society	\$10,000,000 or more
Trustee Oak Society	\$5,000,000-\$9,999,999
Thomas Green Clemson Society	\$1,000,000-\$4,999,999
John C. Calhoun Society	\$500,000-\$999,999
Richard W. Simpson Society	\$250,000-\$499,999
Benjamin Ryan Tillman Society	\$100,000-\$249,999
Benefactors of 1889	\$50,000 or more

Legacy Societies

Clemson Legacy Society includes donors who document that they have remembered Clemson in their wills or through other forms of estate planning.

Fort Hill Legacy honors bequests or testamentary trusts of \$1 million or more when the University receives them.

Major Gift Clubs

Club	Annual Contribution
Heritage Partners	\$25,000 or more
The Founders	\$10,000-\$24,999
Clemson Fellows	\$5,000-\$9,999
Clemson Ambassadors	\$2,500-\$4,999
Presidents Club	\$1,000-\$2,499

Taps

Birth of Optical Fiber

A drop of glass is pulled out of a furnace at 2200 C (4000 F), starting the transition from large rod to hair-thin fiber. Inset: John Ballato, director of Clemson's Center for Optical Materials Science and Engineering Technologies.

Clemson is a leader in the only Southeastern partnership that joins a research university with a coalition of technical schools for work force development in optical technologies — critical in the knowledge-based economic development of South Carolina and beyond.

