Features Summer 2004
Vol. 57, No. 3

Centered on Student Success
See what Clemson is doing to help students make the most of their college investment.

The Future of Our Past
The sacred ground of Cemetery Hill deserves the attention of the living.

Clemson Jewel
You’ll find this “jewel” in Clemson’s advanced materials treasure chest.

It’s Not About the Screen
See how Clemson professors are using laptops to enhance teaching.

Saving Tigers
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Helping the People of South Carolina
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Coach Bowden at the Rock, photo by Jim Graham ’78
Cover photo by Dave Lewis
Earlier this summer, I took a two-day trip to Germany, visiting two cities and meeting with hundreds of people in 48 hours. It’s not a schedule I would recommend, but it was time well spent — for Clemson University and for the economic future of South Carolina.

I visited Germany as part of a major trade mission sponsored by Upstate Alliance, a collaborative economic development partnership. Our purpose was to encourage European business and government leaders to develop trade partnerships with state industries or physically locate a firm in our region. The Clemson team focused on technology-oriented industries related to our research strengths and emphasis areas, including automotive, biotechnology and advanced materials.

The trip is another indication of Clemson’s increasing role as a driver of economic development. Within the past academic year, we’ve launched three major initiatives that will have significant economic impact.

In October 2003, we announced plans to invest $70 million over five years in advanced materials research at the Clemson Research Park, just off I-85 in Anderson County. The $21 million facility at the Clemson Research Park, including a state-of-the-art laboratory, will be occupied this fall. This economic development initiative could make the Upstate a magnet for advanced materials-related industries, particularly in the emerging area of photonics.

In November 2003, we broke ground for the Clemson University International Center for Automotive Research in Greenville, a 400-acre campus that will be the interface of a leading academic/research graduate program and a commercially viable private research park. The project already has generated more than $114 million in public and private funding commitments.

In April 2004, we dedicated the $27 million Biosystems Research Complex, our newest campus laboratory facility. The complex serves as a focal point for biotechnology research, a growing field that uses life sciences — biology, genomics, biochemistry and bioengineering — to create new products and processes in medicine, agriculture and industry.

Increasingly, state and local leaders are recognizing that the state’s research universities can help build a knowledge-based economy and create high-paying jobs.

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Such a role is second nature to Clemson because of our heritage. Thomas Green Clemson founded this institution to help pull South Carolina out of the financial ruins of war; accordingly, economic development has been part of our mission since day one.

Our research and Extension activities helped create a thriving agricultural economy, and we later played a similar role in the growth of the textiles, ceramics and chemical industries.

This role is also consistent with our drive to be one of the nation’s top-20 public universities. In addition to attracting top-quality faculty and students, and providing unmatched educational programs, top-20 universities tend to be significant forces for economic prosperity.

Top-ranked universities are more likely to attract high-technology, knowledge-based industry to a state. According to a report from the Milken Institute, the nation’s top-10 high-tech metropolitan areas are all home to or near a top-ranked university.

Top-tier universities also generate more spinoff companies, most of which locate in the uni-
University's home state, creating jobs for local citizens. Furthermore, statistics show that people who live in states with top-tier universities earn more money, have a better quality of life and are more educated. According to the U.S. Commerce Department, none of the nation's lowest ranking states in per capita income are home to top-tier universities, while nine of the states ranking in the top 10 in per capita income claim a highly ranked university.

A brief comparison of South Carolina and Georgia (a state with two top-20 public institutions) clearly bears this out. During the decade of the 1990s, a period of significant growth, Georgia consistently bested South Carolina in virtually every indicator of economic success. The following chart compares how each state ranked among the 50 states.

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I'm encouraged, however, by how much progress we have made in a short time, even in the face of significant state funding cuts. It has been time well spent for the S.C. economy.

If we remain committed to our vision of becoming one of the nation's top-20 public universities, those figures should look much more equitable at the end of the next decade.
Stopping breast cancer

CLEMSON SCIENTIST WEN Y. CHEN’S promising research to stop breast cancer development has earned the support of the prestigious Susan G. Komen Breast Cancer Foundation.

Chen, a biological sciences professor and assistant director of the Oncology Research Institute of Greenville Hospital System, is the first S.C. scientist to receive funding from the esteemed foundation in Dallas. He will use the $250,000 grant to further his research on stopping breast cancer cells from developing.

Over the past five years, Chen and associates have focused on developing a potential treatment for breast cancer. “With this grant,” he says, “we can move ahead on testing whether the approach will significantly improve the existing treatment in an aggressive subtype of breast cancer.”

Chen’s research involves working on a counter-agent to prolactin, a hormone normally produced in the brain and mainly responsible for mammary gland development and milk production, but possibly involved in breast cancer development.

Go Tigers!

THE CLEMSON 2003-2004 WOMEN’S TENNIS TEAM completed its most successful year in University history.

The team captured the Atlantic Coast Conference regular season title and won the ACC tournament. The team then reached the “final four” in NCAA tournament play, making it the first of any Clemson women’s teams to reach the national semifinals.

Clemson’s Julie Coin, a mathematical sciences major, reached the semifinals of the NCAA Singles Tournament and earned All-America honors in singles for the season. She was one of four nominees for the 2004 Collegiate Women Sports Award. The team’s final ranking was fifth in the nation according to the Inter-collegiate Tennis Association poll released in June.

Pictured top row, from left, are assistant coach Sylvain Malroux, athletic trainer Julie Goodwin, student athletes Julie Coin, Ioana Paun, Silvia Gutierrez, Maria Brito and Daniela Alvarez with student coach Laurence Jayet and head coach Nancy Harris. Beside the trophy are student athletes Alix Lacelarie (left) and Richele LeSald.
Goldwater winners

Four Clemson students earned the 2004 Barry M. Goldwater Scholarship for Excellence in Science, Mathematics and Engineering, tying for most in the nation with Stanford, MIT, Yale, Princeton, Harvard and Virginia.

These Calhoun Honors College students are, from left, physics major Will Sams from Anderson, electrical engineering major Vijay Ullal from Mount Pleasant, computer engineering major Jeffrey Young from North Augusta and mechanical engineering major Matthew Williams from Batesburg-Leesville.

One goal of Clemson’s honors college is to attract and keep the best students in South Carolina. All four of Clemson’s latest Goldwater Scholars are from the state. In fact, of the 12 Clemson students who’ve won Goldwater Scholarships since 1992, 10 of those have been South Carolinians.

These students are also Dixon Fellows, members of a unique community dedicated to intellectual, cultural and personal growth. The program enhances students’ ability to compete for international fellowships and for admission to top-level graduate and professional schools.

For more about the Calhoun Honors College, visit the Web at www.clemson.edu/cuhonors or email cuhonors-l@clemson.edu.

Great minds

Clemson physics professor Murray S. Daw has been elected a Fellow of the American Academy of Arts and Sciences. Daw shares the distinction with some of the world’s most influential minds, including Benjamin Franklin, Albert Einstein and Winston Churchill. The academy has 150 Nobel laureates and 50 Pulitzer Prize winners among its 4,500 members.

Earlier this year, Daw was named to the Bowen Endowed Chair of Physics at Clemson. He uses theoretical physics to understand what makes metals strong and to suggest ways to make them stronger.

His work, funded by NASA, the Department of Energy and the National Science Foundation, could lead to new metal alloys capable of enduring extreme stress and temperatures. Applications of his work include components of power-generating turbines and future generations of space vehicles.

Driving the future

Clemson was awarded $8 million in state funds in April to support two new faculty positions whose research will drive economic development.

The funding was approved by the Research Centers of Economic Excellence Review Board and must be matched with nonstate funds raised by Clemson. The program is funded through revenues from the S.C. Education Lottery.

The $8 million will fund faculty positions in automotive engineering and advanced materials, two emphasis areas in which Clemson is working to build nationally prominent programs.

Clemson will receive $3 million for an endowed chair in vehicle electronic systems integration — bringing to four the number of endowed faculty positions at Clemson’s International Center for Automotive Research in Greenville. Matching funds for the chair already exist, thanks to a $3 million gift to Clemson announced earlier this year by Michelin. The chair holder will be a member of the faculty at the Campbell Graduate Engineering Center.

Clemson also was awarded $5 million to endow a faculty position in photonics, the technology of designing and improving optical materials that have vast potential in electronics, medical and computing applications.

The chair holder will be affiliated with Clemson’s Center for Optical Materials Science and Engineering Technology (COMSET), which has generated $13 million in external funding and spun off two startup companies since its founding in 2000. Those two companies already have earned $1 million in federal research grants.

For more on Clemson-ICAR, visit the Web at www.clemson.edu/autoresearch; for more on COMSET, go to comset.clemson.edu.
Bowman Field became a Field of Flags as part of the University’s One World Project, a program to educate people and encourage discussion on issues of diversity and tolerance. Placed there by student volunteers, the more than 11,000 flags represent statistics on HIV and AIDS.

Clemson dedicated its new biosystems research complex in April, a laboratory facility serving as a focal point for biotechnology research. Biotechnology is a growing field that uses life sciences to create new products and processes in medicine, agriculture and industry.

The $27 million Biosystems Research Complex was built with the support of the S.C. General Assembly. The complex includes 108,000 square feet of state-of-the-art laboratories and 40,000 square feet of climate-controlled greenhouses. The complex’s resources include an automated system to mass produce genetic reference libraries as well as a mass spectrometer, a supercritical extraction unit and micro-array capabilities.

For more information about Clemson’s biotechnology programs, visit the Web at www.clemson.edu/bio.


Dyess is the only recipient of the nation’s two highest awards for heroism, the Medal of Honor and the Carnegie Medal.

He was killed in combat on Feb. 2, 1944, as he led his troops in an assault on a Japanese gun nest on Roi-Namur in the Marshall Islands. His bravery was rewarded with the Medal of Honor posthumously.

Dyess received the Carnegie Medal before going to war for his heroism in rescuing two stranded women from a dangerous surf off the S.C. coast.

S.C. DNA learning center

Clemson has teamed up with the nation’s leading genetics learning center to help S.C. students and teachers understand the far-reaching impact genetics will have on the future. The University and the Dolan DNA Learning Center in Cold Spring Harbor, N.Y., have created the South Carolina DNA Learning Center.

The mission of the South Carolina DNA Learning Center is to provide outreach education in modern genetics and biotechnology to K-12 teachers, college educators, nonformal educators and students. The center will offer a variety of sessions and workshops in genetics and biotechnology that will give students the opportunity to do hands-on experiments.

The center will be located in Jordan Hall on the Clemson campus and directed by biological sciences professor Robert E. Ballard. It will be funded with public and private money including grants, fees and contributions.

The S.C. DNA Learning Center will begin offering half-day workshops in genetics and biotechnology for middle and high school students in the spring 2005. For more information, call Ballard at (864) 656-3579 or email ballard@clemson.edu.

Twice a hero

Communication studies major Megan Massett and genetics major Brad Smalling scored a first for Clemson. They brought home the first individual national title in forensics in the University’s history.

They were named national champions in duo interpretation at the American Forensic Association — National Individual Events Tournament last spring.

The pair presented “Profoundly Normal,” a performance about a mentally handicapped couple who meet in an institution that closes, forcing them to adjust to the outside world.
Welcome back

Bruce Yandle, Alumni Distinguished Professor of Economics Emeritus, will serve as the interim dean of the College of Business and Behavioral Science. The longtime Clemson professor and economic expert has come out of retirement to work with faculty and staff to refine the college’s mission and strategic focus.

Yandle began as an economics professor at Clemson in 1969 and retired in May 2000. He served as a member and as chairman of the S.C. State Board of Economic Advisors and as executive director of the U.S. Federal Trade Commission. As a senior fellow at Clemson’s Strom Thurmond Institute of Government and Public Affairs, Yandle produces a quarterly newsletter that analyzes national, regional and state economic trends and activity.

Former dean Jerry Trapnell retired in July. A national search for a permanent dean will begin this fall.

Think nationally

According to the latest U.S. News & World Report college guide, Clemson’s alumni participation for public universities is No. 3 in the nation!

Clemson freshman SAT scores are 12th in the nation for public universities, and its graduation rate is 19th.

Clemson is one of the “Top 100 U.S. Colleges and Universities for Entrepreneurs,” according to Entrepreneur magazine (May 2004). Clemson appears in the list of top-50 regionally recognized academic programs in the country.

Clemson’s Pershing Rifles Company C-4 has again been named national champion for the third time in five years.

Clemson political science professor Xiaobo Hu has been named a Hoover Fellow at the Hoover Institution on War, Revolution and Peace at Stanford University, one of only a few scholars selected annually.

Nancy Porter, state program leader for Family and Consumer Sciences and an Extension family resource management specialist, is part of a team that received the 2004 American Association of Family and Consumer Sciences Excellence in Extension Award.

English professor and department chair Mark Charney received the Gold Medallion of Honor from the John F. Kennedy Center for the Performing Arts for his service to the Kennedy Center American College Theater Festival.

Seven Clemson athletic programs had GPAs that eclipsed the 3.0 mark: women’s soccer (3.57), women’s swimming (3.29), rowing (3.28), men’s swimming (3.26), volleyball (3.23), women’s tennis (3.14), men’s soccer (3.11).
College is all about challenge. There’s the challenge of getting in, of keeping up with day-to-day studies, of graduating on time and of taking full advantage of the experience.

Then there’s the challenge of paying for it.

Not only is higher education more expensive than ever before, its academic standards are higher than ever too.

Fortunately, with the advent of the LIFE Scholarship, funded through the S.C. Education Lottery, and other scholarships, more financial aid is available to help.

But maintaining grades high enough to keep that help is another matter.

**Addressing the need**

In 2001, the University began offering a formal, comprehensive program of academic support services called the Academic Support Center, with the mission of helping students reach their full potential, academically and personally.

The center, currently led by Elaine Richardson, began on the third floor of the Cooper Library with tutoring, academic workshops and supplemental instruction. It served approximately 2,600 students its first year.

The next year, it incorporated CU 101 (a two-credit course on success skills for freshmen and transfer students), and added peer-assisted study sessions (PASS), a study behavior inventory and academic counseling. Student usage doubled.

During the 2003-2004 school year, the center added a freshman academic success

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“The Academic Support Center is in many ways the most exciting, the most meaningful thing this campus has ever done.”

*President Jim Barker*
program (FASP) and incorporated the University’s science and technology entrance program (STEP, now called the early success program), test proctoring and the Student Disability Services program. Last year the center served more than 13,000 students.

As student participation increased, so did the retention of LIFE Scholarships. The percentage of Clemson freshmen retaining their scholarships into their sophomore year went from 41.6 percent in fall 1999 to 52.3 percent in fall 2002. With the LIFE Scholarship currently worth $5,000 a year, keeping it is even more important.

The Academic Support Center, with all services free to Clemson students, has been incredibly successful. But its lack of having an honest-to-goodness “center” is preventing it from being even more successful.

Clemson’s academic support services currently operate in just about any nook and cranny on campus that its staff can find.

That includes offices in Cooper Library and Redfern Health Center, classrooms in Daniel and Martin halls (available only in the evening), and spare rooms in several residences halls. Only minimal campus space is available for “walk-in” tutoring or supplemental instruction sessions during the day when students need help the most often.

**Brick-and-mortar commitment**

Committed to the work of the Academic Support Center because of its proven importance to student success, Clemson has begun plans for a facility to house it in a central location.

The plan calls for a three-story facility between the Cooper Library and the Brooks Center, an idyllic environment for scholarship and the area that President Barker has termed the “Center of Centers.” The 35,000-square-foot structure will be almost completely devoted to instruction, with only about 10 percent for administration.

It will have flexible classrooms, computer areas, informal gathering rooms and other facilities for the center’s multifaceted program.

A unique feature of the center is that it will have an atrium lobby through which students can walk to get from east to west campus or vice versa. In other words, students will be drawn into it naturally as it becomes a part of the academic environment.

Although the facility is designed with comfort in mind, its focus is on the business of improving study habits and centrally locating the key programs that can help students accomplish that goal.

Universities across the country are seeing a greater need to offer centralized academic support for students. Clemson is among those at the forefront of addressing the need.

Clemson leaders already know how successful an academic support center can be by following the example of Vickery Hall, home to Clemson’s student-athlete enrichment program.

When Vickery Hall opened in 1991, it was the first stand-alone building in the nation devoted to student-athlete academic enrichment. Again, Clemson was at the forefront. Vickery Hall’s success has been nationally recognized, making it a model for other university athletic departments committed to academic improvement.

In fact, it has been so successful that Clemson student athletes scored an overall GPA of 2.9 last academic year. A record 44 student athletes maintained a perfect 4.0, earning them a spot on the President’s List, and 116 student athletes were named to the Dean’s List by maintaining a 3.5 or better.
From 1956 to 2006

When the Class of 1956 gathered several years ago to choose a golden anniversary project for Clemson, the members reached a decision.

They would choose a project that was among the University’s highest priorities. That project would be one that reaches across all colleges and curricula at Clemson. It would focus on the individual, enhancing abilities and building confidence.

It would be a project of “change,” reflecting the spirit of the Class of 1956 members themselves, creating positive change for generations to come.

The Academic Support Center project was and is a perfect fit.

Funds raised by the Class of 1956 will help finance design and construction costs, furniture, fixtures, equipment, parking and landscaping. Outdoor landscaping opportunities are also under development, and named endowments may be established for the long-term maintenance of the facility and programs.

Clemson, of course, welcomes support for the center from all alumni and friends of the University. Large or small, each gift matters. Naming opportunities — in honor or memory of a family member, classmate, professor or others — are open to all donors.

The Class of 1956 is also recognizing its military heritage and contributing to the country’s military future by supporting the Clemson Corps Scholarship Endowment as part of its golden anniversary celebration. It has set a goal of $5 million for both projects.

For more information about supporting the Class of 1956 Golden Anniversary Project or for naming opportunities in the Academic Support Center, contact Ann Smith, director of annual giving, at (864) 656-5895 or email annsmit@clemson.edu.

For more information about Academic Support Center programs, contact Elaine Richardson at (864) 656-6452 or email asc@clemson.edu.

You can also make a gift to the Clemson Fund for the center in the enclosed envelope by designating your gift for “Academic Support Center.”
Extraordinary Gift

Ernest Hill Carroll Jr.

In normal times, Clemson student Ernest Carroll Jr. might have gone on to great accomplishments in a long life.

He was headed in the right direction. The only child of Virginia and Ernest Sr., a hard-working couple in Rock Hill, he no doubt knew the family bottling business. At Clemson, he’d completed his sophomore year and was probably looking forward to having a few more privileges as a junior.

But it was the early 1940s, and the times weren’t normal.

World War II was raging when Ernest Jr. was called to serve his country. Patriotism must have run in the family; his father also enlisted.

In fact, Ernest Sr. was in Okinawa in 1944 when he got the news. His son had been killed in action during the Allied invasion of Normandy. He had made the ultimate sacrifice for his country. His parents had, too.

As many other parents had to do, the Carrolls went on. And perhaps it’s in struggling to go on that families best honor the loved ones whose lives are cut short.

But the Carrolls found an additional way. Nearly 50 years later, the couple established a $1 million bequest in the name of their son to give financial assistance to worthy Clemson students.

The Ernest Hill Carroll Jr. Endowed Scholarship Fund is unrestricted so that the University can use it for scholarships where the need is greatest.

The Carrolls’ legacy is also like the gift of Thomas Green Clemson in that it came through an estate gift. In other words, the Carrolls established it through their wills. Ernest Sr. passed away in 2002 and Virginia in 2003. Their estate was settled earlier this year, allowing their gift to come to the University for future students.

Even though their son never got the opportunity to finish his education, the Carrolls have perpetuated his Clemson experience by helping other students reach their dreams. The Carroll family legacy lives on, entrusted to Clemson as its guardian, for generations of students to come.
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hile these words, written in December 2000, President Jim Barker established the Woodland Cemetery Stewardship Committee and charged it to protect and enhance the integrity, character and traditions of Cemetery Hill.

As part of that important responsibility, we launched “Cemetery Chronicles” in the summer 2001 issue of Clemson World, inviting several authors to help us look back at Clemson’s history, recognizing and remembering some of the legends who earned their honored resting places upon the sacred grounds of Cemetery Hill.

In this installment of Cemetery Chronicles, we interrupt our stories of the past to focus on Clemson’s future, offering a vision for ensuring that Cemetery Hill will continue to stand as a special tribute to the spirit of the Clemson Family for generations to come.

Although Cemetery Chronicles has been the most public facet of the work of the Woodland Cemetery Stewardship Committee to date, it is only a small portion of the committee’s efforts to help protect that “sacred trust” of which President Barker eloquently wrote. In his “Goals for Making Clemson a Top-20 Public Institution,” President Barker further defined that trust and emphasized the delicate balance between focusing on the future and appreciating the past. Among the specific initiatives outlined within the goals is to “recognize and appreciate Clemson’s distinctiveness.”

Because Cemetery Hill is not only an integral part of Clemson history, but also a unique narrator of that story through the voices of those interred there, the cemetery is truly one of Clemson’s most richly distinctive features. As a stewardship committee, we are working to ensure that the sacred grounds of Cemetery Hill remain not only a distinctive part of Clemson’s past, but also a proud part of its future.

Among the many issues that require careful attention if the cemetery is to be preserved and enhanced are diligent erosion control, careful tree management, thoughtful aesthetic improvements, potential expansion plans and the completion of research to determine if there are any unmarked graves within the cemetery.

Over the past three years, the committee has taken several important steps toward addressing these needs, including:

• Trustee approval for expanded cemetery boundaries to protect the grounds and allow for future expansion.
• Replacement of the chain-link fence around the crown of Cemetery Hill with more fitting and aesthetically pleasing hedges.
• Approval of a tree management plan, particularly related to mitigating the effects of pine beetle damage.
• Agreement with the S.C. state archaeologist to use ground-penetrating radar to search for potential unmarked grave sites.
• Establishment of an annual Woodland Cemetery Tour program, to be expanded later this year.

With these milestones accomplished, the stage is now set for us to take an important step forward in preserving and protecting the Woodland Cemetery. The stewardship committee recently adopted a long-range developmental plan that will further protect the intimate tranquility of the cemetery while enhancing its aesthetics and addressing key maintenance concerns. The three-phase plan calls for the creation of a new set of stone entry gates along Williamson Road, an entry court leading to the traditional cemetery burial area and a stone-and-wrought-iron garden wall to replace the recently removed chain-link fence. The following descriptions and illustrations highlight the details of the plan.

• Phase one — Remove chain-link fence, replace with hedges to provide safety barrier and erosion control (completed). Construct new set of stone entry gates along Williamson Road. Add landscaping around new and existing gates.

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.

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

As President of Clemson University, I feel I have been given a sacred trust — the obligation to learn our community into the future while preserving and honoring our past. There is no place in which this sacred trust is more tangible than Woodland Cemetery, more commonly known as Cemetery Hill.

— James F. Barker

A message from the Woodland Cemetery Stewardship Committee

The Future of Our Past

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• Phase two — Install brick-paved, terraced forecourt and angled parking to replace existing asphalt parking lot.

• Phase three — Build stone-and-wrought-iron retaining wall around the crown of the cemetery to improve aesthetics and mitigate erosion. Install corner markers to define the outer boundaries of the cemetery and add landscaping along Williamson Road to further define the cemetery grounds.

In the past three years, with generous assistance from several individuals and organizations, over $170,000 has been raised toward the total estimated cost of $585,000 for the project. That tremendous momentum has allowed us to launch the earliest portions of phase one, but in order to make Cemetery Hill the kind of historically defining monument it deserves to be, we need your help in completing all three phases of the project. Please consider yourself a steward with us of Clemson’s proud and distinctive heritage, and please consider contributing a portion of your Clemson Fund gift this year to the Cemetery Preservation Fund.

It was 80 years ago this past January when President Walter Merritt Riggs became the first Clemson employee to be buried in the “faculty cemetery” that Riggs himself had proposed to the Board of Trustees. As we reflect on the vision and service of President Riggs and the others who have followed him to their final resting places nearby, we are struck by the seeming irony that so much energy is being poured into a place that is normally associated with the somber idea of death. We believe there is something wonderfully telling, indeed distinctive, about that contrast and the very nature of our Woodland Cemetery. Cemetery Hill is not just a place where we lay to rest our deceased forebears, it is in fact a woodland cemetery, a place characterized and appropriately named for the abundant life present in the trees that define and protect that special place.

So it is that we can look to the Woodland Cemetery not as a sad reminder of lives lost, but rather as an inspiring tribute to lives well lived and greatness achieved through service to Clemson and her people. Just as the trees there take root and flourish and fade and die, later to be replenished by new life and new strength from the seeds they left behind, so it is with the lifeblood of Clemson, handed off from one generation to another, the seeds of vibrant young lives nurtured by those who have served before. Yes, there is much that is alive in our distinctive Woodland Cemetery — not just those majestic trees but also the enduring legacies of the men and women who now rest eternally under their shade. Both serve as powerful symbols of the lives that grow and find nourishment at Clemson, adding deepest meaning to the words engraved on the headstone of J.C. Littlejohn, words that can serve as an epitaph for all those who rest in the Woodland Cemetery: their “monuments live about you.”

For all the lives that have served Clemson faithfully in the past and for all those who will do so in the future, we are truly grateful. We invite you to help us perpetuate that noble cycle of Clemson University, enriching lives and paying them tribute through your generous contribution to the Cemetery Preservation Fund. Your monuments will live about you.
This Clemson jewel will never sparkle on a finger, but it could help transform telecommunications. Or even save lives.  

The “opals” — so named because they mimic the interaction with light exhibited by natural opals — are the research work of materials science professor Steve Foulger, a founding member of Clemson’s Center for Optical Materials Science and Engineering Technologies (COMSET).
Foulger's opals, which look like flexible, half-inch squares of plastic, change colors dramatically in the presence of a chemical agent. His research could lead to fast, reliable and inexpensive sensors that detect chemical agents in order to combat their potential use as instruments of terror.

The opals could also be used in telecommunications and related photonics applications. Photonic materials use light, or photons, to carry and process information instead of electrons. The science is the basis for today's optical fiber, high-speed networks and the driving force behind the Internet.

Like real opals, Foulger's synthetic opals are composed of nanoparticles and have no intrinsic color but react with the light around them. Opals have an internal structure that captures light while filtering out some colors, leading to their iridescence.

This promising research has helped earn Foulger a prestigious NSF CAREER Award. He's part of an elite team of world-class scientists at Clemson.

Researchers affiliated with COMSET have attracted more than $13 million in sponsored research during the center's first four years. Faculty expertise ranges from materials science and chemistry to physics and entrepreneurial development.

The COMSET team is led by John Ballato, who received both the 2004 Young Scientist Award from the American Ceramic Society and the 2004 Young Engineer Award from the National Institute of Ceramic Engineers.

The S.C. Commission on Higher Education designated COMSET a state center earlier this year because of the "tremendous opportunity" it provides for South Carolina. Chris Przirembel, Clemson's vice president for research, says, "Photonic materials and devices for optical networks are expected to be a $20 billion industry within the next several years."

The center, which began in 2000, put economic muscle in its research by pairing with the University's Arthur M. Spiro Center for Entrepreneurial Leadership, turning the photonics materials research initiative into an economic development effort. COMSET has spun off companies in Clemson and Fort Mill, which have generated more than $1.5 million through grants and startup investments.

Clemson has already joined with local technical colleges and N.C. universities to create a coordinated educational system in support of the strong regional optics industry. Research innovations are created in the lab and then, through university courses and tech training, are transitioned in the marketplace where they will help attract high-wage jobs that are the hallmark of high-tech, knowledge-based companies.

COMSET is also the cornerstone of Clemson's plans to create a hub for the advanced materials industry — especially the emerging photonics materials sector — at the Clemson Research Park. The initiative is expected to generate new ranks of higher-paying jobs by making S.C. industry more competitive and attracting additional industries.

The University plans to invest $70 million over the next five years to develop the advanced materials emphasis area. The linchpin is a $21 million advanced materials research facility at the Clemson Research Park, anchored by COMSET, one of the nation's top optical materials centers, coupled with a state-of-the-art electron microscopy facility. Some of Clemson's nanotechnology and fuel cell-related research will also be housed there. The research facility is scheduled to open late summer.

Earlier this year, the S.C. Research Centers of Economic Excellence Review Board gave the state's stamp of approval to COMSET by awarding $5 million for an endowed chair in photonics materials. The board manages the state's endowed chairs program and is funded through revenues from the S.C. Education Lottery. The award must be matched with non-state funds raised by Clemson and eventually lead to the hiring of a world-renowned scholar and two junior faculty to complement COMSET's existing faculty.

The national and international reputation of COMSET's optical materials research has made its students highly marketable to companies and graduate schools. For example, recent graduates are employed by Cisco, Lucent Technologies, JDS-Uniphase and other internationally known optics companies.

At the technical college level, COMSET is a partner with Greenville, Tri-County and Spartanburg technical colleges in the S.C. Upstate Photonics initiative — an NSF-funded program to develop a skilled technician work force at the one- and two-year post-high school level for the optics industry in the region.

COMSET's educational reach, however, actually begins before college. At the high school level the center is working with Clemson's Emerging Scholars summer program to enhance South Carolina's economy by increasing the number of economically disadvantaged students who attend and graduate from college — a key factor in breaking the state's poverty cycle.

Clemson is focusing its energy and resources in areas like COMSET that provide excellent opportunities in teaching and career preparation, in research that has positive impact and generates economic growth, and in outreach that serves individuals and communities. In other words, Clemson's goal is to promote a higher quality of life — especially in South Carolina.

For more information about COMSET, visit the Web at comset.clemson.edu or contact John Ballato at jballat@clemson.edu.
Turn off your phones, and open your laptops.
You'd think that technology in the classroom would make teaching easier and faster with less effort for preparation or evaluation.
But for Clemson professors, the use of laptop computers in the classroom isn't about convenience at all. It's about effective teaching.
And just as it always has — effective teaching takes time, preparation, ongoing curiosity and a genuine concern for students.
More and more universities are mandating the use of laptops in the educational experience of their students. The premise is that students are already “digitally driven” and that having a laptop in the classroom opens electronic “pages” for exercises, research, virtual reality and much more.
Most universities like Clemson are looking for ways to give their graduates the edge in the job market. And many campuses are becoming more connected to take advantage of technology.
But few of Clemson’s peers are providing the “other critical link” to make laptops in the classroom a success — thoughtful and comprehensive training for faculty who want to use laptops to expand their teaching skills.
In 2002, Clemson’s Educational Technology Services (ETS) and Office of Teaching Effectiveness and Innovation (OTEI) formed the ETS-OTEI Laptop Faculty Development Program. The past two years, funding from the provost provided laptops for selected faculty representing all five colleges. The program provides practical assistance to combine pedagogy and technology. Workshops promote collaboration and support faculty members at their individual level of expertise.

Intel's 2004 Most Unwired College Campuses lists Clemson among the top-100 schools for wireless computing access — where students have the freedom to access the Internet on notebook PCs, or laptops, without a traditional wired connection.
So far, 100 of Clemson’s more than 950 instructional faculty members have been awarded laptops and have completed at least 40 hours of training required by the program. The workshops are small communities of four to six faculty members who explore laptop pedagogy and practicality together. Interdisciplinary groups of professors come together to learn what works and doesn’t work, what’s available and what needs to be, and most of all what will help their students gain knowledge.

After the initial training is complete, many of these communities continue to meet weekly because they find energy and creativity in the sharing of ideas. As Barbara Weaver, director of the program, says, “Faculty development is critical to the success of a laptop course. Clemson’s administrators understand that and continue to push the envelope in undergraduate education.”

Clemson faculty give back to the program. They become part of the research through assessment surveys. They lead workshops, give presentations, invite other faculty members to their laptop classes and collaborate with other disciplines. Some are writing about their laptop teaching experience for Enhancing Learning Using Laptops in the Classroom, a book edited by Weaver and Linda Nilson, director of the Office of Teaching Effectiveness and Innovation. The book will play a central role in Clemson’s upcoming laptop pedagogy conference, which will host Atlantic Coast Conference schools and some top-wired universities next spring.

Some Clemson faculty participants have completely shifted teaching styles from traditional lecture to a studio environment that leads to student-centered, active learning. Others are finding that service-learning and problem-based learning work especially well as laptop assignments.

Whatever role laptops play in the classroom, one fact remains — Clemson faculty continue to care about teaching the individual student. And if technology is the best way to do it, then let the learning begin for student and teacher.

Did you hear that?
Music appreciation students use laptops to listen to assigned pieces of music and report their findings on the class Web site.

Who needs laptops?
The short answer is “everybody.”
The phased-in laptop mandate for fall 2004 semester at Clemson includes:

- all freshmen
- sophomores in the College of Architecture, Arts and Humanities and the College of Agriculture, Forestry and Life Sciences
- juniors in the College of Business and Behavioral Science and all MBA students
- seniors in the College of Engineering and Science

The University recommends several laptop models. For more information, visit Clemson’s DCIT Support Center on the Web at laptop.clemson.edu or email laptop-l@clemson.edu.
Tigers are in trouble. Big trouble. As our own Clemson Tigers grow in strength and number, tigers in the wild face extinction.
Three subspecies of the regal beast have disappeared from the face of the earth. The remaining five, one of which Clemson’s own Bengal mascot belongs to, are dwindling fast.

A century ago, an estimated 100,000 wild tigers roamed Asia — from India and Nepal to Thailand, Vietnam and Indonesia to China and Russia. They were plentiful, fertile and ferocious. Now, only an estimated 5,000 to 7,000 tigers remain in the wild.

Some would say it’s sad but inevitable. But to a special group of Clemson students and their supporters, “inevitable” isn’t an option — especially when there are so many Clemson Tigers who share the animal’s symbolic pride and spirit.

The student organization Tigers for Tigers was founded in 2001 as a student initiative to engage the Clemson community in efforts to save the tiger. The program has the potential to expand international and interdisciplinary teaching, research and service activities, and to increase Clemson’s reputation worldwide.

Each year the organization has increased its activities and influence, bringing to campus world-renowned speakers for international awareness and conservation issues, raising money for tiger habitats such as Trees for Tigers, sponsoring elementary school outreach such as Cubs for Cubs, and other projects.

Last year the program took a giant leap forward. Biological sciences professor David Tonkyn, chief supporter and adviser of Tigers for Tigers, and international student affairs director Louis Bregger collaborated on a “biodiversity and conservation in India” study-abroad course. Fittingly, the course was open to all Clemson students although it held special appeal for College of Agriculture, Forestry and Life Sciences majors. The diverse class included 18 undergraduate students along with a graduate student and faculty researcher.

“Our goal was to create a ‘total immersion’ course that would introduce Clemson students to the scientific and human issues surrounding tiger conservation,” says Tonkyn.

The course consisted of lectures, readings and discussions on the geography, cultural and natural history of India, and on Eastern approaches to conservation. The capstone of the course was a two-week trip to India over spring break in which students experienced some of that country’s premier tiger reserves.

Students studied Indian natural and cultural biodiversity in the Kanha and Bandhavgarh national parks as well as the Indian cities of Delhi and Agra. The focus was on tigers and tiger preservation, but students observed many other animals, birds and plant life.

They also learned about the local people. They visited schools and a health clinic, and watched and then danced with tribal dancers and musicians. And they learned what these people and tigers in the wild need to coexist.

Students planned and implemented appropriate service-learning programs for schoolchildren and other residents. They also had the rare opportunity to witness tigers in their natural habitat.

“We chose India because, unlike some tiger countries, India is safe and accessible to American students,” says Bregger. “It’s the world’s most populous democracy; it’s readily accessible by air; and English is an official language.”

In addition, Indian students comprise the largest group of foreign students at Clemson, providing vital information and contacts. And India is home to many religions, languages and cultures, offering a fascinating focus for educational programs at Clemson.

The final, practical issue is that Tigers for Tigers has established a strong relationship with Amit Sankhala, grandson of the founder of India’s famed Project Tiger.
and a prominent conservationist in his own right. Sankhala is chairman of the Tiger Trust, which supports Kanha and Bandhavgarh tiger reserves and has built a school and health clinic for the local communities there. He also owns modern jungle lodges at the two reserves and runs an ecotourism business. He organized the Clemson trip within India and helped make it an affordable educational experience.

Some students also received travel grants from the College of Agriculture, Forestry and Life Sciences to help with their expenses.

“The students who visited India last semester acted as ambassadors for the rest of the Clemson family, enabling us to offer the course in future years and to solicit support to defray student expenses,” says Tonkyn. “As a matter of fact, Amit Sankhala offered to provide four internships each year for Clemson students to work as naturalists at his jungle lodges and to support joint efforts in conservation between Clemson and the Tiger Trust in the two reserves.”

“In the future, we hope to include alumni as well, either alongside students in a learning adventure for all, or in separate, directed tours,” says Bregger.

Recent research shows that wildlife conservation efforts, such as these in India and other tiger lands, do work. But it takes tremendous energy, dedication and support.

Clemson already has a source of “tremendous energy” — talented and idealistic students studying programs as relevant to conservation as art and graphic design, education and engineering, health sciences and nursing, and wildlife biology and zoology.

The effort now is to generate support from businesses, private foundations and the Clemson community so that Clemson students can actually help make sure that wild tigers thrive in the wild.

Tigers for Tigers, guided by Tonkyn and Bregger, is working to make the course a regular offering that takes students to India each year to experience its natural and cultural biodiversity. In doing so, it will create a Clemson presence in India through ongoing projects and internships, and it will make a lasting contribution to tiger conservation.

If you’d like to learn more about wild tiger conservation or how to support Tigers for Tigers and their tiger conservation efforts, visit the Web at people.clemson.edu/~t4t/, email t.david@clemson.edu or call (864) 656-3588.

In her own words

Students who traveled to India over spring break marveled at the exotic culture, the surreal experience of viewing tigers and other huge wildlife in their natural habitat and the sense of connection to the people of a foreign land. Animal and veterinary sciences major Beth Western echoes the observations of her classmates as she recalls her own experience:

Culture shock is generally something I embrace as a way to further open my eyes. Never was it more complete than on my journey to India. From the moment we stepped off the plane, I felt as if I were in a different era, one of maharajahs and mythology.

The people, places, animals and events of the following weeks confirmed the magic of the land. I met the poorest people I have ever seen. Yet the schoolchildren in the most backward village had more to teach me than I could ever imagine. There was never a lack of smiles in the villages.

I felt that even the youngest child had seen so much, and I was only catching a glimpse. I found my ideals of philanthropy slipping away into a genuine desire to help these people in whatever way they wanted to be helped. I knew they didn’t need my culture, but I came to need more of theirs.

I can’t wait to go back and learn more, see more and love more of a country with which I have so little in common, but to which I feel so close, even thousands of miles away.

Beth Western
Participant in Clemson’s biodiversity and conservation course in India
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The Conference Center and Inn at Clemson University invites you to be the center of our attention. From first class lodging, dining and meeting facilities, to on-site meeting and event planning assistance and exemplary service standards, your every need is our greatest priority. Call our Sales Department today to book your next meeting or event!
Clemson University was founded on the belief that education could create a better way of life for the people of South Carolina. Since its opening, the University has worked toward that goal through education and public service programs that help the state’s citizens, communities, businesses and public agencies.
Led by John Kelly ’77, vice president for Public Service and Agriculture, Clemson Public Service Activities (PSA) include the Cooperative Extension Service for outreach, the Experiment Station for research, and two regulatory agencies: Livestock-Poultry Health Programs for animal health, meat inspection and the state’s veterinary diagnostic laboratory; and Regulatory Services for pesticides, plants, fertilizers and seeds.

Clemson PSA programs are located throughout the state to provide easy access for all citizens. They are focused in five interrelated goal areas to ensure that limited resources are used effectively:

* Agrisystems Productivity and Profitability
* Economic and Community Development
* Environmental Conservation
* Food Safety and Nutrition
* Youth Development and Families

Clemson public service programs touch every facet of life in South Carolina. Because of their broad scope, it is impossible to list all of the services provided by the dedicated professionals in Clemson Public Service Activities, but here are a few examples.

**Agrisystems Productivity and Profitability**

Farmers reduce operating expenses and environmental impact by using “precision agriculture” techniques developed by Clemson scientists. This 21st century farming method harnesses satellite technology to map fields so that fertilizers, herbicides and pesticides are applied in exactly the locations and quantities needed.

Livestock producers, pet owners and citizens are protected from diseases that can infect domestic animals and wildlife. Clemson Livestock-Poultry Health personnel constantly monitor for diseases such as avian flu, West Nile virus, “mad cow” disease and Eastern equine encephalitis. They are authorized to enforce all state and federal mandates that apply to animal health.

Greenhouse and turfgrass industry members depend on Clemson research, Extension and Regulatory Services personnel to develop new varieties and production methods; provide training for growers, landscape professionals and pest control operators; and ensure that plants are certified pest-free for sale. This support, along with Master Gardener training programs for individuals, has helped the ornamental horticulture industry become the fastest growing segment of agriculture in South Carolina.

Forest landowners are improving timber production, protecting water quality, enhancing wildlife habitat and preserving recreational forests through Clemson-developed best management practices that affect the state’s 12.5 million acres of forest land. These practices have been shared with more than 13,000 land-owners through Extension workshops and through nationally recognized videoconferences for Master Tree Farmer and Master Wildlifer training.

Cotton growers have eradicated the boll weevil, reduced the number of pesticide treatments from nearly 15 to fewer than five per season, and quadrupled the state’s cotton acreage from approximately 70,000 to nearly 300,000 acres. Clemson Regulatory Services personnel and Extension agents provide the training to make accomplishments such as these possible.

**Economic and Community Development**

Homeowners and contractors are learning how to build or retrofit structures that resist damage from floods, wind and earthquakes at the 113 Calhoun Street Project in Charleston. This project serves as a national model for community education and historic structure preservation. Partners include Clemson Extension, Clemson’s civil engineering department, the S.C. Sea Grant Consortium, the county and city of Charleston, and the Federal Emergency Management Agency (FEMA).

City and county officials in the Berkeley-Charleston-Dorchester area are able to predict the extent and impact of urban growth over the next 25 years. This information helps decision makers formulate public policy to serve both current and future residents. The computer model was developed by Clemson’s Strom Thurmond Institute of Government and Public Affairs in collaboration with the S.C. Coastal Conservation League, the National Oceanic and Atmospheric Administration and the S.C. Sea Grant Consortium.

Rural high school students are learning vital computer skills to compete in today’s economy through a Clemson Extension program called Bridging the Digital Divide. This program brings computer and satellite technology to rural communities with funding from a congressionally directed grant.

Commercial shrimpers are receiving training and economic assistance to create a sustainable industry in the state. This partner-
ship, led by Clemson Extension and research personnel, includes the S.C. Shrimpers Association, S.C. Department of Natural Resources, S.C. Sea Grant Consortium, Southern Shrimp Alliance, Beaufort-Charleston-Dorchester Council of Governments and private businesses.

Local leaders, especially those in rural areas, are learning strategic action skills to help guide economic and community development through the Palmetto Leadership program. As a result of this training, Dillon County leaders brought a $30 million poultry processing plant to their county, along with more than 700 jobs. Clemson’s Institute for Economic and Community Development leads this program and others including the Collaborative Colloquium. The colloquium helps more than 60 state agencies and nonprofit organizations utilize resources more efficiently to address issues such as housing, economic development and work force training.

Faith-based organizations and community groups across the state are working to implement the S.C. Rural Communities Compassion Project under the auspices of Clemson’s Institute on Family and Neighborhood Life. This initiative provides technical assistance through workshops, skills training and a resource associate network. It’s one of just 21 such projects in the nation funded by the U.S. Administration for Children and Families.

Environmental Conservation

Farmers are practicing “sustainable agriculture” that is ecologically sound, economically viable and socially responsible. These practices, developed by Clemson scientists, improve yields and enhance soil quality while protecting the environment. They include production techniques such as narrow-row plantings, double-cropping, conservation tillage and integrated pest management.

Municipal and county officials can better manage pollution caused when storm water runs off parking lots, driveways and sidewalks because of Clemson Extension’s Carolina Clear program. This comprehensive educational effort helps local officials and citizens understand the problems associated with storm water in South Carolina. It also facilitates compliance with federal and state regulations for managing storm water.

Lawn-care professionals can reduce pollution by using environmentally sensitive methods to control insects, weeds and diseases on golf courses, athletic fields, and residential or commercial landscapes. These methods, taught by Clemson Extension and regulatory personnel, include limiting the amount of fertilizer and other chemicals applied to lawns and gardens and by properly storing chemicals. Home gardeners have 24-hour access to lawn and garden information through the Home & Garden Information Center Web site hgc.clemson.edu. Last year, the site had 1,509,967 visitors and nearly 5 million hits.

Commercial developers and urban planners have access to Clemson research on the environmental impact of changing land-use patterns. Policy-makers can use this research to preserve environmental quality as new industrial, business and residential projects are built to accommodate approximately 2 million new residents expected to move to our state by the year 2030.

Solid waste authority officials in Horry County are working with Clemson scientists to use landfill space more efficiently and to develop a waste reduction and recycling program for Grand Strand hotels and tourist businesses. One aspect of the program, the first of its kind in the state, will turn trash into cash by enhancing the production of methane gas from landfill materials. The gas will be sold to a local power company to generate electricity.

Environmentalists and outdoor enthusiasts benefit from research and Extension efforts in the state’s forests from the mountains of the Jocassee Gorges to the coastal wetlands surrounding Clemson’s Baruch Institute of Coastal Ecology and Forest Science near Georgetown. Their work includes forest management and regeneration, wildfire prevention, water quality protection, biodiversity studies, wildlife habitat conservation and the impact of urban growth on the environment.

Food Safety and Nutrition

Food-service employees in restaurants, schools, day-care facilities, churches and soup kitchens learn safe food-handling practices through the Serv-Safe™ program delivered by Clemson Extension personnel. Training is offered in workshops and video teleconferences, and is available for Spanish speakers and for employees with limited reading ability.

Medical professionals and individuals will have the latest information on the role of nutrition in health and disease through the S.C. Nutrition Research Consortium, a joint effort by Clemson, the University of South Carolina and the Medical University of South Carolina. Research and outreach efforts will address the health-care burden caused by poor nutrition and obesity, including diabetes, cancer, heart disease and stroke. In addition, research on medicinal plants is conducted through Clemson’s Institute for Nutraceutical Research.

Consumers can be assured that South Carolina meat and poultry products meet all federal safety requirements because Clemson Livestock-Poultry Health officials monitor food-animal production from “farm to fork.” This means that inspectors certify that the animals are disease-free on the farm and certify
that meat processing facilities practice safe food-handling. In addition, Regulatory Services and Extension personnel ensure that fruits and vegetables are safe to eat by training farmers in the proper use of pesticides and other chemicals.

Limited-resource families learn how to make informed choices about low-cost, nutritious foods and how to get the most for their food dollar through two Clemson Extension programs. The federally funded Expanded Food and Nutrition Education Program (EFNEP) and the food stamp nutrition education program, called Lifelong Improvement in Nutrition and Community (LINC), help more than 34,000 South Carolinians manage their health through better food choices.

Food suppliers have new tools to protect food safety through Clemson packaging research. One study is developing “biosensors” as an early warning system for salmonella and other health threats. This research uses nanotechnology to insert molecules that glow when food-borne disease agents are present. Other research is developing antimicrobial and antioxidant packaging that extends the shelf life and safety of food, as well as packaging that enhances the nutritional value of fruits and vegetables by increasing their production of phytochemicals and antioxidants.

Youth Development and Families

Elementary, middle and junior high school students, their teachers and families are learning to prevent bullying in schools through a national program led by Clemson’s Institute on Family and Neighborhood Life. This grant-funded program is a comprehensive, school-wide approach that has been recognized as a model for preventing violence in schools.

Middle and high school science students investigate the state’s living organisms and how they relate to the environment through SC LIFE, a program that includes natural history, the biology merit exam, a summer science program and online virtual field trips that focus on the unique ecosystems of our state. In addition, the S.C. DNA Learning Center at Clemson provides workshops for both students and teachers on the far-reaching impact that the science of genetics has on our lives.

4-H participants, a statewide community of more than 86,000 young people, are learning leadership, citizenship and life skills needed to build a strong future for our state. 4-H programs include agriculture, food and nutrition, natural resources and technology. Activities include robotics competitions, “The Seven Habits of Highly Effective Teens” workshops in both English and Spanish for more than 3,000 young people, Teaching KATE (Kids About The Environment) programs for more than 50,000 school children and 4H20, a science-intensive summer day camp.

Youth and adults — more than 22,000 per year — participate in educational retreats, special needs camps and leadership development programs through Clemson’s Youth Learning Institute. At-risk youth will take part in a new program through a partnership between the institute and the S.C. Department of Juvenile Justice. This program places low-risk status offenders in a camp-like setting, away from institutionalized violent offenders. Through a partnership with the S.C. National Guard, more than 200 high school dropouts will receive valuable life skills while earning their GED.

Special needs children, teens and adults enjoy residential summer camping programs tailored for them at Clemson’s Outdoor Lab. Through partnerships with groups such as the Lions, Jaycees and Sertoma clubs, these programs offer a safe outdoor experience for children and adults who have physical or mental impairments, including those with severe handicaps or serious illnesses.

Parents and neighbors are working together in a comprehensive effort to prevent child abuse and neglect through Strong Communities. This program is building a community support system for families of young children in southern Greenville County and adjoining sections of Anderson and Laurens counties. To date, more than 1,000 volunteers have been mobilized to watch out for their own and their neighbors’ children.

Helping people, building partnerships, improving the environment and the economy — this is what Clemson Public Service Activities mean for our state and its citizens. Funding for these services is provided by the S.C. General Assembly, the U.S. Department of Agriculture, state and federal agencies, and private organizations. For more information, please visit www.clemson.edu/public.

Contributed by Susan Bedingfield, Kerry Coffey, Debbie Dalhouse, Peter Kent, Tom Lollis and Diane Palmer
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Harbor Cruise

These Clemson alumnae and former Kappa Kappa Gamma sorority sisters attended the Clemson Young Alumni Harbor Cruise in Charleston on May 22. Pictured from left are Ashley Creech Scoville '95 of Orangeburg, Tara Coleman '94 of Florence, Elizabeth Bell Quinn '94 of Columbia and Beverly Garrett Thompson '94 of North Augusta.

For more information about Clemson Young Alumni activities, visit the Web at alumni.clemson.edu or contact Randy Boatwright at (864) 656-5671, email brandol@clemson.edu.

Priceless

Celebrating their 72nd college anniversary, S.E. Horton (left) and Sam Lowery (middle), both from the Class of 1932, joined other Golden Tigers at the annual Clemson Alumni Reunion in June. They’re pictured with Matt Watkins '77, M '81, interim chief alumni officer. The Golden Tigers — graduates of 50 years or more — gather each year during the Reunion Weekend.

It matters

Chemical engineering graduate Amber Myers '03 first gave to the Clemson Fund as a Student Alumni Association (SAA) member while she attended Clemson. With $5 of her $20 SAA member fee going to the Clemson Fund as a gift, she became a Clemson donor. She has continued by contributing to the Clemson Fund each fiscal year.

While a student, Myers served as president for Student Alumni Council, Panhellenic recruitment chairman and a member of Blue Key. Now living in Kingsport, Tenn., she’s just as busy with career and volunteer work.

As a manufacturing associate at the Weyerhaeuser Company, she works with process control engineers. She also volunteers with the Boys and Girls Club and the United Way. And she’s kept her ties strong with Clemson, including serving as Tri-Cities Clemson Club president.

Myers encourages current Clemson students to join the Student Alumni Association. “It’s important to go ahead and establish a relationship with Clemson and the Alumni Association,” she says, “so that you don’t lose the Clemson bond.”

To become or remain an annual donor to the Clemson Fund, use the enclosed envelope or visit the Web at www.clemson.edu/isupportcu to make a secure online gift.

Three-ring family

The John R. Floyd Jr. family made Clemson’s annual ring ceremony during spring semester a family affair. Pictured here with President Jim Barker, John ’71, M ’76 (far left), daughter Katie ’04 and wife, Marolyn M ’76, all received Clemson rings.

An engineering graduate, John purchased a new ring to replace his chipped one. Katie, a May nursing graduate, received her ring as a senior. And Marolyn, who earned a master’s degree in education nearly three decades ago, decided it was time for her own Clemson ring too.

The Clemson Ring Ceremony, sponsored by the Student Alumni Association, is held each semester. For more information, call the Alumni Center at (864) 656-2345 or email saa@clemson.edu.

Clean sweep

Alumni from the Baltimore/Washington, D.C., Clemson Club put in a day of service earlier this year to help in the Potomac Watershed Clean-up community project.

The Alumni Association sponsors 45 Clemson Clubs across the country and beyond. Activities range from football viewing parties to hosting University leaders to welcoming incoming freshmen to community service. For more information, visit the Web at alumni.clemson.edu or call (864) 656-2345.
Tigerama drama

Join Blue Key and the rest of the University for the 48th annual Tigerama on Oct. 15 at Littlejohn Coliseum, where “The Future is Orange.” A pep rally will begin at 6 p.m. with Tigerama starting at 7:30 p.m.

The Clemson Homecoming tradition will feature the Tiger cheerleaders, Rally Cats, Tiger Band, Tigeroar and the Pershing Rifles. As always, student organizations will perform skits, Miss Homecoming 2004 will be crowned, and fireworks will light up the night.

Tickets are $8 and can be purchased at the Hendrix Center, Union Box Office or Alumni Center. To order by mail, send a check (made out to Clemson University) with a self-addressed stamped envelope to TIGERAMA TICKETS, 2265 University Station, Clemson SC 29632.

CSM ‘March madness’

Clemson’s construction science and management (CSM) department reached out to its alumni in five different regional meetings in three states, all in the month of March.

CSM leaders met with more than 100 alumni in Greenville; Columbia; Charleston; Charlotte, N.C.; and Atlanta, Ga., areas, representing 10 percent of the department’s graduates.

The gatherings renewed ties, made new connections and collected business cards for the CSM “Wall of Honor.” The alumni events were so successful that the department plans to continue visits in the coming year and to include other major cities. For more information, contact Roger Liska, CSM department chair, at riggor@clemson.edu or call (864) 656-0181.

Game Day

Join the Alumni Association for Tiger football this fall — at home and away. Start each home game with a visit to the Alumni Center's Pregame Open House. At least two hours before kickoff, the center will provide light snacks, big screen TV, restrooms, fun freebies and a great pregame meeting place.

For away-games, be sure to plan your trips with the Alumni Association. This year's packages include one-day charter flights for two of the games. Call (864) 656-2345 for the latest information on official Clemson Away-Game Headquarters and information on Pregame Tailgate gatherings or visit the Web at alumni.clemson.edu.

Adventure 2005

The Alumni Association has lined up an exciting series of adventures through PASSPORT Travel for the coming season — a river cruise of Austria's holiday markets in December 2004, an Australia/New Zealand cruise in late February and early March 2005, Alaska by land and sea in July, Italy's lake district in August and a Scotland motor coach tour to be scheduled. For more information, call the Alumni Center at (864) 656-2345 or visit the Web at alumni.clemson.edu.

2004 Tiger Football

Sept. 4 — Wake Forest — Hall of Fame/IPTAY Day
Sept. 11 — Georgia Tech — Parents/Family Weekend
Sept. 18 at Texas A&M
Sept. 25 at Florida State
Oct. 2 — Open Date
Oct. 7 at Virginia
Oct. 16 — Utah State — Homecoming
Oct. 23 — Maryland — Military Appreciation Day
Oct. 30 — N.C. State — Youth Day
Nov. 6 at Miami
Nov. 13 at Duke
Nov. 20 — USC — One Clemson/Solid Orange Day
May graduates gathered on Bowman Field in April for Senior Picnic, part of Senior Week, sponsored by the Student Alumni Association.

The Student Alumni Association, open to all Clemson students, has many other bonuses for students year-round. It offers local business discounts, professional benefits for career planning, leadership opportunities and fun activities. Dues are $20, with $5 going to the Clemson Fund to support student projects and programming. For more information, visit the Web at alumni.clemson.edu/saa, email saa@clemson.edu or call (864) 656-2345.

Marketing major Mike Eckel wore a Tiger Paw on his shirt as he ran in the Country Music Marathon in Nashville, Tenn., earlier this year. He says several spectators launched into the Clemson cadence count when they spotted the orange paw, giving him a boost of energy to finish.

A Clemson team of horticulture students won top honors in several events in the American Landscape Contractors Association Career Days competition last semester.

The team won first in both landscape installation and irrigation assembly and finished in the top three in arboriculture.

Pictured at the Franklin Botanical Gardens in Columbus, Ohio, are, from left, Chris Dicks, Gregg Griffis and Brad Stowe at landscape installation. Also on the team are Jon Dube, Joshua Giordano and Brad Cavin along with adviser Ted Whitwell, horticulture professor and department chair.

Clemson automotive design students finished 12th in the international Society of Automotive Engineers’ Formula SAE 2004 competition in Detroit. Formula SAE competition challenges SAE student members to conceive, design, build and compete, using small formula-style racing cars according to a real-world design and production scenario. Limits on the car frame and engine test the knowledge, creativity and imagination of the students.

Sponsors for the 2004 car included Michelin North America, Ohlins USA, Rockwell Automation, ESAB Welding, Fluor Corp. and other supporters. For more information about Clemson’s Formula SAE program, go to www.ces.clemson.edu/~fsae.
Clemson students are working to create a memorial to honor students, faculty and staff who have lost their lives while attending or working at Clemson. Omicron Delta Kappa leadership honor society is raising money for the project, with a goal of $200,000. Student Government has come on board by donating $50,000. The memorial will be located behind the Cooper Library in an area to become the “Center of Centers.” Contributions can be sent through the enclosed envelope. Designate “Student Memorial Fund.”

Clemson architecture graduate students traveled to London, England, last semester during a studio-based study into technology in architecture. While there, some of the students found time to visit the ancient, “low-tech” but spectacular Stonehenge.

Pictured are, clockwise from top left, Joe Delaney ’00, Myles ’01 and Ashley ’00 Alexander, Jeremy Tate ’00, Dixie ’99 and Will Bullock ’97, Josh Bagwell ’03 and Chris Palkowitsch. (Ashley and Dixie were there to visit their husbands.) Not pictured are architecture students Ben and Betsy Story ’00 and professor Franca Trubiano.

Meet Clemson's new student leaders (pictured) — undergraduate student body president Adam Hammond, a financial management major from Simpsonville, and vice president Katy Bayless, a political science major from Columbia. For more information about undergraduate student government, visit the Web at cuug.clemson.edu.

Clemson's new graduate student government president is Stuart Wyeth, a city and regional planning major from Charleston, and vice president is Erin Matyak, a human resource development major from Clemson. For more about graduate student government, visit the Web at people.clemson.edu/~gsg/.

Clemson's Black Graduate Student Association (BGSA) was named National Chapter of the Year at the 2004 National Black Student Government Association Conference in Cincinnati, Ohio. The award is based on the quality of workshops, social activities and community service activities.

The organization, led by president Michael McKenzie Grant, a graduate student in digital production arts, sponsors a variety of activities throughout the year, including an annual banquet to recognize black graduate students at Clemson who have a 3.7 GPA or higher for at least 12 graduate credit hours. Last spring, Clemson's BGSA recognized 63 outstanding black graduate students who meet this criteria.

Pictured from left are Clemson's BGSA officers Semret Fesseha, Michael Grant, Paulette Bosley and Melodie Miles.

Staff from The Tiger, the University's student newspaper, rubbed shoulders with Pulitzer Prize journalist Walter Mears during a spring visit. Mears was on campus as part of the Strom Thurmond Institute's Calhoun Lecture Series. The Associated Press writer and editor has covered 40 years of presidential elections by hitting the campaign trail along with the candidates — from John F. Kennedy to George W. Bush.

Clemson National Scholar Mike Stadnisky gets a kiss from Talon at the Dolphin Research Center in Grassy Key, Fla. Stadnisky and 11 other Clemson National Scholars participated in the center's weeklong DolphinLab as part of the National Scholars' annual Maymester expedition.

After spending several weeks at Clemson with biological sciences professor Jerry Waldvogel to learn about marine mammals, the students received hands-on — or flipper-on — learning about the physiology, ecology, training and behavior of dolphins and sea lions.
Classmates

Outstanding APO
Maurice D. Rice ’51

Agriculture graduate Maury Rice of North Augusta recently received Clemson’s Gamma Lambda chapter of Alpha Phi Omega’s Distinguished Alumni Service Chair award for his outstanding service to country, community and campus.

Rice spent nearly 25 years in the U.S. Army, serving two tours of duty in Europe and two in Vietnam. He’s also served in countless leadership and community service roles.

He’s driven at least 100,000 miles doing volunteer work in the past 20 years and donated thousands of hours for causes such as TriDevelopment in Aiken, which provides care for more than 400 handicapped persons in the county. He’s delivered peaches donated by local growers to more than 100,000 people, including nursing home residents and those served by need-based agencies.

He received the Order of the Silver Crescent from S.C. Gov. Jim Hodges for volunteer work.

At Clemson, Rice was regimental executive officer (the No. 2 cadet in his class). He was named to Who’s Who in American Colleges and Universities and was a distinguished military graduate.

A veteran of the Clemson Senior Drill Platoon, Rice has performed with other platoon veterans over the past few years. He has also served on two fund-raising committees for the University — one for the Military Heritage Plaza and the other for the Class of 1951’s 50th anniversary gift to the University.

1950
Davis O. Heniford Jr. (PRE-MED) received two top state honors last spring. The Loris and North Myrtle Beach business and civic leader received the Order of the Palmetto from the S.C. governor’s office. Heniford, a former S.C. highway commissioner, also was honored as the namesake of the Davis Heniford Jr. Interchange. Four of his seven children have Clemson degrees as well. Darra W. Corbhan ’69 and Mark E. ’78, B. Todd ’86 and Drake Davis ’90 Heniford.

1963
John Philip Farmer Jr. (AGED) of Wilmington, N.C., was elected to the board of directors of the Wheat Quality Council, a national organization for improving the value of all U.S. wheat classes for products, millers and processors of wheat.

1964
G. Larry Wood (EE) of Atlanta, Ga., received the Alvin B. Cates Award from the Atlanta Commercial Board of Realtors for the most outstanding real estate transaction of the year. This was his second time receiving this award.

1969
Philip G. Buckhiester (MATH, PhD ’73) of Dahlonega, Ga., is vice president of academic affairs at Tri-County Technical College in Pendleton.

1970
Steve W. Baker (INDMGT) of Delmar, Md., has merged his company Steve Baker Insurance with Hanna Kremer & Tilghman of Salisbury.

1971
Allen G. Edwards (ENGL) of Knoxville, Tenn., president of Pellissippi State Technical Community College, has been named to the board of directors of the American Association of Community Colleges.

Ken M. Ewan Jr. (PREARCH) of Raleigh, N.C., is vice president of the pharmaceutical business unit in the Carolinas division of Skanska USA Building.

1974
J. William “Bill” Taylor (POSC) of Cheraw was elected to a three-year term on the executive board of the International City & County Management Association as vice president representing the Southeastern region. He’s the town administrator for Cheraw.

Marilyn Walser Thompson (ENGL) of Deale, Md., is the editor of the Lexington Herald-Leader in Lexington, Ky.

1975
Warren S. Carpenter (PREARCH) of Seneca was awarded the Order of the Palmetto from the S.C. governor’s office. He’s owner of Carpenter Built Inc. and The Arts Co.

1977
Paul William Stringer (M BUSADM) of Laurens is chairman and chief executive officer of The Palmetto Bank.

1978
Luther Don Newton Jr. (INDE) of Pendleton was named the S.C. Nursery and Landscape Association’s 2003 Landscape Contractor of the Year. He’s president of Green World Inc.

1979
Mary Gay Ezell Drake (NURS, M ’94) of Anderson received the Palmetto Gold Award from the S.C. Nurses Foundation for ex-

Splashy backdrop
J. Lewis ’57 and Carolyn Cromer

Lewis and Carolyn Cromer of Columbia pause for a photo at Iguazu Falls on the border of Argentina and Brazil. Lewis, a national board member of the American Board of Trial Advocates, and his wife, Carolyn, traveled with other board members and national officers to South America earlier this year.

The Cromers’ son, J.L. Mann “Bubba” Cromer ’85, is an English graduate and an attorney, and daughter, Chelle Cromer Epps ’89, is a management graduate. Both live in Columbia.
emplifying excellence in practice and commitment to the nursing profession.

1980
Robin Long Gunn (ECHED) of San Antonio, Texas, is senior vice president of contract testing programs at Harcourt Assessment Inc.

1981
H. Dave Ballard (DESIGN, M’83 ARCH) of Pelzer is an associate and studio director for the architectural firm Pazdan-Smith Group in Greenville.

Steven C. Shirley (CE) of Greer received the Silver Beaver Award from the Blue Ridge Council of the Boy Scouts of America. This is the highest award a volunteer can receive within the council.

1982
William D. Berry (FINMGT) of Chapin is senior vice president and group credit administrator with First Citizens Bank.

Larry D. Gosnell (FINMGT) of Greenville was named treasurer at Greenville Hospital System and has received the designation “certified treasury professional” from the Association for Financial Professionals.

1983
Jim Amundsen (FORMGT) of Conway, a retired major in the U.S. Army, was appointed the junior vice commander of the Veterans of Foreign Wars Post 10420, Murrell’s Inlet.

D. Brian Brooks (CHE) of Inman is director of engineering for the engineering, maintenance, safety and environmental departments for Lubrizol Performance Products.

William L. Foster (FINMGT) of Rock Hill is senior vice president at Wachovia Corp. He manages the credit risk review administration department.

Anthony M. Sorrells (EE) of Pickens is a lieutenant colonel in the S.C. Army National Guard, where he’s served for 25 years. He’s employed with Ryobi Technologies Inc. in Anderson.

1985
M. Timothy Nelson (ME) of Greenville is president of Shainin LLC, a global quality consulting and training firm based in Livonia, Mich.

1986
Gayle K. Christopher (M ZOOL) of Leeds, Ala., is online editor for Coastal Living magazine, a division of Southern Progress Corp.

W. Brian Moody (ADMMGT) of Charleston is chief executive officer of Gamble Givens & Moody LLC, a certified public accounting firm. The firm received the title of Trident United Way Small Business Family Friendly Workplace.

1987
Paul W. (TEXTT) and Janet Basil (’88 FINMGT) Garrison are living in San Diego, Calif. He’s regional managing partner for Clarkson Consulting.

1988
David B. Anderson (ACCT) of Florence is accounting manager of McLeod Health, a regional hospital system.

Charles C. “Clay” Bush (FINMGT) is married and living in Boulder, Colo.

Leonard S. Freiberg (SOC) of Alexandria, Va., is a supervisory special agent with the Federal Bureau of Investigation assigned to headquarters in Washington, D.C.

Lori A. Haigler (MICRO) of Fayetteville, N.C., received a medical degree from the University of North Carolina-Chapel Hill and is a resident physician at Southern Regional AHEC Family Medicine.

Curtis L. McKenzie (DESIGN, ’90 ARCH) of Richmond Hill, Ga., is a licensed architect in Georgia and Virginia, is NCARB-certified and the principal of CLM Architecture LLC in Savannah.

Tigers in Haiti
Thomas C. Brown ’81, Amanda Guyton Drosieko ’82 and Jerd W. Poston ’77
Civil engineering graduate Thomas “T” Brown; nursing graduate Amanda Drosieko, a pediatrician; and microbiology graduate Jerd Poston, an optometrist (pictured from left to right), went to Haiti early this year on a medical mission with the All Saints Church of Pawley’s Island. The mission provided pediatric and adult medical care, eye and dental care, and veterinarian services. The Clemson three show their Clemson colors in the animal “waiting room.”

On the steps of the Ziggurat
Steve L. Shugart ’75 and Mark H. King ’79
Maj. Steve Shugart (left), a sociology graduate from Manning, and Lt. Col. Mark King, an agriculture engineering graduate from Johnsonville, show their Clemson colors in Ur, Iraq. They were in the ancient city, the birthplace of Abraham, to participate in a civil-military affairs cultural awareness program.

King is the commander of the Lancaster-based 3-178 Field Artillery Battalion. His unit has served from central to southern Iraq. Shugart is on loan from the S.C. Army National Guard’s State Area Command and is serving as the battalion’s chaplain throughout the unit’s deployment. His children, Jonathan and Ginny Lynn, are Clemson students.

J. Scott Williams (ME) of Florence is an interventional radiologist practicing at McLeod Health.

1989
Gregory G. Tucker (BLDSC, DESIGN) of Columbia is manager of project management services with LCK Construction Services, an affiliate of the commercial real estate firm of Colliers Keenan.

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Melanie McCulley Yenovkian (ECON) of Dayton, Ohio, completed the second edition of *Drug Litigation in South Carolina*, a legal treatise published by the South Carolina Bar and used by attorneys and law enforcement agencies throughout the state.

1990

M. Allyson Floyd (ENGL) of Myrtle Beach is serving on the professional advisory board for the department of mass communication at Francis Marion University in Florence. She’s the evening news anchor and assistant news director for WPDE-TV.

John W. Rexrode (CE) of Ocean Springs, Miss., is executive officer of the guided missile cruiser USS Thomas S. Gates, home-ported in Pascagoula. He’s deployed to the Caribbean Sea in support of counter-narcotics operations and as an escort for the Navy’s newest aircraft carrier, USS Ronald Reagan.

1991

Amanda Morrice McBride (PSYCH) is married and living in Corpus Christi, Texas. She’s a psychologist and clinical manager at Deer Oaks office.

Chris D. Swale (BLDSC) of Greenville has joined the architect firm of Pazdan-Smith Companies. He's an investment representative for K. Hovnanian of Wall, N.J., is a corporate vice president of The Vaughan Group.

Robert A. Hofmann (BLDSC) of Wall, N.J., is a corporate vice president for ITT/Conshohocken.

Catherine Adair Easter (ELED, M’00 READING) of Clinton is a seventh- and eighth-grade language arts teacher, mentor teacher in the S.C. Teacher Advancement Program, and curriculum and instructional facilitator with the S.C. State Department of Education at Bell Middle School.

1992

John W. Fleming (CE) of Summerville was named a principal in the Mount Pleasant office of Hussey, Gay, Bell & DeYoung Inc. Consulting Engineers.

Chris A. Hill (FINMGT) of Taylor’s is a real estate developer with The Vaughan Group.

Tammy Butts Morton (NURS, M’96) of Westminster received the Palmetto Gold Award from the S.C. Nurses Foundation for exemplifying excellence in practice and commitment to the nursing profession. She’s nurse manager of Oconee Memorial Hospital’s endoscopy department and the OMH Center for Comprehensive Pain Management. She’s also pursuing a Ph.D. in health administration from Kennedy-Western University.

Robert E. Mottern III (HORT) is married and living in Athens, Ga. He’s pursuing a master’s degree in landscape architecture at the University of Georgia.

J. Kyle Nealy (INDMGT) of Social Circle, Ga., is a package supply manager for household products with BioLab Inc.

Catherine Crane Wilkins (MGT) is married and living in McLean, Va. She’s a medical practice manager.

Audrey L. Zahn (MKTG) of St. Petersburg, Fla., is a marketing manager for Navigant Consulting’s national health-care practice and is based out of the Tampa office.

1993

Kurt B. Aktug (POSC) is married and living in Kernersville, N.C. He’s an attorney with Egerton & Associates P.A. in Greensboro.

Randy C. Ewart (SED-MA) is married and living on Clemson Avenue in Columbia. He’s a math teacher and tennis coach at Lexington High School in Lexington.

Tracy Freeman Harvey (SED-EN) of Piedmont is with Prudential/C. Dan Joyner in Powdersville.

Christopher L. Robinson (BIOLSC) of Durham, N.C., is completing a fellowship in plastic surgery at the University of North Carolina.

1994

Julie Hasenwinkel (M BIOENG) of Manlius, N.Y., a bioengineering and neuroscience professor at Syracuse University, was named a 2004 Teaching Recognition Awards recipient. In addition to excellent teaching, she’s also engaged in research on nerve regeneration following spinal cord injury and development of a new type of bone cement for joint replacements.

1995

B. Cable Best (ME) of Grafton, Mass., is an engineering manager for Bose Corp.

Bryan Neil (BIOL) and Amanda Travis (’97 HORT) Elmore are married and living in Melbourne, Fla. He received an MBA from the University of South Carolina and is working as a product manager.
manager with Bombardier Recreational Products. She received a master's degree in geology from the University of South Carolina and is working as an environmental specialist with Brevard County Natural Resources.

Tonya Nicole Foster (CHEM) of Boiling Springs received a master of education in technology degree from Lesley University.

1996
John M. DeWorken (PSYCH, ‘97 ENGL, M ’01) of Columbia is associate vice president of communications at the S.C. Chamber of Commerce.

Scott E. (ACCT) and Amy Dries (‘97 SED) Schwan are living in Waxhaw, N.C. He's manager of corporate financial systems for SPX Corp. in Charlotte.

Heidi Homes Braxton (GRCOMM) is married and living in Charlotte, N.C.

Chris K. Canaday (FINMGT) of Beaufort received a master's degree in sport administration from Florida State University and is athletic director with Beaufort County Parks and Leisure Services.

Tara Walker Meacham (ELED) of Little Rock, Ark., is an elementary school teacher.

Nicole Kekas (GRCOMM) and Stephen D. (MKTG, M ’99 PRTM) Ross are married and living in Minneapolis, Minn. She's a lead graphic artist at Southern Graphic Systems, and he's an assistant professor of sport marketing at the University of Minnesota.

1997
Clay D. Caldwell (MKTG) is married and living in Atlanta, Ga. He’s territory sales manager for Ingersoll Rand.

Kate Hayden (ME) and Ben M. ’02 PRTM Canterbury are married and living in Fletcher, N.C.

Nicole Kekas’ (ME) of Cen-

2000
Jason Eric Ballard (HIST) of Cheraw is serving in the U.S. Army in Iraq as a 96H, CGS operator.

Ben M. (ME) and Kate Hayden (02 PRTM) Canterbury are married and living in Fletcher, N.C.

Noah L. Chitty (CRE) of Central, technical director of product standards and laboratory services for the Tile Council of America, has become chair of ASTM International Committee C21 on Ceramic Whitewares and Related Products.

The Elliott guys
Clemson students Matthew and Walter “Bud” Elliott stop for a photo with their father, Walter H. “Skip” Elliott III ’77, and grand-father Walter H. Elliott Jr. ’51 (pictured from left) before they get a ride home to Summerville and, no doubt, some advice along the way.

Dynamic duo
Diana M ’93, PhD ’95 and Miren MBA ’90, M ’92, PhD ’95 Ivankovic
Miren and Diana Ivankovic, originally from Croatia, came to Clemson in 1989 and, over the next few years, earned a total of three master's degrees and two Ph.D. degrees (Diana in zoology and microbiology and Miren in economics, business and applied economics). They defended their dissertations on the same day at the same time and walked down the aisle of Littlejohn to receive their doctoral degrees together.

Miren, who earned his bachelor's degree from Lander on a tennis scholarship, started running for exercise while in graduate school at Clemson. Unfortunately because of genetics, arthritis and overuse of the hip joints, he developed a major problem — in both hip joints.

In May 2003, he underwent a bilateral hip resurfacing procedure and was advised to give up running. But because he recovered from surgery so well and was able to resume his normal everyday activities, he soon tried running again. Diana began running herself to offer him encouragement.

Last May, both Ivankovics celebrated Miren’s one-year recovery by competing in the annual Run for Freedom, a 5K race in the Upstate. Not only did they finish, but they both won — Miren overall and Diana overall female.

The Ivankovics, who have three children, are teachers. Diana is a biology lecturer at Clemson, and Miren is an economics and finance professor at Southern Wesleyan University.

Picking up the boys after finals
The Elliott guys
Clemson students Matthew and Walter “Bud” Elliott stop for a photo with their father, Walter H. “Skip” Elliott III ’77, and grand-father Walter H. Elliott Jr. ’51 (pictured from left) before they get a ride home to Summerville and, no doubt, some advice along the way.

Blaine A. Keister (BIOCH) of Philadelphia, Pa., is attending the University of Pennsylvania School of Dental Medicine.

Marc Christopher Ramsey (ME) of Albuquerque, N.M., served two years in the Peace Corps in Ghana as a physics teacher in a village secondary school. He’s now an engineer with Sandia National Labs working to build a “petawatt class” laser.

S. Hope Smith (MICRO, M ’00) and Chris L. (’00 ECON) Sielecki are married and living in Memphis, Tenn.

Katheryn J. Thomas (ANSC) is married and living in Atlanta, Ga. She received her doctor of medicine/master of public health degree from Emory University and is attending a family and preventive medicine residency program in Pennsylvania.

Kendra Worley Thornton (SPCOMM, M ’00 HRD) is married and living in Charlotte, N.C. She graduated from the University of South Carolina School of Law and is a licensed attorney for Haynesworth, Baldwin, Johnson and Greaves LLC.

Jason Eric Ballard (HIST) of Cheraw is serving in the U.S. Army in Iraq as a 96H, CGS operator.
Leading law student
Megan E. Fontana ’02
Megan Fontana of Greenwood, a Clemson magna cum laude graduate who majored in psychology and minored in legal studies, has been elected president of the Wake Forest School of Law student body for the 2004-2005 school year. A rising third-year student, she’s a candidate for a J.D. degree in May 2005.

Fontana, who was active in academic and leadership organizations at Clemson, has continued her involvement at Wake Forest. She and a group of her fellow law students have spent the past year working with domestic violence.

Under her presidency, the Wake Forest Domestic Violence Advocacy Center has grown to more than 100 students with more than 20 second- and third-year students trained to represent domestic violence victims in court.

She has also organized a volunteer program that gives all Wake Forest law students an opportunity to spend free time with children at the local shelter for domestic violence victims and their families.

Laura Blackwelder Putnam
(PRTM, ’02 NURS) of Columbus, Miss., is a critical care nurse at Baptist Memorial Hospital.

Craig D. Story (FINMGT) of Fallston, Md., received a law degree from the University of Virginia School of Law and has passed the New York bar exam. He’s an associate with Skadden, Arps, Slate, Meagher & Flom LLP in New York, N.Y.

William Ryan Teague (POSC) of Atlanta, Ga., is a law clerk to the chief justice of the 11th U.S. Circuit Court of Appeals, the Hon. J.L. Edmondson. Teague graduated from the University of Georgia School of Law, magna cum laude and Order of the Coif.

2001
Casey M. Beard (CHEM) is married and living in Cheyenne, Wyo., where he’s a first lieutenant in the U.S. Air Force stationed at F.E. Warren Air Force Base. He’s a space and missiles officer serving as a commander for the Peacekeeping ICBM weapon system.

J. Gabe Hollingsworth (ELED) of Anderson is an admissions counselor at Anderson College and is pursuing a master’s degree in human resources development at the University.

Ashley Foster (ANSC) and Maurice T. (’02 HORTTG)
Kirkpatrick are married and living in Atlanta, Ga. She’s a sales consultant for Lincoln/Mercury, and he’s golf course superintendent at the Atlanta Athletic Club.

Lucie Norvell Maguire (CE) of Charleston is working for Thomas and Hutton Engineering Co.

Patrick Joseph Mills (POSC) of Minot, N.D., is stationed with the 23rd Bomb Squadron at Minot Air Force Base.

2002
Stephen E. Anderson (M BUSADM) of Winston-Salem, N.C., is an analyst in the public finance investment-banking group at Legg Mason Wood Walker Inc.

Catherine Strouge Cappiello (GRCOMM) is married and living in Macon, Ga. She’s a customer service representative for Panaprint.

A.J. Cereciello (FINMGT) of East Brunswick, N.J., was co-recipient of the National Republican Congressional Committee Businessman of the Year Award for voluntary consulting. He is in risk management for ICAP North America, a Wall Street firm.

Paul J. (POSC) and Beth Jamieson (’03 PRTM) Daigle are married and living in Enterprise, Ala. He’s an AH-64D Longbow Apache pilot in the U.S. Army.

Kathleen A. Edwards (CRD) of Homestead, Fla., is executive director of the Dade County Farm Bureau and president of Florida Agri-Women.

Tyler F. Whitehouse (FINMGT) of Hampden, Maine, is vice president of investments at First Republic Group in New York, N.Y.

2003
Jackie M. Dowd (ACCT) of Milldorithian, Va., successfully completed the CPA exam. She’s with Goodman & Company in Richmond.

Josh Roberts (SED-EN) was elected mayor of West Union earlier this year, and, at age 23, became South Carolina’s youngest mayor.

P. Ryan Smith (HIST) of Chicago, Ill., is a specialty lines health-care/malpractice insurance broker.

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

Four and counting
Tomeka Y. and Shanika D. Smalls ’04
When sisters Tomeka and Shanika Smalls of Vance received their Clemson diplomas in May, their family had déjà vu of sorts. Tomeka, a computer engineering major, and Shanika, a communications major, joined their older brother, Rodrick, and sister, Wendy, in becoming Clemson graduates, and passed the responsibility on to their younger brother, LeRone.

Pictured at the 2004 Commencement are, front row from left, Tomeka and Shanika; nephew Derrick, who plans to come to Clemson and major in entomology; and LeRone, a rising sophomore at Clemson. Behind them are mechanical engineering graduate Rodrick ’00, parents Robert and Mary, and microbiology graduate Wendy ’91. Wendy, Derrick’s mom, also holds a degree from the Medical University of South Carolina, a master’s degree from Webster University and is pursuing Ph.D. study at the University of South Carolina.
Tiger in Thailand
Kelly A. Hancock ’99

Marine 1st Lt. Kelly Hancock, a sociology graduate, stands in front of his UH-1N Huey helicopter at Tha Mai airfield in Thailand while taking part in Operation Cobra Gold. The operation is an annual exercise that builds international relations with different countries in Southeast Asia.

Hancock returned from Iraq in July 2003 and left for Okinawa, Japan, in December 2003 where he’s assigned to the 31st Marine Expeditionary Unit. He’s scheduled to return to Camp Pendleton, Calif., this summer and to his wife, Sunburst Crockett, a 1999 forestry graduate.
New books by Clemson writers

Southern Fried by Cathy Anderson '79 (pen name Cathy Pickens) Financial management graduate Cathy Anderson teaches at Queens College of Charlotte, N.C., by day. But, by night, she writes about murder. In fact her premiere novel — Southern Fried — earned St. Martin’s Malice Domestic Award for Best Traditional Mystery.

The novel is set in Upstate South Carolina and features a female lawyer returning to her hometown after losing her job with a large defense firm. She finds herself embroiled in a murder, an environmental fraud and her own outrageous family. Anderson, who teaches in the McColl Graduate School of Business, writes under the pen name Cathy Pickens. You can visit her Web site at www.cathypickens.com.

Fuzzy Freddy Fungus by Robin B. Sr. M '62 and Robin Jr. Kelley The Kelley father-son team, Robin Sr. of Anderson and Robin Jr. of Atlanta, Ga., has released a children's book on science. Fuzzy Freddy Fungus is a whimsical but factual learning experience about how fungus affects everyone’s daily life from yeast for making bread rise to remedies for a sore throat.

The Kelleys have combined their collective science and marketing expertise to write and promote the new book. Kelley Sr., who holds a Clemson master’s degree in science teaching, taught biological sciences at Anderson College for 36 years. Kelley Jr. has 20 years’ experience in corporate communications and marketing. To contact the authors, email rbkelley@ mindspring.com.

Rally 'Round the Flag, Boys! by K. Michael Prince '81 Political science graduate Michael Prince has written a comprehensive history of the Confederate flag issue in South Carolina including different perspectives, conflicting symbolism and political impact.

Prince, a native of South Carolina, now lives in Munich, Germany, where he’s a writer and translator. Prince focuses on the political and cultural impact of war, in particular of the Civil War and WWII, and the meanings applied to historical experience. For more information on his book, call the University of South Carolina Press at (803) 777-4848 or visit the Web at www.sc.edu/uspress.

Archi-toons by Rick T. Bynum M '88 Architecture graduate Rick Bynum of Greenville completed his fourth book, Archi-toons, 120 pages of original cartoons that explore the lighter side of architecture, design and the construction industry. It was featured last fall in AIArchitect (Oct. 6, 2003).

Bynum is the founder and principal of Bynum Architecture in Greenville, specializing in private residences, historic preservation and commercial projects. For more on his latest book, visit the Web at www.archi-toons.com.
Temporary staffing is the new trend in workforce development. Three out of four companies in almost every career field are using staffing agencies to help find qualified employees. On any given day, more than 2.5 million temps are on the job in the United States. And a third or more find permanent employment through their temporary assignments.

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Web: alumni.clemson.edu

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The Clemson Family

Little Tigers

J. Douglas Jeter ’85, a son, Matthew Adrian, Nov. 22, 2003.
Melanie McCulley Yenovkian ’89, twin daughters, Lillie Cana Quincy and Lucie Juris Markarid, Aug. 8, 2003. This is her second set of twin daughters!
Catherine Adair Easter ’92, M ’00, a daughter, Addison Adair, July 29, 2003.
Carissa Audi and Jason Hayburn ’92, a son, Ben Audi, Aug. 27, 2003.
Kurt B. Aktug ’93, a son, Samuel Cole, Nov. 6, 2003.
Jeffrey Franklin Buice ’93, M ’95, a son, Ryan Lewis, Sept. 13, 2002.
Anthony M. ’93 and Cassandra Vinson ’94 Knight, a son,
Sandy Bell McGinty ’93, a daughter, Caitlin Elizabeth, Aug. 19, 2003.
Miriam Frediani Gibson ’94, a daughter, Margaret Rose, Aug. 12, 2003.
Susan Magargle Johnson ’94, a son, Griffin Andrew, June 8, 2003.
B. Cable Best ’95, a daughter, Brooke Caroline, Jan. 31, 2004.
What’s new? We like to hear from you.

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

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

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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.
Passings

H.L. Shands '29, Florence
Joseph R. Adair Jr. '32, Laurens
William Bryan “Judge” Keller ’33, Clemson
Sawyer A. Cooler ’35, Ridgeland
Francis E. “Jimmy” Cook ’36, Wagner
George Law “Pete” Marshall Jr. ’36, Ware Shoals
Robert A. Banister ’39, Greenwood
Frampton W. Durban ’39, Aiken
William A. “Dan” Rouse Sr. ’39, Luray
Jesse C. Crumbley Jr. ’40, Charleston
William E. LaGrone ’41, Johnston
William Leonhirth ’41, Sumter
W. Hampton Wigington Jr. ’41, Anderson
Russell B. Abee ’42, Hickory, N.C.
Charles H. Browne ’42, Florence
Frank J. Haddon ’42, Greenwood
Goodwin C. Thomas Sr. ’42, Rock Hill
George H. Bamberg Jr. ’44, Charleston
John C. Hedden Sr. ’44, Walhalla
Joel A. Berly Jr. ’47, Clemson
Henry L. Parr ’47, Newberry

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

Robert E. Dye Sr. ’63, Anderson
Mary Richey Martin ’66, Pendleton
Benny C. Smith ’68, Williamston
John F. Suber ’68, M ’80, Holly Hill
Edgar B. “Bobby” Abrams ’70, Anderson
Deborah Man-Yee Lieu ’80, M ’83, Hong Kong
Faye Thomas Blevins ’93, Anderson
Syed Khurram Ashraf ’98, Pakistan

Andrew J. Zabierek ’00 of Chelmsford, Mass., a Marine Corps lance corporal, died in Iraq May.

Former women’s tennis student-athletes Ania Dolinska from Poland and Milene Stanycheva ’03 from Bulgaria along with Clemson business man Glen Howle ’91, M ’93, who was Stanycheva’s fiancé, and his father Jerry Howle of Reno, Nev., died when their small plane crashed near the Grand Canyon in May.

Christopher J. Duckenfield, vice provost for computing and information technology at Clemson, served the University for 26 years overseeing Clemson’s computing needs. He was instrumental in opening the first state research park with the building of the Information Technology Center in the Clemson Research Park in 1987.

He spearheaded Clemson’s single user/id-password system, the collaborative learning environment and the virtual laptop. He oversaw the transition from Clemson’s mainframe centric computing to today’s network centric environment. In addition, his staff developed and maintains the S.C. Medicaid system and has two commercial software products used worldwide.

Memorials may be made to the Clemson University Foundation. You can use the enclosed envelope and designate your gift for The South Carolina Review.

Memorials can be directed to The South Carolina Review in the Clemson English department through the Clemson University Foundation. You can use the enclosed envelope and designate your gift for The South Carolina Review.

Richard J. Calhoun, Alumni Professor Emeritus of English, taught at Clemson for 34 years. A founding editor of The South Carolina Review, he brought the literary journal to Clemson in 1973. He edited it for 20 years and helped it grow into the internationally read journal of American and Southern literature that it is today.

Memorials can be directed to The South Carolina Review in the Clemson English department through the Clemson University Foundation. You can use the enclosed envelope and designate your gift for The South Carolina Review.

FACULTY AND STAFF

D. York Brannock Jr., professor emeritus of French
Jack C. Howard, information resource consultant
Peter R. Nelson, former professor and department chair of mathematical sciences
Homer Patrick, retired poultry science professor
The Clemson Family

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#11 Tigers Flip Flop pendant with 18" chain $18.95

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Grooming Garfield

The man behind Garfield, the cat, is a Tiger. Clemson alumnus Karl Herbst '95 led 250 digital artists for the movie Garfield, which opened in June.

As digital effects supervisor at Rhythm & Hues in Hollywood, Calif., Herbst was in charge of grooming and zooming everything involved with the way the lasagna-loving feline looks and moves on film.

To prepare for the movie, Herbst's crew studied cats on film and listened as animal anatomists and behaviorists detailed everything down to how a cat's facial muscles move.

“My job is split between the technical and the aesthetic,” says Herbst. “My work at Clemson prepared me for the work I do here every day because I have a background in both.” Herbst graduated with a degree in design. He also studied architecture at Clemson but eventually switched from buildings to characters.

Several years ago, Clemson began offering a master of fine art (MFA) in computing, now called digital production arts, a professional degree program aimed at electronic arts, particularly special effects for entertainment and commercial video and film. Instruction is a unique blend of art, computer science, computer engineering, graphic communications, performing arts, philosophy and psychology, together with courses targeted at specific production techniques.

Clemson graduates Marc Bryant '99, M '03, Robert Helms '00, M '03, Rebecca Johnson M '03 and Will Whaley '99, M '03 also worked on the Garfield film with Herbst. Other Clemson alumni at Rhythm & Hues are Josh Tomlinson M '02 and Dave Stone '99, M '03.

For more information about Clemson's digital production arts program, visit the Web at www.vr.clemson.edu/dpa or email John Kundert-Gibbs at jkundert@clemson.edu.

Interlink

Clemson alumnus Ron Oakley is featured in the March 2004 issue of Interlink, the global magazine for Lend Lease. Oakley, a 1972 building science graduate, became the company's chief executive officer of the Americas business last fall. The organization encompasses Bovis Lend Lease, Actus Lend Lease, Capital and Real Estate Services, and Real Estate Investments.

Before joining Lend Lease, Oakley spent 24 years with the Fluor Corp., where his final position was as group executive of government in which he was responsible for all federal services units including the Department of Energy, Department of Defense, Department of State and other federal agencies.

The Oakley family is solid Clemson. Wife, Carole Wilson '71, M '73, is an education graduate; daughter, Heather '97, is an international language and trade graduate; son Sean '04 is a parks, recreation and tourism management graduate; and son Zachary is a senior in business and marketing.

Breakthrough in Science

The April 2004 issue of the international journal Science reported a discovery by a Clemson scientist that challenges 40 years of marine research.

Clemson professor and alumnus Andrew Mount PhD '99 and colleagues found that the shell growth of the Eastern oyster begins within its blood cells. The research advances the understanding of how animals make hard tissue such as shell, bone and teeth, and it may lead to cures for disease and bone replacement materials.

Co-authors include Alfred “Hap” Wheeler, chairman of the Clemson biological sciences department, Rajesh Paradkar with Dow Chemical Co. and Dennis Snider of Carl Zeiss Inc.

Using a scanning electron microscope to study immune blood cells from oysters, the team discovered that some cells contain crystals believed to be calcium carbonate — a basic substance in hard tissue. They also observed that the number of crystal-bearing cells increased 300 percent when an oyster is healing a shell fracture.

Researchers hope that an understanding of biomineralization, the process by which living creatures turn elements into crystals, will lead to breakthroughs in medical and material sciences. Boston Globe, Herald Tribune of Sarasota, Fla., and Biophotonics International (July issue) also carried articles on Mount's findings. For more on his research, visit the Web at www.clemson.edu/aorl.
So long, Gunther

When the long-running, wildly popular TV series “Friends” came to an end last May, Clemson fans said goodbye to their favorite cast member, alumni J. Michael Tyler ’84.

Tyler played Gunther, the quirky manager of Central Perk coffee house. His role evolved from a nonspeaking part into the familiar bleach-blonde character with a constant crush on Rachel.

As a college student in the early 1980s, Tyler transferred from Anderson College to Clemson and earned a bachelor’s degree in geology. He later earned a master of fine arts degree in drama at the University of Georgia.

“Clemson was probably one of the most special times in my life,” he says. “There were wonderful professors who genuinely cared about their students. That experience really prepared me for life.”

At Clemson, Tyler was a member of the Clemson Players, the University’s student theater group. Tyler says performing at Clemson sparked his interest in becoming an actor. For more about Clemson’s performing arts, visit the Web at www.clemson.edu/PerfArts.

In Chemical & Engineering News

The findings of Clemson alumnus Edward T. Samulski ’65, a chemistry professor at the University of North Carolina, have made the pages of Chemical & Engineering News, the newsmagazine of the chemical world. Samulski and colleagues have provided evidence of a new phase in liquid crystals that could lead to faster responding liquid-crystal displays. For more on Samulski’s work, see Chemical & Engineering News, Vol. 82, No. 16, p. 6.

Clemson-ICAR

Clemson’s International Center for Automotive Research continues to make the news. From Reuters to City News Service, AutoWeek to Design, and newspapers across the Southeast, the center is a topic of interest both in automotive research and in economic development.

The 400-acre center, on Interstate 85, in Greenville, promises to make South Carolina a hub of the nation’s automotive and motorsports industry. Site development is already under way for a graduate engineering center and an information technology research center that will focus on automotive software systems for BMW products.

Future R&D facilities could include a full-scale wind tunnel, a crash-worthiness lab and a fuels lab with an emphasis in hydrogen-based research. For the latest on Clemson-ICAR, visit the Web at www.clemson.edu/autoresearch.

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Support the Clemson Libraries and make an investment in the future of the University. Please use the enclosed envelope and designate your gift for the Libraries, or go to www.clemson.edu/isupportcu to make a secure online gift.
Bouknight joins medical center

Clemson’s chief development officer Mendal Bouknight ’74 has been named vice president for development and executive director of the foundation for Piedmont Medical Center in Atlanta, Ga.

Before joining Clemson’s development staff four years ago, Bouknight spent 17 years in key fund-raising and alumni-relations positions at Emory University, rising to the post of associate vice president for development for Emory’s Robert W. Woodruff Health Sciences Center.

The 1974 graduate has served Clemson as an Extension agent, alumni field representative, president of the Alumni Association, director of the Clemson University Foundation and a member of the Commission on the Future of Clemson University.

“Waking up every day with a passion for Clemson and the knowledge that I have had a role in achieving our vision is a joy and motivation without equal for one who has Clemson in his soul,” says Bouknight. “I will remain close and continue to support Clemson’s vision in every way possible.”

Golden Class of 1954

Class of 1954 members gathered on the Military Heritage Plaza for a photo shoot during their golden anniversary celebration in June.

In addition to meeting with old friends, seeing what’s new on campus and learning the latest at Clemson, the class celebrated its amazing legacy of support.

In 1996, in preparation for their 50th anniversary gift, class members set a goal of $1 million in unrestricted scholarships. They not only reached their goal but surpassed it by raising $1,430,640.

In fact, their total academic support since graduation is more than $6,866,080. And their total giving to Clemson over the past 50 years has been $7,926,700. The Class of 1954 continues to believe in the value of a Clemson education and investing in its future.

Class projects and annual giving are essential to a strong University. To see how your class is doing, visit the Web at alumni.clemson.edu/projects/update. To help raise your class’s giving record, use the enclosed envelope, call (864) 656-5896 or make a secure online gift at www.clemson.edu/isupportcu.

In LeaderShape®

Thanks to private support from Jan and Nita Fredman, Clemson students have an opportunity that no other S.C. institution offers — a campus-based LeaderShape® program — an intensive six-day program committed to developing people to lead with integrity.

The Fredmans established the Cathy Campbell Turner Leadership Endowment within the Clemson University Foundation to honor Cathy Turner ’76, assistant dean of students during the 1970s, who helped set the standard for professional student development at Clemson.

This endowment will provide support for LeaderShape® and other programs and services to assist students in leadership development and in making a difference in individuals, families, the work force and the nation.
Your Footprints

Everyone leaves footprints on the sands of time. Our prints are made by the imprints of our lives on others. A person is remembered for the weight of his or her character. For marks of accomplishment. For length of compassion. For width of personal warmth. For generosity. For values.

When we leave positive impressions behind, we enhance the lives of our friends and loved ones. We give them footprints to follow.

Thoughtful estate planning is one means we have to make a print in the sand to help others recall our priorities. For example, consider the effect of a plan that includes not only provision for family members, but also resources for charitable organizations such as Clemson University.

An estate gift makes a positive statement.

When you include the Clemson University Foundation in the final disposition of your estate, you declare to your family and friends that you believe in and care about the mission of the University. Your parting gift becomes a clear declaration of your values.

An estate gift provides needed funding.

Estate gifts are especially valuable, not only because they tend to be larger than annual gifts, but because they often come at critical times. They provide that extra boost to the budget that can make the difference between program advancement and program retrenchment.

Estate gifts can be designated for a specific purpose or they can be unrestricted for use where needed most. They can fund endowments that perpetually provide an ongoing witness to your friends and loved ones that you believe in the work of Clemson.

An estate gift encourages imitation.

There is something about a well-planned estate gift that influences others to “go and do likewise.” As friends and family members plan their own estates, they may recall your generosity and thoughtfulness. Your gift may unlock resources for Clemson University from other estates.

When Thomas Green Clemson made a provision in his will for a “high seminary of learning,” he left indelible footprints on the future of our state and country. The Clemson Legacy Society honors that foresight and those who follow his example. Alumni and friends who make provisions in their own wills to support the University will also have the opportunity to sign the Clemson Registry, an archival-quality, leather-bound registry, in honor of our founder’s legacy.

For information about including Clemson in your estate plan or the Clemson Legacy Society, call JoVanna King at (864) 656-0663 or 1-800-699-9153.

Natural ‘partners’

Longtime S.C. Peach Council member Ray Flemming ’48 has always valued Clemson’s fruit research program. He and his wife, Evelyn, made a generous gift to help fund more Clemson research. When Evelyn passed away last year, memorials in her name further added to their gift.

To honor the Flemmings’ example and to add to the impact of their gift, the council also made a large financial donation. Together they’ve established the South Carolina Peach Council Research Quasi-Endowment Fund. Proceeds from the endowment investments will help support peach research at the University’s Musser Fruit Research Center.

The S.C. Peach Council, representing the state’s wholesale shippers as well as smaller basket growers, annually awards over $80,000 to peach researchers at the University.

South Carolina’s peach industry, second only to California in production, contributes an average of $40 million to the state’s economy each year and provides thousands of jobs. For more information about supporting the peach research endowment at Clemson, contact Louise Hopkins at lhopkin@clemson.edu or (864) 656-3612.

Leading entrepreneur

Clemson’s Spiro Center for Entrepreneurship has gained a world-class scholar — William B. Gartner — for the center’s named professorship. Gartner, the most-cited author of related articles in the past three decades, has been named the Arthur M. Spiro Professor of Entrepreneurship at Clemson University.

Joining Clemson from the Lloyd Greif Center for Entrepreneurship at the University of Southern California, Gartner is a founder of the Entrepreneurship Research Consortium, which initiated, developed and managed the Panel Study of Entrepreneurial Dynamics, a multimillion-dollar research project.

At Clemson, Gartner will help enhance the reputation of the College of Business and Behavioral Science within the academic and business communities. He will also create Ph.D. and postdoctoral fellowship programs in entrepreneurship for the Spiro Center.

Clemson is able to attract the stellar faculty member because of private giving through the Spiro Center Endowment. Private support is essential for Clemson to attract eminent faculty members and provide them with the resources to build innovative programs to give students a competitive advantage for success.

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“Treat everyone with dignity and honor and fairness.”

William Bryan “Judge” Keller ’33
1919-2004

Clemson says goodbye to downtown icon and resident gentleman William Bryan “Judge” Keller of Judge Keller’s Store. Keller ’33, pictured right, has been part of the Clemson fabric since he took over the family business in 1947. His son, Leonard ’70, pictured left, carries on the Clemson tradition.