FEATURES

Lever’s Great Act
See why Frank Lever holds a special place among residents of Cemetery Hill.

The Essence of Clemson
Meet five alumni who represent the best of Clemson.

‘7 Habits’
Discover an exciting new program for the state’s youth.

Reporting from Baghdad
Clemson employees and students are serving a world away from campus.

Winning Designs
School of Architecture students and faculty are attracting national attention.

Matters of the Heart
Keeping the heart from hardening is more than a metaphor for this scientist.

World of Promise
Clemson researchers are making discoveries unimaginary a few years ago.
Fire, snow and the Clemson Family

Often I am given the opportunity to talk to prospective students about Clemson University. These students usually have options to attend many colleges, so I try to explain the distinctive qualities of Clemson. In those conversations, I always tell them about the Clemson Family.

Sometimes the idea that a large university could be a “family” is met with skepticism. But Feb. 25, 2004, proved that the Clemson Family is not just an empty phrase. On that date, a fire destroyed an off-campus apartment complex and left more than 100 students homeless. Thankfully, no one was hurt because of the swift and thorough response of police, firefighters and emergency staff from the city of Clemson and Clemson University — men and women who risked their own safety to ensure that everyone escape the fire unharmed.

As these young people stood and watched the building burn, the realization of what they had lost began to sink in. Many were left with nothing other than the clothes on their backs. They had no place to live, no clothes, no books, no food, no computers — nothing.

But as the firefighters worked, people from the University and community were gathering just across the street — at the Alumni Center — mobilizing to help the fire victims. In less than an hour, volunteers from the American Red Cross and University departments had a crisis center up and running to provide for the students’ immediate needs — a place to stay, a change of clothes, basic personal care items and answers to their many questions.

Faculty, staff and community members called to open their homes to the displaced students. Student leaders met to organize a clothing drive. Local and campus businesses began delivering pizzas, sandwiches, soft drinks and snacks to the crisis center for students and staff who were working through the night.

Thanks to an existing Student Emergency Fund established several years ago through the Clemson University Foundation, students each received a $50 credit on his or her University debit account immediately so that they could eat in the dining halls or purchase necessities.

The next day, despite a snowstorm, donations of clothing, toiletries and other household goods began to arrive and soon overwhelmed the space that had been set aside for the clothing drive. Dozens of businesses sent money, gift cards, household items, medical supplies and clothing. The community was so generous that we had to send out a request for people to STOP.

The donations far exceeded the need, especially since the students were so reluctant to take more than a few items, explaining to workers who encouraged them to take more, “I want to be sure there’s enough for everyone.” (Parents, if you have ever wondered if you raised your children right, stop worrying.) Clothes and toiletries that remained were shared with other local charitable organizations, multiplying the positive impact of these donations.

In addition, more than 200 donors have contributed nearly $30,000 to the Student Emergency Fund, which will help ensure that all of these students will have most, if not all, of their needs met. The donors range from current students who gave as much as they could to a custodian who sent $50 with a note saying, “If you have more than you need, don’t return this; save it for another student who might need it someday.” A couple who had lost their

[When a fire struck an off-campus apartment complex and left more than 100 students homeless, we were all reminded that the Clemson Family is real.]
apartment to fire while attending Clemson in the 1970s remembered how the community had come to their aid and wanted to return the favor. They enclosed a check for $5,000.

The response was deeply appreciated. In the days since the fire, I have received many heartfelt emails, phone calls and letters that tell the story far better than I can. Here are just a few samples:

“It brought tears to my eyes as I watched students bring in their own personal belongings and give them away so selflessly. ... The giving hearts of this campus have turned what could be a very dark moment in my life into what will be one of my fondest memories.”

“The outpouring of help the school and community have offered is unbelievable. Our every need has been met in this time of tragedy.”

“I want to thank you, Clemson University, ... for seeing us through one of the most difficult times in our lives.”

“This afternoon, I witnessed with pride that Clemson students, faculty and staff ... will always be there in times of need.”

“As a parent of a Clemson student, I continue to be impressed with the Clemson Family and their level of caring for each other. Just another example of ... why Clemson is such a great place!”

“The Clemson Family came to our son’s rescue. We are very blessed to have him at Clemson.”

These students and parents were deeply touched by the generosity of the faculty, staff, students, alumni and members of the Clemson community. Some were surprised to learn that this truly is a family. I, of course, was proud, but not at all surprised. The Clemson Family is real.
Photonics’ bright idea for jobs

CLEMSON’S LIGHT-BASED PHOTONICS RESEARCH HAS TURNED a bright idea into additional jobs, tax dollars and high value products — earning an intensely competitive federal grant in the process.

Pendleton-based Tetramer Technologies, LLC — a company that spun off from research conducted at Clemson — has received a small-business innovation research award from the National Science Foundation (NSF) to continue work in photonics materials research and development. The $500,000 award builds on two $100,000 grants received from the NSF small-business program last year.

Photonic materials, such as those being developed at the University, are projected to continue to replace electronic components over the next 10 years, creating new products worth more than one billion dollars globally.

Safer air travel

AIRCRAFT INSPECTORS MAY BE ABLE TO spot problems faster thanks to a virtual-reality inspection program being developed by Clemson. The research is funded through nearly $2.5 million in grants from NASA, the Federal Aviation Administration (FAA) and the National Science Foundation.

The multidisciplinary effort is led by Anand Gramopadhye, industrial engineering professor and department chair, and Andrew Duchowski, computer science professor.

Under the most recent grant, $500,000 from the FAA, Gramopadhye and Joel Greenstein, also of industrial engineering, are working with graduate students to develop an Internet-based software tool that will help the air-transport industry identify potential maintenance problems and prevent maintenance errors. The system will be unveiled in late 2005.

In a related project, Clemson is working with Greenville Technical College to develop high-fidelity virtual reality simulations that can mimic a wide-bodied aircraft hangar environment in the laboratory. Integrated within this environment is state-of-the-art eye movement technology that tracks the trainee’s eye movement, allowing the monitoring of scan-paths.

The Clemson research team also includes industrial engineering professors Brian Melloy and Michael Leonard.

Extension helps military families

MILITARY FAMILIES IN RICHLAND, CHARLESTON AND SUMTER counties will benefit from a $23,000 grant to Clemson Extension for 4-H programming at three military facilities.

The 4-H Military Program is funded by a partnership grant shared among the U.S. Department of Agriculture, U.S. Army Child and Youth Services and U.S. Air Force Family Member Programs. It will be implemented at Fort Jackson, Charleston Air Force Base (AFB) and Shaw AFB.

The grant will be used to provide a positive youth development experience for families of new recruits at Fort Jackson by offering 4-H programs at base facilities. Extension will work with youth center staff at the Charleston AFB to develop a plan for 4-H and offer youths and parents options for after-school programming. Working with the Shaw AFB Youth Center director, Extension will offer programs to the children and families of base personnel.

By mid-2004, the grant will also bring Extension, statewide resources, and National Guard and Reservist personnel together to further explore and develop approaches for Extension support to the families of deployed troops.

For more information, call Barbara Brown at (803) 773-5561 or email babrwn@clemson.edu.
Clemson Professor Stephen J. Klaine, of biological sciences and environmental toxicology, received a rare invitation last fall to teach ecotourism in Cuba. Klaine (pictured top left) along with his postdoctoral research associate Mickey Taylor and a colleague from the University of New Brunswick made up the team.

Klaine’s expertise is in characterizing the impacts of land use and development on aquatic ecosystems. As such, he works with teams composed of natural and social scientists to address the challenges of sustainable natural resource development. They also evolve strategies for the coexistence of economically viable land use and good environmental quality.

Klaine has served on the board of directors for the Society of Environmental Toxicology and is an editor for the professional journal Environmental Toxicology and Chemistry. Earlier this year, he traveled to Hanoi to conduct a workshop in environmental ecosystems restoration and management.

Nobel Laureate gets Clemson degree

CLEMSON RECENTLY AWARDED Ronald H. Coase an honorary doctor of humanities degree. Coase, pictured left with alumnus John Walker ’58, is a 1991 Nobel Laureate in economic science.

Coase is regarded as the founder of the field of law and economics and is one of a handful of scholars who have profoundly influenced the development of Clemson’s economics department. Fittingly, Walker, for whom Clemson’s John E. Walker Department of Economics is named, studied under Coase at the University of Virginia.

Professor emeritus of law and economics at the University of Chicago, Coase served as editor of the Journal of Law and Economics until his retirement in 1982.

Dean Trapnell retires

Longtime Clemson leader Jerry Trapnell ’68, M ’70, dean of the College of Business and Behavioral Science, is retiring from Clemson in July. Trapnell has accepted the position of chief accreditation officer at the Association to Advance Collegiate Schools of Business International in St. Louis, Mo., and will assume those responsibilities in August.

Trapnell took the helm as dean in 1993. Under his leadership the college has gone through a successful re-accreditation process with AACSB, welcomed a $6.9 million gift for the John E. Walker Department of Economics, added an academic advising center and brought in one of the top information systems researchers in the country, Varun Grover, to lead a new management information systems program.

Sw-e-e-e-t

The South Carolina peach crop is looking good this spring thanks to a partnership between the S.C. Peach Council and Clemson and, of course, a big boost from Mother Nature. Council members continue to raise funds for peach research and promotion. Clemson scientists at the Musser Fruit Research Center have, in turn, used the research funds for projects that have enabled growers to reduce pesticide use, prolong the lives of peach trees, improve irrigation practices and combat fruit-tree diseases. South Carolina continues to be the No. 2 peach-producing state in the country.
IPTAY leaders

ONE OF CLEMSON’S GREATEST cheerleaders and best known promoters George U. Bennett ’55 has retired as executive director of IPTAY after 22 years of service to the University.

Bert Henderson M ’80, a member of the IPTAY staff since 1985, is the department’s new executive director, responsible for the annual fund and daily operations. (Bob Mahony ’76 will continue to be a key component in overall fund-raising initiatives for IPTAY.)

The Clemson Athletic Department has also named Bill D’Andrea as senior associate athletic director for external affairs. He’ll coordinate all athletic department fund raising and constituent relations, including the ticket office, marketing and sports information. He’ll oversee IPTAY and all activities dealing with the department’s capital campaign, including the Westzone Project at Clemson Memorial Stadium.

D’Andrea joined Clemson in 1983 as a graduate assistant football coach. He served as director of Vickery Hall, Clemson’s student-athlete enrichment program, from 1991 to 2002, when he was named primary athletic administrator.

Clemson in Antarctica

Professor Jim Navratil of Clemson’s School of the Environment experienced an environmental expedition to Antarctica aboard the research vessel Akademik Ioffe earlier this year. Pictured here at Neko Harbor on the Antarctic mainland, he crossed the Antarctic Circle, visited Vernadsky Station, camped on Hovgaard Island, swam near Deception Island, and observed many whales, penguins, seals and other wildlife.

Navratil is currently working on a project with the International Atomic Energy Agency’s Safeguards Analytical Laboratory at Seibersdorf, Austria. The laboratory has awarded Clemson a contract to develop and improve certain radiochemistry separation methods used in analysis of uranium, plutonium, and americium in safeguard samples.

MISTER wins

CALL ME MISTER® HAS BEEN awarded the Corporate-Community Partnership Award from the Southern Regional Council. The award recognizes the MISTER program’s success through private and public partnerships and donors along with its education partners.

The program seeks to recruit, train, certify and secure employment for 150 African American males as elementary teachers in South Carolina’s public schools. It combines strengths and resources of Clemson with individualized instructional programs offered by Benedict College, Claflin University and Morris College.
Pass-in-Review

Clemson’s Army and Air Force ROTC
Pass-in-Review in April was dedicated to the Class of ’39 for its members’ outstanding leadership and service. The annual event on historic Bowman Field honors Clemson’s military heritage.

President’s race

Marcia and Jim Barker (center) along with Clemson alumni, staff and friends participated in the Fifth Annual Presidential Race in April. The race is the brainchild of students in the parks, recreation and tourism management department to generate support for the Clemson Libraries. This year’s race, made possible by corporate sponsor Wendy’s Restaurant, raised funds for books and materials in the Cooper Library.

Top-50 ranking in grad programs

FIVE PROGRAMS IN the College of Engineering and Science at Clemson are among the nation’s 50 best, according to the 2005 edition of U.S. News & World Report’s guidebook of graduate programs.

Clemson’s environmental science program is ranked 19th among the 50 best environmental science programs in the nation. Industrial engineering is ranked at 30th, the biomedical/bioengineering program at 37th, materials science at 47th and civil engineering at 50th.

Clemson’s overall engineering school is ranked 71st among the top 100 engineering colleges in the country. The School of Education is ranked at 73rd and the School of Nursing is 58th.

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
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District 12 — Chalmers R. “Hap” Carr Jr. ’60

Carr, an industrial management alumnus of Davidson, N.C., is retired from the military.

He’s a member and current chairman of the Clemson Corps. He was appointed to the unexpired term of the previous Alumni National Council representative in his district and is serving on the executive committee. He has been a member of Clemson Clubs in Southern California and Texas and is currently a member in Charlotte where he was president for 2002-2003. Carr is also chairman of the Fort Hill Scholarship committee.

District 12 covers Western North Carolina.

District 16 — J. Les Heaton ’74

Heaton, an industrial management graduate, is a branch manager of Wachovia Securities in Bristol, Va.

He has filled the unexpired term of the previous Alumni National Council representative in his district and is currently serving on the executive committee. He supports the Clemson Fund, IPTAY and is a Tiger Scholarship donor.

District 16 covers Alabama, Arkansas, Louisiana, Mississippi and Tennessee.

District 19 — Tony S. Ferraro ’97

Ferraro, a political science alumnus, is a business consultant in Corona, Calif.

He’s president of the Southern California Clemson Club where he has coordinated events for Clemson representatives visiting in his area and alumni living there. He’s also a new IPTAY representative for Southern California.

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Clyde and Anne Dobson have been in a mixed marriage for 60 years. Clyde graduated from Clemson in 1941, and Anne graduated from the University of South Carolina in 1942.

The couple met while Clyde was working on the family peach orchard. Anne came to Greer with Carolina’s YWCA, of which she was president, to do outreach work in town. While there, she stayed at Clyde’s brother and sister-in-law’s home where she met Clyde.

“He came in wearing his purple Block C sweater,” says Anne with a laugh. “He thought that was going to impress me.” Something about Clyde did impress her, and the two were married in 1943.

In going to Clemson, Clyde had followed in the footsteps of his three older brothers. Twins Lawrence and Leonard graduated in 1934, and Roy graduated in 1939. After college, the brothers returned to work on the family farm — the Dobson Brothers Farm. After a few years of military service, Clyde and Anne also came back to the farm.

The Dobsons have four children. Their sons, Ben ’66 and Heath ’70, M ’73, carried on the family tradition of being Tigers. However, they didn’t carry on the tradition of working on the farm.

“They had more sense than we did,” says Clyde. The Dobson Brothers Farm no longer exists. A large chunk of it was sold to BMW when its Greer plant was built.

Clyde and Anne now have seven grandchildren and one great-grandchild. Two of their grandchildren are students at Clemson. Jon Henson, a Prince Scholar and Palmetto Fellow, is a senior in mechanical engineering. Jon’s father, Mike Henson, is also a Clemson alumnus with a 1978 master’s degree. Granddaughter Louise Alexander is a biological sciences major. Both are Dean’s List students.

Clyde and Anne say they don’t let the rivalry between their two alma maters come between them. In fact, the two have let their mixed marriage benefit both schools.

The Dobsons have set up a charitable remainder trust, of which three-fourths will establish the Clyde B. Dobson Family IPTAY Endowment to fund baseball scholarships. Clyde is a former Tiger pitcher himself.

The other fourth of the trust will establish the Clyde B. and Anne H. Dobson Unrestricted Endowment.

For every penny Clyde gives to Clemson, Anne gives the same amount to Carolina. Their charitable remainder trust for Carolina has been designated for scholarships in the College of Education.

They have also given to Clyde’s class project — the Class of 1941 Studio for Student Communication — and they’re members of USC’s Horseshoe and Carolina Guardians societies.

“We are both really proud of Clemson and Carolina,” says Anne. “We feel that the future of this state depends on both of these schools.”
Michelin gets on board

Michelin North America is the fourth company to join Clemson University’s International Center for Automotive Research since the auto research campus was announced in November 2003. Campus investment now tops $90 million.

Michelin North America will invest $3 million to endow a professorship in vehicle electronic systems integration. The endowed chair will promote accelerated improvement in electronics and the development of intelligent tire systems for automobiles and trucks that improve overall performance and efficiency.

Michelin joins BMW, IBM and Microsoft as partners with Clemson, and other companies and organizations are showing interest in locating in or near the auto research campus.

The 400-acre center, on Interstate 85 halfway between Charlotte, N.C., and Atlanta, Ga., 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 at the Greenville-based campus could include a full-scale wind tunnel, crash-worthiness lab and a fuels lab with an emphasis in hydrogen-based research.

Auto research chair

Clemson expects to name the auto research campus’s first endowed chair this spring. That person will also serve as director of the Carroll A. Campbell Jr. Graduate Engineering Center, the academic cornerstone of the campus.

Clemson is the first university to tap into a state lottery-generated fund to develop economic-driven research centers that will attract high-wage industries to South Carolina. The General Assembly has thus far set aside $30 million annually from lottery revenues to help fund the initiative. Clemson qualified for the state match because it had already secured a significant portion of its private sector match.

Director takes the wheel

Clemson has named Robert Geolas as director of the International Center for Automotive Research. He’s former head of N.C. State’s Centennial Campus in Raleigh and a former executive assistant to the N.C. secretary of transportation.

Geolas is responsible for managing Clemson’s automotive campus and recruiting additional partners from the automotive and motorsports industries to do research at the park. Since he joined Clemson this spring, he’s already traveled to Washington, D.C., met South Carolina’s legislative delegation and attended an Upstate Alliance meeting in Detroit.
Teaching. Research. Public service. These pursuits are the pillars of Clemson’s mission as a land-grant university. When Thomas Green Clemson willed his property to South Carolina for the establishment of a “high seminary of learning” in 1889, the teaching and research components of that mission had already been established by federal legislation.

It wasn’t until 1914, however, that Asbury Francis “Frank” Lever made the third pursuit possible. He helped ensure that the learning achieved through teaching and research on land-grant campuses would ultimately extend to the citizens of the states in the form of public service.

Lever was born to Francis Asbury Washington and Mary Derrick Lever on Jan. 5, 1875, near Spring Hill in Lexington County. He graduated with honors from Newberry College in 1895, and, after a brief tenure as a schoolteacher, began his political career in 1897 by serving as secretary to congressman J. William Stokes. Lever studied law while serving in that post, and in 1899, he received his bachelor’s degree from Georgetown University.

Lever was devoted to the needs of agriculture and farming interests across South Carolina and the rest of the United States. Despite unsuccessful bids for governor in 1930 and congressman in 1932, Lever had a long and successful career. From 1901 to 1919, he served as a U.S. congressman and member of the agriculture committee, which he chaired from 1910 to 1919.

He served as a member of the Federal Farm Board (1919-1922), organized the First Carolina Joint Stock Land Bank (1922-1929) and was strongly affiliated with the Farm Credit Administration (1933-1940).

He also served as chairman of the board of trustees for Newberry College and was a Clemson life trustee from 1913 until his death.

Just as Lever’s political career was taking off in the early 1900s, so was the idea that agricultural pursuits across the land could be improved by the sharing of information learned within the land-grant college system.

Through the efforts of men like Seaman Knapp, president of Iowa State College, and U.S. President Theodore Roosevelt, who established the Country Life Commission, the idea to create a formalized extension service began to take root. Lever made sure that the idea was nurtured and eventually bore fruit.

Noting that agricultural colleges and the U.S. Department of Agriculture were in possession of valuable information, Lever insisted that if this information were made available to the farmer, it would form “a complete and absolute revolution in the social, economic and financial condition of our rural population.”

Identifying the fundamental problem — linking the farmer with the new research and information — Lever asserted, “The agent in the field of the Department and the college is to be the mouthpiece through which this information will reach the people — the man and woman and the boy and girl on the farm. You cannot make the farmer change the methods which have been sufficient to earn a livelihood for himself and his family for many years unless you show him, under his own vine and fig tree as it were, that you have a system better than the system which he himself has been following.”

Working with Georgia senator Michael Hoke Smith, Lever translated his convictions into a bill that would establish a formalized Cooperative Extension Service. The Smith-Lever Act of
1914 called for cooperation between the land-grant colleges and the U.S. Department of Agriculture "in order to aid in diffusing among the people of the United States useful and practical information on subjects related to agriculture and home economics, and to encourage the application of the same."

Smith considered the act to be the most important piece of federal legislation he ever sponsored, and Lever described extension services as "the greatest educational work along these particular lines in this or any other generation."

Clemson has always been proud to be a critical part of the foundation for the nation’s extension services. In addition to Lever, two Clemson graduates B.H. Rawl (1900) and J.H. McClain (1906), both of South Carolina, assisted in drafting the legislation.

The S.C. General Assembly accepted the terms of the Smith-Lever Act in 1915, when it was decided the trustees of Clemson College would receive the funds and organize and conduct the extension work. The national program, calling for an annual expenditure of $4.58 million and authorizing the appointment of two farm demonstration agents in each of the nation’s 2,850 rural counties, was financed equally by federal grants-in-aid and appropriations by the state legislatures.

Lever was laid to rest at Cemetery Hill on April 28, 1940; however, we continue to see the growth and prosperity his dedication to public service has brought not only to Clemson University and the state of South Carolina, but also to the nation as a whole.

Today, the Clemson University Extension Service provides public service across the state in fields such as community development, urban and commercial horticulture, family consumer sciences, livestock, field crops, forestry, insects, wildlife, and youth programs such as 4-H, FFA and the Palmetto Youth Fellowship.

Thomas Green Clemson had a vision of public service when he provided for the establishment of the Clemson University we know today. Frank Lever held fast to the same ideal in working to establish the nation’s extension services.

Sam Parsons, the author, is a Clemson management graduate and is working on a master’s degree in professional communication. He served as the 2003-2004 graduate student body vice president and graduate assistant for the Visitors Center.
The essence of Clemson University can be judged by the achievements of its alumni — Clemson people who take their education and do something of value because of it. We take great pride in introducing the Clemson Alumni Association’s 2004 Distinguished Service Award recipients — five individuals who have achieved personal and professional success while making invaluable contributions to the University and the world around them.

by Debbie Dunning

Photographs by Dave Lewis

MANUEL PADGETT "PAT" BLACK JR. ’71, M ’73

Pat Black’s Clemson roots run deep. Every summer, the youngster came to Clemson for Farm and Home Week with his parents and sister. One of his earliest memories of these summers takes him back to the age of four, when his parents lost him and later found him riding the tractors on Bowman Field. Thus began Black’s attachment to Clemson’s sacred soil.

The Orangeburg native followed in his father’s footsteps and studied agriculture at Clemson, earning a bachelor’s degree in 1971 and a master’s in 1973.

He taught at Orangeburg-Calhoun Technical College for 10 years and then served as vice president for academic affairs and student services for 15 years. He now teaches agricultural sciences and horticulture at Branchville High School.

As chairman of the Calhoun County Economic Development Commission, Black has led the county in attracting substantial capital investments and jobs. His contributions have been recognized by the S.C. Economic Developers’ Association, and he has been awarded the S.C. Future Farmers of America Honorary Degree.

Black was a district director and the first president of the Clemson Agricultural Alumni group, one of the most successful college alumni organizations among land-grant institutions. He has been a member of the Clemson Alumni Association and IPTAY since graduation and an IPTAY scholarship donor for eight years. Black is serving a second term on the Clemson University Board of Visitors, which he chaired in 1997-98.

The Blacks have two daughters — Mary Paige, a Clemson senior, and Eleanor, a high school junior.
ALBERT NEILL CAMERON SR. ’41

Truly selfless people — individuals who consistently place the needs of others above their own — are difficult to find. Al Cameron is such an individual.

Cameron came to Clemson from Savannah, Ga., and graduated in 1941 with a B.S. in civil engineering. For the next five years, he served in the U.S. Army with combat infantry battalions in the United States, France, Germany and Austria.

He worked with the U.S. Department of Interior U.S. Geological Survey for 35 years at national headquarters and as chief of the Georgia and Louisiana water resources districts. Recognized as one of the country’s top water resources authorities, he was awarded the U.S. Department of Interior Medal for Meritorious Service.

Now living in Cashiers, N.C., Cameron is well-known as a humanitarian. Whether he’s tutoring children, serving on the hospital board or lending his civil engineering expertise to the community’s infrastructure, Cameron makes a difference in all those with whom he comes in contact. The Cashiers Valley Rotary Club has established an award in his honor, and the Cashiers Area Chamber of Commerce named him the 2003 Citizen of the Year.

Cameron has contributed to the Clemson Fund for 47 consecutive years and has been a member of IPTAY for 63 years. He is proud to be a member of the Class of ’41 and the Tiger Lettermen’s Association.

Cameron and his first wife, Jane, who passed away in 2001, have four children: Kathryn, Neill, Emily and Sally. He married Vanna Montgomery in 2002.

REBECCA ANN EPTING ’62

Becky Epting is a Clemson trailblazer.

Born and raised in Clemson, she decided not to go off to college but to stay at home and become one of the “pioneer” women to enroll. Epting prepared the way for the thousands of coeds who followed by being the first woman to hold leadership positions in student government, The Tiger, the S.C. Student Legislature and the S.C. Collegiate Press Association. She was also one of the first Clemson coeds to be named to Who’s Who Among Students in American Colleges and Universities.

After graduation in 1962 with a B.A. in arts and sciences, Epting continued to break new ground as she began her professional life. She entered the field of rehabilitation counseling, becoming one of only five women employed as such in the S.C. Vocational Rehabilitation Department.

Now retired and living in Clemson, Epting devotes her energy and enthusiasm to serving her alma mater and her church. A member of the Alumni Association and IPTAY since graduation, she has served on the Alumni National Council, the Clemson University Foundation board, The Commission on the Future of Clemson, the Board of Visitors and the Women’s Alumni Council.

Epting has established two funds in honor of her parents. The Elizabeth G. Epting Travel Grant-in-Aid helps defray travel expenses for students studying French abroad. The Carl L. Epting History Essay Award honors Epting’s father, a longtime Clemson faculty member.

In recognition of her contributions to Clemson, Epting received the Distinguished Graduate Award from the College of Liberal Arts in 1989.
James Lawrence Sutherland ’67

Strong mind, great heart, true faith and ready hands — Dr. Jim Sutherland’s life’s work demands it all.

He began preparing for his medical career in his hometown, earning a B.S. from Clemson in 1967, and then went to the Emory University School of Medicine where he earned an M.D. in 1971.

Sutherland is a pediatric cardiologist in the Children's Healthcare System of Atlanta, Ga. His medical practice, Sibley Heart Center, was recently recognized by Child magazine as one of the top-five pediatric cardiology programs in the nation. He also is attending physician in the pediatric department of the Emory University School of Medicine.

After serving active duty as a pediatrician and pediatric cardiologist in the U.S. Army Medical Corps from 1974 to 1984, he began to volunteer as a pediatric cardiologist in developing countries. He has headed five pediatric cardiology team visits to Bloom Children’s Hospital in El Salvador and has been instrumental in establishing a cardiac surgery-training program there.

As a Clemson student, Sutherland earned recognition as a standout scholar and athlete on the Tiger Basketball team. He garnered All-ACC honors while ranking fourth in the nation in free-throw percentages in 1966-67. His 85 percent free-throw record still stands as Clemson’s best. In 1991, he was inducted into the Clemson Athletic Hall of Fame.

A member of the Alumni Association and IPTAY since graduation, Sutherland has chaired his class reunions and helped organize the Clemson Alumni Physicians group.

The Sutherlands have one daughter, 15-year-old Catherine Marie.

Thomas Patrick Turner Jr. ’51

Following the example set by his parents and supported by his family, Tom Turner has always tried to serve his community, church, profession and alma mater to the best of his abilities.

The 1951 Clemson architectural engineering graduate has practiced architecture for 53 years, specializing in industrial, institutional and military projects. His extensive background includes aesthetic and functional architectural design solutions with emphasis on efficient and innovative engineering systems.

Turner’s service to the American Institute of Architects on national and state levels has earned him the top award given by the architectural profession — selection into its College of Fellows (FAIA).

Having served in the U.S. Navy submarine service from 1944 to 1946, Turner possesses a special love for Clemson’s military heritage. He was one of the co-founders and consulting architects of Clemson’s Military Heritage Plaza, a Class of 1951 Golden Anniversary project, and he spearheaded an effort to raise additional funds for ROTC scholarships through the Clemson Corps.

He is now one of the consulting architects on a committee to find a permanent home for Clemson’s ROTC units and Military Heritage Center.

Turner’s devotion to Clemson also includes support of the Clemson Architectural Foundation and the Alumni Association since the organizations’ founding.

To make the Charlotte community a better place to live, he has been on the advisory boards of several Charlotte-Mecklenburg building commissions and currently serves on the N.C. State Building Code Council.

The Turners have two children — Sheryl and Bryan — and four grandchildren.
‘7 Habits’ by Susan Bedingfield

4-H, a short name for a long history of youth leadership, has brought an exciting new program to South Carolina.

The program follows the “7 Habits of Highly Effective Teens” philosophy, based on a book of the same name by Sean Covey. It promotes respect, responsibility and achievement in young adults. It empowers them to make choices that provide structure to their everyday lives and helps them to become responsible, caring adults.

The “7 Habits” workshops are made possible by the generosity of a dedicated 4-H and Clemson supporter who prefers to remain anonymous. 4-H, in turn, works with Premier Agendas, a school specialty company that helps students learn time management and responsibility.

The company provides one-day student workshops all over the United States and Canada. But South Carolina 4-H is the first in the nation to bring the program in a widespread, highly trained effort to its teens.

Since the “7 Habits” program was introduced to S.C. 4-H leaders in March 2003, all 4-H leaders in the state have become trained as workshop facilitators. Now nearly 2,000 S.C. teens have taken part in the interactive, positive-thinking experience.

The program is being implemented not only in traditional 4-H organizations and public schools but also in independent schools, for Spanish-speaking teens and for some teens in the juvenile justice system.

Because the “7 Habits” 4-H workshops were funded by a donor, they cost the S.C. taxpayers nothing. This is yet another example of how Clemson Public Service multiplies its value to South Carolina.

“4-H has always been an organization that looks toward the future. It crosses all economic and social barriers by engaging youths in programs that help them succeed and become tomorrow’s leaders,” says Barbara Speziale, Clemson University 4-H state leader.

Since its beginning in 1901, 4-H has grown into an organization that stretches across the nation, with a membership that exceeds 7 million youths and 600,000 volunteers. Nowhere is the commitment to the power of youth more evident than in South Carolina, one of the pioneering centers for 4-H.

For more information about the 4-H “7 Habits for Highly Effective Teens” program, visit the Web at www.clemson.edu/4H, call Barbara Speziale at (864) 656-1550 or contact your county Extension office.

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Head, heart, hands, health

While the term 4-H did not come into use until the second decade of the 20th century, its foundation was laid by the U.S. Department of Agriculture beginning in 1901 with the nationwide attempt to organize clubs to train young people in modern farming techniques. Boys corn clubs in the Midwest were the first to be organized.

In the early 1900s, Marie Cromer, a schoolteacher in rural Aiken County, organized a girls tomato club—the first in the world, some say. The idea was to show club members not only how to grow tomatoes, but also how to can them. She then began working for the USDA to set up clubs around the state.

In 1910, Cromer proposed that the corn clubs in South Carolina be merged with her canning clubs, and a fledgling 4-H organization took root.

4-H has grown into a youth component of the state Extension Service based at land-grant universities across the nation. The program includes a multitude of educational programs for young people ages five to 19.

Today, more than 7 million American youths are involved with 4-H. Its programs are in every county in every state and territory and the District of Columbia. 4-H also works with the Department of Juvenile Justice as a source of intervention and prevention.

Meeting social problems head on is just one aspect of the growth of 4-H. Keeping up with the diverse interests of today’s techno-generation has been a dynamic focus for 4-H agents and volunteers.

“Without the capacity to move into the 21st century, 4-H would have fallen by the wayside long ago,” says Toni Pipkins, Clemson state 4-H program coordinator and associate leader.
The life of a Clemson student usually means hard work and hard play — cramming for exams, playing volleyball on Bowman Field, late nights at the Cooper Library, competing in intramurals, reading endless pages for that literature or history class, hanging out with friends downtown.
Civil engineering major Franklin Wallace doesn’t get to enjoy life as a normal Clemson student these days. Wallace has been deployed for military duty in Iraq.

Wallace earned a bachelor’s degree in business administration from The Citadel in 1994. After life in the “real world” for several years, he decided to return to school for another degree. His desire for a degree in civil engineering brought him to Clemson.

“Once I decided to go back to school, I didn’t have to look far for a good engineering school like Clemson,” says the Greenville native.

Wallace has been in the Army Reserve for nine years and has been pulled out of Clemson four times for duty. He’s a first lieutenant in the 434th Chemical Detachment of the 1st Cavalry Division. He was sent to Kuwait in early February and is scheduled for Baghdad this spring. The commander of a small chemical reconnaissance team that plots nuclear, chemical and biological strikes, he also works with combat engineers in detecting explosive devices.

Wallace says his education and experiences at Clemson have helped prepare him for military duty. “Whether you’re in charge of an engineering team or soldiers on the battlefield, everybody has something to contribute.”

He knows he will return to Clemson next year a different man. He says he has benefited from his interaction with Iraqi people and the chance to learn more about Arab culture. He has also learned the importance of doing your job well and meeting deadlines.

“You can be sure that procrastination will not play a part in my engineering homework when I get back to Clemson,” says Wallace.

At Clemson, he was involved with the rowing club, the American Society of Civil Engineers and Theta Tau Engineering Fraternity.

“I miss the water. It was so peaceful on Lake Hartwell at 5 a.m. practice,” he says. “I miss mom’s cooking, of course. I miss The Clock drive-in in Greenville, Mac’s in Clemson, Skin’s Hot Dogs with a Coke and the blackberry cobbler at Cracker Barrel. I definitely miss the orange and purple sunsets over the dike as I run my 6-mile course (for Ranger school) and playing 18 holes at Walker, then topping the day off at the ESSO Club or Tiger Town Tavern with my buddies. I miss Tiger Baseball and cooking out and giving the opposing team’s right fielder grief.”

Wallace says he has no fears about serving in Iraq. His main concern is for his soldiers, many who have families back home.

“My soldiers ask me all the time why I’m not scared,” he says. “I just tell them that I am straight spiritually, physically and emotionally and confident that I can do my job because I’ve been well-trained by the best.”

Christopher Land ’95 is another member of the Clemson family serving in Iraq. Not only is Land an alumnus, but he’s also a Clemson employee in the news services department.

Land first joined the Army in 1996. “I felt like I wanted to give something back to the country,” he says. “Besides, the training you get in the Army is excellent. It’s a big part of why I got my job at Clemson.” He was stationed at West Point in the public affairs office and in Korea as the public affairs noncommissioned officer for the 1st Signal Brigade.

Land joined the Clemson news services staff in 2001 as a public information coordinator. In 2003, he decided he still wanted to be involved with the Army, so he joined the Army Reserve. He was sent to Iraq earlier this year.

Land is now in Baghdad. He works and lives at Saddam Hussein’s former presidential palace, which houses the quarters and offices of many military branches of different countries as well as the Coalition Provisional Authority headed by U.S. administrator J. Paul Bremer.

“We’ve got people here from Great Britain, Australia and the United States, from the Army, Navy, Air Force and Marines,” says Land. “With all the soldiers and civilians, it’s always interesting to find out who you’re going to be eating lunch with day to day.”

He also enjoys the experience of being in Iraq’s capital city. “Baghdad is a beautiful city underneath all the military trappings,” says Land. “There’s been a lot of neglect of basic utilities over the years, but the city and country have great potential. I would love to see this place again in a few years after the Iraqis take charge of it again and clean it up.”

Land works as the battle noncommissioned officer at the public affairs current operations desk. He helps handle crisis management and communication for all branches of the military stationed in Iraq.

“If you see something on the news about the military operations in Iraq, I’ve probably had my hands on it at some point,” says Land.

Land works 12 hours a day, seven days a week. His daily life consists of sleeping, eating, working out and working, without time for much else. He says the soldiers are generally upbeat and fairly relaxed, though always cautious.

“We hear gunfire every day and every night. This is a combat zone; there’s certainly danger to life and limb, but it’s not something that you can let control you.”

Like Wallace, Land likes being part of a team in the Army. But he also misses being part of the “team” at Clemson. “There’s a real energy on campus,” he says. “I miss the energy — the ‘Tiger spirit’ — that I feel a real connection with.”

Clemson has 29 students and nine employees called to duty.
The Hundreds

A Clemson architecture project that transformed a dilapidated building into a modern gathering place and tribute to the past has earned an international award.

Studio South, a program in Clemson’s School of Architecture, was awarded the Collaborative Practice Award from the Association of Collegiate Schools of Architecture earlier this year. The association includes schools in the United States, Canada, Mexico and Latin America.

Under the direction of professors Jori Erdman and Patricio del Real, Studio South students worked with community members to study and redesign the Keese Barn site in the nearby town of Pendleton. Students then disassembled the barn, salvaging as much material as possible, and rebuilt the site to memorialize the barn and serve as a gathering place for the community. The barn was historically significant because it was once the only place in Pendleton, other than churches, where African Americans were welcome to meet.

The site was sometimes referred to as The Hundreds and now carries that name officially, a reference to a poem that says people once gathered there by the hundreds.

Pendleton Foundation for Black History and Culture president Grant Cunningham PhD ’95 coordinated efforts between the Studio South group and the community. A Clemson professor of planning, Cunningham is also named in the honor.

The award is an example of Clemson’s combination of service, teaching and research.
Their challenge was to start with the Habitat for Humanity design approved for the Winston-Salem area and to create something better that implements eco-friendly material, technology and methods.

Green’s solution, the House of Ivy, is a 975-square-foot home that rises out of the ground like a ramp, then turns 180 degrees to reach its full height. The bearing walls are two feet thick, made of shredded leaves packed into polymer bags. The roof surface is a waterproof membrane covered in a thin layer of soil and vegetation. The accessible nature of the roof means the homeowner’s garden is almost as large after the house is built as when it was an empty lot.

Inside the House of Ivy is an open space with moveable walls that can be changed to accommodate the evolving needs of the inhabitants. “I wanted something that anyone could build,” says Green. “At the same time, I wanted to maximize the space.”

While Green was thinking about shredded leaves, his colleagues were thinking about hay.

“Few things are as beautiful as a haystack in the sunshine,” says Rael of the sight that inspired him and del Real to create a house of hay.

Their concrete, wood and steel structure is insulated by a layer of hay bales, a common building material in some parts of the world. The difference in this design is that the hay will come and go with the seasons. The bales will go up at harvest time and insulate the home during the cold months. Hay will be removed to feed livestock as winter progresses, leaving the cooler shell of the house exposed for the summer.

An added bonus to the design is that hay bales are the same size throughout the world.

In addition to the winning entries, work by several students from Rael’s sophomore studio is part of a continuing exhibit of the top 100 designs from the competition.

Habitat plus
From his office in Barcelona, Spain, Clemson architecture professor Keith Evan Green was thinking up a new way to combine simplicity and versatility. On this side of the Atlantic, his colleagues Ronald Rael and Patricio del Real were thinking about haystacks.

Their wildly divergent solutions to the same challenge earned awards for all three members of Clemson’s School of Architecture faculty from an organization seeking better designs for affordable housing.

The Southeastern Center for Contemporary Art in Winston-Salem, N.C., conducted the international competition to spur a rethinking of homes through design innovation. Two projects from Clemson faculty earned first-place awards from among almost 500 entries.
Matters of the Heart

by Sandy Dees

photo by Dave Lewis
Clemson bioengineering professor Naren Vyavahare is uncovering clues about valve blockage and breakdown that could change the direction of cardiac health care in the United States.

Atherosclerosis, a major component of cardiovascular disease, is a condition in which fatty material is deposited along the walls of arteries. This fatty material thickens, hardens — or calcifies — and may eventually block the arteries. Similarly, as we grow older, our arteries lose their elasticity and calcify in a disease called arteriosclerosis.

Vyavahare’s research is focused on understanding the mechanism of calcification in human arteries and porcine bioprosthetics. His work is providing answers to the problem of calcification of elastin, the major connective tissue protein of elastic structures such as large blood vessels.

Advances made possible by his research could pave the way to the body’s own enzymes’ ability to attack and dissolve the calcified buildup on the vessels and arteries. Implanted valves, treated with new fixatives that he developed, could have extended functional life. A similar treatment could pave the way to long-lasting porcine implants that could serve as cardiac patches or even scaffolding to form artificial nerves.

Some of Vyavahare’s research has been licensed and is in early trials. His work is funded by $2.3 million in grants from the National Institutes of Health. Additional funding has come from the American Heart Association.

Vyavahare grew up in Pune, India. As a boy, he considered becoming a medical doctor. Instead, he earned a doctorate in chemistry from India’s University of Pune before completing his post-doctorate in chemistry from Rutgers University. His background in chemistry and biochemistry puts him on the leading edge of scientists developing new biomaterials to solve problems of the heart.

At age 41, he has more than 42 publications and numerous conference proceedings to his credit. His collaborators include the chief of cardiac pathology at Brigham and Women’s Hospital, a Harvard-affiliated teaching hospital.

Vyavahare joined Clemson in 1999. “Clemson’s bioengineering department is known for its strong biomaterials program, and it’s one of the oldest in the nation,” he says. “Since my emphasis is on cardiovascular biomaterials, the choice was obvious for me.”

Working on Vyavahare’s research team is a tremendous opportunity for Clemson students. His team includes fellow professor Dan Simionescu, who has more than 20 years of heart valve research experience, along with four Ph.D. students, two M.S. students and two postdoctoral fellows.

Vyavahare’s group is studying whether enzymes in cells called osteoclasts can dissolve calcified buildup on elastin in the vessels. Vyavahare’s hope is that the brittle plaque would be harmlessly reabsorbed into the body. This work is funded by the S.C. State Biomedical Research Infrastructure Network.

“This could represent a huge breakthrough in health-care advances for millions of patients,” says Martine LaBerge, interim chair of Clemson’s bioengineering department. The department, which doubled in size in four years, has become a tissue-engineering powerhouse.

The need for such research is critical. Cardiovascular disease accounts for 38.5 percent of all deaths or one of every 2.6 deaths in the United States. Nearly 2,600 Americans die of cardiovascular disease each day, an average of one death every 34 seconds, according to the American Heart Association.

South Carolina has the 10th highest death rate from heart disease, stroke and other cardiovascular disease in the nation, according to statistics from the Centers for Disease Control.

Clemson cardiovascular research, such as Vyavahare’s and that of other Clemson scientists, can change those odds.

For more on Clemson bioengineering research, visit the Web at www.eng.clemson.edu/bio and click on “research.”
Its process can be as simple as adding yeast to dough to make bread or as sophisticated as making artificial spider silk.

In other words, biotechnology uses biological processes to solve problems or make useful products. For example, Clemson scientists are developing artificial spider silk that’s many times stronger than steel. The new material has tremendous potential for use in medicine, textiles and engineering.

Biotechnology begins with genomics, the study of genes and their functions. This science is opening new doors to the way we understand our world. The more we learn, the more we discover how interrelated all living things are — that all life is more alike than different at the molecular level.

Clemson scientists are making discoveries that were unimaginable only a few years ago.

Research on glucose and plant growth is providing insights into the role sugars play in human diabetes and obesity. Research on mammary stem cells in dairy cattle holds the promise of preventing breast cancer in humans. And a gene discovered in an orchid may protect peach crops from a fungus that kills thousands of fruit trees every year.

Each discovery is a step to improve human health, agricultural productivity and the environment.
Biotechnology research at Clemson began in the 1980s with plant genetics. Today, the Clemson University Genomics Institute has developed an international reputation for building DNA libraries of plants, animals and insects. It offers more than 150 genetic libraries for use by scientists all over the world.

With major funding from the National Science Foundation, the National Institutes of Health and the U.S. Department of Agriculture, Clemson’s genomics institute ranks as a leading research and training center for discovering and analyzing genes important to agriculture, human health and the environment. Its home is in Clemson’s newest laboratory, the Biosystems Research Complex.

The Biosystems Research Complex, which opened last year and was dedicated this spring, is an imposing brick and glass structure located near the Hendrix Center and Newman Hall.

Built with the support of the S.C. General Assembly, the complex includes 108,000 square feet of state-of-the-art laboratories; 40,000 square feet of computerized, climate-controlled greenhouses; and a 16,000-square-foot greenhouse support facility. The flexible laboratory space houses a wide variety of researchers to encourage multidisciplinary cooperation.

The goal of the Biosystems Research Complex is to promote significant research and attract research money. Biotechnology is expected to have a major impact on the world economy in the years to come. It requires a well-educated, highly paid workforce of research scientists, laboratory technicians and other employees.
Clemson is building expertise and research resources that can help South Carolina claim a share of the expanding biotechnology industry.

“The life sciences/agriculture industry presents a unique opportunity to match the research capabilities of Clemson University with the economic development benefits offered by this dynamic growth sector,” says John Kelly, vice president for Public Service and Agriculture at Clemson.

The University offers undergraduate and graduate degree programs that span agriculture, biological sciences, medicine and human genetics. These programs draw strength from partnerships with other research institutions, including the Greenwood Genetic Center and the Greenville Hospital System.

Clemson has built a strong and growing program in molecular biology. The University’s extensive plant-based research resulted in a prestigious endowed chair: the Robert and Lois Coker Trustees Chair in Plant Molecular Genetics in the Department of Genetics, Biochemistry and Life Science Studies.

Other partnerships focus on developing a skilled work force for the biotech industry. One program links the University with the state’s technical college system; another collaborates with high schools to provide biotechnology workshops for students and teachers.

Clemson is also partnering with industry organizations, as well as with biotechnology, biomedical and nutraceutical companies, to develop commercial applications through research and technology transfer programs.

**Biotech research under way**

These are a few of the biotechnology research projects already under way at Clemson.

**Human health**

New weapons to combat disease, illness and aging are changing the quality of life. For example, Clemson researchers are collaborating with NASA to develop treatments for medical conditions here on earth. The molecular study of bone loss from prolonged space flight may lead to a treatment for osteoporosis.

Scientists are studying the process of DNA repair at the molecular and cellular level in an attempt to understand how the repair mechanism works in response to disease. Their findings may lead to new approaches in the prevention and treatment of cancer.

A potential new treatment for breast cancer developed by Clemson scientists is now awaiting approval to begin clinical trials. The therapy is based on the discovery that prolactin, a hormone normally produced in the brain that controls mammary gland development, may also contribute to breast cancer.

Researchers are using electrochemical methods to develop new analytical techniques to detect and identify DNA. One application might be in a hand-held DNA analyzer that could allow scientists to rapidly diagnose infectious diseases based on the genetic signature of the disease agent.

A molecule called Ap4A is being studied in an effort to characterize its role in regulating blood pressure, particularly in stressful situations.

Several studies are seeking the molecular keys used by parasites to attack their hosts. One study focuses on the parasite that causes sleeping sickness, another on toxoplasmosis and a third on amoebic dysentery.
Agriculture

Clemson hosts the world’s leading laboratory for fruit tree genomics. Scientists are seeking to identify and characterize genes that give natural resistance to plum pox virus, one of the 10 most dangerous threats of bioterrorism listed by the federal government.

Additional research focuses on genes that control peach bud dormancy. Other research has led to the discovery of a gene in an orchid that may offer natural protection against fungi that reduce peach crop yields.

Another project investigates spider silk to understand the molecular structure of the world’s strongest fiber and to develop a way to mass-produce this substance in yeast bioreactors and in crop plants such as tobacco.

Functional genomics and molecular genetics are helping unravel how legumes interact with bacteria in the soil to generate their own fertilizer by capturing nitrogen from the air in the plants’ nodules.

Scientists are using fluorescence microscopy and functional genomics to discover how plant proteins sense the presence of glucose and transmit the signal that activates genes to control plant growth and development.

Other plant protein investigations focus on the role of calcium sensors that regulate growth, pathogen defense and resistance to environmental stresses such as drought, salinity or extreme temperatures.

Environment

As a land-grant university, Clemson has a century-old tradition of putting science to practical use. Working to create a sustainable future, University scientists are researching ways that renewable resources can serve both socioeconomic and environmental goals.

Renewable energy sources such as ethanol offer an alternative to dependence on foreign oil but are still costly to produce. Clemson scientists are seeking to improve production efficiencies and reduce the cost of biofuels by testing new strains of yeast for the fermentation process.

Methane gas from landfills is another potential source of renewable energy. Funded by the NSF, Clemson scientists are determining the genetic blueprint of the microbe that produces methane and are seeking to harness production of the gas in landfills.

Algae and other microorganisms are being studied as “bioprocessors” to produce high-value compounds, such as pharmaceuticals and biofuels, from agricultural residue. For example, algae can be used to produce sulfolipids, which have anti-tumor and anti-viral properties, while ethanol fuel can be produced by fermenting sweet potato and other agricultural waste.

To learn more about these projects and biotechnology at Clemson, visit the Web at www.clemson.edu/bio/.
CAFLS Alumni — Happy 10th!

More than 100 College of Agriculture, Forestry and Life Sciences (CAFLS) alumni and friends joined Clemson President Jim Barker, other University officials and CAFLS Alumni past presidents to celebrate 10 years of service and success.

The event, held earlier this year in conjunction with the S.C. Agricultural Exposition, marked 10 years of amazing productivity.

Pictured, front row from left, are Calvin Schoulties, dean of the college; Tom Skelton, former executive director of CAFLS Alumni; Pres. Barker; Louis Lynn, Clemson trustee and CAFLS alumnus; and John Kelly, vice president for public service and agriculture.

Former CAFLS Alumni presidents pictured, middle row from left, are Pat Earle, Bill Kennerty, Hal Jones and Pat Black; top row, Richard Kizer, current president Ed Haigler, John Parris and current executive director Kirby Player.

Making history

Paul Anderson knows his history. He also knows how to bring it to life for his students. As a result, he’s the 2004 Master Teacher, nominated by students and chosen by the Student Alumni Council (SAC).


Each spring, SAC, the leadership body of Clemson’s Student Alumni Association, receives outstanding professor nominations from students throughout the University. The Master Teacher is recognized at Commencement and receives a $2,500 stipend from the Clemson Alumni Association.

Anderson is pictured with students Catherine Lashley (left) and Jill Marklin, co-chairs for the SAC Master Teacher project.

Good food, great service

Clemson Extension packaging science professor Libby H. Hoyle recently received the Alumni Award for Cooperative Extension Distinguished Public Service.

She was recognized for outstanding service in the development and delivery of food safety and preservation programs and for her development of nutritional training programs for students, teachers and the public.

ServSafe, the employee-training material developed and tested by Hoyle, is used across the nation. Hoyle also produces “Food for Thought” and “Chef’s Table” segments on the S.C. Educational Radio program “Your Day.” She’s pictured with Matt Watkins, interim chief alumni officer.

Get out there!

PASSPORT Travel has a series of adventures awaiting Clemson alumni in 2004. Plans include a July cruise of Scandinavia/Russia, a July journey through Civil War sites, an August tour of U.S. National Parks and a December river cruise of Austria’s holiday markets. For more on these and other PASSPORT Travel adventures, call the Alumni Center at (864) 656-2345.
Call for 2005 DSA nominations

Nominations for the 2005 Distinguished Service Award — the Alumni Association’s highest honor — are due by June 30, 2004.

The Alumni Association honors up to five outstanding alumni in recognition of service to their profession, the University and their community. The awards are presented during a spring event. (See p. 14 for the 2004 honorees.)

To nominate an outstanding alumnus, please call the Alumni Center at (864) 656-2345, fax (864) 656-0713 or write Clemson Alumni Association, 109 Daniel Drive, Clemson SC 29631-3006, for a nomination form and criteria for selection. You can also find the nomination form and guidelines on the Web at alumni.clemson.edu.

Free TAPS

Need a copy of your Clemson yearbook?


With a minimum gift of $10 to the Clemson Fund, you can receive one of these yearbooks at no additional charge. In other words, the TAPS is free; your gift will go toward shipping and handling.

Use the envelope in this issue and enclose a note indicating the year of the TAPS you want, or call (864) 656-5896 to make a gift with your VISA or MasterCard.

Ask-a-Tiger

Students and alumni are looking for fellow Tigers to discuss career experiences in a variety of fields. To help, simply complete an online form about your career so that other Tigers can call in or email their questions.

Visit the Web at askatiger.clemson.edu/academic/invite.htm. If you would like to search the database, enter “alumnitiger” as the password.

For every volunteer in the Ask-a-Tiger Network, another Tiger has the opportunity to make a better decision toward a more successful career!

For more career tips, call Tenneil Moody, director of Alumni Career Services, at (864) 656-2345, email acs-L@clemson.edu or visit the Web at alumni.clemson.edu.

‘Clemson’ potters

Women’s Alumni Council members, from left, Rebekah T. Brannham ’98, Faith L. Truesdale ’98 and Mary P. Higginbotham along with other members of the Camden Women’s Alumni Council put a Tiger spin on their pottery event last December.

The council sponsors fun and educational events for Clemson women graduates around the state and region including the annual Bring Your Daughter to Clemson weekend in May. The organization also promotes the Women’s Alumni Council Scholarship Endowment, which provides scholarships to four Clemson students. For more information, call the Alumni Center at (864) 656-2345.
Tigers in Texas

More than 30 graduate students and six faculty members represented Clemson at the gathering of the Society of Environmental Toxicology and Chemistry last fall in Austin, Texas.

The international society promotes research, education and training in environmental sciences. It also provides a forum for communication among professionals in government, business, academia and in other segments of society involved in the use, protection and management of our environment.

Clemson scientists gave more than 40 scientific presentations. They also visited with more than 60 alumni from Clemson's environmental toxicology program and a few (pictured here) tried out the local barbecue.

Winning formula

Hands-on learning hits the fast lane when students race for bragging rights in the annual Society of Automotive Engineers (SAE) competition. Clemson automotive engineering students conceive, design and fabricate their car over an academic year. They then take it to the annual competition in May with more than 100 other vehicles from colleges and universities throughout the world.

But SAE offers much more than the once-a-year race.

“Being a member of SAE provides a great opportunity to broaden your network and apply what you learn in the classroom to real-life situations,” says Andy Miller, a Marietta, Ga., senior who is president of the Clemson SAE chapter.

“Experiences such as tours of corporations, seminars and conferences allow student members to become acquainted with professionals in the industry, which often leads to job placements.”

Several sponsors for the 2004 car include Michelin North America, Ohlins USA, Rockwell Automation, ESAB Welding and Fluor Corp. For more information about Clemson's Formula SAE program, go to www.ces.clemson.edu/~fsae.

National park award

Senior Amanda Jenkins, a parks, recreation and tourism management (PRTM) major, has been selected as one of only three students nationwide to receive the 2003 Outstanding Student Award from the National Society for Park Resources.

She's pictured with Brett Wright, PRTM professor and chair of the department (left), and PRTM professor Rob Bixler.

The award, chosen by park and natural resources managers, is based on academic performance and work experience. Jenkins is employed at Table Rock State Park.

Tiger Gras

Students strung on the beads and celebrated Fat Tuesday during Tiger Gras, the University's Mardi Gras celebration, with comedian Jon Reep, the Tom Satori Band, caricaturists, body artists and much more.
Outstanding research

Junior physics major Meredith Russell of Evans, Ga., received an award for superior research in physics and astronomy at the Sigma Xi Research Conference last fall. Students participating in the conference represented 90 institutions from North America and abroad. A Goldwater Scholar, she’s also recipient of the 2003 Goddard Scholarship, given annually to one student for excellence in the study and research of aerospace science.

Journey of hope

Senior Tyler Freiheit plans to do a little biking this summer — a 3,900-mile trip from California to D.C.

The speech and communications studies major from Oak Hill, Va., is one of 70 brothers of Pi Kappa Phi fraternity chapters from around the nation riding in the Journey of Hope. The cycling trek will raise funds and awareness on behalf of people with disabilities.

The ride is a project of Push America, the national philanthropy of Pi Kappa Phi fraternity, which provides service and education to promote a greater understanding of people with disabilities. Each participant raises at least $5,000 on his own. To learn more about Freiheit’s journey, call him at (703) 407-7288 or email tfreihe@clemson.edu.

Ethics bowl

Forty teams of undergraduates from colleges and universities across the nation squared off in the intense competition of the 10th National Intercollegiate Ethics Bowl. Clemson’s team vanquished foes from Loyola, UNC-Charlotte and San Jose State University to emerge from the initial rounds of competition as one of only six undefeated teams. The team fell to Seton Hall in a close match during the final rounds.

Pictured from left are Allen Parker (standing), Laura Loder, Jon Hiller, Jared Byrd and Isaiah Trillo. Not pictured is team member Emily Mixon. They were sponsored by the Rutland Center for Ethics and the philosophy and religion department, and coached by faculty members Kelly Smith, Charlie Starkey and Andy Billings.

Goldwater ‘grand slam’

Four Clemson students have earned 2004 Goldwater Scholarships, tying for most in the nation with the likes of Harvard, Stanford, MIT, Yale, Princeton and a few others. These Clemson students include Will Sams, physics; Vijay Ullal, electrical engineering; Matthew Williams, mechanical engineering; and Jeffrey Young, computer engineering. Look for more on Clemson’s newest Goldwater Scholars in the next issue.

Student abroad

Management major Douglas Flood shows his colors during a visit to Sydney, Australia. Last spring, he attended the University of Newcastle approximately 120 miles from Sydney, as part of the Clemson study abroad program. For more information on Clemson’s international studies opportunities, visit the Web at www.clemson.edu/studyabroad.
The Clemson Family

Combat diary
Philip C. Sprawls ’38

Clemson alumnus Philip Sprawls of Louisville, Ky., has given his diary as a combat pilot — World War II Early Days Diary of Philip C. Sprawls — to Clemson’s Special Collections.

In it, Sprawls recounts his days as he was trained as an Army pilot and assigned to duty June 1941 to Hickam Field, Hawaii.

Sprawls avoided injury during the infamous Dec. 7, 1941, attack on Pearl Harbor. But in July 1942, he and other air crews equipped with B-17s were deployed to the South Pacific area where he was injured in aerial combat. A bullet struck his Clemson ring and then his leg.

The ring was dented and the set destroyed, but thankfully Sprawls recovered to fly another day. He went on to a full life including a career in the Air Force and a long tenure at the University of Louisville.

Special Collections, a part of the Clemson Libraries unit, is a place where documents created by individuals and organizations are preserved and made available for use. In addition to correspondence, diaries, ledgers, rare books and other publications, Special Collections also contains photographs, films, videotapes, audio recordings and items in electronic format. For more information, go to the Web at www.lib.clemson.edu/SpCol/schp.html or call (864) 656-3061.

Force for nature
James A. Timmerman Jr. ’57, M ’59

James Timmerman’s dedication to protect the land and wildlife precious to the Carolinas has earned him a legacy, not for what he’s changed but for what he’s left unchanged.

During Clemson’s December graduation ceremony, the University awarded him an honorary doctor of science degree in appreciation of that legacy.

Director emeritus of the S.C. Department of Natural Resources (DNR), he began his education at Clemson with a premed degree and master’s degree in zoology. He earned a Ph.D. at Auburn.

Timmerman was instrumental in forming a cooperative relationship between the state’s DNR and the University, which fostered the development of a strong wildlife and fisheries program and led to the establishment of the U.S. Fish and Wildlife Service Co-op Unit at Clemson.

He’s also served on the University’s Board of Visitors, the bioengineering committee and advisory boards for the School of Forest and Recreation Resources and the Institute of Wildlife and Environmental Toxicology.
The Clemson Family

U.S. Department of Energy’s Wind Powering America program. He’s chairman of American Public Power Association board of directors and general manager of Waverly Light and Power.

David B. Fleming (ANC, M ’82 AGED) of Liberty recently retired from Clemson as director of institutional research. He was awarded the James R. Montgomery Outstanding Service Award for his contributions to the Southern Association of Institutional Research.

1972
Ronald W. Oakley (BLDGCSNS) of Clemson is chief executive of the Americas region for Bovis Lend Lease.

Thompson E. Penney (FREARCH, M ’74 ARCH) of Charleston received an honorary fellowship in the Korean Institute of Architects, was an invited speaker at the annual national convention of the Japan Institute of Architects in Osaka-Shi, Japan, and was presented with a President’s Medal and awarded honorary membership in the Royal Architectural Institute of Canada. He’s president and CEO of LS3P Associates Ltd.

1974
Lawrence A. Zehnder (RPA) of Chattanooga, Tenn., has joined Barge Waggoner Sumner and Cannon Inc. as a senior recreation planner for the Center of Excellence in Parks and Recreation.

1975
Warren S. Carpenter (ARCH) of Seneca was inducted into the S.C. Housing Hall of Fame for his contribution to the housing industry. He has founded two companies, New South Builders and Carpenter Built Inc.

1976
Priscilla Webster Ramsey (NURS, M ’79) of Johnson City, Tenn., received the Faculty Award for Service at East Tennessee State University.

V.I.P.
John W. Parris ’58
Agricultural education alumnus John Parris received the National FFA’s V.I.P. Award at the 75th National FFA Convention last fall. Parris is the S.C. director of public affairs for agricultural education in South Carolina.

Parris’ career includes teaching in Charleston and Anderson, serving as associate director of the S.C. Soil and Water Conservation Commission and executive director of the S.C. Land Resources Commission.

Upon retiring from state government, Parris served as executive secretary of the S.C. FFA Association until being named to his current position, which includes representing the S.C. FFA Association, S.C. Young Farmer and Agribusiness Association, S.C. Agricultural Educators Association and FFA Alumni. He’s also editor of AGRIBIZ, the state’s agricultural education magazine.

Some of Parris’ other honors over the years include the Outstanding Professional Conservationist in the Nation by the National Conservation Districts Association, Man of the Year in S.C. Agriculture by Progressive Farmer magazine and Distinguished Centennial Agricultural Alumnus by Clemson.

1977
W. Hamp Lindsay Jr. (ADM-MGT) of Spartanburg was named Restaurateur of the Year by the Hospitality Association of South Carolina.

Marilyn Martinez Saucedo (SED, M ’78 READING) of Riverside, Calif., is assistant principal at Riverside Polytechnic High School.

J. Christopher Simpson (HIST) of Williamsburg, Va., president and CEO of Simpson Communications LLC, has relocated his firm’s headquarters to Williamsburg.

1978
J. Scott Andrew (ADMMGT) of Charlotte, N.C., is an investment adviser representative and financial planner with Capital Management Group of the Carolinas Inc. in Mooresville.

Madame President
Gloria Bromell-Tinubu M ’77, PhD ’86
Clemson alumna Gloria Bromell-Tinubu is the new president of Bethune-Cookman College, a private liberal arts college in Daytona Beach, Fla., affiliated with the United Methodist Church. She’ll take the post in July.

Bromell-Tinubu holds a Clemson master’s degree in agricultural economics and Ph.D. in applied economics. She served on the Commission on the Future of Clemson University in the 1990s.

Previously an economics professor and department chair at Spelman College in Atlanta, Ga., she has been involved in numerous civic activities including serving on the Georgia Board of Education and several terms on the Atlanta City Council, during which she authored and developed a variety of improvement efforts for downtown.

Bromell-Tinubu has received numerous honors and awards including the Winnie Mandela Humanitarian Award for Public Service in 2001 and inclusion in the Atlanta Business Chronicle’s Most Influential Georgians and Who’s Who in Black Atlanta in 2001.

T. Ric Southers (SOC) of North Charleston is vice president of operations for Wencoast Restaurants Inc., which operates 30 Wendy’s restaurants in Charleston and Augusta, Ga.

Samuel R. Stone (PREMED) of Chester is president of the S.C. Academy of Family Physicians.

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Stephen L. Sloan (FORMGT) of Holden, Maine, is the Northeast area manager for forest resources for International Paper. He was instrumental in helping Maine develop more sustainable forest practices, both economically and environmentally, resulting in Time Inc.’s commitment to purchase 10,000 more tons of the state’s paper this year.

1979
Marc E. Bryson (DESIGN, M ’81 ARCH) of Orangeburg is a project architect with Walter Bobbs Calhahan & Pierce Architects PA in Winston-Salem, N.C.

1980
Walter R. Lagarenne Jr. (CE, M ’82) of Summerville is serving a three-year term on the board of directors for Jordan Jones & Goulding Inc., a 500-person multi-disciplined engineering firm.

1981
Deborah Cremer Calhoun (ECON) of Anderson was awarded Sertoma International as volunteer service. She continues annually Fund Award for outstanding member of the Sertoma Foundation 5% Annual, she was also awarded Club’s Sertoman of the Year for 2002-2003. She was also awarded Clemson Sertoma (ECON) of Anderson was awarded Sertoma International as volunteer service. She continues annually Fund Award for outstanding member of the Sertoma Foundation 5% Annual, she was also awarded Club’s Sertoman of the Year for 2002-2003. She was also awarded Clemson Sertoma

1982
Michael W. Behringer (M ARCH) of Southampton, N.Y., principal of his architectural firm, completed the design of a 60,000-square-foot town recreation center. The $3 million project was built with funds raised by a nonprofit group of which he is a founding member.

1983
Barbara Feldhacker (CRE) and R. Todd (’84 ME) Hudson are living in Charlotte, N.C. She’s an engineering consultant for JMS Southeast Inc., and he’s vice president of sales and marketing for Healthstat Inc.

1984
Leslie Wallace Skinner (SED-HI) of Columbia received the Outstanding Secondary Social Studies Teacher of the Year Award from the National Council for the Social Studies. She’s a national board-certified teacher at Richland Northeast High School and the district coordinator for social studies instruction in School District 5 in Lexington and Richland counties.

1985
Pamela Reeves Cash (ADM-MGT) of Greensboro, N.C., is assistant dean of the Bryan School of Business and Economics at the University of North Carolina at Greensboro.

1986
Christopher D. Davies (FIN-MGT) of Charlotte, N.C., is president of Wachovia Mortgage Corp.

1981
Michael E. Newman ’78 Microbiology alumnus Michael E. Newman of Rockville, Md., has received the Bronze Medal, the highest honor awarded by the Commerce Department’s National Institute of Standards and Technology (NIST), for his service as communications director and chief spokesman for NIST’s two-year investigation of the World Trade Center disaster.

NIST is a nonregulatory federal agency within the U.S. Commerce Department’s Technology Administration. As media relations director, Newman is the primary spokesperson for NIST. He also coordinates all internal and external activities involving the print, broadcast and online media for the federal agency.

For the past year and a half, Newman has headed the communications efforts for NIST’s high-profile building and structural failure investigations of the World Trade Center fires and collapses (following the terrorist attacks of 9-11) and the Rhode Island nightclub fire that killed 100 in February 2003.

The goal of these investigations is to provide research data and scientifically derived conclusions that can serve as the basis for improvements in designs and safety management.

Challenging life
Angelo Sciulli ’78
Alumnus Angelo Sciulli of Lancaster has just released Challenging Nature Photography — a book chronicling his passion for nature photography and his struggle with a disabling illness.

The book begins shortly before his diagnosis with amyotrophic lateral sclerosis (ALS), commonly called Lou Gehrig’s disease. Each subsequent chapter describes a photography trip made after diagnosis and details the mental, physical and spiritual challenges he has faced as he continues to pursue his art.

You can find his book on the Web at www.ebookstand.com and his photography at the Scnature.com. When Sciulli isn’t photographing or writing, he’s raising research funds for ALS.

Straight talk
Michael E. Newman ’78
Microbiology alumnus Michael E. Newman of Rockville, Md., has received the Bronze Medal, the highest honor awarded by the Commerce Department’s National Institute of Standards and Technology (NIST), for his service as communications director and chief spokesman for NIST’s two-year investigation of the World Trade Center disaster.

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The Clemson Family

Sporting goods
J. Wayne Merck ’82, M ’92
Alumnus Wayne Merck of Encinitas, Calif., has the goods in sports equipment. He’s president and chief operating officer of the sporting goods manufacturing company K2 Inc., of Carlsbad, Calif.

Known for skis, the company’s heritage product, K2 is now a $1 billion diversified manufacturer of leading sporting good brands, including Rawlings (baseball, football, basketball), Shakespeare (fishing), K2 (skis, snowboards, bikes, in-line skates), Worth (softball), De Beers (lacrosse) and Stearns (life vests and flotation devices).

Merck earned both a bachelor’s degree in mechanical engineering and a master’s degree in business administration at Clemson. Originally from Central, he’s been with K2 since 1991.

John R. Gaillard (FINMGT) of Greer is vice president, sales and business development for Catalyst Telecom.

1989
Michael J. Lusk (FR, M ’94 ED) of Sumter is site director for Troy State University at Shaw AFB. He’s working on his Ed.D. in educational administration through Georgia Southern University.

Amy McDermott Ord (SED-EN, M ’91 CNLGUID) is married and living in Alabaster, Ala.


Christine Trask Steagall (S&HMGT) of Lexington was selected to participate in the 2004 Class of Leadership South Carolina. She’s program coordinator at the University of South Carolina, Institute for Public Service & Policy Research.

1990
Richard James Baiano (DESIGN) of Boston, Mass., joined the staff of Childs Gallery.

Donna Ridgeway Richey (SCT-MA) of Williamston is teaching math at Palmetto High School. She’s a graduate of the inaugural class of the master’s in education program at Southern Wesleyan University.

Mark L. Timbes (DESIGN, M ’94 ARCH) of Columbia has joined the architectural firm of Garvin Design Group.

Serena Malin McDaniel (HIST) of Lexington received the 2003 Ernest F. Hollings Award for Excellence in Family Court Prosecution.

Russell D. Robinson (MGT) of Columbia is director of patient financial services at Newberry County Memorial Hospital.

Stephanie A. Slowik (SOC, M ’93 CNLGUID) of Cary, N.C., is an elementary school counselor.

1992
Teeka Peart Holzclaw (AGEC) of Greenville is married and teaching at Palmetto Middle School in Williamston.

Rajeev Jindal (EE) of Aiken owns BUNTY LLC, a precision-engineered components business.

1993
Terry E. Buchmann (DESIGN) of Irmo has joined the architectural firm of Garvin Design Group in Columbia.

Lisa Tracy (ACCT) and David L. (’94 HORT) Smith are married and living in Fredericksburg, Va.

1994
Robert M. Baysden (CE) of Gastonia, N.C., is project civil engineer with ColeJenest & Stone P.A. in Charlotte. He’s pursuing a master of business administration degree at the University of North Carolina-Charlotte.

1995
James R. III (MGT) and Heather Long (’96 HIST) DeLand are married and living in Wheaton, Md.

Terry B. Weeks (CSM) of Charleston founded the Cornerstone Co. of Charleston, a general contractor specializing in commercial design-build projects.

1996
Judd A. Caudell (SCT-PH, M ’99 CNLGUID) of Baltimore, Md., received a master’s degree from the Physician Assistant School, Mercy Hospital.

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

Scott L. Hecker (AQFI&WB) is married and living in Manassas, Va. He’s a physical scientist/forensic examiner for the FBI.

Lisa Oberg Joyce (NURS) is married and living in Winston Salem, N.C. She’s a labor and delivery nurse in Lexington.

Bensons with Big Ben
Eric P. Benson PhD ’88
Clemson entomologist Eric Benson, pictured here with his family in front of Big Ben, has received the Cooperative Extension Service Superior Service Award for providing “outstanding innovative and creative programs and information delivery for the public and private citizens of South Carolina.”

Benson presents nationally recognized programs for the pest control industry through the annual Pest Control Operators Conference, Apprentice Termite Technician Training Program, Master Termite Technician Training Program, Master Pest Control Operators Course and others.

He also conducts a weekly radio show — “Got Bugs?” — with Cam Lay ’81 and Charlotte Holt-Platt ’76, M ’87 for the public service radio program “Your Day” on the S.C. Educational Radio Network.

“Your Day” is produced as a public service of Clemson University Radio Productions, featuring a wide range of topics of interest to S.C. residents and visitors.

The Bensons — (from left) Emily, Lisa M ’86, PhD ’02, Eric and Corey — showed their Clemson colors during a Christmas vacation in London.
Laura Dellinger Lynd (PSYCH) is married and living in Dallas, Texas.

Michael C. Meals (POSC) of Annapolis, Md., is a senior sales consultant in the intelligence community for Siebel Systems Inc.

1997
Mike A. Beaudreau (POSC) is married and living in Lawrenceville, Ga. He's a national account manager with Ricoh Corp.

Chris B. Breeland (CSM) of Columbia is a principal partner in Vista-Elite Builders Inc.

Laura Bellum (SCT, M ’99 SED) and W. Tal (’98 FORMGT) Fleming are married and living in New Bern, N.C. She teaches science at Jones Senior High School in Trenton, and he’s a procurement forester for Georgia Pacific.

Tara Duncan (PSYCH) and Jamie P. (EE ’99) Jackson are married and living in Charleston. He’s employed with the Department of the Navy, and she’s a counselor with the Department of Mental Health.

Amanda Dugus Kindall (ENGL) of Avon, Ohio, is a research analyst for KCIB Center for Strategic Information.

1998
Ernest G. Brown (HIST) of Charleston is conservation officer/game warden with the S.C. Department of Natural Resources.

Kenneth Allen Buckner (M BUSADM) of Spartanburg is vice president and association relationship manager with Farm Credit Bank of Texas.

Michael W. Caccia (INDE) of Denver, N.C., is the quality sourcing engineer for GE, Western Europe. He was on temporary location in Florence, Italy, several months last year.

G. Scott Davis (BIOLSC) of Greenwood is manager of development services for the S.C. Bio-technology Incubation Program.

Jeffrey E. (M CPENGR) and Summer Fowler (EE ’01 M ’03) Fann are married and living in Mauldin. He’s a staff electrical engineer at Kemet Electronics, and she’s an electrical engineer at Venture Measurements.

Laura Bellum (SCT, M ’99 SED) and W. Tal (’98 FORMGT) Fleming are married and living in New Bern, N.C. She teaches science at Jones Senior High School in Trenton, and he’s a procurement forester for Georgia Pacific.

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**Reunion Iraq**

**Kenneth M. Wilkinson ’89 and George Wallace Whitmire**

Former Clemson ROTC cadets Kenny Wilkinson (left) and Wally Whitmire ran into each other in central Iraq. They are both with the 82d Airborne Division. Maj. Wilkinson is the executive officer for 2d Battalion, 82d Aviation Regiment, and Maj. Whitmire is operations officer for 3d Battalion, 4th Air Defense Artillery Regiment.

**Tigers in the snow**

**Rob W. Popelka ’97, ’99; Brian E. Gwin ’98; Lawton R. Smith ’98, M ’02; Michael A. Padgett ’98; Drew P. Hyche ’98**

Clemson friends and fellow skiers gathered for a photo after a ski trip earlier this year to Snowshoe, W.Va. From left, biological sciences and environmental engineering and science graduate Rob Popelka of Clemson; marketing graduate Brian Gwin of Norfolk, Va.; packaging science and MBA graduate Lawton Smith of Columbia; mechanical engineering graduate Michael Padgett of Ruffin; and textile management graduate Drew Hyche of Arden, N.C.

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Fresh start
Brian M. May M ’00
Bioengineering alumnus Brian May, currently of Leesburg, Ind., has closely followed the progress of Egyptian conjoined twins Ahmed and Mohamed Ibrahim, who were surgically separated last fall.

May is an engineer with Biomet Warsaw’s Patient-Matched Implant (PMI) department. He and two other PMI engineers have worked in conjunction with engineers from Biomet’s Biomaterials Research group to make cranial implants for the twins.

The PMI engineers have designed metal struts to be incorporated into an orthobiologic structure for support. The structure is designed to regrow the twins’ missing cranial bone. Surgery is scheduled for later this year.

PMI engineers are experienced in working with surgeons on difficult cases — patients who have abnormal anatomy, multiple surgeries, tumors or failed previous implants.

May and colleagues typically design implants for the ankle, knee, hip, elbow and shoulder. They often make patient-matched implants for primary surgeries on the knee and hip.

So little time, so little to do.

Time is running out on your chance to give a little something back to Clemson. **We need 6,000 more donors to make a gift before the 2004 fiscal year-end — June 30 — to reach our 26 percent alumni participation goal.** Every Clemson alumnus or friend who makes an annual gift — large or small — accelerates our momentum to the top.

Making a gift is easy.
- Use the enclosed envelope.
- Make a secure online gift at www.clemson.edu/supportcu.
- Call (864) 656-5896.

Time is running out.
Make your gift to Clemson by June 30.
Thank you!
Matthew J. Smith (DESIGN) of Tampa, Fla., is with the 91st Air Refueling Squadron at MacDill Air Force Base as a copilot on the KC-135 Stratotanker.

Jeffrey K. Tiddy (M ARCH) of Greenville is an intern architect with Pazdan-Smith Group Architects.

2000
Neil M. Batavia (BIOCH) of Irmo is with the Greenville intellectual property law firm of Dority & Manning. His practice includes patent prosecution, licensing and litigation in the biochemistry and computer technology fields.

Erika L. Hartwig '03

Biological sciences graduate Erika Hartwig from Lexington set her sights on Washington, D.C., to begin her career after graduation. In her job search, she found an opportunity to educate citizens through a speaking tour around the East Coast discussing ocean resource depletion. As a four-year debater for the Clemson Forensics Team, she was up to the challenge.

At the end of the tour, Hartwig was hired by National Environmental Trust to work on a campaign to protect and promote “roadless areas” in our national forests.

She’s supporting a U.S. Forest Service initiative to protect 58.5 million miles of roadless areas from timber harvesting, mining and road-building, mostly in the Western states and Alaska. Her job is to educate citizens, lobby members of Congress, organize activists and build grassroots support in seven key states.

Hartwig credits her academic foundation along with her overall Clemson experience outside the classroom for her success. With student internships from the State House to Capitol Hill to Nairobi, Kenya, and as many student organizations and activities as she could fit into her schedule, Hartwig has had a full Clemson education to say the least.

Now as an alumna, she’s a member of Clemson’s Baltimore/Washington, D.C., Young Alumni group, IPTAY and even the Clemson coed basketball team that plays in D.C. Her sister, Kristen, is a current Clemson student majoring in communications studies.

Kelly Boyle (SED-MA) and J. Tyler (’01 MGT) Gibson are married and living in Charlotte, N.C.

Matthew R. Lawrence (INDE) of Montgomery, Ala., is a lieutenant in the U.S. Army serving with the 588th EN in Baquba, Iraq. He has a Tiger Rag hanging on his door.

Keilah Metcalf Nettles (CE) is married and living in Inman.

John A. Wickliffe (CPINSYS, M ’03 PROCOM) of Greenville is an online entertainment/news producer for the Greenville News and online editor for LINK, a young-adult publication in the Upstate.

Dawn Ekre (PRTM) and J. Matt (’02 CE) Schlachter are married and living in Savannah, Ga. She’s a recruiter for Girl Scouts of the USA, and he’s a project engineer for TIC.

Ashley Elizabeth Sherry (ENGL, ’02 M PROCOM) of Columbia is the community relations director at Family Connections of South Carolina.

Brian T. (GRCOMM) and Jennifer Baker (ECHED) Coleman are married and living in Woodbridge, Va.

Kathleen Anne Edwards (CRD) of Homestead, Fla., is the director of public affairs for Dade County Farm Bureau.

William H.N. Ellis Jr. (M ACCT) of Greenville is certified as a public accountant by the S.C. Board of Accountancy. He’s a tax accountant for Lockheed Martin Aircraft & Logistics Centers and also an adjunct instructor in the accounting department at Greenville Technical College.

2001
Danielle Goetz (SPECED) and Christopher (’02 MKTG) Herr ring are married and living in Charlotte, N.C.

Holly Kristen Nolan (SP&COMM), a Greenville native, is a fashion designer with her own line, Holly Kristen Originals, featuring hand-sewn garments crafted from natural fabric. Her line was recently featured at New York’s China Club in a show sponsored by Sephora, an international cosmetics chain. Her fashions are now selling in Milan, Paris, London, Hong Kong and New York.

Clemson in D.C.

Biological sciences graduate Erika Hartwig from Lexington set her sights on Washington, D.C., to begin her career after graduation. In her job search, she found an opportunity to educate citizens through a speaking tour around the East Coast discussing ocean resource depletion. As a four-year debater for the Clemson Forensics Team, she was up to the challenge.

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2002

Matthew A. Holland (HIST) of San Diego, Calif., is attending Thomas Jefferson School of Law.

Melanie T. Smith (DESIGN) of Greenville is working for Pazdan-Smith Group Architects as an intern architect. She’s providing construction documentation for Tigerville Elementary School and St. George Greek Orthodox Cathedral.

Josh D. Werts (CE) of Asheville, N.C., is a project engineer with Cavanaugh & Associates, an engineering, surveying and planning firm.

2003

Biological sciences graduate Erika Hartwig from Lexington set her sights on Washington, D.C., to begin her career after graduation. In her job search, she found an opportunity to educate citizens through a speaking tour around the East Coast discussing ocean resource depletion. As a four-year debater for the Clemson Forensics Team, she was up to the challenge.

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Your class counts

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

To help raise your class’s giving record, use the enclosed envelope, call (864) 656-5896 or make a secure online gift at www.clemson.edu/supportcu.
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Dust off that Rolodex, update your résumé, proof your cover letter and press that interview suit! The price of falling behind on your career development just got higher — LITERALLY! Preparing for a job search before you're in a career crisis is money in your pocket.

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<th>Annual Salary</th>
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For career development assistance that you can bank on, contact the Clemson Alumni Association.

Tenneil Moody, Director
Alumni Career Services
864-656-2345
Email: acs-L@clemson.edu
Web: alumni.clemson.edu

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


Kristen Yeager ’88 and Daniel H. ’89, M ’91 Poston, a daughter, Ella Joyce, April 5, 2003.

Juan R. Gaudiano ’89, a daughter, Sophia Carmen, Aug. 28, 2002.


Hancel Andy ’90 and Susan Shearer ’93 Beckworth, a daughter, Lauren Emory, June 26, 2002.

Edward C. Graham ’90, a daughter, Paula Teresa, Aug. 7, 2002.

Chet R. Horton ’90, M ’95, a son, Lucas Reed, June 12, 2003.


Courtney M. ’90 and Jennifer Caughman ’91 McInnis, a son, Mason Roscoe, Nov. 26, 2002.


Mary Fay ’90 and Erik A. ’92 Stockham, a son, Robert Allen, Nov. 12, 2003.

David S. ’90, M ’92 and Kristen Gruber ’91, M ’93 Ware, a son, Lukas Sutherland, July 25, 2003.


Jamie S. Johnson ’91, a daughter, April Louise, Nov. 15, 2003.


Todd S. ’93 and Sunshine Lovett ’94 Blevins, a son, Grant Stuart, Aug. 4, 2003.


Bryant E. Caveness ’93, a daughter, Abigail Elise, May 10, 2003.


Erik S. Phillips ’93, a daughter, Katrina Isabelle, Aug. 25, 2003.

Michael E. ’93, M ’96 and Joy Godwin ’95 Van Daele, a daughter, Emma Davis, Oct. 11, 2003.


Christopher R. ’93 and Kimberly Morgan ’96 Wolfe, a son, Justin Christopher, Sept. 21, 2003.


Teresa Briggs Arthur ’95, a daughter, Xaria, April 13, 2003.


Christopher P. and Nicole Wood Miller ’95, a daughter, Lauren Elizabeth, Sept. 22, 2002.

Jason E. Shiflet ’95, a son, Evan Thomas, April 16, 2003.

Paul J. ’95 and Liberty Tanner ’96 Stroman, a son, Paul Tanner, Nov. 1, 2003.


James B. ’96, M ’03 and Sarah Jenkins ’96 Garland, a daughter, Lauren Ramsey, April 25, 2003.


Scott L. Hecker ’96, a daughter, Addison Elise, Nov. 4, 2003.


Greer S. McDougald ’96, a son, Jesse Fredwell, Nov. 5, 2003.


Rebecca Hemphill Benson ’97, a son, Grant Todd, Aug. 29, 2003.


Christopher B. Breeland ’97, a son, Samuel Chace, Oct. 15, 2002.


Carrie Anne Crater ’98, a son, Carson Michael, March 5, 2002.


G. Scott Davis ’98, a daughter, Millison Grace, June 20, 2003.


Ashley Dorn Simmons ’01, a daughter, Chloe Elizabeth, Oct. 8, 2003.


Kimberly Joy Ellis ’03, a son, Thomas James, Sept. 17, 2003.
What’s new? We like to hear from you.

Legacy of Leaders

Clemson University’s Corps of Cadets is alive and well today thanks to alumni who believe that the leadership with integrity developed during Corps years is just as important to future generations as it has been to past ones. With your help, the Corps will grow even stronger. The Clemson Corps Scholarship Endowment allows the University to recruit and retain outstanding students who want to excel scholastically and prepare for a lifetime of leadership. Our University and our nation deserve nothing less.

Use the envelope in this magazine, or make a secure online contribution at www.clemson.edu/isupportcu. Specify that your gift is for the Clemson Corps.

Go to www.alumni.clemson.edu/clemsoncorps.htm to learn more about the Clemson Corps or to download this image.

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

Lewis D. Morehead ’30, Sandy Springs
J. Rutledge Coleman ’33, Pam-plico
Harry T. Shore ’36, Savannah, Ga.
Robert J. Jones ’38, Macon, Ga.
Calvin M. McKeeon ’38, Chester
Jewel C. Morgan ’38, Sale Creek, Tenn.
Alfred C. Payne ’38, Cartersville, Ga.
Mitchell R. Powers ’39, Marion
Robert C. Blair ’43, Columbia
R. Theo Harris ’43, M ’60 Westminster
Jesse A. Boyce ’44, Greenwood
Ralph L. Garner ’48, Union
Oscar R. Summer Jr. ’48, New-berry
Charles C. Corley Jr. ’49, Anderson
Raymond E. Davenport ’49, Williamston
Albert R. Fant ’49, Anderson
William P. Gill ’49, Rock Hill
Larry M. Haigler ’49, Cameron
Richard C. Hurley ’49, Green-ville
Ray N. Crowe ’50, Greenwood
Jessie M. Thomason ’50, Toccoa, Ga.
Horatio S. Buck Jr. ’51, Ed-gemoor
William H. Drake ’51, Donalds
Tommie A. King ’51, Anderson
William E. Smith ’51, Salem
Richard M. Berry ’53, Birmingham, Ala.
Robert C. Grant ’55, Ab-beville
Marion W. Sams Jr. ’56, Wal-terboro
Robert O. Willard ’56, Asheboro, N.C.
Duane D. Rennerfeldt ’58, Oakland, Neb.
James P. Causey ’60, Conway
Kent C. Ham ’61, Darlington
Robert M. Lindsey ’63, Pickens
Mark B. McGarity ’66, Clem-son
Linda Julian Bowie ’72, Greenville
Laura Hoke Skatell ’78, Isle of Palms
Pamela Hoover Cagle ’79, Sullivans Island
John A. Dacus III ’81, Williamston
William H. Ownbey ’81, Fort Mill
Sanjay Anela ’88, Clemson
Frances C. Foster ’91, Easley
Ian R. Burns ’96, Shelby, N.C.
Douglas H. McLeod ’04, Wal-terboro

Clemson FanS in Iraq

These Clemson fans are members of the most forward deployed S.C. National Guard Signal Unit — Alpha Company, 151st Signal Battalion, S.C. Army National Guard.

Pictured from left are Sgt. Larry Fuller, Sgt. John Shirley, Staff Sgt. Jody Keller, Sgt. Bobby Gordon and 1st Lt. Harry Tomlin.

They’re inside a technical control facility that the unit installed. The facility manages all communication assets for the site.

Calling all art alumnæ

In honor of two Clemson celebrations — the 50th Anniversary of Coeducation and Women’s Studies — the Lee Gallery will host an exhibition of works by women graduates from the Department of Art, formerly known as the visual arts department, from Jan. 10, 2005, to March 18, 2005.

Women who have graduated from the BFA or MFA programs who have continued working in the field of visual arts are invited to submit images of available works for this exhibition.

While the exhibition will not be juried, we’ll use a curatorial process because of space limitations. We are looking for works that are of medium to small scale (20” x 20” or similar) and preferably made within the last two years.

Submissions deadline is Aug. 20, 2004.

For consideration please submit:
- Images of available works (3-4 pieces) in either slide or jpg format @ 72 dpi
- A brief artist statement
- Current résumé
- Degree granted, year, emphasis area (painting, printmaking, etc.)

Works submitted, however, don’t need to represent the area in which you received your degree.

Send to Denise Woodward-Detrich, Lee Gallery director, at G-50 Lee Hall, Clemson University, Clemson, SC 29634-0509. For more information, call (864) 656-3883, email woodwaw@clemson.edu or visit the Web at www.clemson.edu/caah/leegallery.
A great university needs great students.
And great students want Clemson.

Clemson is attracting some of the country's finest students. The top 300 applicants for admission next fall have an average SAT of 1460 (34 ACT) and are in the top 1.47 percent of their high school class. These students are receiving significant academic scholarship offers from other schools — even other in-state schools.

Without your help, Clemson may not be able to compete for these top scholars.

Please help us keep these students at Clemson by sending a gift today to fund academic scholarships. Use the enclosed envelope, call (864) 656-5896 or go to www.clemson.edu/isupportcu. Specify “Scholarships” as your giving priority.

Your support has never been more important.
**World Trade cover story**

Clemson alumnus and sporting goods manufacturer J. Wayne Merck of K2 Inc. is the cover feature of World Trade’s November 2003 issue. K2 is the “largest pure-play hard goods sporting goods manufacturer in the United States,” a climb made possible, according to World Trade, “through an aggressive strategy of mergers and acquisitions supported by a finely tuned supply chain.”

For more on Merck, see “Sporting Goods,” on p. 35 of this issue. To visit K2 Inc.’s Web site, go to www.k2inc.net.

**Automotive Engineering**

The January 2004 issue of Automotive Engineering International includes the Clemson University International Center for Automotive Research project in the article “Clemson, BMW bring auto research down south.” The magazine is a publication of SAE International, a society dedicated to advancing mobility engineering worldwide.

Forbes Magazine (Jan. 13, 2004) also carries an article on Clemson’s research campus. And the February-March 2004 issue of Expansion Solutions includes the project in “Clemson University Breaks Ground for Automotive Research Campus.”

For the latest on Clemson-ICAR, see p. 11 in this issue or visit the Web at www.clemson.edu/autoresearch.

**NPR’s ‘Whad’Ya Know?’**

The CU Steel Band entertained the Clemson audience and an estimated 1.5 million listeners during a live national broadcast of Michael Feldman’s “Whad’Ya Know?” earlier this year. The January broadcast from the Brooks Center introduced the National Public Radio audience to some of Clemson’s talented students.

For information on the CU Steel Band or other performing arts opportunities, visit the Web at www.clemson.edu/PerfArts.

**Changing plastics**

Plastics Technology magazine (March 2004) features the research of Clemson professor Dave Zumbrunnen in “‘Chaotic Advection’ Creates New Polymer Blend Morphologies.” Mechanical engineer Zumbrunnen, previously featured in Clemson World (Winter 2004), has developed a smart blending process, along with faculty and student researchers from Clemson’s Center for Advanced Engineering Fibers and Films and with support from the National Science Foundation, the National Textile Center and industry. The process could change the way many polymer products are produced.

For more on this research, visit the Web at www.clemson.edu/winter04 and click on “Chaos Connected.”
**Voters choice**

During the Democratic presidential primary in South Carolina earlier this year, media from around the nation and well beyond called on a variety of Clemson experts.

Bruce Ransom, professor of political science and chair of policy studies at the Strom Thurmond Institute of Government and Public Affairs, was most often cited in publications ranging from the Atlanta Journal-Constitution to the San Francisco Chronicle to the Chicago Tribune to the Concord Monitor (New Hampshire) and from Agence France Presse to Deepika Global (India). On the day after the primary, Ransom answered questions about the South Carolina Democratic primary from persons across the United States for an hour on Washington Post Online.

Clemson political science professor Laura Olson spoke on politics and religion on NPR’s “Weekend All Things Considered” (Feb. 21, 2004) and was quoted on the same subject in Arkansas Democrat Gazette, Denver Post, Oakland Tribune and others.

Clemson professors were also quoted on election concerns in the Charlotte Observer, Boston Globe, Ottawa Citizen, National Post (Canada), New Orleans Times-Picayune, San Jose Mercury News and others.

For more on political science at Clemson, visit the Web at business.clemson.edu/polisci. To visit the Strom Thurmond Institute, go to www.strom.clemson.edu.

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**‘No’ to bullying**

Clemson’s program to prevent bullying among children and youth continues to gain national attention.

Susan P. Limber, associate director of Clemson’s Institute on Family and Neighborhood Life and director of its Center for Youth Participation and Human Rights, is providing consultation on the development of a $3.4 million public information campaign on bullying prevention. The campaign is supported by the Health Resources and Services Administration, U.S. Department of Health and Human Services.

In the past few months, articles about Clemson’s program or quotes from Limber have appeared in LA Times.com, Detroit News, CNN.com, Health & Medicine Week, Mental Health Weekly Digest, Duluth News and other national media.

The institute’s mission at Clemson is to generate, share and apply the knowledge needed to strengthen ties between families and communities. For more information, visit the Web at www.clemson.edu/ifnl or call (864) 656-6271.

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**‘EYE WONDER’**

Videographer Dave Adams ‘94 hosts SCETV’s “EYE WONDER,” an interactive program for middle school students that focuses on science, technology, art and history.

Adams has traveled around the state and country documenting diverse subjects including the aftermath of Mount Saint Helens, how bridges are constructed and how Clemson ice cream is made.

The program is available through the S.C. Department of Education Television Network and SCETV. It’s also seen on public television in the Los Angeles area.

You can email Adams with your own “eye wonder” ideas at www.eye-wonder.org.

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**Tiger watch**

The Howard Journal of Communications included an article last semester on Tiger Woods in the media by Clemson communications studies professor Andrew Billings. Billings, whose research deals with the intersection of race and sport, analyzes the televised portrayals of Woods in the 2001 Grand Slam golf championships.
Commitment

Thomas and Hutton Tigers

Clemson alumni completed an employee alumni campaign at Thomas and Hutton Engineering, raising $71,970 in scholarship funds for undergraduate students majoring in engineering at Clemson. The endowment includes a match from the company.

Thomas and Hutton Engineering in Mount Pleasant asked Clemson alumni employees from the Savannah, Charleston, Myrtle Beach and St. Simons Island locations to participate in the campaign.

“We have a sizable number of Clemson alumni who work for Thomas and Hutton,” says J. Mitchell Bohannon III ‘83, chairman of the board. “I wanted to encourage all of them to contribute to the Clemson Fund’s endowment to honor the memory of our founders, Joseph J. Hutton and Hue Thomas.”

And did they ever! One hundred percent of the company’s Clemson alumni participated in the campaign.

Studio ’41

The Class of 1941 has a vision for Clemson: to produce students who are not only knowledgeable, but also outstanding in communicating that expertise. As a result, these seasoned alumni have given $1 million to establish the new Class of 1941 Studio for Student Communication.

The studio, located in Daniel Hall, will enable Clemson to build on Communication Across the Curriculum, an innovative program that led TIME magazine to name Clemson Public College of the Year for 2001.

Communication Across the Curriculum is a concept in which students of all majors spend less time taking tests and listening to lectures, and more time engaged in their studies — through speeches, computer-assisted presentations, writing and keeping journals — to better prepare for professional demands.

The studio, in conjunction with the highly successful program, will help students learn to be better speakers and writers and more savvy users of the Internet and other communication technology. It will provide resources, technology and the space to work with faculty or student tutors to shape ideas into speeches and presentations.

English professor Kathleen Yancey, who directs the Roy and Marnie Pearce Center for Professional Communication, says the gift will help Clemson polish a new generation of students in the art of communicating.

Through the studio experience, faculty will form a collective knowledge about using various forms of communication to teach and learn. In addition, the new studio will provide a site for national research. In August, for example, a group of scholars from across the country will gather in the studio to conduct research on digital portfolios.

The Class of 1941 has contributed more than $11 million to education projects at Clemson. Pictured at the studio dedication are, from left, James O. Taylor, Bill E. Awtrey, Albert N. Cameron, P.W. McAlister, L. Mac Sparks, Olin S. Kirkpatrick, Ed L. Young, Richard B. Cauthman, Bill V. Trammell, Pinckney Eve, Lewis E. Maness, Clyde B. Dobson, Frank H. Inabnit, President Jim Barker and Don McKale, Class of ’41 Memorial Professor of the Humanities.

Serious smarts

Clemson National Scholars took time to dress up and meet some of their biggest fans at the first Cumulative Gift Societies Event, held this year in the newly renovated Littlejohn Coliseum.

The National Scholars Program provides an exceptional group of students with an extraordinary educational experience including a full scholarship, study-abroad opportunity and a host of other learning experiences.
On Nov. 6, 1886, Thomas Green Clemson penned his last will and testament in the quiet of his law library at Fort Hill. By making a provision in his will for a “high seminary of learning,” he greatly improved the lives of many generations in the state and far beyond.

His death in 1888 set in motion a series of events that marked the start of a new era in higher education in South Carolina. Through his carefully planned will, he bequeathed the Fort Hill plantation and a large sum from his personal assets to establish a college that would teach scientific agriculture and the mechanical arts. With pen and paper and a powerful vision, the University was born.

The Clemson University Foundation will soon unveil the Clemson Legacy Society Registry in honor of Clemson’s will. Alumni and friends who make provisions in their own wills to support the University will have the opportunity to continue our founder’s legacy by signing this archival-quality, leather-bound registry. Look for more details in the summer issue of Clemson World.

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

Fluor supports PEER, WISE

The Fluor Foundation, charitable arm of Fluor Corp., has awarded Clemson $30,000 to support minority and female retention initiatives in the College of Engineering and Science. The money also rewards exemplary faculty through an annual Student Government Excellence-in-Teaching Award.

The bulk of the gift goes to the Program for Educational Enrichment and Retention (PEER) and the Women in Science and Engineering (WISE) program. These programs help retain and graduate underrepresented students in technical and scientific majors. The gift finances the training of mentors and tutors to guide minority freshmen and transfer students.

With the success of PEER and WISE, the number of women and minority students graduating in science and engineering has increased significantly. Clemson is currently tied for first in the nation in the proportion of African American students who graduate in engineering at nonhistorically black colleges.

The remaining funding goes to recognize outstanding teaching in the undergraduate classroom. It provides travel-abroad experience for scholarly research that will further strengthen the professor’s teaching. The 2004 recipient, Laura Olson, is an associate professor in the political science department. She teaches American government, religion and politics, political parties and elections, interest groups and social movements.

The Fluor Foundation, a longtime partner and supporter, has awarded more than $182,000 to Clemson’s retention program and Excellence-in-Teaching Award since 1997.

Reason to celebrate

Sally Trapnell ’61 (left) and Joe ’71 and Cathy ’76 Turner visited with Clemson National Scholar Michelle Malecha (right) during the spring Cumulative Gift Societies Event. Michelle, a chemical engineering major, is in the first Clemson National Scholars class to graduate in May.

Major donors make highly competitive scholarship programs possible — to attract the brightest and best students to Clemson. Major Gift Clubs participants (gifters of $1,000 or more annually) and members of the various Gift Societies help sustain the quality of education at Clemson.
‘I got in!’

Incoming freshman Paul Wright, son of Pam Gilmer ‘82, M ‘86 and Patrick Wright, shows off his Clemson letter of acceptance in the early morning hours right after he arrived home from a school trip. Paul will join 2,800 other students this fall in the new freshman class.

Photo credit: Patrick Wright, the proud father