

Wind Energy Quest | Clemson Scholars, World Smart | DSA 2010 | DEEP ORANGE

# CLEMSON

**WORLD**  
MAGAZINE

SPRING 2010

*Wind*  
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quest



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CLEMSONWORLD MAGAZINE



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## EXTRAS ON THE WEB

Check out the Alumni Association's fresh new look at [www.clemson.edu/alumni/brand-video.htm](http://www.clemson.edu/alumni/brand-video.htm).

See the University's year in review "Clemson 2009" at [www.youtube.com/clemsonuniversity](http://www.youtube.com/clemsonuniversity).

View *Clemson World* online with lots of Web extras at [www.clemson.edu/clemsonworld](http://www.clemson.edu/clemsonworld).

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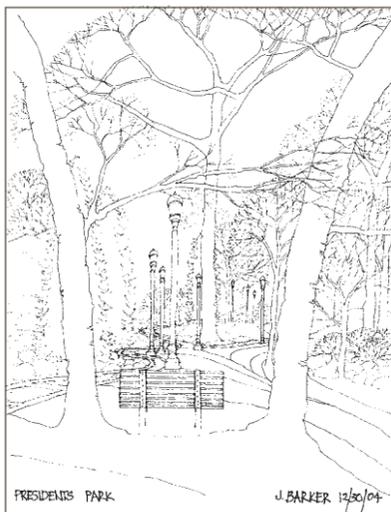
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**CW DYK?** "Did You Know" facts about Clemson University.

[www.clemson.edu/clemsonworld](http://www.clemson.edu/clemsonworld)

# Uniquely Clemson

*“Alumni classes and other constituent groups have supported projects to enhance or shape our campus, or to enrich the educational experience of Clemson students.”*



**A**n article in this issue tells the story behind Clemson's most visible new landmark, the Scroll of Honor Memorial. It was dedicated this spring in a ceremony that was both moving and significant.

Located just across the street from Memorial Stadium and Howard's Rock, the Scroll of Honor Memorial pays tribute to all 468 Clemson alumni who, to this date in history, have died in service to our country.

But what does this new landmark have in common with other prominent campus features like the Carillon Garden, Cox Plaza or the stone entrance gates?

Each of these uniquely Clemson sites was made possible by gifts from alumni, students or organizations, even the '55 Exchange in Hendrix Student Center, where you buy your Clemson ice cream and blue cheese.

Over the years, alumni classes and other constituent groups have supported projects to enhance or shape our campus, or to enrich the educational experience for thousands of Clemson students.

Some classes and groups want to **invest in bricks-and-mortar** that beautify the campus or provide facilities we need for teaching, research or service. Others **invest directly in people**. They leave a perpetual living legacy by creating endowments that fund student scholarships and fellowships, or faculty awards, chairs and professorships.

The Clemson Corps, for example, gives to the Scroll of Honor Memorial and to ROTC scholarships. The Tiger Band Association supports awards and scholarships for student musicians.

The Class of 1939 has done it all — literally. They hit a triple by giving to physical improvements in the S.C. Botanical Garden, to student scholarships and to faculty support.

The Class of 1939 Faculty Award for Excellence is one of the most coveted honors a Clemson University faculty member can receive. It recognizes the highest achievement in service to the student body, the University and the community. It also includes a \$5,000 stipend and honorary membership in the class.

As a result, this remarkable class is actually growing, instead of shrinking. They passed the leadership gavel to their honorary members at their 70<sup>th</sup> reunion last year. **The Class of 1939 will live forever** because of that endowed award to honor our University's best and most devoted faculty members.



Scroll of Honor Memorial groundbreaking in 2008

Now flash forward 70 years. The Class of 2009 will leave its mark on Clemson by putting its class gift toward the expansion, renovation and restoration of Lee Hall. Why? Because Lee Hall is Clemson's top priority for facilities support right now.

In the midst of a once-in-a-generation recession (we hope!), this dedicated and pragmatic group of seniors asked me: “What is Clemson's most pressing need **today**?”

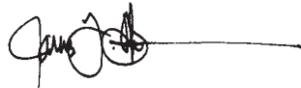
We answered by outlining our **top priorities for private donations**:

- **student support**, including undergraduate scholarships, and graduate student fellowships and assistantships
- **faculty support**, including professorships, chairs, awards and other stipends
- **Lee Hall**

Lee Hall is outdated and seriously overcrowded. It has about half the space needed for the programs and students it serves. While other building priorities had to be postponed for budget reasons last year, Lee Hall rose to the top of our priority list because it also qualified for federal stimulus funding, which is restricted to renovation and maintenance projects.

We broke ground on the Lee Hall project in April, with the help of the Class of 2009. These young people, our youngest alumni, have stepped up to join the long and proud line of Clemson men and women whose generosity has left its mark on our students and our campus forever.

Our gratitude to all of you is impossible to calculate. It will endure forever, too.



James F. Barker, FAIA  
President

**T**here are too many notable campus building and landscape projects to list each one. A small sample includes: Class of 1944 Visitors Center, Class of 1957 Rotunda in President's Park and Class of 1960 North Campus Green project.

To find your class project, go to [cualumni.clemson.edu/classprojects](http://cualumni.clemson.edu/classprojects). For more giving information, go to [www.clemson.edu/giving](http://www.clemson.edu/giving).



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**Proterra brings jobs, clean-energy research**

**P**ROTERRA INC., WHICH DEVELOPS AND ASSEMBLES fuel cell hybrid-powered transit vehicles, will locate a facility for research and development as well as assembly at the Clemson University International Center for Automotive Research (CU-ICAR) in Greenville.

**“This new facility will be our first full-scale, state-of-the-art research and development and manufacturing facility for our groundbreaking clean transportation solutions,”** says Jeff Granato, CEO of Proterra Inc.

The company and its partners design, develop and assemble all-electric and battery-dominant hybrid drive solutions and complete vehicles for commercial applications, including transit, school and commercial buses; parcel delivery vehicles; and other class 4-8 trucks.



**Proterra anticipates that it will invest \$68 million and create 1,300 new jobs over the next seven years in Greenville County.** The company will require a variety of skilled workers to support functions such as mechanical assembly, warehouse, logistics, management, engineering and quality assurance. It will lease 25 acres in CU-

ICAR’s Technology Neighborhood Three to construct a 240,000-square-foot building initially, with potential expansion into the entire 50-acre site. Proterra’s very first vehicle, a battery-dominant fuel cell-hybrid transit bus funded by the transit administration, is in service in Columbia. The company is headquartered in Golden, Colo. For more on Proterra, go to [www.proterraonline.com](http://www.proterraonline.com). For more about CU-ICAR, go to [www.cuicar.com](http://www.cuicar.com).

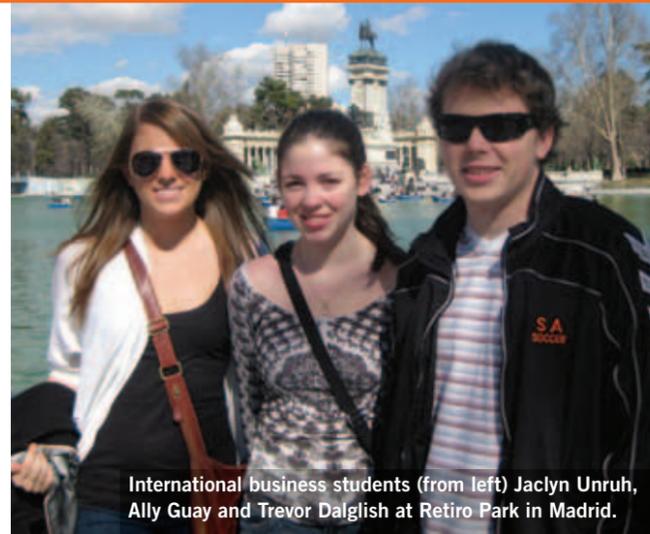
**CW•DYK?**

**Community service honor roll**

*For the third year in a row, Clemson has been named to the President’s Higher Education Community Service Honor Roll, the highest federal recognition a college or university can receive for its commitment to volunteering, service-learning and civic engagement.*

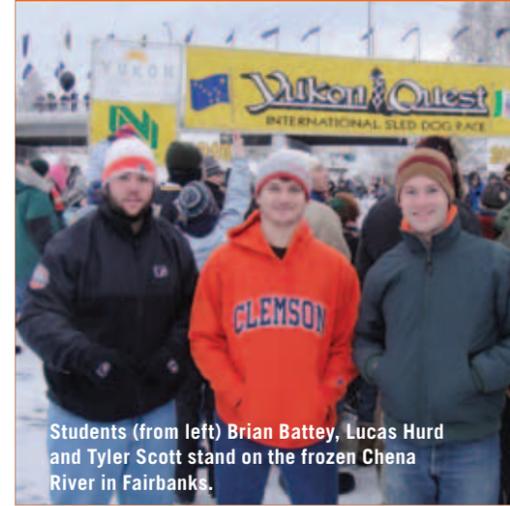
**Double the knowledge, double the experience**

**CLEMSON’S FIRST** group of Transatlantic Double Degree in International Business students are taking advantage of a new program that immerses them in foreign cultures and allows them to gain new perspectives on business. It offers undergraduates an opportunity to earn two bachelor’s degrees in four years while studying at the Aarhus School of Business in Denmark, Universidad Carlos III de Madrid in Spain and Clemson’s College of Business and Behavioral Science. For more information, contact Mark McKnew a [mamckn@clemson.edu](mailto:mamckn@clemson.edu) or call 864-656-2685.



International business students (from left) Jaclyn Unruh, Ally Guay and Trevor Dalglish at Retiro Park in Madrid.

**Rocket launch at Poker Flat**



Students (from left) Brian Battey, Lucas Hurd and Tyler Scott stand on the frozen Chena River in Fairbanks.

**STUDENTS TRAVELED TO FAIRBANKS, ALASKA,** with physics and astronomy professor Miguel Larsen in February to conduct a rocket launch to study the interaction between the ionosphere and the atmosphere in the auroral oval from the rocket range at Poker Flat. While there, the Clemson group took in the start of the annual Yukon Quest dogsled race between Fairbanks and Whitehorse.

For several years, Larsen has guided Clemson students in NASA-funded research at the University of Alaska Geophysical Institute’s Poker Flat Research Range, Alaska’s center for arctic space and atmospheric research. For more information, contact Larsen at [mlarsen@clemson.edu](mailto:mlarsen@clemson.edu) or 864-656-5309.

**CW•DYK?**

**Host for global teachers**

*For the second year, Clemson University’s Eugene T. Moore School of Education has been awarded a grant of more than \$160,000 to be one of five universities hosting teachers from around the globe.*



R. Vernon Williams (left), president and CEO of PalmettoNet, and Bryant G. Barnes (center), president and CEO of Comporium, with Clemson President Jim Barker.

**Optoelectronics Research Center of Economic Excellence**

**P**PRIVATE GIFTS FROM TELECOMMUNICATION COMPANIES COMPORIUM and PalmettoNet of South Carolina, along with a state match, have raised \$4 million to establish an Optoelectronics Research Center of Economic Excellence at Clemson.

The new Center of Economic Excellence — in Clemson’s Holcombe Department of Electrical and Computer Engineering — will be supported by the PalmettoNet Endowed Chair in Optoelectronics and the Comporium Fund for Excellence in Optoelectronics.

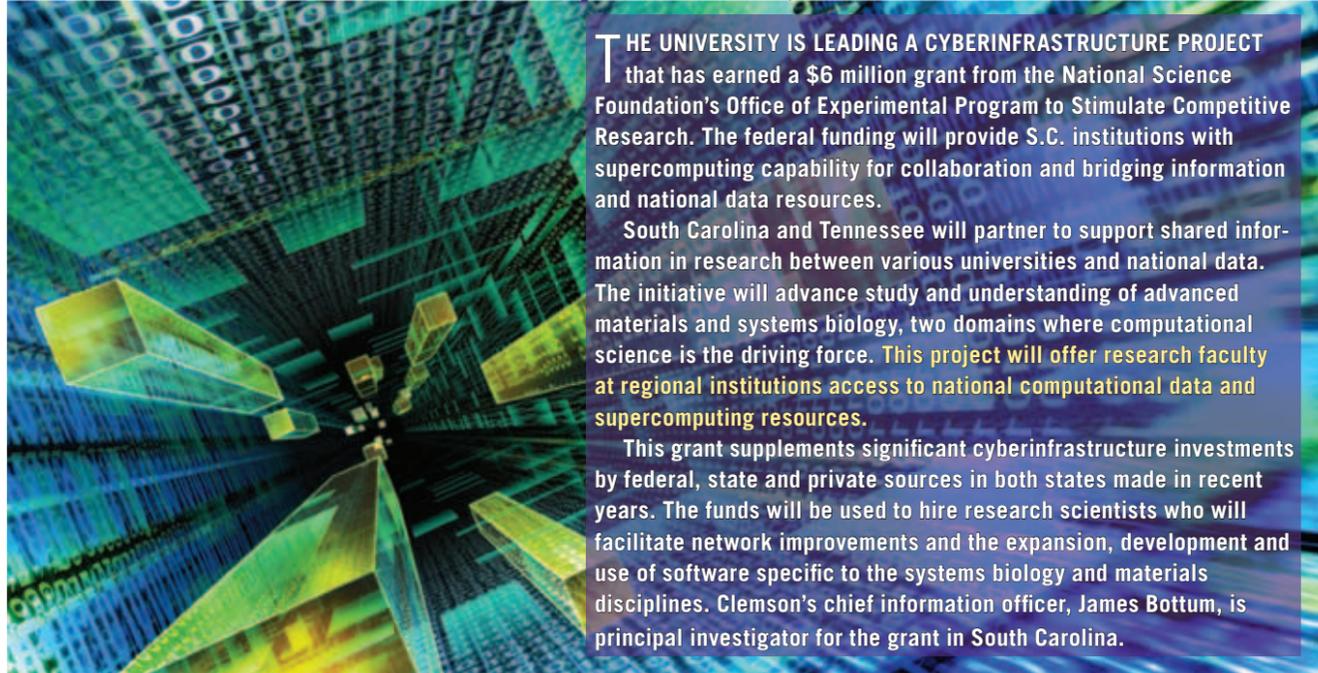
**It will be the nexus for a community of scholars and entrepreneurs with shared interests and expertise in optoelectronics research — the study of the interaction of light with electronic devices using photons and electrons. The field focuses on improving devices, systems and protocols used in high-speed communication networks — from computer screens to defense systems.**

The center will be co-located and partnered with Clemson’s Center for Optical Materials Science and Engineering Technologies at the Advanced Materials Research Laboratory in Anderson County.

**Comporium of Rock Hill and PalmettoNet of Columbia invested \$1 million each to support the research and educational activities of the center. That money will be matched by the state for a \$4 million total investment.**

Comporium is a diversified telecommunications company in the Carolinas, second largest telephone exchange company in the state and 16<sup>th</sup> largest in the nation. PalmettoNet provides fiber optic broadband capacity to the secondary and tertiary markets of the Carolinas. Its founding members include Comporium and other telephone companies in the state that joined forces to offer customers and Interexchange carriers the most advanced telecommunications technology available.

**Clemson leads \$6M tech initiative for cyber research, education**



**T**HE UNIVERSITY IS LEADING A CYBERINFRASTRUCTURE PROJECT that has earned a \$6 million grant from the National Science Foundation's Office of Experimental Program to Stimulate Competitive Research. The federal funding will provide S.C. institutions with supercomputing capability for collaboration and bridging information and national data resources.

South Carolina and Tennessee will partner to support shared information in research between various universities and national data. The initiative will advance study and understanding of advanced materials and systems biology, two domains where computational science is the driving force. **This project will offer research faculty at regional institutions access to national computational data and supercomputing resources.**

This grant supplements significant cyberinfrastructure investments by federal, state and private sources in both states made in recent years. The funds will be used to hire research scientists who will facilitate network improvements and the expansion, development and use of software specific to the systems biology and materials disciplines. Clemson's chief information officer, James Bottum, is principal investigator for the grant in South Carolina.

**Open Parks Grid at your fingertips**

**C**LEMSON AND THE NATIONAL PARK SERVICE plan to take parks information out of a virtual wilderness and place it at the fingertips of the people most likely to use it.

They are collaborating on the Open Parks Grid, a project using state-of-the-art Internet and computer technology to assemble information that empowers a community of people who use, manage and study parks.

The Open Parks Grid will match the right knowledge with park managers who need it when they need it — "just-in-time knowledge" according to Brett Wright, chairman of Clemson's parks, recreation and tourism management (PRTM) department. It can also notify managers when new information becomes available.

Clemson's PRTM department, computing and information technology division and R.M. Cooper Library are working with the Southeast Region on the project. **The grid will utilize cyberinfrastructure developed by Clemson computing and information-retrieval specialists to combine a search engine and online library of information and artifacts with maps, educational materials and tools for the individual park communities to organize around shared park interests.**

The Open Parks Grid is being tested at Great Smoky Mountains National Park, Congaree National Park, Cowpens National Battlefield, Ninety-Six National Historic Site and Augusta Canal National Heritage Area. For more information, contact Wright at [wright@clemson.edu](mailto:wright@clemson.edu) or 864-656-3036.



**CW • DYK?**

**Best value**

The Princeton Review *Best Value Colleges for 2010*, presented by USA TODAY, includes *Clemson as one of the nation's 50 best values in public colleges and universities.*



**Helping older adults manage care**

**T**HE U.S. DEPARTMENT OF HEALTH and Human Services awarded Clemson's College of Health, Education and Human Development professor Cheryl Dye and her colleagues two grants totaling more than \$700,000 for programs that help local older adults manage chronic health conditions.

Dye, director of the Institute for Engaged Aging, is working with Deborah Willoughby of nursing and Joel Williams of public health sciences on programs that teach older Oconee County residents techniques for managing their chronic conditions through the assistance of community volunteers.

The first program received approximately \$375,000 of the federal funding. Dye and Willoughby trained 46 community volunteers to be "health coaches" and paired them with

70 high-risk, discharged home-health services patients. The health coaches helped the patients learn to manage chronic illnesses like diabetes and heart disease with techniques such as medication management, healthy eating and physical activity.

**The health coaches also socialized with patients and helped them gain access to community resources to reduce utility bills, find food assistance and locate volunteers for home repairs.** For more information, contact Dye at [tcheryl@clemson.edu](mailto:tcheryl@clemson.edu) or 864-656-4442.

**CW • DYK?**

**Environmental justice award**

*A statewide team including the Clemson University Restoration Institute received a 2009 Environmental Justice Achievement Award from the U.S. Environmental Protection Agency, recognizing the success of partnerships in addressing environmental justice issues or adopting goals to improve a community.*

**Women Track & Field wins ACC!**

**TWELVE ALL-AMERICA HONORS, SIX ACC INDIVIDUAL EVENT CHAMPIONS,** an ACC team title and a seventh-place NCAA finish highlight Clemson's 2009-10 women's indoor track and field season.

**Clemson's margin of victory was the largest at any ACC women's indoor track meet since the 1997 season. The Tigers also produced a school-record six indoor champions, including five individuals and the mile relay.**

April Sinkler took home crowns for the second straight year in the high jump and long jump. Liane Weber won her third pentathlon championship in four years. Kim Ruck dominated the 5K from start to finish, and Brianna Rollins took the gold in the 200-meter dash.

The icing on the cake was the top finish in the 4x400-meter relay by all-freshmen team Brittany Pringley, Rollins, Sonni Austin and Jasmine Edgersen.

**ACC event champions, clockwise from top left, Brianna Rollins, Sonni Austin, Brittany Pringley, Jasmine Edgersen, April Sinkler, Kim Ruck and Liane Weber**





**Wanted: nature-based sculpture memories**

REMEMBER THE FIRST TIME YOU SAW THE CRUCIBLE TUCKED AWAY IN the S.C. Botanical Garden? Or the Clemson Clay Nest? Or the “stick castle” called Sittin’ Pretty? Or any of the other amazing nature-based sculptures featured throughout the garden?

The S.C. Botanical Garden’s staff has joined with former artists-in-residence and a team of collaborators across campus to produce a series of publications both for academic study and public outreach. **This project offers a unique creative venue with a new Web site and a book that you can help create.**

Alumni, faculty, staff and community members are asked to offer reflections, memories and anecdotes centered on the garden sculptures. Just go to [naturebasedart.org](http://naturebasedart.org) or contact Dylan Wolfe at [dwolfe@clemson.edu](mailto:dwolfe@clemson.edu) or 864-656-4515.

**CW•DYK?**

**Leader in information systems research**

*Varun Grover, the William S. Lee Professor in the management department at Clemson University, is ranked third among the 200 most-influential researchers in the world in a study published in the Journal of the Association of Information Systems, the research journal of the Association for Information Systems.*



**New environmental engineering bachelor’s degree**

CLEMSON WILL OFFER A NEW BACHELOR OF science degree in environmental engineering, the first of its kind in South Carolina, this fall.

“We are facing serious environmental issues in the future, such as contaminated water supplies, hazardous wastes, increasing populations and limited resources,” says Tanju Karanfil, environmental engineering professor and department chairman.

**“We need a highly trained work force ready to tackle environmental issues,”** says Karanfil. **“This technical and challenging program is led by world-class faculty dedicated to providing the best possible educational experience.”**

The University’s departments of environmental engineering and earth sciences and biosystems engineering will collaborate on the program. Students will choose from a base curriculum in environmental engineering or a concentration in natural systems. The program also will include an opportunity for a five-year BS/MS degree. For more information, go to [www.clemson.edu/ces/departments/eee](http://www.clemson.edu/ces/departments/eee) or contact Karanfil at [tkaranf@clemson.edu](mailto:tkaranf@clemson.edu).

**Gantt Center for Student Life**



**CLEMSON STUDENT AFFAIRS IS PROUD TO ANNOUNCE THE** former Gantt Intercultural Center and the former Center for Student Involvement have merged to create the Harvey and Lucinda Gantt Center for Student Life, streamlining student-focused services and aligning resources to create a leaner, stronger organization.

**Through this new center, located on the sixth and seventh floors of the University Union, students now have a unified one-stop shop for getting involved outside the classroom.** An expert staff is available to help students create their own unique Clemson experiences through student organizations, leadership and diversity education, civic engagement, cultural opportunities, support programs and more.

For more on the Gantt Center for Student Life, go to [www.clemson.edu/centers-institutes/gantt](http://www.clemson.edu/centers-institutes/gantt).

**Designing for S.C. communities**



**THE S.C. COMMISSION ON HIGHER EDUCATION** has awarded this year’s Service Learning Award to a.LINE.ments, a public service design studio in Clemson’s planning and landscape architecture department.

**a.LINE.ments is a multidisciplinary community design studio that allows both graduate and undergraduate students to gain hands-on experience in designing projects that solve a problem or a concern in local communities. Since the program’s inception in 2006, more than 270 Clemson students have helped create community master plans, parks, streetscapes, playgrounds and civic spaces.**

Under the guidance of director Mary Beth McCubbin, student designs often lead to city grants and plans to put the designs into practice. Past projects include plans for a park with activities for people with disabilities in Greenwood and Safe Routes to School, a project in which students evaluated the safety of every street in Fountain Inn and proposed recommendations to improve pedestrian walkways. Both projects are currently being implemented. For more information, contact McCubbin at [mccubbi@clemson.edu](mailto:mccubbi@clemson.edu) or 864-656-2471.



**Call Me MISTER® on Capitol Hill**

CLEMSON’S CALL ME MISTER PROGRAM WAS RECOGNIZED BEFORE national education leaders and lawmakers during a Capitol Hill briefing as a program that effectively addresses one of America’s daunting challenges. The College Board held the briefing earlier this year to release the new study “The Educational Crisis Facing Young Men of Color.”

The report calls on policymakers at the federal, state and local levels, as well as foundation and community leaders, to heighten public awareness and explore policy options to improve the plight of young minority men.

Call Me MISTER, an innovative program based in Clemson’s Eugene T. Moore School of Education, collaborates with other schools throughout the state to increase the number of African American male teachers in S.C. public elementary classrooms. For more information, go to [www.callmemister.clemson.edu](http://www.callmemister.clemson.edu) or e-mail [mister@clemson.edu](mailto:mister@clemson.edu).

**CW•DYK?**

**National Transportation Research’s best students**

*The National Transportation Research Center Inc. has recognized two Clemson students as top in the nation.*

*John Limroth, a recent graduate with a doctorate in automotive engineering, was named Student of the Year. Michael Arant, a master’s student in mechanical engineering, was named Outstanding Student Researcher.*

# Clemson at forefront of wind energy quest

By Peter Hull



In November 2009, the Clemson University Restoration Institute in North Charleston and its partners landed \$98 million in funding to develop next-generation wind turbines.

**In doing so, the Restoration Institute brought to South Carolina one of the most important wind energy research and development initiatives in the world and placed Clemson at the forefront of the nation's alternative energy quest.**

The move is expected to generate an economic boom for the region by creating new jobs and an industry cluster that will complement Clemson's other economic development successes: the Clemson University International Center for Automotive Research (CU-ICAR) in Greenville and the Clemson University Advanced Materials Center in Anderson County.

The Restoration Institute and the drive-train testing facility will include a graduate education component, the cornerstone of any Clemson public-private business model.

### **What it is and why it matters**

A drive train takes energy generated by a turbine's blades and increases the rotational speed to drive the electric generator, similar to the transmission in a car. Wind is an ideal source for that energy.

Increasing demand and environmental concerns are forcing the U.S. to diversify its energy sources. Wind energy — one of those alternative sources — has the potential to meet at least 20 percent of the growing demand.

**With this facility, the Restoration Institute will test the next-generation wind turbines and drive trains that will help shape the U.S. wind industry.**

Needless to say, such a project comes with a hefty price tag. The Restoration Institute and its partners received a \$45 million grant from the U.S. Department of Energy, which will be combined with \$53 million in matching funds from public and private partners.

The University's partners include the Charleston Naval Complex Redevelopment Authority, S.C. Department of Commerce, state of South Carolina, S.C. Public Railways, S.C. State Ports Authority, RENK Labeco, Tony Bakker and James Meadors. Additional partners that helped write the grant proposal are Savannah River National Laboratory, SCE&G and Fluor.

The testing facility will be housed in Building 69, a former Navy warehouse with adjacent rail and ship-handling infrastructure that will be capable of testing full-scale wind turbine drive trains in the 5-20 megawatt range.

Put simply, Clemson's testing facility will have no rival, having the greatest

**CLEMSON'S FACILITY WILL HAVE THE GREATEST CAPACITY OF ANY WIND TURBINE DRIVE-TRAIN TESTING SITE IN THE WORLD.**

capacity of any wind turbine drive-train testing site in the world. The facility has a target operational date in the third quarter of 2012.

"Selection of the Restoration Institute for the test site added an entirely new dimension to the University," says John Kelly, executive director of the Clemson University Restoration Institute and vice president of public service and agriculture.

Kelly says the award builds on Clemson's strength in research and education and will support establishment of a wind-energy manufacturing cluster in South Carolina.

**The U.S. Department of Energy estimated in its "20% Wind by 2030" report that South Carolina could gain 10,000 to 20,000 new jobs related to the wind power industry during the next 20 years.**

In the short term, the initiative should create at least 113 temporary jobs associated with construction of the facility and 21 full-time jobs. It's also projected to generate 568 indirect jobs.

"As the wind-energy market emerges along the East Coast and turbines

continue to grow in size and weight, South Carolina is strategically positioned to serve as an industrial hub for this evolving industry," says Kelly.

The state-of-the-art testing facility, South Carolina's outstanding port and large-scale shipbuilding facilities, local steel manufacturing and world-renowned research institutions mean the state — and Clemson — will play a central role in realizing the nation's energy goals.

"A research university like Clemson is well-positioned to drive economic development," says Kelly. "Clemson's track record of successful collaboration with partners in industry and the public sector will serve us well."

Imtiaz Haque, principal investigator on the grant and executive director of the Carroll A. Campbell Jr. Graduate Engineering Center at CU-ICAR, says CU-ICAR is a wonderful model for what Clemson can do in North Charleston.

CU-ICAR is an established 250-acre advanced-technology research campus that's home to academic, industrial and governmental collaboration. The center has generated more than \$215 million in public-private investment and created more than 500 jobs. The Campbell Graduate Engineering Center offers master's and doctoral automotive engineering programs led by four endowed chairs.

**economic development in the state for generations to come."**

During a visit to CU-ICAR in November shortly after the drive-train testing facility grant was announced, U.S. Secretary of Energy Steven Chu said Clemson had become an important part of his department's effort to keep the United States in the forefront of the evolving wind power industry.

Speaking during a renewable energy symposium in November hosted by the Restoration Institute, Chu said that the U.S. has an opportunity to move our "carbon-constrained world" into a new industrial revolution, one that must ensure the country's future prosperity.

To prepare for this shift, the U.S. is investing \$80 billion in the near term for research and development of alternative energy sources, such as the drive-train testing facility.

In January, Nick Rigas was named director and senior scientist of the testing facility. Rigas already serves as director of the institute's renewable energy focus area and now has overall responsibility for design, construction and operation of the testing facility.

"The green economy already is at work in South Carolina," says Rigas, "but there are thousands more jobs to be brought to the state. Clemson can play a pivotal role in that effort."

As wind and other alternative energy technology becomes larger and more complex, South Carolina is positioned to become a manufacturing hub that can serve the growing energy demands along the U.S. East Coast and beyond.

Clemson is ready to lead the way. 



### **An excellent Clemson model**

In part, the Restoration Institute's research campus will evolve along lines similar to Clemson's hugely successful CU-ICAR model. Clemson's experience in developing public-private partnerships at the Upstate automotive center proved a useful tool in landing the drive-train testing facility.

"It is precisely this [CU-ICAR] model — and especially the vital education component — that we plan to replicate at the Restoration Institute," says Haque. "There is tremendous synergy between these two projects. They will be drivers in developing a green economy work force in South Carolina that will fuel

Web extra: See U.S. Secretary of Energy Steven Chu address Clemson's energy summit at [yourday.clemson.edu/?q=node/575](http://yourday.clemson.edu/?q=node/575).



# More than *wind* energy

In addition to wind energy, the Clemson University Restoration Institute has other key research going on at its North Charleston research campus

It's home to the Clemson Conservation Center at the Warren Lasch Laboratory, where conservators are working on the 1864 submarine *H.L. Hunley*. As well as preserving the past, application of their work could increase the durability of offshore wind turbines and enable them to better withstand the corrosive effects of salt water. This research bolstered the institute's successful bid for the Department of Energy grant.



H.L. Hunley

A statewide team that includes the institute's community revitalization focus area received the 2009 Environmental Justice Achievement Award from the U.S. Environmental Protection Agency. The national award recognizes the success of partnerships in addressing environmental justice issues or adopting goals to improve a community. Contributing to the award, Clemson professor Victoria Chanse (planning and landscape architecture) led a service-learning team of students who produced a series



Professor Chanse

of designs to revitalize the Stromboli corridor in North Charleston, an area of underserved neighborhoods located barely a mile from the Restoration Institute.

And the Center for Watershed Excellence has teamed with the city of Aiken and engineering firm Woolpert Inc. to design and implement natural treatment systems that will greatly enhance stormwater infiltration in downtown watersheds. Gene Eidson, director of the Center for Watershed Excellence and of the institute's restoration ecology focus area, worked with community leaders to secure a \$3.3 million grant from the U.S. Environmental Protection Agency to implement key elements of the city's Green Infrastructure project.



Center for Watershed Excellence



For more information  
Go online to South Carolina Offshore Wind Collaborative [www.clemson.edu/scwind](http://www.clemson.edu/scwind) and to Clemson University Restoration Institute [www.clemson.edu/restoration](http://www.clemson.edu/restoration).

# Lifelong Tigers

Meet the Alumni Association's 2010 Distinguished Service Award recipients.



*These five alumni are prime examples of what makes Clemson special. They embody leadership, winning spirit, sense of service and those other Tiger attributes that set the Clemson Family apart.*



**Bartow S. "Bo" Shaw Jr. '63**

*National forestry leader and conservation expert*

**CLEMSON FLASHBACK:** "One of the most meaningful organizations that I was involved in was the Numeral Society, which started out as a service organization founded by the late Joe Young."

As a student, Bo Shaw majored in forestry and played on the Tiger tennis team. He was also a member of the cheerleading squad, Central Dance Association, Air Force ROTC, Blue Key, Tiger Brotherhood, Block C Club, the Forestry Club and the Numeral Society.

After graduation and serving in the Air Force, he began a one-person forestry-consulting firm that became American Forest Management Inc. His firm has grown into the largest private forest management organization in North America. He has served the forest industry and independent owners through a variety of professional organizations, helping to protect and provide sustainable management of the natural resources of the U.S. as well as consulting with forest enterprises around the world.

With a heart for others, Shaw believes in giving his all – whether he's coaching a basketball team; leading the Rotary Club; serving on local bank, education or conservation boards; pitching in with disaster relief for Katrina victims; or chairing a Clemson advisory board.



Shaw has served on the Clemson University Foundation Board, Board of Visitors, Parents' Council Advisory Board and Forest Resources Advisory Board (chair). Active in the Sumter County Clemson Club since his graduation, he's an IPTAY and Tiger Letterwinners Association member, Alumni Fellow and Presidents Club member. He established the Bartow S. Shaw Family Endowed Program to fund forestry initiatives.

**WORDS TO LIVE BY:** "When you decide that you're going to do something, give it your all."



THE 2010  
**CLEMSON**  
ALUMNI ASSOCIATION  
DISTINGUISHED  
SERVICE AWARD  
*DSA*



**Thomas F. "Tom" Chapman '65**

Renowned business consultant and leadership motivator

**CLEMSON FLASHBACK:** "When I was recruited [for Tiger baseball], everyone I

interacted with was just so kind and gracious, which by the way, hasn't changed in the least."

Tom Chapman was recruited by former Tiger baseball coach Bill Wilhelm and attended Clemson on an IPTAY scholarship. An economics major, he excelled in academics and athletics, earning recognition as a two-time All-Atlantic Coast Conference pitcher. He also found time for Tiger Brotherhood, Block C Club and much more.

When he graduated, he was drafted by the Philadelphia Phillies and played professional baseball. In 1968, he was deployed to Vietnam with his Army unit and served with distinction. He then began his outstanding career in finance, information technology and marketing, which spanned more than 40 years, with First Atlanta, his own consulting firm and Equifax. He retired from Equifax in 2005 as chairman and chief executive officer.

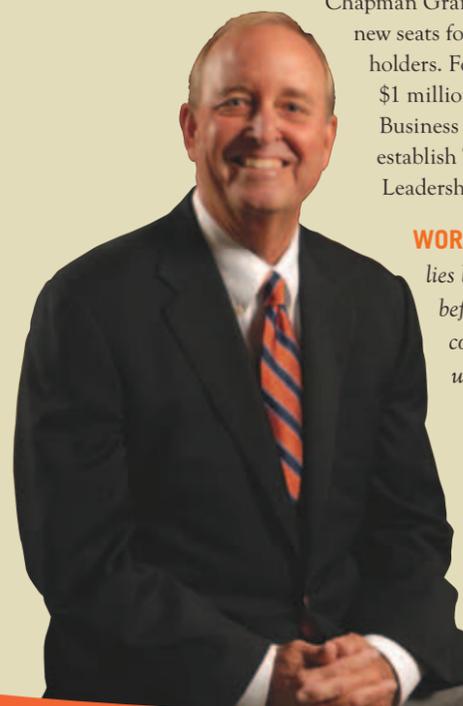
Chapman served on corporate and community boards and initiatives throughout his career, as well as supporting Atlanta's Piedmont Hospital and other organizations seeking to prevent, detect and cure cancer.

For the University, he serves on the Clemson University Foundation Board and in other leadership and advisory roles.

He believes in "One Clemson." For Clemson athletics, he made a \$1 million gift for Tiger baseball resulting in The Thomas F.

Chapman Grandstands, adding 1,000 new seats for students and season ticket holders. For academics, he made a \$1 million gift to the College of Business and Behavioral Science to establish The Thomas F. Chapman Leadership Scholars Program.

**WORDS TO LIVE BY:** "What lies behind us and what lies before us are tiny matters compared to what lies with in us." Ralph Waldo Emerson



**Jerry D. Handegan '65**

World traveler and volunteer extraordinaire

**CLEMSON FLASHBACK:** "In the summer of 1963, I worked for the Registrar's office ... where I saw this girl [Paulette]. I knew her cousin and

got her to introduce me. I asked Paulette for a date, she was busy, but we had a date the next week. In November 1964, we were married."

As a student, Jerry Handegan majored in engineering. He was also an Army ROTC company commander, a member of Kappa Delta Chi fraternity, a junior staffer for the Central Dance Association and an officer in the Industrial Engineering Society.

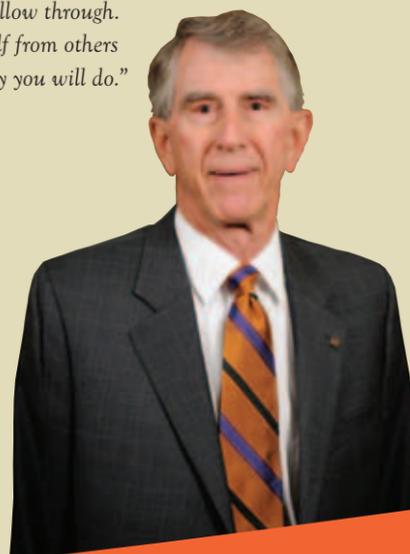
After graduation, Handegan entered the Army and served most of his three years as aide-de-camp to the commanding general of White Sands Missile Range in New Mexico. He spent the next 20 years of his professional life in managerial positions with Celanese Corp. He later joined a firm known today as the Henry Co., where he's now senior vice president in charge of specialty and international business.

Handegan has spent a lifetime volunteering – from Cub Scouts to his children's schools to Junior Achievement to church league basketball coach.

For Clemson, he serves on the Clemson University Foundation Board. He's an IPTAY representative, longtime Clemson Fund donor, president of the Fort Hill Clemson Club, former Alumni Association Volunteer of the Year and former president of the Alumni Association.

Handegan was instrumental in organizing and continues to lead his fraternity brothers in supporting the Kappa Delta Chi Unrestricted Scholarship Endowment.

**WORDS TO LIVE BY:** "If you make a commitment to do something, you should follow through. You can really separate yourself from others if you will just do what you say you will do."



**Thomas L. "Larry" Sloan '74**

Engineer entrepreneur and Tiger Band champion

**CLEMSON FLASHBACK:** "Our family [peach growers] would always come to Farm and Home Week in Clemson. We stayed

in the dorms for a week, and my parents basically turned me loose. That's how I got to know the school and how I got to love Clemson."

Larry Sloan came to Clemson to study engineering and play in Tiger Band. His talents and skills earned him leadership positions, including band commander and national president of Mu Beta Psi honorary music fraternity.

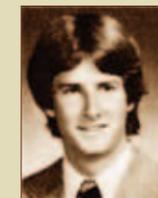
In 1974, Sloan left Clemson with a mechanical engineering degree. He spent the next 17 years in managerial positions in the electrical products industry before starting his own company, Electrical Power Products, in 1991. Several years ago, he sold his award-winning company and retired.

Sloan has served in many leadership roles including his church and Thornblade Club. But his greatest passion for service has been Clemson and Tiger Band. He and his wife, Cindy, have chaperoned for 35 years, and have helped provide for beautification of Tiger Band's practice field. And he's been band videographer for 25 years.

Sloan is a key founding member of the Clemson University Tiger Band Association – CUTBA – which has nearly 400 members and an endowment of more than \$300,000. CUTBA's Tiger Band Commitment, a program to raise scholarship money for Tiger Band students, has raised more than \$2.3 million.

Sloan is also past president of the Greenville Clemson Club, life IPTAY scholarship donor and member of the Clemson Legacy Society.

**WORDS TO LIVE BY:** "In Tiger Band you learn organization ... being on time, staying until the job gets done ... so many things that will stay with you the rest of your life."



**Joseph M. Todd '79, M '83**

IT sales executive and tireless Clemson ambassador

**CLEMSON FLASHBACK:** "When I was in kindergarten, my teacher took us on a tour of the President's Home. I somehow became

detached from the rest of the group, and they found me jumping on Dr. Edwards' bed."

Joe Todd, the son of faculty member B.J. Todd, was already part of the Clemson Family when he enrolled. In addition to majoring in industrial management and being a member of Alpha Tau Omega fraternity, he "caught the bug" for being involved and volunteering.

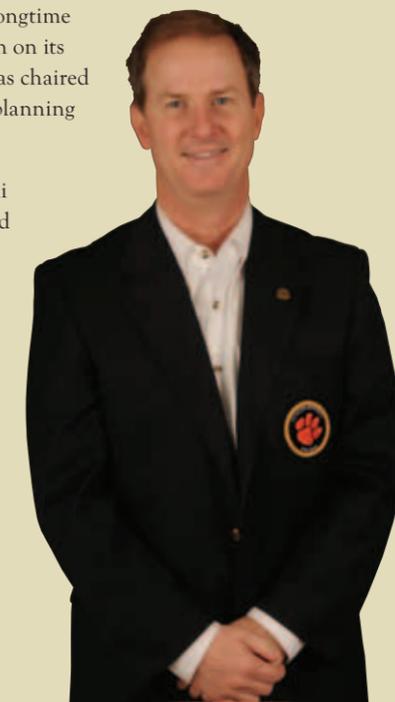
Todd graduated in 1979 and returned two years later to complete his master's. He spent the next 17 years building his career in sales and marketing with IBM. He then joined Consonus Technologies, a national provider of information technology, where he continues today.

His volunteer spirit extends to his community and his church, Advent United Methodist, where he's served on church council and multiple committees.

For Clemson, he has been a tireless worker in the Greenville Clemson Club for more than 25 years, helping host a variety of fundraising events that have provided thousands of dollars to academics and athletics. A longtime IPTAY representative, he's been on its board for five years where he has chaired representative and long-range planning committees.

Todd has served on the Alumni National Council board and led the association as its president. He and his wife, Kim, are members of the Presidents Club and the Clemson Legacy Society.

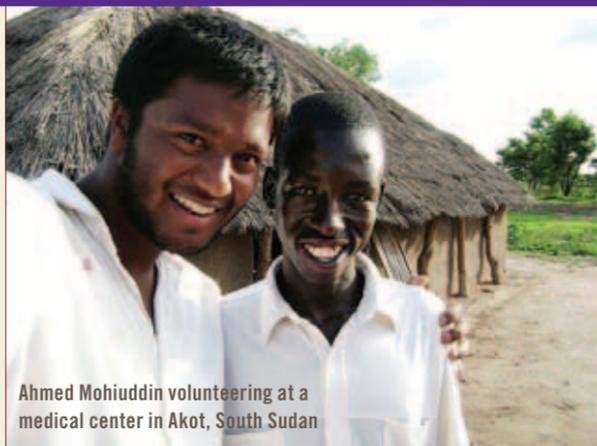
**WORDS TO LIVE BY:** "Try to live a balanced life. People who are the happiest are successful in their career, community, family and faith. And they have a good time along the way."



# Clemson Scholars show *world smarts*

CLEMSON NATIONAL SCHOLARS LIVE UP TO THEIR NAME.

by Teresa Hopkins



Ahmed Mohiuddin volunteering at a medical center in Akot, South Sudan



Christen Smith serving as a community health promoter in Oaxaca, Mexico

As Clemson set out to become one of the top public universities in the nation a decade ago, it began attracting not only the best students in the state, but some of the best in the nation. For example:

Christen Smith '07, who majored in economics and health science, just wrapped up two years in Ethiopia with the Peace Corps where she worked to stem the spread of HIV and AIDS. Now she's headed to graduate school with a focus on global health policy, which she plans to make her life's work.

After earning degrees in political science and computer science, Joseph Godsey '04 joined General Electric through its management program, which took him to Europe. He's now in Germany working for Adidas Group as a program manager for global retail.

As a student, Ahmed Mohiuddin '06 founded Clemson's chapter of Amnesty International. After he earned a degree in biochemistry, he volunteered at a medical center in war-torn Akot, South Sudan. Now he's at the Medical University of South Carolina and planning to complete residencies in internal medicine and psychiatry.

These students and many others are our future leaders in global health care, business, law, medicine, economics and much more. And they all started out as Clemson National Scholars.

The National Scholars program, begun 10 years ago, offers a four-year, merit-based scholarship that includes tuition and fees; an allowance each semester for room, board and supplies; and a summer European study experience. The highly competitive program requires that students show outstanding leadership and service as well as excellent scholarship.



Joseph Godsey during a bike race across the Dolomite Alps in Northern Italy



Christopher Welch working in a cell-signaling dynamics lab at UNC-Chapel Hill

## *AS students*

The National Scholars Program has garnered impressive statistics over the last 10 years.

- 1488 – average SAT of the first 10 cohorts
- 1,478,794 – the approximate number of miles traveled by National Scholars on foreign and domestic education enrichment trips
- 17 captains of intramural teams
- 13 members of Phi Beta Kappa, the most prestigious college honor society for students in liberal arts and sciences
- 3 recipients of the National Science Foundation's Graduate Research Award
- 8 Goldwater Scholars, the top award for students in engineering and science

But it's the people – the hearts and minds and energy behind those numbers – who are the real measures of success.

Nine students representing six states entered the Clemson National Scholars Program in 2000 – among them, Joseph Godsey from Kingsport, Tenn.

"After learning about the program, visiting the campus, and talking to faculty, staff and alumni, I knew Clemson was the place for me," says Godsey. "The National Scholars Program was pivotal in opening doors for my future. Clemson gave me a base – a foundational core – that defined and shaped my life. Everything now builds off that base. For that, I will be eternally grateful."

Clemson political scientist William Lasser, director of the National Scholars Program, says experiences like these helped raise the level of competitiveness each year. "We

knew early on we had created a competitive program," says Lasser. "Within the first few years, students were choosing Clemson over a number of other scholar programs at elite institutions."

Clemson's scholarship program enhances each scholar's experience on many levels, including challenging course work and research opportunities. In their first semester, the National Scholars participate in a special section of the Calhoun College Freshman Colloquium. They also take part in a fully funded study-abroad program in Europe and benefit from mentoring relationships with Clemson faculty, staff and alumni.

Christopher Welch's first trip abroad was to Italy in 2001 with the National Scholars to study art history and architecture.

"The whole trip was a great experience," says Welch, a 2004 graduate in biological sciences and chemistry. "We studied much of the art and architecture throughout Italy, and we were able to take side trips where we hiked the Alps, visited the beaches at Normandy and toured Paris. It was a great learning experience shared with great friends and scholars."

Welch, who's from Campobello, is an M.D./Ph.D. student at the University of North Carolina-Chapel Hill. His focus is on the field of medical oncology.

*"Being around so many extremely intelligent people who are incredibly engaged in both their studies and their communities reinforced how important it is to be an active participant in the world around us."*

– Brian Eyink '06, Clemson National Scholar

## *AS alumni*

So far, the National Scholars Program has produced 107 scholars and 57 graduates. "When our fifth cohort graduated in 2008, we began having more alumni than current scholars," says Jamie Williams, associate director of the program. "This important threshold we crossed gave a strong sense of vibrancy and legitimacy to the program."

Among the alumni are

- three doctors and another eight in medical school,
- two lawyers and another two in law school,
- three middle and high school teachers, including one in the Teach for America program,
- a public health specialist with the Centers for Disease Control, investigating emerging infections throughout the Mediterranean and Middle East,

- several emerging leaders in the business world,
- others who are increasing the knowledge base of their fields through advanced study and research in biology, biomedicine, business, economics, education, engineering, history, journalism, literature, mathematics, natural resource management, physics, robotics, urban planning and veterinary medicine.

And many of these alumni are finding time in their busy lives to give back to Clemson.

“National Scholars alumni are still very young, but they’re already providing a strong network for internships, graduate school and life planning for current scholars,” says Williams.

Brian Eyink, from St. Louis, Mo., is part of the network to which Williams refers. He graduated in 2006 with a degree in economics and a minor in mathematical science. Eyink earned his law degree from Duke University in 2009 and is now clerking for Judge Gerald Bard Tjoflat, U.S. Court of Appeals, 11<sup>th</sup> Circuit. He plans to practice law in Washington, D.C., following his clerkship.

“Being around so many extremely intelligent people who are incredibly engaged in both their studies and their communities reinforced how important it is to be an active participant in the world around us,” says Eyink. “That drive to be an active participant led me to join a group of fellow scholars in creating a student-led retreat to share these values with each incoming class of National Scholars.”

Eyink – along with alumni Christen Smith '07, who's between Peace Corps service and graduate school, and Mike Stadnisky '05, a biochemistry graduate working on a Ph.D. at the University of Virginia – returned to Clemson earlier this year to help interview potential new scholars.

In addition to creating retreats and helping with the interview process, National Scholars alumni serve as mentors to new scholars. And although many are in graduate or postgraduate school, more than a third have already started giving back to the program financially.

Just like the University's strong base of alumni, National Scholars alumni are personally invested in current students, in the University and in the world around them – exactly what the Clemson Family is all about. 🌐

To learn more about the National Scholar Program and to see the success stories of its graduates and current students, go to [www.clemson.edu/national\\_scholars](http://www.clemson.edu/national_scholars).



Brian Eyink clerking at the U.S. Court of Appeals in Jacksonville, Fla.



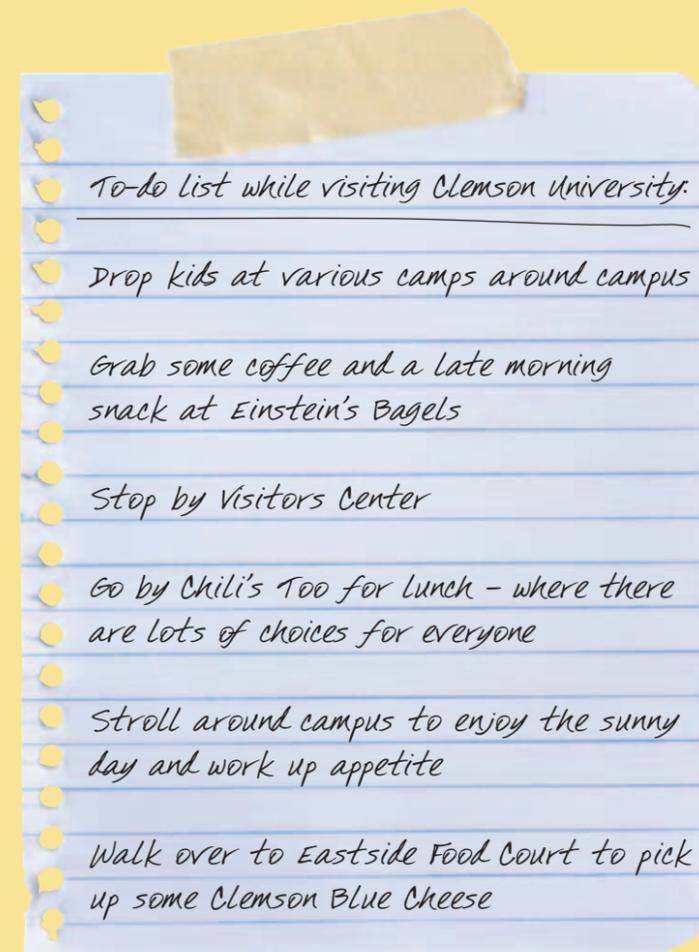
2004 and 2005 National Scholars alumni during an educational enrichment expedition to Iceland

## Making *it* possible

In addition to University support, several generous donors helped create the Clemson National Scholars Program including the estate of Mr. and Mrs. William M. Ballenger (Class of 1923), Mr. and Mrs. Frank M. Bishop Jr. (Class of 1965), Dr. and Mrs. Richard A. McMahan (Class of 1954) and Dr. and Mrs. R. Roy Pearce (Class of 1941).

Gifts from other donors have been invaluable including Dr. and Mrs. Paul W. McAlister (Class of 1941), J. Anderson Berly III (Class of 1978) and the E. Smyth McKissick III '79 Clemson National Scholars Endowment.

Donor support of any amount for the continued intellectual, professional and personal growth of the National Scholars is appreciated. Gifts can be made payable to the Clemson University Foundation (designate “National Scholars Program”), PO Box 1889, Clemson SC 29633.



# Planning your next trip to campus? Don't forget to eat!

It would be a shame to not take advantage of all the wonderful places to eat on campus the next time you make a visit. With great restaurants like Chili's Too, Einstein Bros. Bagels, Pizza Hut, Burger King, JUMP Asian, Seasons by the Lake and more – each a short walk or bus ride away – a satisfying meal is always within reach!

So before you make your next trip to Clemson, visit [www.clemson.edu/dining](http://www.clemson.edu/dining) and check out all the options available for the best in campus dining.



# Deep ORANGE GETS THE green light

**D**eep Orange — a new long-term initiative at Clemson University International Center for Automotive Research (CU-ICAR) — offers a radical jumpstart for the ailing auto industry.

Named Deep Orange for its Clemson-style competitiveness, it's taking vehicles from concept to completion — via savvy systems integration — in a matter of semesters.

As it advances the University's automotive engineering graduate research and education program, it positions our graduates ahead of the competition and prepares them to create a future sustainable automotive industry.

## CONCEPT 'SETS US APART'

The Deep Orange framework is transforming the Carroll A. Campbell Jr. Graduate Engineering Center at CU-ICAR into an overall systems engineering and integration model, exploring new technical innovations and novel design and manufacturing approaches with OEMs (original equipment manufacturer), suppliers and entrepreneurs participating and collaborating. As a result, the program will release a new vehicle prototype annually showcasing the outcome of the partnership.

Students, faculty and participating industry partners will engineer

and manufacture a new vehicle prototype each year, giving students excellent hands-on experience with vehicle design, development, prototyping and production planning. The first Deep Orange vehicle is scheduled to be unveiled later this year.

Each project focuses on leapfrogging the latest vehicle technologies by eliminating the constraints and the "we've always done it that way" legacies that pervade the automotive industry. Without these constraints and by applying a systems engineering approach, researchers, students and industry partners can freely and quickly explore the optimal integration of new technologies.

"This concept sets us apart," says Imtiaz Haque, executive director of the Campbell Graduate Engineering Center. "Deep Orange embodies the term of systems integration. It provides entrepreneurs and industry partners with an open-innovation platform to showcase future technologies through intensive proof-of-concept collaboration involving our graduate students. The resulting experience will prepare

## THE CAR OF THE NOT-TOO-DISTANT FUTURE JUST MIGHT BE DEEP ORANGE.

By Sandy Woodward

them to lead the future of the industry.

"Deep Orange will deepen our understanding of the challenges we face and the solutions we need to seek as we bring disparate technologies together," says Haque. "This is the very essence of what this program has committed to provide for the automotive and motorsports industries — based on what industry leaders told us they needed."

## MULTIPLE SYSTEMS IN SYNC

Systems integration involves making sure that the multiple systems that make up the automobile work together — that modifications or improvements in one aspect of the design do not negatively affect the others.

Clemson's automotive engineering graduate program has four major research areas including manufacturing, design and development, vehicle electronic systems and systems integration. Each research area is led by an endowed chair who was recruited in highly publicized, internationally competitive searches.

"We took our time pulling together this outstanding faculty leadership

team," Haque says. "In addition to the chairs, we've recruited top-quality faculty with expertise in all aspects of automotive engineering. This is the payoff — a unique approach to fulfilling the CU-ICAR vision of being the premier automotive and motorsports research and education facility in the world."

Paul Venhovens, the BMW Endowed Chair in Automotive Systems Integration, is leading the Deep Orange initiative. He came to Clemson from BMW's research and development headquarters in Munich, Germany, where he led functional concept design initiatives.

"We're very excited for our students and for the companies that will ultimately hire them," Venhovens says. "When our students graduate, they will have been directly and intimately involved in the development of various aspects of a vehicle in a research and education environment that encourages creativity and entrepreneurship, responsiveness to market demands, consumer preferences and issues of sustainability."

"It will also expose students to the capabilities and limitations

of certain technologies, including functional interdependencies and conflicts," he says. "These aspects are often ignored in single-focus, traditional engineering programs."

Venhovens adds that the beauty of the Deep Orange project is its flexibility. The fluid curriculum allows faculty and students to think outside of conventional course work and focus on the product and the consumer's needs. Each year's project will be unique, with different challenges and parameters for success. The scope of the students' experience will be valued by the industry.

## COLLABORATION WITH A BIG 'C'

Collaboration with private-sector and industry organizations is a cornerstone of the CU-ICAR program, and Deep Orange leaders plan to collaborate with a wide array of automotive industry colleagues.

For example, the 7,500-member Specialty Equipment Market Association (SEMA) formed a partnership with the University in August, focusing on the Deep

Orange initiative as the centerpiece of the overall relationship.

The Deep Orange vision was formally presented to an international industry and media audience during a high-profile technology briefing session at the 2009 SEMA Show in Las Vegas in November.

And FEV — an independent engine and powertrain systems research, design and development company, headquartered in Aachen, Germany — was one of the first companies to sign on. CU-ICAR has also partnered with the Art Center College of Design in Pasadena, Calif., on vehicle design/styling. Other collaborations are in the works.

Deep Orange is another example of the University's ongoing drive — to increase the value of a Clemson degree, to expand and strengthen the state's economy, to improve the quality of life for all of us. And, the fact that it reflects Clemson's competitive spirit along the way makes it even better. 🌐

For more information on CU-ICAR, the Campbell Graduate Engineering Center and Deep Orange, go to [www.cuicar.com](http://www.cuicar.com).



# The Clemson Advantage

A bond that strengthens with time.

CLEMSON  
UNIVERSITY

Keeping students first — and preparing them for careers that make a difference in the world — can produce incredible results. Just look at how the value of a Clemson degree keeps rising in the job market.

- No. 22 best national public university by *U.S. News & World Report*
- No. 33 best value in public education by *Kiplinger's*
- No. 8 in return on investment (ratio of income to tuition paid) by *SmartMoney*
- No. 3 career services among public universities by *Princeton Review*

No matter where you are in your life or career, **you can help increase the value of a Clemson degree and the Clemson experience for each student.**

## Tap Into your Tiger connections

Want to tap into the Clemson network — 116,000 alumni from all walks of life — and leverage your Clemson advantage? This handsome Clemson portfolio, offered exclusively to Clemson Fund donors, shows you're connected for life. Featuring a debossed Clemson logo, these full-size zippered portfolios are a great way to keep organized and look professional as well. See the enclosed gift envelope for a product description.



Make a gift to the Clemson Fund by June 30, and you can purchase this portfolio for \$22 (includes shipping and handling). There are many ways to make a gift. Just complete and return the enclosed envelope, call 864-656-5896 or go online. [www.clemson.edu/isupportcu](http://www.clemson.edu/isupportcu)

**CLEMSON FUND**

Your annual gift makes a difference.

## What is Clemson?

*Discovering yourself and a way to give back.*

From the moment Shavonne Brown '05 stepped onto the campus, Clemson was in her blood. She threw herself into every activity from Tiger Band to student government to social sororities. But most important, it was at Clemson that she found her passion for what she calls “learning what makes people tick” — a passion that led to her career with a nonprofit psychosocial rehabilitation program in Baltimore.

Brown knows the difference one individual can make. And she chose to make that difference by ensuring that the advantages she enjoyed, the programs that affected her most deeply, would always be available at Clemson.



Increasingly, young alumni are finding that along with their annual donations, gift planning is the ideal way to **ensure Clemson's future** and continually increase the value of their

degrees. This support of students, faculty and programs at the University is, as Brown says, a reflection of the generous spirit of founder Thomas Green Clemson. “I want to honor the spirit of the man who gave me a great place to learn and grow. I want to help in any way possible.”

**You, too, can support Clemson through planned gifts such as bequests, annuities, charitable trusts or insurance. To find out more, please contact JoVanna King, senior director of gift and estate planning, at [jovanna@clemson.edu](mailto:jovanna@clemson.edu) or at 864-656-0663 or 800-699-9153. Find out more at [www.clemson.edu/giving/planned](http://www.clemson.edu/giving/planned).**



SUPPORT



we're behind you

2000%

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## What is Clemson?

*Turning aid into advantage.*

Eric Knapp had the passion and the academic prowess to be a physician. But it took a scholarship to fund his education at Clemson.

"It was my responsibility to pay for college," Knapp explains. "I would not have been able to attend Clemson or take part in some of my international experiences without the aid of **scholarships**."

Knapp made the most of the financial gift. While working diligently in order to achieve the kind of grades that would



get him into the Medical University of South Carolina this fall, Knapp did not wait for his life's work to begin. He made University-sponsored trips to intern in the Dominican Republic, administer vaccines in the Sudan and work on a housing project in India. Stateside, he spent hundreds of hours mentoring high school students

and working with Dr. Oscar Lovelace '82 in his rural family medicine practice. The combined result is a young man dedicated not only to Clemson, but also to a lifetime of serving others.

To support deserving students such as Eric Knapp, call 864-656-2121 or visit [www.clemson.edu/giving/now](http://www.clemson.edu/giving/now).



DEDICATION



**Just like in the '50s!**

Three of these alumni — **\*William Bellamy** (vocational agricultural education), **\*Carl Bishop** (chemistry), **Neal Moseley** (electrical engineering) and **Ralph Stone** (vocational agricultural education) — roomed together as

freshmen, marched in the Clemson Senior Platoon and graduated together in 1954. The fourth, **\*Thomas Mann** (premed), was their company commander when they were freshmen. He graduated in 1951.

Now, they're together again in the Clemson Alumni Senior Platoon. Pictured from left are Stone, Bellamy, Mann (kneeling), Moseley and Bishop.



director for the Farm Service Agency at the U.S. Department of Agriculture. He returns to this position having served under the Clinton administration. He's the manager of Lawson Farms, a family business since 1834.

**1959**

**\*James L. Cartee** (INDMGT) and his wife, Annie, of Easley celebrated their 60<sup>th</sup> wedding anniversary.

**1965**

**\*Harold B. Reiter** (M MATH, '69 PhD) of Charlotte, N.C., was awarded the 2009 W.W. Rankin Award for Excellence in Mathematics Education by the N.C. Council of Teachers of Mathematics. He's a professor of mathematics at the University of North Carolina-Charlotte.

**1968**

**Jonathan C. Glen** (PREMED) of Savannah, Ga., was honored for his years of service as a member and trustee of the St. Joseph/Candler Health Systems. He has served as trustee since 1993. He's a practicing gastroenterologist.

**\*M. Daniel Hancock** (ME) of Mooresville, N.C., retired after 35 years of service in technical management for research and development of air compressors for Ingersoll Rand Co.

**1970**

**\*S. Radley Edwards** (AGE) of Colbert, Ga., was recognized for his 40 years of service with the National Agricultural Statistics Service. He's deputy director with the U.S. Department of Agriculture Georgia Field Office.

**1932**

**Lucius Delk** (TC) of Greenville is held in high esteem among Clemson alumni, the residents of Rolling Green Village retirement center and the congregation of the First Presbyterian Church of Greenville. At 102 years of age, he says his secret to a long life is the right genes and staying active in body and mind. He enjoyed a long career in the textile industry and served in the U.S. Army during World War II.

Florence United Way, director of S.C. Easter Seal Society, chair of the Florence County Disabilities Foundation and director of the Francis Marion University Foundation.

for special Veterans Day celebrations. He's a U.S. Army veteran and former president of the Clemson Alumni Association.

**\*Laurie C. Lawson** (AGRON, HD '97) of Darlington was appointed by the Obama administration as S.C. state executive

**1947**

**\*Wallace A. Storey Sr.** (M&EE) of Spartanburg was named "Warbird of the Year" by the Warbirds of South Carolina Inc., a group of veteran pilots and navigators. He's a retired lieutenant colonel in the U.S. Air Force who flew 35 combat missions over Nazi Germany in World War II and was awarded 15 medals and ribbons.

**1945**

**Robert W. Patterson** (CE) of Florence received an honorary doctorate from Francis Marion University in December. He founded the Florence Speech and Hearing Clinic and served as founding director of

**1953**

**\*Leonard C. Butler Sr.** (TM) of Burlington, N.C., was featured speaker at two United Methodist churches

**National pediatrics leader**  
**O. Marion Burton '67**

Clemson premed graduate and physician Marion Burton of Columbia is president-elect of the American Academy of Pediatrics. He'll assume his role as president of the 60,000-member society in late 2010.

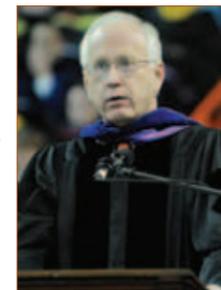
Burton practiced pediatrics in Anderson for 20 years before joining the University of South Carolina School of Medicine faculty where he established a Division of Community Pediatrics. He's currently director of community pediatrics and associate dean for clinical affairs.

A Fellow of the American Academy of Pediatrics, Burton helped establish 75 partnerships placing public-health professionals with practicing physicians to create medical homes for children.



**Acclaimed federal judge**

Political science graduate U.S. Judge **Joseph F. Anderson Jr. '72**, received an honorary Doctorate of Laws degree at Clemson's December 2009 graduation. The youngest federal judge in South Carolina history, Anderson's proposals have drawn national attention, prompting his description as "one of the country's most influential and respected judges."



**Sidney I. Hankins III** (ARCH) of Knoxville, Tenn., was elected to the international board of directors of RCI Inc., an association of professional consultants, architects and engineers who specialize in roofing. He's earned certification as a registered roof consultant.

Carolina School of Law (where she earned her law degree) and currently works with many Clemson alumni pursuing law degrees. She's also a member of the Humanities Advancement Board at Clemson and assists with the William Howell Prelaw Society.

**1973**

**\*Pamela DeFanti Robinson** (ELED) of Columbia is director of the Pro Bono Program at the University of South

**1974**

**\*James N. "Chuck" Epps Jr.** (ADMMGT) of Fort Mill is superintendent of Fort Mill School District.

**AIA supports Clemson**

The American Institute of Architects (AIA), through local, state and matching national funds, donated more than \$20,000 to Clemson's School of Architecture for the 2009-2010 school year. At the last South Atlantic Regional conference, S.C. Chapter President **Steve Coe '91, M '93** and national AIA board member **\*Ed Zeigler '77, M '79** presented University President **\*Jim Barker '70** with a check to fund fellowships for students pursuing a master's degree in architecture.



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**1975**

**Charles K. "Chuck" Mann** (M PERS) of Jacksonville, Fla., was honored by the Jacksonville City Council for his contributions as an exemplary public servant. Over the years he has worked on numerous community improvement projects and served on many councils and committees for all areas of community life. He's retired after working as a corporate manager for Parke Davis, Warner Lambert and Pfizer pharmaceutical companies, as a hardware store owner and as a middle-school science teacher.

**1977**

**\*Alan M. Wind** (SED) of Alpharetta, Ga., presented "Oh the Drama! Bringing History Through Theatre in the Classroom" at the National Council for the Social Studies Conference in Atlanta. He's a U.S. history teacher at Chattahoochee High School in Marietta.

**1978**

**Fred G. Stone** (PSYCH) of Easley is the 2010 president of the S.C. Baptist Convention. He's the pastor of Pickens First Baptist Church.

**Clemson Family tradition**  
**\*Earl H. Wagener '62, PhD '67**

Chemistry graduate Earl Wagener had Clemson credentials before he even started school. His grandfather B.F. Robertson was among Clemson's first graduates, and he started the lab that became

Clemson's chemistry department. His uncle Ben Robertson, also a former TAPS editor, wrote the famous memoir *Red Hills and Cotton*.



And his mom, Hattie Wagener, spent 25 years as an administrator in the engineering and architecture departments.

But Wagener himself is having his own impact on the University. After 35 years in industry, a career that earned him election into the Thomas Green Clemson Academy of Engineers and Scientists, he's helping others have successful careers in engineering and science.

Wagener is CEO of the startup company Tetramer Technologies LLC. Several Clemson engineers and scientists founded Tetramer in 2001 to commercialize high value research activities pursued at the University. The company has already created 27 knowledge-based jobs right here in the Clemson/Pendleton area with plans to increase in the next few years. And the University has received nearly \$1.1 million in funds through the company.

Through Tetramer programs, Wagener also helps high school and undergraduate students. And he teaches an ongoing class for Clemson seniors and graduate students in transitioning from academics to industry.

In addition, he and his brothers — Kenneth and Ben — set up the annual Hattie B. Wagener Memorial Award, in honor of their mom, for the best administrator in the College of Engineering and Science.

**Running again**  
Paul Kozma '68

Textile chemistry graduate Paul Kozma, of Auburn, Wash., ran cross country and track during his time at Clemson. Now, more than 40 years later, he's won two silver medals in the Hawaii Senior Olympics. But what he had to overcome to run again was much more than four decades.

Kozma was diagnosed with epilepsy in 2002, a condition that had actually begun during his service in Vietnam in 1971. Several years ago, he underwent brain surgery, which was impossible to perform without additional damage to otherwise healthy cells. His surgery resulted in some cognitive deficits, memory loss, visual impairments and motor function irregularities.

His disabilities, however, weren't severe enough to hamper his competitive personality. Kozma was under the care of VA physical therapy and vision clinics. His doctors there encouraged him to consider racing again and put him in contact with the Challenged Athletes Foundation, which supports veterans, firefighters and policemen who have suffered disabilities during their service.

With the help of his wife, Trisha, whom he met at Clemson, he's overcome tremendous physical and emotional hurdles to get back in the race. For more on his story, go to [www.pnwlocalnews.com/south\\_king/aub/news/78372812.html](http://www.pnwlocalnews.com/south_king/aub/news/78372812.html).



**David M. Price (BOT)** of Lake Wales, Fla., is president of Historic Bok Sanctuary, a Florida icon and National Historic Landmark.

a Fellow in the Institute of Transportation Engineers. He's a consultant for several communities.

**1983**

**Joeb W. Moore** (DESIGN, M '85 ARCH) of Stamford, Conn., is the principal of Joeb + Partners Architects LLC in Greenwich. His firm received the 2009 Honor Award from the New England Region of the American Institute of Architects for excellence in architectural design.

**1986**

**\*J. Barry Tomlinson** (POSC, M '96 PUBADM) of Charlottesville, Va., is a major gift officer for the U.S. Naval Academy Foundation in Annapolis, Md.

**1987**

**E. Davy McDowell Jr.** (AGE, M '90) of Clemson is associate executive director for the National Council of Examiners for Engineering and Surveying.

**1984**

**Mohsen Salehi** (M CRP) of Fort Myers, Fla., was recognized as



**Leader in energy efficiency**  
Philip W. Fairey '69, M '75

Architecture and city and regional planning graduate Philip Fairey has earned a lifetime leadership award for his dedication to energy efficiency. Last fall, Johnson Controls, a global leader in energy efficiency and sustainability, named Fairey the recipient of the Building Efficiency Lifetime Leadership award.

Fairey is deputy director of the Florida Solar Energy Center. His contributions to the energy sector include securing, completing and publishing results of more than 30 research projects; developing moisture transport control and radiant barrier technology; advanced cooling and dehumidification systems; and developing energy analysis software tools.

At the Florida Solar Energy Center, Fairey develops and leads research and technology initiatives. He holds several U.S. patents; is a member of two standards committees of the American Society of Heating, Refrigerating and Air-Conditioning Engineers; and is president of the Residential Energy Services Network.

subsidiary of CSUSA. Acorn has been and will remain a corporate partner with Clemson's construction science and management department. He's also one of the first to donate to Lee Hall's expansion, renovation and restoration.

**1981**

**\*Joyce A. Baugh** (POSC) of Mount Pleasant, Mich., received the 2009 Excellence in Teaching Award presented by the College of Humanities and Social Behavior Sciences at Central Michigan University. She's a professor of political science.

**1980**

**\*Donald R.** (ADMMGT) and **\*Laura Crawford** ('82 FINMGT) Berlin are living in Anderson. He's executive vice president of Elastic Fabrics of America and was awarded a U.S. patent for an innovative fabric design for post-surgical garments. She's owner of Real Deals on Home Décor.

**\*Wesley D. Carter** (DESIGN) of Raleigh, N.C., has sold the company he founded in 1997, Acorn Industrial Inc., to Comfort Systems USA, a publicly traded contractor based in Houston, Texas. He'll remain president at Acorn, which will now be a



**Clemson spirit in Haiti**

Pediatrician **Mandy Guyton Drasieko '82** of Inlet Pediatrics in Murrells Inlet travels to Haiti twice a year on medical missions. Her group, which includes other Clemson alumni and supporters, provides medical care, including optometric and dental, and veterinary medicine to residents of a village on the Haitian Island of La Gonave.

**1988**

**Anthony J. Meyer Jr.** (ADMMGT) of Simpsonville is executive director for the Hannon Foundation.

**\*William E. Tumblin** (CPENGR, M '89 INDMGT) of Laurens was promoted to executive director of environment, sustainability, safety and health with Concurrent Technologies Corp.

**Andrew M. Hayes** (ME) of Silver Springs, Md., is a founding member of Ice Dragon Cooling. The company has developed a product that combines water, various surfactants and antimicrobial metallic nanoparticles into a solution that improves water cooling. The fluid is a product of joint research by the U.S. Air Force and the University of South Carolina.

**1991**

**Mickey Alan Fortner** (INDE) is married and living in Clinton, N.C. He's a Hispanic outreach consultant with the N.C. Department of Labor, Education Training and Technical Assistance Bureau.

**1992**

**Patrick L. Burns** (HIST, POSC) of Marietta, Ga., is chairman of the 2010 U.S. Chamber of Commerce Southeast Public Affairs Working Group. He's vice president of public affairs at Duffey Communications in Atlanta.

**1993**

**\*A. Henry Reed** (CE) of Denver, Colo., completed his third Ironman Triathlon in Nice, France, and finished as the top American in his age class. His triathlon endeavors have enabled him to raise funds for cancer research. He's director for JCR Capital, a private equity firm.

**Global health leaders**

**\*Wilbur K. Milhous '70, M '72, Dennis Kyle PhD '84**

Professors Wilbur Milhous and Dennis Kyle, zoology graduates, are improving the ways doctors treat malaria. The global health infectious disease researchers are with the University of South Florida.

Last fall, Milhous was awarded the prestigious Joseph Augustin LePrince Medal for outstanding contributions to the study of malaria. Milhous is a member of a USF global health team gaining international prominence for understanding, tracking and controlling insect-borne infectious diseases, including malaria.



The malaria research group includes Dennis Kyle, whose laboratory has taken a lead role in detecting emerging resistance to the major anti-malarial drug artemisinin.



Under Kyle's direction, the USF Global Health Infectious Disease Program has become the global epicenter for surveillance and detection of drug-resistant strains. Both men have been called on by the Bill & Melinda Gates Foundation for their expertise.

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**Blood, sweat and leadership**

\*Jack A. McKenzie '76

Political science graduate Jack McKenzie has donated more than 20 pints of blood over the years in the annual Clemson vs. Carolina Blood Challenge, sponsored at Clemson by Alpha Phi Omega (APO). That's just an example of how much of himself he has dedicated to the national service collegiate fraternity known for leadership, friendship and service.

Last year the entire APO National Fall Pledge Class — including 6,000-plus pledges at more than 350 chapters on campuses across the country — was named the Jack A. McKenzie Pledge Class in recognition of his role-model status and achievements.

McKenzie pledged Clemson's APO chapter in 1973 and has been a chapter adviser since 1980. He's a member of APO's national board of directors and was national president from 1998 to 2002. In his other life at Clemson, McKenzie has worked in the University's advancement division for more than 30 years, first in public affairs and now as donor services director in the development and alumni affairs area.



Jack McKenzie with APO students Rebecca Covington (blood drive chair), Stephen Fessler (fall 2009 "McKenzie pledge") and Jonathan Spear (president)

**1994**

**Graham A. Kimak** (LSAH) of Greenville is the owner of Graham Kimak Landscape Designs LLC, a landscape design firm

specializing in residential and commercial projects.

\***Christopher C. Miller** (AGE) of Covington, Ga., had an article

published in *Quality Progress* — "Quality Isn't a 9-to-5 Job." He's quality supervisor for the House of Cheatham in Stone Mountain.

**1996**

**Steven G. Platt** (PhD ZOO) of Baton Rouge, La., is an assistant professor of biology at Sul Ross University in Alpine, Texas. He has conducted worldwide research on turtles, including the rare Arakan forest turtle in Myanmar.

('00 CE) **Overy** are living at Eglin Air Force Base, Fla. He graduated from the University of Tennessee Health Science Center with a doctor of medicine degree and is a captain in the U.S. Air Force, conducting a residency in family medicine.

**1999**

\***Austin E. Bond** (MICRO) of Rock Hill is director of youth ministries at St. John's United Methodist Church. His youth praise band, BASIC, has released a new CD, *Unashamed Love*. You can find it at [www.cdbaby.com/cd/basic-songs](http://www.cdbaby.com/cd/basic-songs) or on iTunes. Or e-mail [bond@alumni.clemson.edu](mailto:bond@alumni.clemson.edu).

**2000**

\***Patricia E. Land** (HLTHSC) of Seneca is manager of the meetings and outreach department for the National Council of Examiners for Engineering and Surveying.

**Elizabeth Wickman** (GRCOMM) of Seneca is information systems liaison at the National Council of Examiners for Engineering and Surveying.

**1997**

**Zachery R. Williams** (HIST) of Cleveland, Ohio, has published a book with the University of Missouri Press — *In Search of the Talented Tenth: Howard University Public Intellectuals and the Dilemmas of Race, 1926-1970*.

**1998**

\***Zachariah A.** (PRTM) and \***Robyn Johnson**

**All the way to Supreme Court**

D. Kent Safriet '95

Attorney Kent Safriet of Tallahassee, Fla., is pictured answering media questions about a seminal private property rights case he argued before the United States Supreme Court in December 2009.

The case is "Stop the Beach Renourishment, Inc. vs. Florida Department of Environmental Protection."

Safriet says the case focuses on "whether a state court 'takes' property without compensation in violation of the takings clause of the Fifth Amendment of the U.S. Constitution when it suddenly declares that property rights that existed for 100 years never really did exist." The case is still pending.

Safriet, a wildlife and fisheries biology graduate, is an experienced litigator and has devoted much of his practice to defending landowners' property rights before various state and federal courts. He has authored "Administrative Law" and "Agency" chapters in the *S.C. Environmental Handbook* and has been listed as a "Rising Star" in the annual *Florida Super Lawyers*.



**Raising the bar**

These Clemson alumni are making a difference in Columbia. As USC law students, they performed a community service project for Richland County CASA (National Court Appointed Special Advocate) fittingly on a Solid Orange Friday.

Pictured front row, from left, are **Lindsey Heger '07**, **Marshall Tinsley '07**, **Jessica Jubick '06**, **Lynn Whitten '06**; back row, **Blake Williams '09**, **Drew Evans '09**, \***John McLeod '09**, **Andrew Price '09**, **Ruston Neely '08**, **Tarin Holcomb '07**, **Matt Kelly '06**, **Cara Goodman '06**, **Felicia Sampson '06**.

**2001**

**C. Lance Radford** (M ADMSPV) of Greenville was named S.C. Secondary Principal of the Year by the S.C. Association of School Administrators. He's principal of Wade Hampton High School.

**2002**

**Kathleen A. Edwards** (AGECON) of Homestead, Fla., is executive director of the Dade County Farm Bureau.

**R. Austin Jenkins** (M ENT, PhD '06 FOR) of Camden received a \$10,000 Audubon/Toyota Together Green Fellowship to use on a community-focused project engaging local residents in nature conservation. He's executive director and naturalist for the

Katawba Valley Land Trust.

**Asheley C. Scott** (DESIGN) of Columbia is on the board of directors for Columbia Development Corp. She's an architect with Studio 2LR Inc.

**2003**

**Kimairia Toogood-Luehrs** (POSC, ENGL) of Fairfax, Va., is a doctoral candidate at George Mason University, focusing on sustainability of nonviolence between authoritarian governments of the Middle East and Eastern Europe. She's the recipient of several prestigious fellowships that have taken her to Tajikistan and Kyrgyzstan to further her research.

**2004**

**John K.** (SPCH&CS) and **Rachel Sullivan** (SPCH&CS) **Wolf** are married and living in Fayetteville, N.C. He's a staff sergeant in the U.S. Army and has served two tours in Iraq. She's a high school counselor.

**2005**

**Matthew R. Lubniewski** (PRS PA) of Pittsburgh, Pa., is an attorney with the firm McGrath Law Group. He practices banking and real estate law.

**Matthew John** (CE, PhD '08) and **Jessica Moore** ('06 PHYS) **Schuster** are married and living in North Augusta. She is a medical student at the Medical College of Georgia.



**Doctor on board**

Tenley Palisin Murphy '01

Physician Tenley Murphy of Greenville came to Clemson to study biological sciences, but she found her full Clemson experience as a member of the Tiger rowing team. Both combined to help prepare her for a practice in sports medicine.

Last year, she returned to the University to work with Tiger team physicians Len Reeves and Larry Bowman through a sports medicine fellowship with AnMed Health and Clemson.

When the opportunity came last fall to stay at Clemson and work at Redfern Health Center, practicing family medicine and sports medicine as well as continuing to work with Dr. Reeves and the athletic department, she couldn't pass it up.

"Clemson students are an extremely active group whether it's intramurals, club sports or working out on their own," she says. "To be able to provide sports medicine care right here at Redfern is a perfect fit for me."

**2008**

**Michael P. Dickson** (FINMGT) of Aiken received his commission as an ensign in the U.S. Navy after completing Officer Candidate School at Officer Indoctrination School in Newport, R.I.

**2009**

**David B. Leininger** (GRCOMM) of Clemson is a technical designer with Trekk Cross-Media in Rockford, Ill.

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**Reclaiming the Blade filmmaker Erica F. Black M '05**

Graphic communications graduate Erica Black is a producer and director of photography for Galatia Films, an entertainment media company specializing in the production of historical films and documentaries.

The company's latest project, *Reclaiming the Blade*, is an entertaining documentary on Renaissance martial arts and theatrical swordplay. It features Viggo Mortensen, is narrated by John Rhys-Davies and contains movie scenes with sword-swinging actors ranging from Errol Flynn to Johnny Depp.

Black was involved in every step from conception to distribution, coordinating shoots in 13 countries and working with editors from New York and Los Angeles. She's currently working on Web development, advertising and promotion.

She also works right here at Clemson as the Web designer and editor of *MyOrangeUpdate.com*, the e-newsletter for IPTAY. *Reclaiming the Blade* is available online ([galatiamovies.com/store](http://galatiamovies.com/store)) and at major retailers. To see scenes, go to [www.swordmovie.com](http://www.swordmovie.com).

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**Let's go racing**

Management graduate Angelo Dinkov '08 of Greenville is pursuing his dream as a professional racecar driver. In fact, he got his start in motorsports as a Clemson student through the University's Autocross Club.

After receiving his racing license from Panoz Racing School, he competed in Skip Barber Racing's Mazdaspeed MX-5 2009 season, earning Rookie of the Year and finishing in second place in the championship.

This year, he's going for the championship again and another shot at being invited to the SCCA Pro Racing Playboy MX-5 Cup Shootout, where five Mazda champions compete to win a fully sponsored ride in the series for 2011 by Mazda valued at \$70,000.

To keep up with Dinkov's racing career, go to [angelodinkovracing.com](http://angelodinkovracing.com).



**NASCAR engineer Richard A. Parker '05**

When it comes to achieving goals, mechanical engineering graduate Richie Parker takes a no-quit approach. Born without arms, he never let his physical limitations get in the way of earning a degree and going to work for NASCAR's Hendrick Motorsports.

Parker designs automotive components and performs mechanical inspections on his team's cars. He counts welding among his skills. And using his feet to operate computers is a breeze.

But Parker doesn't think twice about the way he does things. He says his body is "not really a limitation. You just see things from a different perspective. A lot of times, that's a good thing."

His fellow crew members agree, seeing Parker as just another guy on the team, with his own areas of expertise just like anyone else. Parker says of his teammates, "We have to lean on each other's strengths. God puts each of us through different challenges in life, and it's up to us to make the best of each situation."



**Robert J. Clarkson '33**, Winnsboro

**Olen B. Garrison '33**, Clemson, agriculture professor emeritus and retired director of the S.C. Agricultural Experiment Station. Memorials may be made to the Clemson Corps Endowment or Woodland Cemetery Preservation Fund, Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**Lewellyn T. Boatwright Jr. '38**, Aiken

**Harry Geisberg Jr. '38**, Louisville, Ky.

**Carroll E. Hendrix '39**, Lake View

**Odus K. Cook '40**, Orangeburg

**Sheppard A. McKenzie Jr. '40**, Alexandria, Va.

**Wallace M. "Ack" Ackerman '41**, Summerville

**Carroll M. Eaddy '41**, Hemingway

**William L. Betsill Sr. '42**, Anderson

**Robert B. Segars '42**, Cross Hill

**Walter G. Wofford '42**, Hemingway

**George B. Breeden '43**, Annapolis, Md.

**William G. Bristol '43**, Tallahassee, Fla.

**Emory G. Orahood Jr. '43**, Atlanta, Ga. Memorials may be made in his honor to the Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**Charles A. Spencer '43**, Greensboro, N.C.

**Paul B. Ellis Jr. '44**, Fort Mill

**Ansel S. Terry '44**, Roxboro, N.C.

**Dale G. Vander Voort '44**, Asheville, N.C.

**Lesesne Andrew White '44**, Easley

**James M. Connor Sr. '46**, Kingstree

**Holbert O. Crawford '48**, Central

**Clarence J. Gullede '48**, Sumter

**Frank C. Lucius '48**, Clemson

**Carl M. Norton Jr. '48**, Cleveland, Tenn.

**Cyril M. Shuman '48**, Furman

**James C. Thrailkill '48**, Cheraw

**Marvin P. Cannon Jr. '49**, Clemson

**Joe A. Dalton '49**, Seneca

**Douglas C. Edwards '49**, Atlanta, Ga.

**Frank L. FitzSimons Jr. '49**, Hendersonville, N.C.

**Roger G. "Cy" Kivett '49**, Chattanooga, Tenn.

**James T. Price '49**, Norris, Tenn.

**James J. Simpson '49**, Anderson

**Jerome Wilson Jr. '49**, Chester

**Philip L. Benfield '50**, Chester

**Roderick S. Brisendine '50**, Greenville

**John M. Carlisle Jr. '50**, Spartanburg

**James Marshall Farmer Sr. '50**, Greenville

**H. Kenneth Smith '50**, Greer

**Harry A.L. Stribling '50**, Travelers Rest

**Roland J. Whitmire Jr. '50**, Asheville, N.C.

**James F. Cathcart '51**, Spring, Texas

**Charles Collin Hucks Sr. '52**, Aynor

**Kenneth L. Huggins '52**, Walterboro

**Edward M. Shannon Jr. '52**, Columbia

**Robert L. Wannamaker '52**, Columbia

**James Henry Bishop '53**, Greenville

**E. Walton Jones '54, M '59**, Raleigh, N.C.

**James D. Wells Jr. '54**, Greenville

**Albert C. Allen '56**, Aiken

**Jack T. Day '56**, Hollywood

**Lynwood S. Barnes '57**, Loma Linda, Calif.

**Jerry T. Steele '58**, Greenville

**Barbara Burnette Evans M '59**, West Columbia

**Clegg Lamar Greene '59**, Clemson

**States M. McCarter '59, M '61, PhD '65**, Clover

**Don W. Faile Sr. '60**, Chester

**Major W. White '60**, Pendleton

**Landon C. Miller '61, M '64**, Clemson, horticulture professor emeritus. Memorials may be made in his honor to the Friends of the S.C. Botanical Garden or the Class of 1961 Scholarship Endowment, Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**Henry J. "Jack" Reed '67**, Arlington, Va.

**Jackie Lee Jackson '69**, Marion

**Jane Hass Philbrick '69**, Savannah, Ga.

**Louise Klugh Rankin M '69**, Anderson

**Ann LaVerne White '69, M '73**, Clemson

**Thomas A. Wilson '69**, Burke, Va.

**Jack W. Carter Jr. '70**, Columbia

**Vincent D.G. Guide Sr. '70**, Clemson

**Norman Terry Massey '70**, Alpharetta, Ga.

**Perry B. DeLoach '71**, Pendleton

**Ansel D. Orander Jr. '72**, Easley

**Robert D. Brown '74**, Palmetto Bay, Fla. Memorials may be made in his honor to the Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**Samuel M. Garrison '74**, Fort Mill

**Patricia Elaine Hendrix Smith '74**, Simpsonville

**Frank B. "Buddy" Adams III '76**, Jacksonville, Fla.

**Betty Balentine Gaillard M '76**, Greenwood

**Ronald M. Johnson '76**, Beaufort

**Michael W. Brown '77**, Gunnison, Colo. Memorials may be made in his honor to the Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**Michael W. Herndon '77**, Rock Hill

**Gena Linder Parker '81**, Anderson

**Roger P. Harris '82**, Greer

**John S. Shores '82**, Athens, Ga.

**Roman J. Woodall '88**, Clemson

**Douglas Todd Collins '90**, Leesville

**Grady L. Patterson HD '92**, Columbia

**Michael K. Tilley '01**, Travelers Rest

**Jason A. Carnes '04**, Americus, Ga. Memorials may be made in his honor to the Physics Department, Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**Gaines D. Adams '06**, Greenwood

**Joshua J. Allen '08**, Longs

**Roy A. Evans, junior**, Gaffney

**Harold "Mac" McKeown**, Clemson student in the early 1950s, opened Mac's Drive-In in 1956, where he and his restaurant became part of the Clemson Family landscape for generations of alumni. Memorials may be made in his honor to the Mac McKeown Scholarship Fund, Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**FACULTY AND STAFF**

**Earle H. Ambrose**, Clemson, retired assistant athletic director and athletic department pilot

**James P. Burns**, Clemson, retired director of the Communications Center and former University magistrate. Memorials may be made in his honor to the Reva W. Burns Endowment Scholarship in Nursing, Clemson University Foundation, PO Box 1889, Clemson, SC 29633-1889.

**John L. Finn Jr.**, Westminster, retired director of administration and external relations, engineering and science

**Charles E. Kirkwood Jr.**, Clemson, mathematics professor emeritus

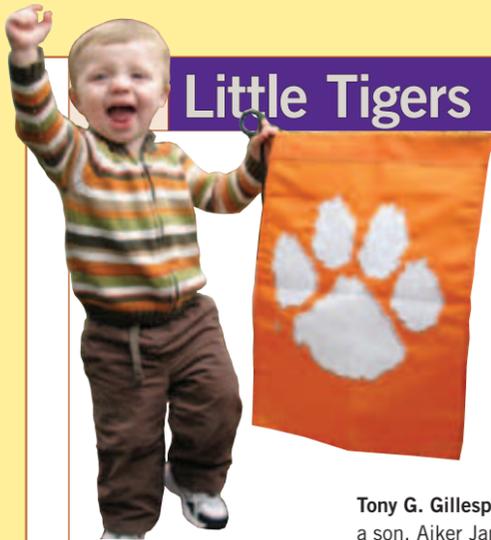
**Nicasio P. "Nick" Marullo**, Seneca, chemistry professor emeritus

**Margaret Gordon McFadden**, Chapin, retired Extension Service home economist

**CLEMSON MEMORIALS**

Family, friends and former classmates may choose to remember a loved one by supporting Clemson. To find out how to establish a memorial in someone's honor, please contact Ann Smith at [annsmit@clemson.edu](mailto:annsmit@clemson.edu) or 864-656-5895.

# Little Tigers



**John E. Thacher '78**, a daughter, Rebecca Ellen, Oct. 13, 2009.

**Elizabeth J. Scarborough '89, M '91**, a son, Zachary Joss Bodhi, Feb. 28, 2009.

**Mickey A. "Shag" Fortner '91**, a daughter, Alanna Lucia, Aug. 12, 2009.

**Dawn Corley Grosjean '91**, a son, Corley Arren, June 29, 2009.

**Nicole Fichter Nyberg '91**, a daughter, Victoria Anne, April 6, 2009.

**Philip E. Dressler '92**, a son, Griffin Matthews, April 7, 2009.

**Beth Anne Taglia McMahon '92**, a daughter, Riley Little, June 14, 2009.

**Andrew D. '93 and Deyna Holman '95 Rogers**, a daughter, Charlotte Anne, Aug. 17, 2009.

**John M. '93, M '95, PhD '98 and Jill Hennessy '94 Shea**, a daughter, Amelia Debra, Nov. 24, 2009.

**Robert F. '93 and Tonya Bridwell '94 Whatley**, a daughter, Anna Katherine, March 23, 2009.

**Tony G. Gillespie Jr. '94**, a son, Aiker James, June 25, 2009.

**Allyson Dixon '94, M '97, PhD '00 and Jeff D. '02 McCall**, a daughter, Calla Jayda, Sept. 10, 2008.

**Lauren Wilson '96 and David A. '98 Rosenbaum**, a son, Caleb James, Aug. 17, 2009.

**Shannon Morris Daoud '97**, a son, Jonathan Karim, Oct. 30, 2009.

**Paul J. '97 and Andrea Banish '99 Little**, a daughter, Emilie Elizabeth, Jan. 9, 2009.

**Karen Godsey Quinn '97, M '99**, a daughter, Kasey Elizabeth, Oct. 12, 2009.

**Michael S. '98 and Melissa Price '02 Brice**, a son, Walker Shannon, June 9, 2009.

**Cheryl Dove '98 and Jonathan D. '99 Dunagin**, a son, Nathaniel Jon, April 12, 2009.

**Mandy Aldebol Ethridge '98**, a daughter, Ava Caroline, April 26, 2009, granddaughter of **Anthony W. Aldebol '68**.

**Zachariah A. '98 and Robyn Johnson '00 Overby**, a son, John Benjamin Ehud, July 18, 2009.

**Angela Wright Gaines '99, M '00**, two sons, Elijah Edward, April 6, 2005, and Peter Arlen, Aug. 17, 2009.

**LeeAnne Jones Grumelot '99**, a daughter, Emma Grace, June 3, 2009.

**Kristin Cleveland and S. Justin Mullis '99**, a daughter, Mabry Anne, Feb. 19, 2008.

**Bryan B. and Kristin Tomlinson Patterson '99**, a son, Manning Lewis, Oct. 19, 2009.

**Crystal Culler '99 and Kenneth E. '00 Selfridge**, a son, Logan Mackenzie, Jan. 8, 2010.

**Lori McGowan Spicer '99, M '05**, a son, William Christopher Lanier, June 17, 2009.

**Amy Thompson Austin '00**, a daughter, Elizabeth Anne, March 8, 2007, and a son, Philip Campbell, March 11, 2009, grandchildren of **Philip C. Thompson '72** and great-grandchildren of the late **John C. Thompson '50**.

**Noah L. '00 and Elizabeth Riessen '04 Chitty**, a daughter, Reagan Elizabeth, Sept. 17, 2009.

**Katie Crawford '00 and Stuart A. M '03 Dodson**, a daughter, Wylie Skye, July 29, 2009.

**Matthew D. '00, M '04 and Allison Nix '02 Fleahman**, a daughter, Sophia Alexandria, May 26, 2009.

**Melissa Ballard Hyde '00**, a son, Connor Matthew, July 8, 2009.

**Kara Sexton '00, M '01 and Matthew J. '01 Shealy**, a son, Brayden Walker, Nov. 29, 2009.

**Marlayna Neste Tracy '00, M '02**, a daughter, Emma Katherine, Oct. 13, 2009.

**J. Matt '01, M '02 and Jessica Cummings '01, M '03 Bolin**, a son, James Cooper, Nov. 12, 2009.

**Eric S. '01 and Shannon Driggers '02 Riesenfeld**, a daughter, Siena Ashlynn, July 2, 2009.



**Mary-Halis Alkis '01, M '04 and Benjamin S. '04 Williams**, a daughter, Isabelle Rutledge, April 28, 2009.

**Elizabeth Cameron Hassan '02**, a son, Brandon Robert, Jan. 14, 2009, grandson of **Dennis M. Cameron '78**.

**Matthew E. '02 and Stephanie Glenn '04 McCann**, a son, Wesley Evan, April 6, 2008.

**C. David '02 and Shelley Lindley '04 Suttles**, a son, Graham Walker, June 29, 2009, grandson of **Janet Prince Suttles '77**.

**Melanie Kitchings Pniewski '03**, a son, Caden Wallace, Dec. 15, 2009.

**Monique Surles and Peter Dutkowsky '04**, a son, Michael Edward, Nov. 29, 2009.

**Anna Hemphill Hanahan '05**, a son, Sullivan, Sept. 4, 2009.

**Tony W. Mayne M '05**, a son, Luke Harris, Nov. 2, 2009.

**Kevin H. Myers '05**, a daughter, Mallory Christine, Oct. 5, 2009.

**W. Cole Harrison '06**, a daughter, Stella Cole, June 3, 2009.



## Maney family Tigers

The John and Janet Maney family with their six daughters (all Clemson graduates), five sons-in-law (four Clemson alumni) and 14 grandchildren (one Clemson student and counting) make for a great family reunion.

Daughters are **Janine Maney '85, Julie Maney McClellan '86, \*Christine Maney Eick '87, Brenda Maney Windsor '88, Maureen Maney Meador '90** and **\*Maria Maney Wright '93**. The four Clemson sons-in-law are **\*Charles J. Eick '84, Jeff Windsor '83, Guy Meador '90** and **\*Michael Wright '94**. Clemson student **Patrick Windsor** is slated to graduate in 2011.



Lew Beck (center) accepts the Pump Industry Technical Innovation of the Year Award.

## Tech innovation of the year

Business administration graduate **Lew Beck M '97** of Seneca recently traveled to Coventry, England, to receive an international Pump Industry Award for Technical Innovation of the Year. He's pictured with Michelle Lee (left) of *Process & Control Magazine* and Andrew Castle of Datateam Business Media & Communications.

Beck is a senior engineer at the Oconee Nuclear Station, where he designed and developed a hand-held, laser-guided oil-setting tool that will help reduce equipment failures from inaccurately set oil levels.

He credits his business training at Clemson for being able to develop and market this product that has domestic and global potential.

## Spring 2010

What's new?  
We like to hear from you.



**Sorry for the delay!** You may not see your class note in the issue or two after you send it in because of the 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 sending your address information from the back cover so that we can delete it from our list.

**Address changed?** Please send your old address information from the back cover with your new address.

**We welcome general comments, address information, class notes, birth announcements and passing announcements.**

Send your news by e-mail to [sleigh@clemson.edu](mailto:sleigh@clemson.edu) or FAX to 864-656-5004.

Or mail your news to *Clemson World*, 114 Daniel Drive, Clemson, SC 29631-1520.

You can also update your information online at [cualumni.clemson.edu/update](http://cualumni.clemson.edu/update).

**Remember** — include your name, year of graduation, major, town and state.



**1. Argentina**  
\*John D. '58 and \*Jo Anne Jones at a ranch near Buenos Aires



**2. Egypt**  
Frank '64 and Bonnie Taylor at Luxor Temple



**3. Switzerland**  
\*John L. Hill '65 showing a Tiger Rag to cows in Lenk



**4. Glacier National Park**  
Rick Donohoe '68 on the Continental Divide at Gunsight Pass in Montana



**5. New Orleans**  
Bill Watson and Bill Scherler '70 at the Tournament Players Club displaying their Tiger pride



**6. California**  
Irvin '73 and Margie Player on the rim of the other Death Valley



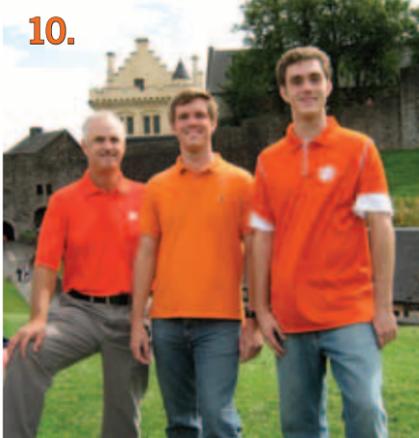
**7. China**  
\*Becky Fields Campbell '74, \*Donnie Campbell '72, \*Kirk Weyman '62, Minh Tran '82, Season Lee '98, Ronnie Townsend '70 and \*Patricia Traux Townsend '76 beneath the Buddhist pagoda on Tiger Hill, Suzhou



**8. Greece**  
\*Alexandra Georgeo Allen '71 at her family home on the island of Halki



**9. Afghanistan**  
\*Philip Stanley Kadala '75 serving in Afghanistan



**12. Japan**  
\*Diane Dorroh Wicker '82 at Mount Aso, Kumamoto

**13. Nevada**  
\*Rusty '86, Will (participant) and \*LeeAnn '86 Harris at the 2009 Jr. Olympic National Cross Country Championships in Reno

**14. Egypt**  
\*Jennifer Jewell '91 at the Great Pyramids of Giza

**15. Australia**  
Randy Seay '94 in the Bunya Mountains in Queensland

**16. Micronesia**  
\*Melanie and \*Brad '97 Blackburn on the island of Yap

**17. Falkland Islands**  
\*Jim Falin '97 and \*Emily Dawson with a king penguin and nearly 5,000 gentoo penguins at The Neck on Saunders Island

**18. Belgium, the Netherlands, Germany**  
\*Lori McGowan '99, M '05 and \*Christopher Spicer showing Clemson pride in three countries at once

**19. Brazil**  
Michael Dixon '00 and \*Trey Mills '00 in front of Cristo Redentor, Rio de Janeiro

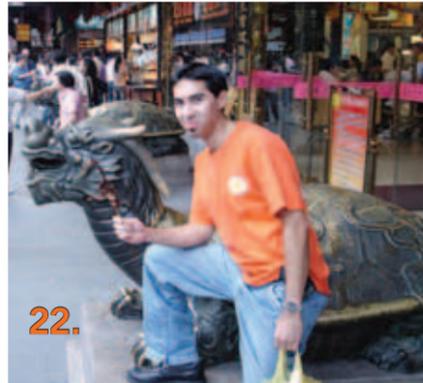
**20. Romania**  
Julia, Hannah and Tanner '00 Pittman in Cluj

**21. Greece**  
\*Beau and \*Kate Nickless '02 Hutto in front of the Parthenon, Athens



\*Active Clemson Fund donor for 2010 Fiscal Year (July 1, 2009 – June 30, 2010) through March 1. For more information, call Annual Giving at 864-656-5896.

**22. China**  
\*Paul Sandsted '02 with a grilled bat (gulp!) in Shanghai market



22.

**23. Costa Rica**  
Leslie Garner and Doug Johnson '03 in front of Arenal Volcano



23.

**24. Tajikistan**  
Kim Toogood-Luehrs '03 displaying her Clemson spirit



24.

**25. Africa**  
Ashley Semar '07 and George '06 Magrath in Ghana



25.

**26. Appalachian Trail**  
Amanda Wise '06 at the top of Mount Katahdin, Maine



26.



30.

**27. Utah**  
Kevin Hackett '08 and Jordan Perkins '08 in the underground subway canyons of Zion National Park



27.



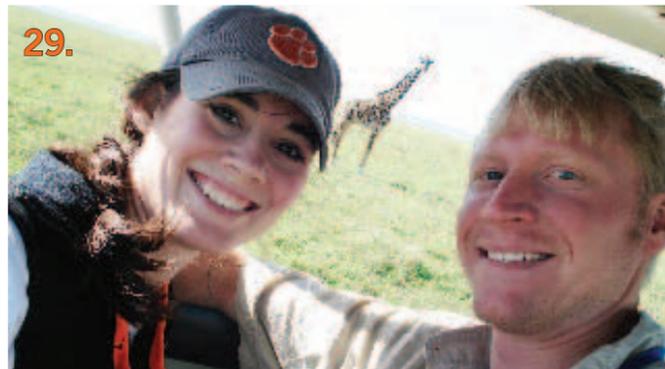
31.

**28. Ghana**  
Adam Luck '08 at the Cape Coast Castle



28.

**29. Kenya**  
Sara Ashley Brown '08 and Ryan Richardson in the Maasai Mara region



29.

**30. Tanzania**  
Katherine Cannon '10 volunteering in Bagamoyo

**For more Clemson World Travelers ...**

If you sent in a *Clemson World Travelers* photo earlier this year, but haven't seen it in print, go to the online version at [www.clemson.edu/ClemsonWorld/travelers](http://www.clemson.edu/ClemsonWorld/travelers).

You can post your own Travelers photos on the *Clemson World Magazine* Facebook site at [www.facebook.com/clemsonworld](http://www.facebook.com/clemsonworld). Or send them, with a brief description, directly to Sallie Leigh at [sleigh@clemson.edu](mailto:sleigh@clemson.edu).

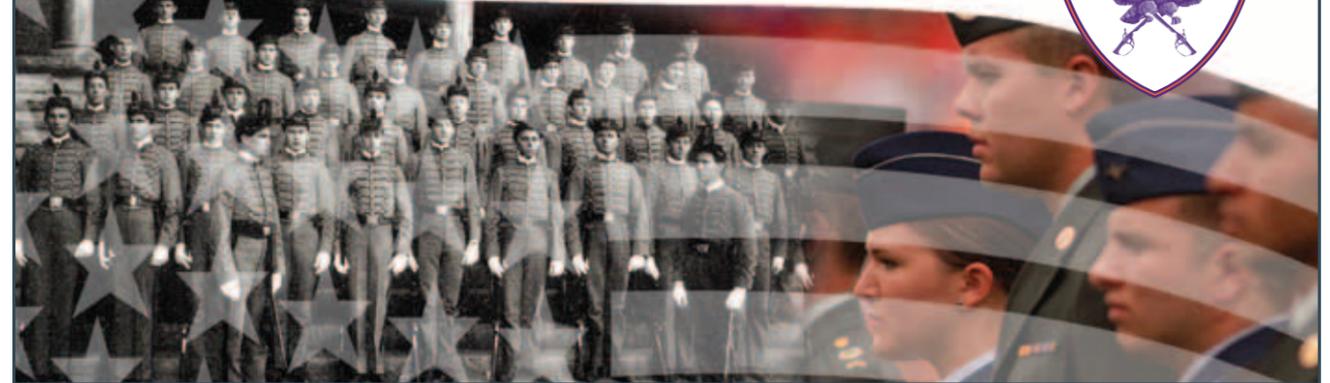
# Operation 'Empowering Our Future'

Since Clemson first opened its doors in 1893, it has educated and trained leaders for America's military. That mission has never been more important than it is today.

The Clemson Corps provides scholarship support to current cadets in both Army and Air Force ROTC.

a secure online contribution at [www.clemson.edu/isupportcu](http://www.clemson.edu/isupportcu). Specify that your gift is for the Clemson Corps scholarship endowment.

To help fund scholarships for our future military leaders, use the envelope in this magazine, or make



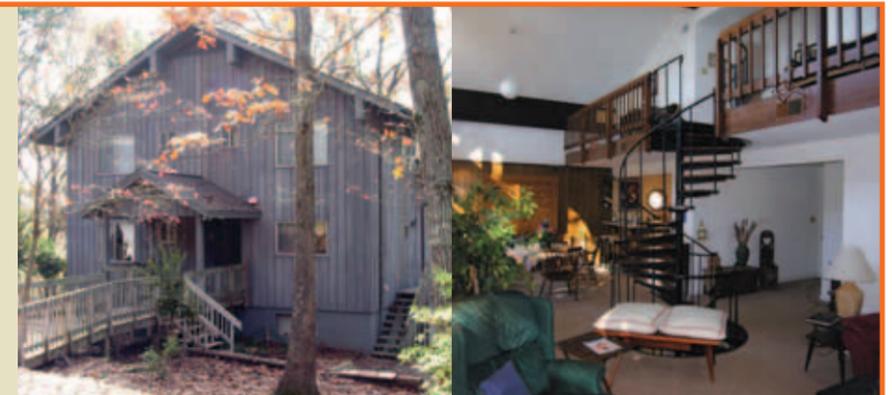
[cualumni.clemson.edu/clemsoncorps](http://cualumni.clemson.edu/clemsoncorps)

**315 Perry Circle  
Townville, S.C.**

*This lake home is minutes by car or boat from Death Valley and perfect for entertaining after watching the Clemson Tigers play!*

On LAKE HARTWELL, 2,684 sq. ft., 5-bedroom, 4-bath fully furnished home with covered dock and 100 ft. of lake frontage. Located in Anderson County, S.C. Two adjoining lakefront lots may be purchased separately. The entire property, approximately 2.27 acres, with 300 ft. of lake frontage, has exquisite sunset views across the main deepwater channel.

Call 864-414-2426 or visit [www.SpectrumCarolinas.com](http://www.SpectrumCarolinas.com) for pricing and details.



LAKE FRONT GETAWAY

**CLEMSON Alumni**

**Hear Us Roar!**

At the start of this new decade come fresh changes for the Alumni Association look and feel. We've come a long way since 1896, but we can't wait to show you where we're going next!

For a new era, an exciting new logo and tagline have been created to build awareness for the Alumni Association and create solidarity among all Tigers. You'll be seeing this new look everywhere a Tiger roams. The new brand will give all of the Clemson Family an instantly recognizable, powerful way to stay connected out in the world. **Check out our video at [www.clemson.edu/alumni/brand-video.html](http://www.clemson.edu/alumni/brand-video.html).**



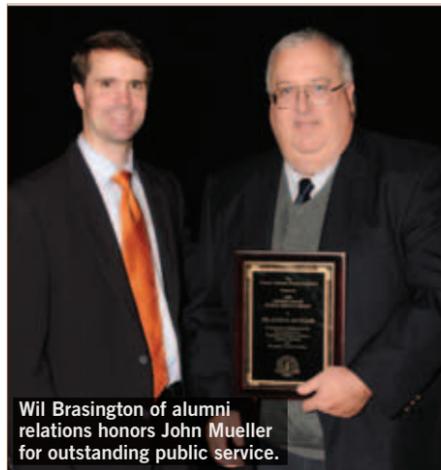
**The Echo newsletter**

To keep you in-the-know on the latest news from campus and up-to-date on all of the important alumni events, we'll be distributing *The Echo* newsletter every two weeks to your inbox — if we have your e-mail address. Please help us spread the word and make sure we have your address. Just e-mail us at [info@alumni.clemson.edu](mailto:info@alumni.clemson.edu) or submit your

information through the alumni homepage at [www.clemson.edu/alumni](http://www.clemson.edu/alumni).

Thanks to all of you who submitted your professional contact information requested in the January issue. Congrats to '84 alum Eddie Mulligan, electrical engineer from Birmingham, Ala., who won the drawing for the Clemson lamp.

**Alumni awards Extension excellence**



Wil Brasington of alumni relations honors John Mueller for outstanding public service.

The Clemson Alumni Association recognized John Mueller, director of Clemson's Edisto Research and Education Center in Blackville, with the 2009 Alumni Distinguished Cooperative Extension Public Service Award.

Mueller, a professor of plant pathology, has led efforts to combat Asian soybean rust along the coast, helping save S.C. and Southeast growers millions of dollars. He's also been a leader in work on the Columbia lance nematode, a major pathogen of cotton and soybean in the coastal region.

The Alumni Association gives the award annually to a professional who has enhanced the well-being of the citizens of South Carolina and beyond and provided exemplary service on behalf of the University.

**BBS alumni shine**

Clemson political science graduates Leighton Cabbage '77 of Simpsonville and Andy Monin '94 of Atlanta, Ga., have more than their major and alma mater in common. Both were honored by the Spiro Institute for Entrepreneurial Leadership earlier this year for their successful enterprises.

Cabbage is with Serrus Partners, an investment fund built to leverage cash in the real estate market. Previously, he helped develop numerous companies including New South, NuVox, Upstate Automotive, Ionosphere, Greenville Journal, E.C. Transportation and Greenville First Bank. He has also served as chairman of the Greenville Hospital System University Medical Center board and founded Corporate Telemanagement Group, an INC 500 company.



Entrepreneurs Andy Monin and Leighton Cabbage

Monin is chairman and CEO of Vendomate, a market leader in providing credentialing and compliance monitoring services to more than 800 U.S. hospitals and banks. In 2008, the company was ranked as one of the fastest growing companies in Atlanta. Previously, Monin co-founded BroadSource, a telecommunications expense management software and solutions company selected as one of Georgia's Top 40 Most Innovative Companies in 2005.

The alumni recognition event is a Clemson Renaissance Center activity sponsored by the Spiro Institute in the College of Business and Behavioral Science (BBS). **If you're a BBS alumnus, see what's waiting for you at [www.clemson.edu/cbbs/alumni](http://www.clemson.edu/cbbs/alumni).**



Webb Smathers, Class of '39 Professor

**Class of '39 faculty award**

Applied economics and statistics professor Webb M. Smathers Jr. was recognized earlier this year by his peers and the Class of 1939 as one of Clemson's best.

The Class of 1939 Award for Excellence, which includes a \$5,000 stipend, was established by that class to recognize faculty members for the highest achievement of service to the student body, the University and the community.

Smathers is adviser to three student organizations, past president of the Faculty Senate and has served on numerous committees including the Athletic Council, the Grievance Board and the newly appointed President's Commission on Sustainable Environment. He's an advocate for conservation and is active in several statewide organizations, including the S.C. Wildlife Federation, and as an appointee by four governors to the S.C. Department of Natural Resources Land, Water and Conservation Board.

**CLEMSON CLUB**



Pictured from left are Jim Coakley, Kristin David '06, Beth Meehan Coakley '93, John Meehan '98, Jim and Marcia Barker, Michael Coakley '91, Ellen Coakley, Terry Coakley '71.

**Clemson in D.C.**

President Jim Barker presented a beautiful tiger statue to Beth '93 and Michael '91 Coakley in appreciation of their outstanding service to the University during the annual Clemson Congressional Reception in Washington, D.C. The Coakleys of Arlington, Va., served as co-presidents of the Baltimore/Washington, D.C., Clemson Club for 11 years before stepping down last fall.

**New Pee Dee Club**

The newly formed Greater Pee Dee Clemson Club gathered for a viewing party of the Clemson vs. Wake Forest basketball game. Pictured from left are event organizers Diamond '94, M '01 and Mark '96, M '01 Palmer and Dusty '01 and Cody '04 Kertis.

The club covers Florence, Darlington and Marion counties. For more information, contact Mark Palmer, club president, at [greaterpeedeclub@alumni.clemson.edu](mailto:greaterpeedeclub@alumni.clemson.edu).

**History & Hoops in Greenville**

University historian Jerry Reel joined the Greenville Clemson Club — and its more than 50 Clemson fans — for a basketball viewing party and fun history lesson. Pictured from left are David Poe '94, Jay Reel, Jerry Reel, Bubba Britton '97, Edmee Reel M '82, Hector McLean '95 and Brian Casey '98.



**The 2009-10 Clemson Alumni Association Board**

Leslie D. Callison '81, president  
Lexington, [lesca159@aol.com](mailto:lesca159@aol.com)

James A. "Jimmy" Kimbell III '87, president-elect, Anderson,  
[jimmy.kimbell@bankanderson.com](mailto:jimmy.kimbell@bankanderson.com)

E. Grant Burns '88, past-president  
Greer, [grant.burns@alumni.clemson.edu](mailto:grant.burns@alumni.clemson.edu)

James "Jimmy" Addison '68, Clemson University Foundation  
Atlanta, Ga., [james.addison@troutmansanders.com](mailto:james.addison@troutmansanders.com)

Mary Anne Bigger '88, IPTAY  
North Augusta, [bbigger@comcast.net](mailto:bbigger@comcast.net)

B. Lindsey Clark '02  
Orlando, Fla., [blindseyclark@hotmail.com](mailto:blindseyclark@hotmail.com)

Teresa S. Coles '84  
Lexington, [tcoles@riggsadvertising.com](mailto:tcoles@riggsadvertising.com)

W. Paul Craven '87  
Greer, [paulc@grandsouth.com](mailto:paulc@grandsouth.com)

Sandy Edge '72  
Clemson, [sedge@clemson.edu](mailto:sedge@clemson.edu)

L. Taylor Garick III '94  
Orangeburg, [tgarrick@sc.rr.com](mailto:tgarrick@sc.rr.com)

Rick Griffin  
Beaufort, [dwmtnmarina@islc.net](mailto:dwmtnmarina@islc.net)

Jessie R. Hood '94  
Atlanta, Ga., [jessierichardson@alumni.clemson.edu](mailto:jessierichardson@alumni.clemson.edu)

Ann W. Hunter '80, M '82  
Greenwood, [ann.hunter@alumni.clemson.edu](mailto:ann.hunter@alumni.clemson.edu)

Satch Krantz '72  
Columbia, [skrantz@riverbanks.org](mailto:skrantz@riverbanks.org)

Andrea MacMeccan '99  
Greer, [amacmec@alumni.clemson.edu](mailto:amacmec@alumni.clemson.edu)

Allen Martin '69  
Vienna, Va., [amartin@livingstongroupdc.com](mailto:amartin@livingstongroupdc.com)

Mike Maxwell '67, M '68  
Atlanta, Ga., [mjmaxwell@aol.com](mailto:mjmaxwell@aol.com)

R. Kelly Molony '83  
Charleston, [kelly@creditadjustment.com](mailto:kelly@creditadjustment.com)

Evan Vutsinas '79  
Old Hickory, Tenn., [evtiger@comcast.net](mailto:evtiger@comcast.net)

Greg Younghans '93  
Camden, [gyoungans@go2uti.com](mailto:gyoungans@go2uti.com)

**Ex-Officio members include:**  
Leon J. "Bill" Hendrix '63, Clemson Board of Trustees  
Kiawah Island

Wil Brasington '00, Alumni Relations senior director  
Clemson, [wil@clemson.edu](mailto:wil@clemson.edu)  
Brian J. O'Rourke '83, M '85, Development and Alumni Relations executive director  
Clemson, [orourke@clemson.edu](mailto:orourke@clemson.edu)

**Pittsburgh and Treasure Coast Clemson Clubs!**

The Alumni Association has added two more clubs: the Pittsburgh Clemson Club and the Treasure Coast Clemson Club in Florida, covering Martin, Indian River, St. Lucie and Okeechobee counties. For more on the Pittsburgh club, contact Allison English at [pittsburghclub@alumni.clemson.edu](mailto:pittsburghclub@alumni.clemson.edu). For information on the Treasure Coast club, contact Micaela Wolfe at [treasurecoastclub@alumni.clemson.edu](mailto:treasurecoastclub@alumni.clemson.edu).



**Young Alums in Charlotte**

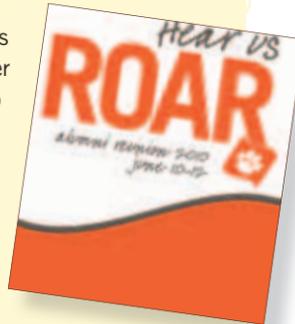
Clemson Young Alumni in Charlotte, N.C., gathered for a basketball viewing party and a little catching up. Pictured from left, Tara McElroy '04, Emily Manning Forfar '04, Stacey Harvel '05, Ryan Riggins '07 and Kevin Harvel '05. To learn more about the Clemson Young Alumni in your area, e-mail [youngalumni@alumni.clemson.edu](mailto:youngalumni@alumni.clemson.edu).



CLEMSON Young ALUMNI

**Come home for Reunion 2010**

The Golden Anniversary Class of 1960 and all other alumni are invited to attend the roaring 2010 Clemson Alumni Reunion, June 10-12. Headquarters will be at the Madren Center, but fun and festivities will reach across campus and beyond. For more information, call 864-656-2345 or go online to [www.clemson.edu/alumni](http://www.clemson.edu/alumni).



**Heard any good ring stories?**

Proud of your Clemson Ring? Has it opened any doors, helped you make friends or just added some interest to your life?

We have a new Web site about the Clemson Ring — including its history and traditions along with individual ring stories from your fellow alumni — at [www.clemson.edu/alumni/ring](http://www.clemson.edu/alumni/ring).

We're looking for more adventures, chance meetings or lost-and-found Clemson Ring stories. See what other alumni have shared and add your own comments.



**Don't miss May's Prowl & Growl**



We're right in the middle of our annual spring Prowl & Growl tour schedule, with May tour stops still to come: May 18, Greensboro; May 22, Atlanta; May 25, Lexington; May 26, Florence; and May 27, Charlotte.

For times and locations of upcoming events and for photos of recent events, go to [www.clemson.edu/alumni](http://www.clemson.edu/alumni) and click on Prowl & Growl.

**'Bring Your Daughter' turns 12**

The Women's Alumni Council is hosting its 12th annual Bring Your Daughter to Clemson Weekend May 15-16. Girls, ages 6 to 18, attend this weekend for an authentic college experience by staying overnight in the Stadium Suites residence hall, meeting professors and chatting with current students. They also have opportunities to interact with admissions staff, student athletes and coaches and to explore nontraditional career opportunities. To check on any remaining spaces, e-mail [womenalumni@alumni.clemson.edu](mailto:womenalumni@alumni.clemson.edu).



**'Welcome Back' set for Aug. 16**

Spring semester is barely over, and already the Student Alumni Council is getting ready for the Welcome Back Festival on August 16. The annual event brings thousands of people to downtown Clemson to enjoy food, games, giveaways and music to kick off the new school year. All proceeds go to the Student Alumni Council Scholarship.

**PASSPORT adventures**

Don't miss these upcoming travel opportunities through Clemson PASSPORT Travel, the Alumni Association's official travel program:

- Oberammergau: The Passion Play (Bavaria, Germany) in July;
- Paris/London, Passage of Peter the Great Cruise in August;
- Danube Cruise plus Budapest & Prague, Dubai in September;
- Crossroads of the Classical Mediterranean in October.

For more information, go to [cualumni.clemson.edu/travel](http://cualumni.clemson.edu/travel) or call 864-656-2345.



**Follow the Tigers!**

Be sure to plan you away-game travel with the Alumni Association's Clemson Sports Travel Program. Call 864-656-2345 for the latest information on away-game headquarters and pregame tailgate gatherings. Or visit the Web at [cualumni.clemson.edu/travel](http://cualumni.clemson.edu/travel).



**2010 TIGER FOOTBALL**

• Sept. 4 — North Texas (Hall of Fame Day, Youth Day)	• Oct. 23 — Georgia Tech (IPTAY Day)
• Sept. 11 — Presbyterian (Family Day)	• Oct. 30 — at Boston College
• Sept. 18 — at Auburn	• Nov. 6 — N.C. State (Military Appreciation Day)
• Oct. 2 — Miami (Homecoming)	• Nov. 13 — at Florida State
• Oct. 9 — at North Carolina	• Nov. 20 — at Wake Forest
• Oct. 16 — Maryland (Football Reunion Day)	• Nov. 27 — South Carolina (Solid Orange Day)

**Fan Appreciation Day is Sunday, Aug. 22.**



# So that we never forget

*Consider these and many more Clemson heroes.*

by Karen Solomons '10 Photos by Patrick Wright

In Vietnam, on February 16, 1967, Douglas MacArthur McCrary '65 and his platoon came under intensive enemy fire. Noticing a fellow soldier lying wounded nearby, he tossed a smoke grenade to camouflage his next movements, running through insurgent bullets to help the hurt man. But as he pulled the man to safety, the smoke dissolved, and McCrary was fatally wounded.

Clemson classmates Henry Leitner '37, Otis Morgan '38 and Ben Skardon '38 survived the Bataan Death March in 1942 and supported each other through their horrific ordeal in Japanese slave labor camps. Skardon owes his life to Leitner and Morgan, who nursed him when he fell seriously ill. In 1945, Morgan died onboard a Japanese hell ship, and Leitner died in a POW camp in Japan.

Rudy Anderson '48 was the sole casualty of the Cuban Missile Crisis in 1962. Considered one of the best U-2 pilots in the Air Force, Anderson was recommended for an aerial reconnaissance mission to gather photographic evidence of Soviet weapons stockpiles. His plane was shot down over the eastern end of Cuba.

**Stories like these remind us that our freedom truly isn't free. But while we mourn the loss of our fallen servicemen, the Clemson Corps is working to ensure that their stories live on.**

On April 22, 2010, the Scroll of Honor Memorial was dedicated in honor of Clemson alumni who have made the ultimate sacrifice in service to our country. It is the new landmark that will hold the legends of these heroes.

The Scroll of Honor, a list of the 468 alumni who have died in active military service, was the inspiration for this project. In 2002, as the Athletic Department and the Clemson Corps planned a major activity for the University's Military Appreciation Day, leaders decided that Clemson should find a more concrete way to recognize alumni who had died in service to country. Retired Army Col. Danny Rhodes '68 and retired Army Maj. Dawson Luke '56, M '80 took the initiative to collect names from official listings, as well as from families and friends, of those who had died from World War I to the present conflicts.



For more on the Scroll of Honor, go to [cualumni.clemson.edu/scrolllofthonor](http://cualumni.clemson.edu/scrolllofthonor).

As the list grew, the need for a permanent site became more apparent. The Clemson Corps considered various places on campus, but one space in particular stood out. Rhodes remembers the decision. "As we considered various sites on campus, we learned that in 1942, as the new stadium was being built, the administration had selected the name 'Memorial Stadium' to honor those alumni who had made the ultimate sacrifice. What better location for this memorial than a site adjacent to the stadium?"

Sculptors T.J. Dixon and Jim Nelson from San Diego, Calif., with Clemson's chief landscape architect Barry Anderson, developed a concept for the memorial: a barrow encircled by rocks engraved with the names of the fallen, surrounded by trees and benches to provide spots for quiet reflection. Two massive tiger sculptures will guard the entry plaza. Luke says that even though it's located near the most visited spot on campus, the memorial's simple, intimate design allows it to be "a chapel for family, friends and classmates of the fallen."

Work began in April 2009, and the barrow and entry plaza have been completed. The final phase of construction, connecting the memorial across Williamson Road to the East Gate of Memorial Stadium, will be completed next year.

The Scroll of Honor Memorial has taken on another form as well — a Web site dedicated to the heroes with a separate page for each, describing their time at Clemson and their military service. Retired Air Force Brig. Gen. C.R. "Hap" Carr '60 says, "This Web site is a living memorial where family and friends can post remembrances."

Carr, project co-chairman, also calls this a truly "One Clemson" effort, with support from administration, alumni, students, athletics and IPTAY. But the focus of the memorial remains on the fallen.

Rhodes says, "The memorial will be many things to many people. It has been designed to provide visitors a place to remember these alumni as they were when they were young students; as soldiers anxious to serve their country; as husbands, fathers, sons and cousins whom they loved and looked to for inspiration. **It will be a place for solitude, and yet a place for rejoicing in the lives and contributions of these heroes.**"

President Jim Barker says, "No other project on campus better represents what Clemson is all about than the Scroll of Honor Memorial."

In the April 7, 1944, edition of *The Tiger*, student Roy Pearce wrote of those who had died, "All were great men and we'll never let them down, never!" Sixty-six years later, the Scroll of Honor Memorial ensures that Clemson stands true to this commitment. 🌐



## Proudly serving

As a land-grant college established under the Morrill Act, Clemson students were required to participate in military service until 1955 when the college was granted civilian status and became a coeducational institution. ROTC remained a voluntary part of Clemson education, but enrollment steadily declined until the late 1990s, when the U.S. Army and Air Force threatened to disband the program at Clemson.

Then-president Deno Curris and retired Army Lt. Gen. Gene Blackwell '63 resolved to find a way to carry on the University's tradition of military service. The solution was found in the Clemson Corps, an official alumni constituency group chartered for the purpose of continuing the University's ROTC programs and armed services legacy.

The Corps has successfully achieved its mission of increasing enrollment in ROTC by generating scholarships and developing opportunities to commemorate the military history of Clemson.

For more on the Clemson Corps, go to [cualumni.clemson.edu/clemsoncorps](http://cualumni.clemson.edu/clemsoncorps).





Coach Penley (left) reacts as Lucas Glover holds rendering of new golf facility.

### Former Tigers support Penley Golf Facility

Clemson will name its new golf building for current Tiger golf coach Larry Penley. Through the annual Tiger Golf Gathering tournament and donations by former Clemson golfers, including Lucas Glover, Charles Warren and Jonathan Byrd, more than \$750,000 has been raised in private donations to build the Larry J. Penley Jr. Golf Facility. These gifts, in addition to major funding from IPTAY, are making the much-needed facility possible.

The three-story, 6,600-square-foot building will be located behind the golf team's driving range at the Bobby Robinson Golf Practice Facility. It will provide space for Clemson's nationally respected golf team and will include meeting rooms, offices, a repair shop, a service kitchen and locker rooms.

**"The Larry J. Penley Jr. Golf Facility will not only be a great addition to our athletic facilities,"** says Bill D'Andrea, senior associate athletic director for external affairs, **"it will also demonstrate the leadership, financial support and commitment our former golfers have made to the program."**

Penley was himself an outstanding Clemson golfer, earning a degree in parks, recreation and tourism management in 1983 and the S.C. Amateur Champion in 1987 and 1988. All 26 of his previous Clemson teams have been selected to the NCAA regional tournament, and 23 have advanced to the national tournament. In the last 13 years, Clemson has had nine top-10 national finishes, more than any other school in the nation.

In 2003, he led the Tiger golf team to its first national championship. The same year he was named the Dave Williams National Coach of the Year and the *Golfweek* National Coach of the Year.

For more about the project and how to support it, contact Joe White at 864-656-3945 or [jwhite@clemson.edu](mailto:jwhite@clemson.edu).

### Student Alumni give back

The Student Alumni Association (SAA), a student organization established by the Clemson Alumni Association, is a volunteer, open-membership organization under the leadership of the Student Alumni Council (SAC). Together, these dedicated student organizations promote interaction among students, alumni, faculty and the community.

**And they give back to the University. The SAC recently contributed more than \$40,000 to the SAC Scholarship Endowment, funds they raised during Clemson's annual Welcome Back Festivals. The SAA contributed more than \$6,000 to the Clemson Libraries and \$5,000 to the Scroll of Honor Memorial, all from gifts designated by members.**



SAA President Rhett Ricard (far right) presents check for SAC Endowment Scholarship to Brian O'Rourke and Hack Trammell of the Clemson University Foundation.

### Gift of healing

Anonymous donors have invested \$250,000 to fund a new lab in the Clemson University Biomedical and Bioengineering Translational Research Facility at the Greenville Hospital System University Medical Center Patewood campus.

**The investment establishes the Frank H. Stelling and C. Dayton Riddle Orthopaedic Education and Research Laboratory Endowment. The research will help develop high-impact medical technology and devices for disease management to be transferred from the laboratory to bedside.**

Stelling and Riddle share a rich history in Greenville orthopaedics. The late Stelling was an acclaimed orthopaedic surgeon and teacher, especially in children's orthopaedics. Riddle is a revered orthopaedic surgeon and educator. Both men served as leaders at Shriners Hospital in Greenville.

Their legacy is well served through the dedication of the state-of-the-art Clemson laboratory committed to translating basic science into better orthopaedic care.

The Clemson University Biomedical and Bioengineering Translational Research Program focuses on cardiovascular science and engineering and orthopaedic biomaterials and biomechanics. For more information, contact Martine LaBerge, bioengineering professor and department chair, at [laberge@clemson.edu](mailto:laberge@clemson.edu).

### Zest Quest for healthier children

The Cliffs Communities and its foundations, led by founder and CEO Jim Anthony, have made a \$3 million pledge and given to Clemson all rights to Zest Quest — a program aimed at improving the health and wellness of schoolchildren across the Carolinas. The Youth Learning Institute, a unit of Clemson Public Service Activities based in Pickens, will manage the program.

Created by Anthony in 2004, Zest Quest employs and assigns full-time wellness coaches to work at partnering schools. The coaches educate and encourage children, teachers and their families to develop "healthy choice" lifestyles by adopting better diet and exercise habits. Zest Quest now serves 5,500 students in 12 elementary schools.

**"These are exciting days as we take the Zest Quest program to new heights, striving to reach the goal of raising more health-conscious, vibrant young people who have the prospect of living longer, better lives,"** says Anthony. **"The Youth Learning Institute's passion for kids and its statewide influence and operational**

**channels in every county make it not only a logical choice, but the right choice to take the program to the next level."**

Zest Quest is the official curriculum for the Youth Learning



Institute (YLI) to use as part of the federal Supplemental Nutrition Assistance Program's nutrition education initiative (SNAP-Ed) offered under the auspices of the S.C. Department of Social Services. The institute also will partner with the state departments of education and health and environmental control and use such public service networks as the state 4-H program and Clemson's Expanded Food and Nutrition Education Program to serve students in Title I schools across the state.

"The 2010 SNAP-Ed Plan gives South Carolina the potential to draw down over \$2 million for nutrition education services for eligible children and families. It also gives us the chance to make Zest Quest available to thousands more children across the state this year," says Jorge Calzadilla, YLI's executive director.



### Prince Scholars

Clemson students who are recipients of scholarships sponsored by or named for Clemson President Emeritus Phil Prince '49 gathered with him at the President's Box in Memorial Stadium. The Alumni Association named an unrestricted scholarship program in 1999 to honor Prince for his service as the 12th president of the University. An endowment set up by Phil and Celeste Prince also generates scholarships. For the 2009-2010 academic year, 176 scholarships in the Prince name total \$142,000.

### Abney Scholars

Clemson students who receive the Abney Scholarship met Abney Foundation trustees in an event earlier this year to thank the Abney Foundation for its 35 years of University support. Since 1975, Clemson has awarded 2,888 Abney Foundation Scholarships totaling almost \$4 million in much-needed assistance. Last year alone, more than \$130,000 in scholarships was awarded to 61 students, all South Carolina residents.





I grew up in Seneca, where much of our day-to-day life was affected by Clemson, whether it was a football weekend or a flyover marking a military celebration or some other big event on campus.

Following in my older brother's footsteps, I knew I wanted to attend Clemson. But I didn't really know what I wanted to do as a career. That is, until I heard an energetic instructor, Col. Sandy Edge, talk about the benefits of the Air Force experience to a psychology class.

I was hooked. I immediately signed up and started the Air Force ROTC program in the first semester of

my junior year. I graduated in 2003 with a degree in technology and human resource development and received a commission from the U.S. Air Force as 2nd Lieutenant.

My first three years of active duty were at the Charleston Air Force Base. Soon after, I got the opportunity to return to Clemson and join the faculty. Teaching at Clemson was amazing – working with the University leadership and seeing just how much everyone wants Clemson to succeed.

Along with my teaching and service duties, I was adviser for the nationally recognized honorary service organization Arnold Air Society, where I supervised cadets in leadership and service projects. Last year, I was honored to be named the No. 1 Commandant of Cadets for Air Force ROTC.

While I take great pride in this national honor, I'm prouder still that it comes to Clemson's program where I gained so much as a student. Clemson prides itself on giving back to the community, the state and the country, and I'm forever grateful to be part of such a wonderful tradition.

*I'm Justin Long and this is My Clemson.*

Long is currently serving overseas at Lajes Air Base, Azores, Portugal, as the 65th Air Base Wing protocol officer.

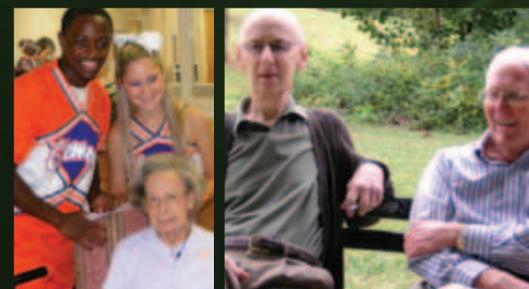
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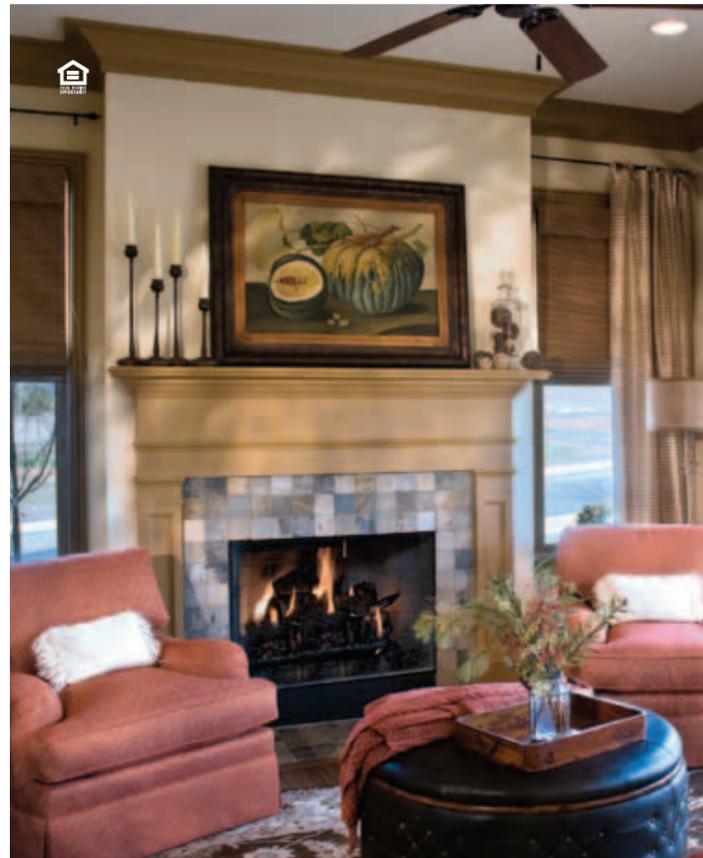
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