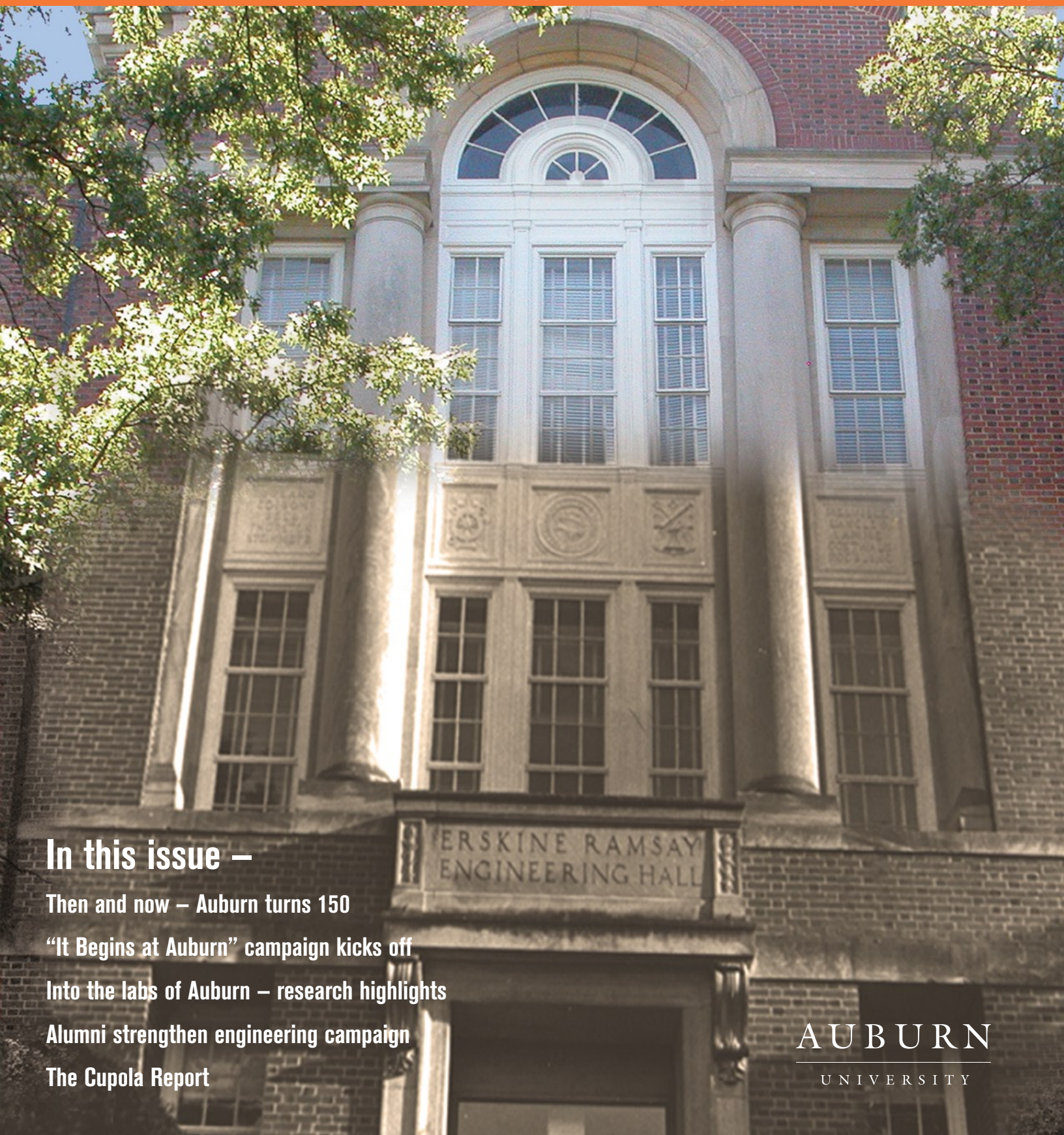
Spring 2006 Volume 16 Issue 1

AUBURN ENGINEERING

samuel ginn college of engineering



In this issue –

Then and now – Auburn turns 150

"It Begins at Auburn" campaign kicks off

Into the labs of Auburn – research highlights

Alumni strengthen engineering campaign

The Cupola Report

AUBURN
UNIVERSITY

Junior Class Electrical and Mechanical Engineering 1904

CONTENTS

Auburn Engineering

Spring 2006
Volume 16 Issue 1

Office of the Dean
Larry Benefield, dean
Nels Madsen, associate dean for assessment
Joe Morgan, associate dean for academics
Ralph Zee, associate dean for research
William Sauser, associate dean for business and engineering continuing education

Office of Engineering Communications and Marketing
Auburn University
108 Ramsay Hall
Auburn, AL 36849
334.844.2308
334.844.0176 fax

Jim Killian, director
Karen Nesbitt, editor
Katie Yester, graphic designer

Contributors
Cheryl Cobb
Beth Smith

Office of Engineering Development
Auburn University
107 Ramsay Hall
Auburn, AL 36849
334.844.2736
334.844.5904 fax

Rob Wellbaum, director
Dan Bush, associate director
Veronica Chesnut, assistant director
Ron Evans, associate director
Dara Kloss, associate director

www.eng.auburn.edu

Experience *Auburn Engineering* magazine online at www.eng.auburn.edu/admin/marketing/engineering.html

Auburn Engineering is published twice yearly by the Samuel Ginn College of Engineering. Please send news items, suggestions and comments to editor@eng.auburn.edu.

Sesquicentennial
Auburn University celebrates 150 years 2

"It Begins at Auburn" university campaign announced 2

The Engineering Campaign
The four components of our goal 3

From the Dean 6

The Power of New Ideas
Into the labs of Auburn 8

Scholarship
Students take flight through scholarships 12

Professorship
Faculty excel with donor support 14

Meet Your Team
The faces of Engineering Development 16

Leading the Way
Alumni Campaign Leadership Team 18

Giving Back to Auburn
Ways to give 20

Hall of Fame
Auburn engineers inducted 22

The Cupola Report
A recognition of generosity 23

Contents

Sesquicentennial

University Campaign

Auburn University Celebrates 150 Years

On February 1, Auburn University kicked off a year-long celebration of its sesquicentennial with three special parties – a formal founder's day ceremony, a kick-off gala for the "It Begins at Auburn" campaign, and an AU birthday bash and city block party that included a historical walking tour of campus, carnival games, music, displays, fireworks and the rolling of Toomer's Corner.

"We were very pleased with the turnout for all off the founder's week events," says Deedie Dowdle, co-chairman of the sesquicentennial committee that is comprised of representatives from around the campus. "Although the weather was cold and blustery, the community turned out in force for the block party. The historical tour was so popular we hope to do it again later in the year."

Chartered in 1856, the university opened in 1859 and became affiliated with the Methodist Church. Over the years, the institution has had four official names: East Alabama Male College (1856-72), Agricultural and Mechanical College of Alabama (1872-99), Alabama Polytechnic Institute (1889-1960), and since 1960, Auburn University.

Accounts since the 19th century show that, regardless of the official name, the state's land-grant university has always been known as "Auburn," a name taken by the Lee County community from the line in Oliver Goldsmith's poem "The Deserted Village": "Sweet Auburn, loveliest village of the plain."

During the past 150 years, Auburn University has grown to be one of the top universities in the country and the City of Auburn a vibrant, fast-growing community. According to Dowdle, the sesquicentennial committee has developed a long list of events to celebrate the sesquicentennial, including the year-long lecture series "Auburn Through the Years" commemorating the university's storied history. Held in the Special Collections section of the Ralph B. Draughon Library, the series is an opportunity for alumni and friends to share memories about the state's largest and eldest land-grant institution.

To learn more about Auburn's history, upcoming lectures and the many other special events planned in celebrating Auburn's achievements in academics, research and outreach, please visit www.auburn.edu/communications_marketing/150.

It Begins at Auburn

On February 3, Auburn University publicly launched the largest fundraising effort in school history with the announcement of the $500 million "It Begins at Auburn" campaign and the announcement that Auburn has already raised $332.4 million, or 66 percent, of its campaign goal.

"As we look back during this Sesquicentennial year on all we have accomplished, it seems fitting to also look toward the future with this campaign," says Ed Richardson, interim president. "With the momentum we have from last year's record fundraising year and the enthusiasm of alumni, faculty and staff, I expect this campaign to be a tremendous success."

The campaign encompasses all colleges and schools on campus as well as the library, athletics, Auburn University at Montgomery and the fine arts museum. Endowments for students, faculty, programs and unrestricted dollars make up 58 percent of the campaign goal.

Benefiting the university community in perpetuity, endowment gifts are invested to generate a steady stream of income for purposes including professorships, scholarships, fellowships, lectureships and book funds. Donors may also create unrestricted endowments, which produce resources that can be used where the need is greatest.

"Endowments are vital to the future of any university," says Samuel Ginn, Auburn Engineering alumnus, university trustee, and campaign co-chair. "They are what sustain the university in the long-term."

The remaining 42 percent of the campaign goal is targeted toward research, current operations, facilities, equipment, and campus beautification.

The Engineering Campaign

As part of the "It Begins at Auburn" campaign, the College of Engineering has set ambitious goals designed to move our instructional and research programs to new levels of excellence. These goals, which focus on the following four areas, reflect fundraising efforts that will assist the college in achieving the benchmarks associated with a top engineering program.

Facilities —

Campaign goal — $5,000,000
Campaign progress — $3,402,705
Vision goal — $18,500,000
Vision progress — $3,402,705

As the college's reputation grows, so must its ability to create the finest learning and teaching environment. Outstanding faculty and students depend on the most advanced facilities, and the college is committed to providing state-of-the-art buildings, laboratories and equipment.

The college has developed a strategic facility enhancement plan that includes the renovation of Wilmore Labs and Ross Hall, as well as the construction of the new Transportation Technology Center (TTC). As the cornerstone of this strategic plan, the TTC will provide the facilities necessary to advance the college through state-of-the-art instruction and leading research.

This modern and innovative complex will enable the college to attract top researchers and students from around the world, enhance its instructional programs, and expand its reputation as a major research institution. Our $18.5 million goal for facilities will help us establish an educational environment reflective of an elite engineering institution.

Transportation Technology Center

Ross Hall Renovation

Student Support

Campaign goal — $21,600,000
Campaign progress — $15,091,170
Vision goal — $40,000,000
Vision progress — $18,304,920

Students are the heart of Auburn Engineering. As we work to recruit the brightest students, we must build a scholarship and fellowship endowment that enables us to compete with other prestigious institutions. Our $40 million campaign goal in this area includes $20 million for undergraduate scholarship support and $20 million for graduate student fellowships. Achieving this goal will enable the college to attract students who bring intellectual capability and leadership to our campus.

The goal to increase scholarship endowments also includes a vision for enhancing our ability to recruit National Merit Scholars – men and women who are highly recruited by universities seeking to build the caliber and reputation of their student body. These endowments provide a reliable source of funding and significantly enhance our ability to recruit and retain the nation's top students.

Faculty Support

Campaign goal — $50,000,000
Campaign progress — $5,640,970
Vision goal — $50,000,000
Vision progress — $6,540,971

Our engineering faculty are committed to providing students with quality instruction and hands-on engineering experiences. They drive knowledge, develop innovative technology and, most importantly, equip the men and women who will become tomorrow's leaders.

A major priority of the campaign is to strengthen our resources to recruit and retain leading engineering faculty and researchers with demonstrated academic achievement. It is essential that the college increase its endowments for faculty support by $50 million during this campaign. These endowments provide a reliable source of funding for salary enhancements, research support, technological needs and professional development for faculty who have established themselves as leaders in their fields. Current goals for faculty enhancement include:

4 Named Endowed Presidential Chairs – $6,000,000 each
6 Named Endowed Eminent Scholar Chairs – $2,000,000 each
8 Named Endowed Distinguished Professorships – $1,000,000 each
20 Named Endowed Professorships – $300,000 each

Programmatic Support

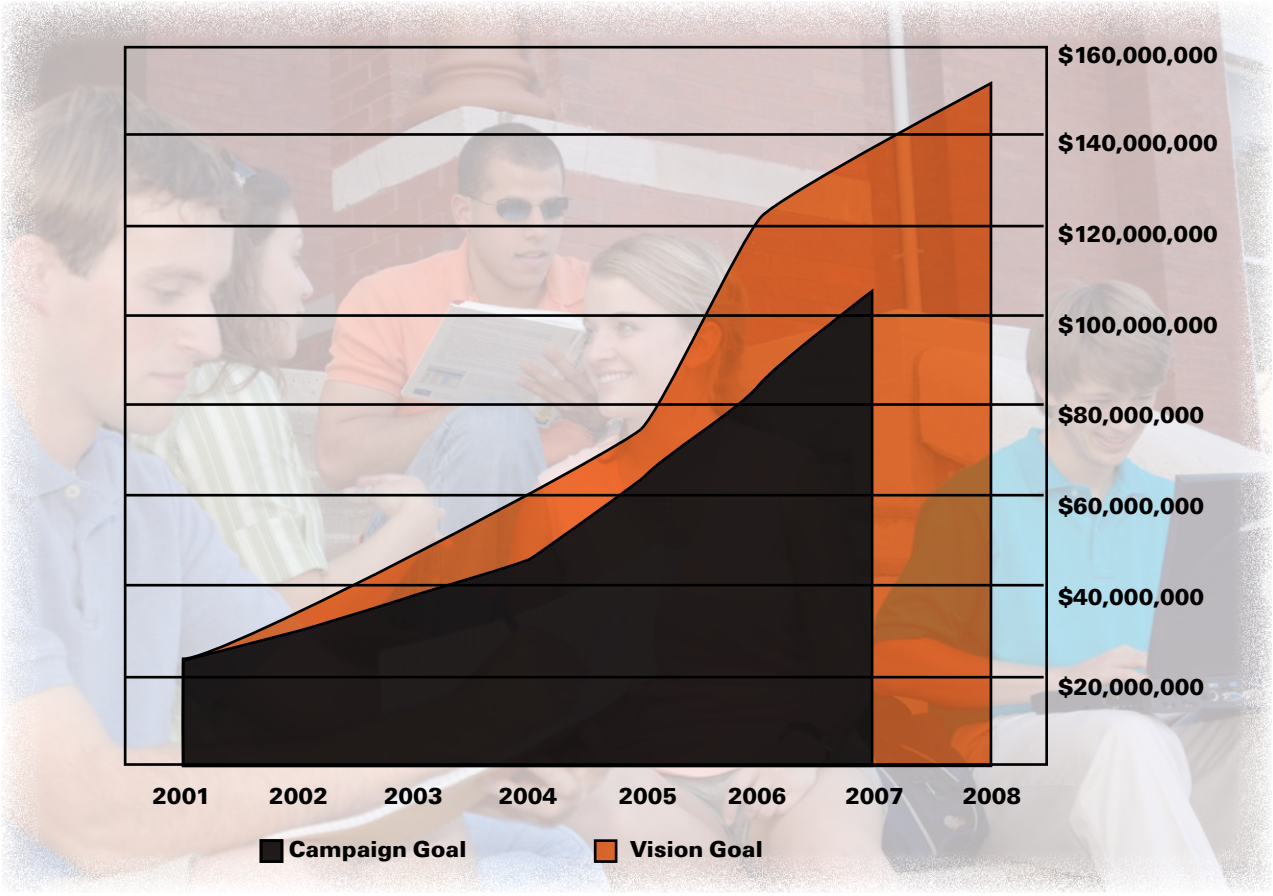
Campaign goal — $28,400,000
Campaign progress — $39,011,577
Vision goal — $45,000,000
Vision progress — $43,201,577

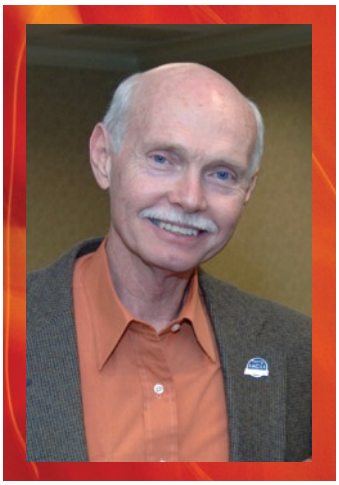
A solid, well-rounded education occurs both inside and outside of the classroom. Contributions to support program enhancement are critical to the college's ability to offer innovative educational opportunities that may not be anticipated as part of the regular budget. These funds, often in the form of unrestricted gifts, provide valuable resources for sustaining and enhancing creative programs in which students and faculty thrive.

The college's goal of $45 million for endowed program support will provide approximately $2.25 million annually for program enhancement, student support, student projects and competition teams, study abroad initiatives, faculty research and development, technology upgrades and start-up support for emerging opportunities.

A strong endowment that supports the college's programs will be especially effective in helping to uphold those programs that mark Auburn Engineering as a program of distinction.

Year-End Campaign Progress





It Begins at Auburn

I'm going to tell you what I mean by that, but first I would like to say a few things about our college. *Your college.*

Our students. They work hard and have fun, and many have been involved in all types of student competitions. They represent Auburn Engineering extremely well. Our faculty and staff strive to provide the best instructional and research program possible for them. A look at our Web site at www.eng.auburn.edu illustrates some of their incredible accomplishments.

Our alumni. You transcend the workplace – many of you have achieved top management positions or have become technical experts in your field. Or you look to become one, because you have just begun your career with all of the potential it holds as you seek to fulfill your vision.

We have a vision as well, for our college to be viewed as one of the top engineering programs in the nation. To make this happen, we have to put a lot of work into enhancing the quality of our facilities as well as providing incentives through scholarships, fellowships and professorships to recruit top students and faculty.

It is easy to look at such a daunting task and say that it is just a dream that can never happen. Under different circumstances I might agree with you, but not now. Now, the college has an opportunity to make this dream come true. I want you to hear me out on this, because this is a once-in-a-lifetime opportunity . . . and we need your help if we are to take advantage of the situation that lies before us. Four events have created this unique opportunity:

- In 1999 the university started a budget reallocation process which allowed the college to hire 22 additional faculty. A second component of this program provided $10 million to begin the Ross Hall renovation project.
- In 2001 Samuel Ginn made a gift of $25 million to the college. This allowed us to hire two additional faculty and establish the first wireless engineering degree program in the nation.
- In 2003 and through last year, Sen. Richard Shelby directed $65 million to Auburn to be used for the construction of the Transportation Technology Center, a huge, $108 million, five-building facility that will be used for a wide variety of purposes.
- In 2006, on February 3, the university entered the public phase of a $500 million capital campaign. At the time of its announcement, more than 60 percent of the $500 million goal had been met, including $63 million of Auburn Engineering's $105 million component.

Our vision goal – what we believe is going to be required to position the college to move into the top 20 rankings – is to raise $153.5 million. This includes $18.5 million for facilities; $50 million for faculty endowments; $40 million to endow scholarships and fellowships, and $45 million for an endowment for excellence to provide the college the flexibility to pursue emerging opportunities and initiatives, to support student programs and projects, and to further enhance existing programs. It all comes down to one thing: to be competitive with our peers, who are working hard to increase their rankings as well.

We want the best faculty. We want the best students. And we want to give them the facilities they deserve – *the facilities that the best will insist on* – or we will never attract them to Auburn.

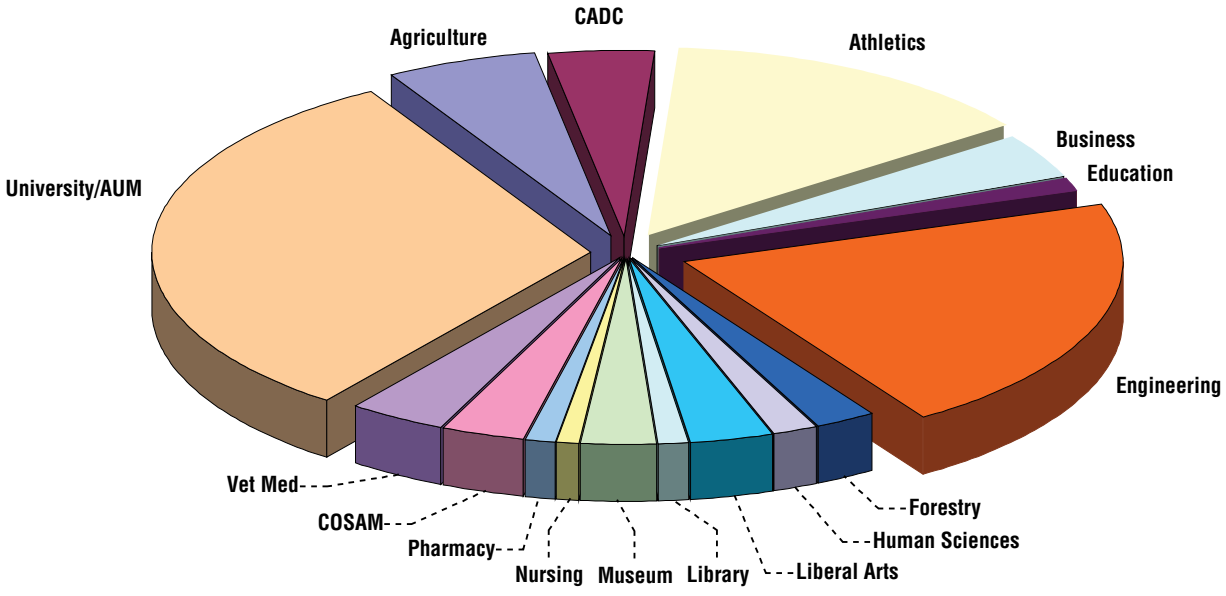
We have an outstanding College of Engineering but we want to be better; to aspire to greatness. The foundation is in place and the structure is taking shape. We need your help if the task is to be completed; we need your help if we are to take advantage of this opportunity. And, we need your help or at the end of this campaign all we will be able to do is look back and think of what might have been.

Our careers have hinged on our Auburn degrees – credentials that have been instrumental not only in defining our life journey, but in building our communities and forging the strength of our nation. I want the next generation of student engineers to have the same opportunity; to bring the best and brightest to Auburn will require the kinds of resources only you can provide.

I urge you to give strong consideration to investing in the future of your college during the course of this campaign. Please contribute now, because with everyone working together, we can do this. Together, we can make the dream come true.

How Engineering Compares

Constituency	Goal	Gifts & Commitments 12/31/05	%	Vision	Gifts & Commitments 12/31/05	%
Agriculture	$27,700,000	$20,464,561	74%	$35,700,000	$20,464,561	57%
CADC	$20,000,000	$11,640,517	58%	$20,000,000	$11,640,517	58%
Athletics	$68,400,000	$78,933,887	115%	$90,000,000	$78,933,887	88%
Business	$19,400,000	$13,666,345	70%			
Education	$5,750,000	$8,743,536	152%	$10,000,000	$8,743,536	87%
Engineering	**$105,000,000**	**$63,146,423**	**60%**	**$153,500,000**	**$63,146,423**	**41%**
Forestry	$11,150,000	$9,385,659	84%	$15,000,000	$9,385,659	63%
Human Sciences	$8,200,000	$4,302,532	52%			
Liberal Arts	$15,000,000	$9,124,391	61%			
Library	$5,000,000	$2,408,500	48%			
Museum	$15,000,000	$22,234,391	148%	$25,000,000	$22,234,391	89%
Nursing	$3,000,000	$1,498,040	50%			
Pharmacy	$6,000,000	$10,507,292	175%	$22,350,000	$10,507,292	47%
COSAM	$16,000,000	$7,826,129	49%			
Vet Med	$17,000,000	$13,845,217	81%	$25,000,000	$13,845,217	55%
University/AUM	$157,400,000	$54,744,601	35%			
TOTAL	$500,000,000	$332,472,021	66%	$396,550,000	$238,901,483	60%

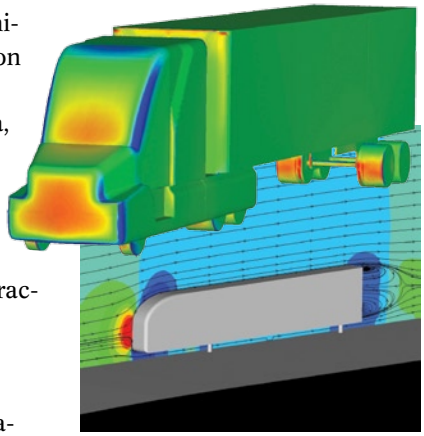


Research continues to be an increasingly important component of the Samuel Ginn College of Engineering's mission. As we seek to move into the top ranks of engineering institutions across the nation, contributions from alumni, friends and our corporate institutional partners help to initiate and continue research projects like these, that serve to advance the field of engineering and benefit our state, region and nation.

Aerospace

— improving fuel efficiency through aerodynamics

As part of Auburn University's Transportation "Peak of Excellence" primary research area, the Department of Aerospace Engineering is working to apply aerospace engineering tools to tractor-trailer aerodynamics.



Auburn aerospace engineering research reveals pressure contours in the symmetry plane of a simplified tractor-trailer geometry, with red denoting regions of high pressure and blue, regions of low pressure. The arrows illustrate streamlines and the extent of flow separation in the time-averaged trailer wake. At left are pressure contours on the surface of a more realistic tractor-trailer geometry.

As the primary mechanism for transporting goods across Alabama and the nation, the more than two million tractor-trailers operating on U.S. highways consume approximately 26 billion gallons of diesel fuel each year. At typical highway speeds, the majority of this fuel consumption goes toward overcoming aerodynamic drag. Even modest improvements to aerodynamic efficiency can reduce U.S. fuel consumption by billions of gallons per year.

Under a $248,000 grant from the U.S. Department of Transportation, Auburn aerospace engineering researchers are developing a framework for reducing the aerodynamic drag and increasing the highway safety of tractor-trailers. This framework incorporates computational fluid dynamics simulations, experimental wind tunnel testing, and aerodynamic optimization and is being developed in partnership with Digital Fusion, Inc. in Huntsville.

Biosystems

— capturing data through GPS innovation

New global positioning system (GPS) technology pioneered by biosystems engineers is being used to monitor manual agricultural and forest operations.

GPS-based dataloggers developed by Auburn biosystems engineers are being used to monitor productivity and improve the efficiency of herbicide application in Alabama forests.

Tiny GPS-assisted sensor and datalogging platforms developed at Auburn are being used on backpack sprayers and tree planting tools to record both time and location of work performed. This data assures landowners they are getting what they pay for and helps safeguard employees through an accurate record of work performed.

Chemical

— revolutionizing medication distribution to the eye

Auburn chemical engineering researchers have developed contact lenses that release medication at a constant rate for extended periods up to one week. The department says the sustained release will reduce side effects and lead to more efficient and effective delivery to the patient, and is a major improvement over conventional topical ocular medications such as eye drops and ointments that typically require multiple doses a day, often in high concentrations.

According to the department, the concept of releasing medication for extended periods of time from soft contact lenses is predicted within one of the first patents in the field issued in 1965, but the notion has not become a com-

Mark Byrne of the chemical engineering faculty is leading a team of researchers that has developed contact lenses that release medication to the eye. Compared to conventional medications, the department says the sustained release will reduce side effects and lead to more efficient and effective delivery to the patient.

mercial reality due to the inability to load a therapeutic amount of medication and release it in a controllable way. Of major importance in this work is the study of biology and biological processes to rationally engineer the design of the lens.

The Auburn team is applying the technology in therapeutic areas including antihistamines, antibiotics, anti-inflammatories, wound healing agents, drugs for various anterior and posterior eye diseases, and molecules such as lubricants and wetting agents to increase user comfort.

Civil

— helping to improve concrete technology

Conventional concrete drilled shafts commonly used as foundation for bridges and buildings contain course aggregates that may lead to segregation in concrete on either side of the shaft's reinforcing bars (bottom). Researchers in Auburn civil engineering have developed Self-Consolidating Concrete (SCC) that should minimize problems associated with shaft construction. Using color-dyed concrete in various locations in a shaft made with SCC (top) helps researchers assess flow patterns and behavior of the concrete.

Researchers in Auburn's Department of Civil Engineering have developed innovative drilled shaft concrete mixtures called Self-Consolidating Concrete (SCC) that, due to inherent workability, passing ability, resistance to segregation, and reduced bleeding can be designed to address problems associated with the construction of drilled shafts commonly used as foundation for bridges and buildings.

As part of a Federal Highway Administration program for implementing new technology, Auburn worked on an experimental project in which drilled shafts were constructed using both SCC and a more conventional concrete mixture. The SCC mixture performed very well under construction conditions that are very challenging for concrete placement.

Based on the outcome of this research, six piers for one of the bridges at the project have been constructed with SCC, and it was concluded that this new type of concrete is feasible for use in congested drilled shaft applications and should minimize some of the problems associated with drilled shaft construction.

Computer science and software

— exploring pervasive computing

Through a National Science Foundation-sponsored Research Experience for Undergraduates project, the Department of Computer Science and Software Engineering is helping to advance pervasive and mobile computing, which means using computers in our everyday lives without realizing it.

Having participated in the project for three years and recently receiving a three-year extension, during the next three summers the department will host approximately 10 outstanding undergraduate students from around the nation for 10-week internships in which they will perform research under the guidance of CSSE faculty.

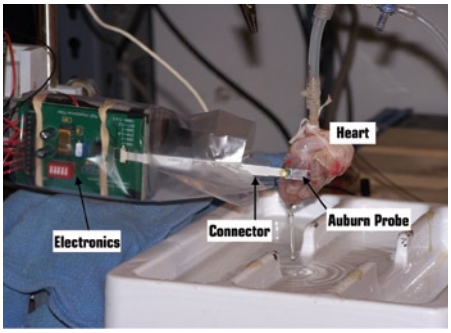
The project's major objectives are to promote interest in pervasive and mobile computing and develop interns' research skills as they provide new perspective, collaborate in the development of this technology, propose new applications and explore new capabilities.

Electrical and computer

— working toward the precision of heart measurement

Partnering with the Cardiac Research Group at the University of Alabama at Birmingham under a National Institute of Health contract, Auburn researchers are developing miniature electrical biomedical probes to measure the surface conductance of the heart. Involving technology to help understand the relationship between cell-cell conductance and heart muscle health, the research could also lead to earlier detection of cardiac failure.

The technology has allowed UAB researchers to accurately measure conductance through precisely spaced probes patterned on silicon substrates using advanced microelectronic processing. The probes, and the electronics used to amplify



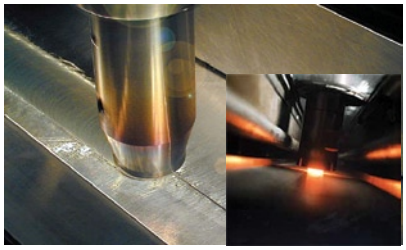
A silicon probe, associated connector and printed circuit board are sutured to an actively beating heart. Auburn electrical and computer engineering researchers are helping to develop and refine these miniature electrical probes in an effort toward more precise measurement of the surface conductance of the heart, research that could lead to earlier detection of cardiac failure.

and filter the extremely small signals, were designed and fabricated by students supervised by the director of Auburn's Alabama Microelectronics Science and Technology Center microelectronics laboratory, housed in the Department of Electrical and Computer Engineering.

Auburn researchers' latest refinement is glass probes containing vacuum ports that allow a suction connection instead of the time consuming and heart-damaging suture procedure. Enabling many additional measurements per heart, the glass/vacuum technology will allow researchers to quickly reposition and view exact placement of the probes, as there is a limited time the heart will function after extraction.

Industrial and systems

— advancing the evolution of the welding process



As this friction stir welding tool rotates, its five-eighths-inch shoulder softens two metal pieces with friction heat, while beneath the surface the tool's quarter-inch probe stirs the metals together. Researchers in Auburn's Department of Industrial and Systems Engineering are studying this new welding process through a grant from the National Space Science and Technology Center.

Friction Stir Welding (FSW) is a relatively new industrial process that produces superior weld products in difficult to weld materials. Through a grant from the National Space Science and Technology Center (NSSTC), researchers in Auburn industrial and systems engineering will study FSW, whose benefits include producing no toxic fumes or solid waste and reducing noise pollution.

Invented at The Weld Institute in the United Kingdom and patented in 1992 under research partly funded by NASA, FSW entails placing two materials in an overlapping or butt joint fashion. Rotating at a high speed, a broad tool with a narrow pin on the end is inserted into the materials until the tool's wider "shoulder" makes contact with them. The tool then begins a traverse of the weld seam, deforming the material in its path and leaving behind a formed weld, during which the material does not melt.

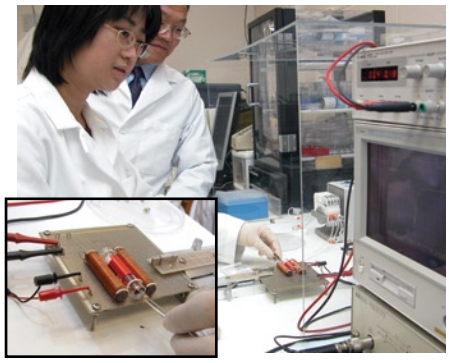
Auburn industrial and systems engineering students monitor the surface temperature (340 degrees Celsius) near the Friction Stir Welding tool during a 6061-T6 full penetration weld, while a third student runs the HAAS TM-2 mill during the weld.

Last year, Auburn University produced its first successful solid state FSW on its new mill, and an industrial and systems engineering graduate student designed and produced the first tools on the department's new lathe. The mill and part of the lathe were financed through the NSSTC grant, entitled "Metal Cutting Theory and Friction Stir Welding/Forming Initiatives at Auburn University for General Industry and Space Propulsion."

FSW is common in the aerospace industry and is being studied with increasing interest by the marine and automotive manufacturing industries. Auburn and the NSSTC hope to expand its use to all segments of the transportation industry.

Materials

— raising the bar on health quality standards



Faculty and graduate student researchers in Auburn materials engineering monitor the test of a magnetostrictive microcantilever biosensor, which they are studying in an effort to detect water-borne E. coli.

Researchers in Auburn materials engineering are working with the Water Resources Council on a joint grant to study the detection of water-borne E. coli using a novel biosensor. According to materials engineering faculty, the Environmental Protection Agency recommends E. coli as the best indicator of health quality standards, and by observing them the increase or decrease of many pathogenic bacteria can be estimated.

Although methods exist for identification of E. coli and many microbial strains in water, determination of the numbers of microbes in a sample remains a challenge when the microbes are at relatively low cell counts. The new technology is based on the magnetostrictive particle (MSP) as a sensor platform and an antibody as a receptor. The receptor captures target bacteria, resulting in a change in the resonance frequency of a wireless MSP sensor, a change that can be remotely or wirelessly determined.

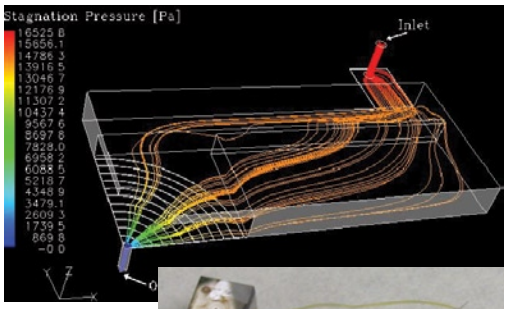
The department says current technologies recommended by the EPA for determining the concentration of E. coli in water require more than 24 hours to test, and samples must be delivered to a lab for testing of the live culture within six hours of collection. But in addition to advantages including high sensitivity and low cost, the new technology would allow field testing within minutes.

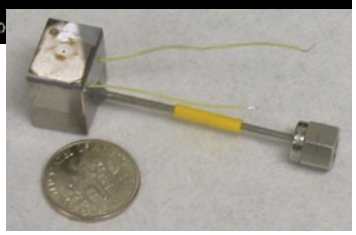
Mechanical

— helping NASA improve valve performance

Continuing a three-year collaboration with the MEMS Technology Group at NASA's Jet Propulsion Laboratory, Auburn mechanical engineering is researching modeling of the complicated fluid flow within both gaseous and liquid microvalves.

In addition to micropropulsion applications, this class of piezoelectrically-actuated microvalves can have a number of other commercial applications, including DNA analysis, miniature drug dosing systems, lab-on-a-chip and total micro-analysis, precision gas and chemical flow control for semiconductor manufacturing, precision dispensing, micro fuel cells, and micro coolers for electronics.

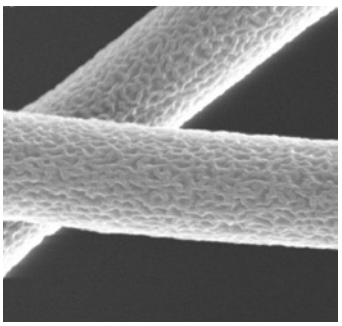




Auburn's Department of Mechanical Engineering is working with NASA to improve fluid flow in microvalves. Above right shows a fully assembled and packaged liquid microvalve; above left shows paths of fluid particles entering and flowing through the microvalve's small passageways.

Polymer and fiber

— exploring the uses of bicomponent fibers



Through electrospinning, biocomponent fibers combine the properties of two polymers. Magnified 5000 times, these fibers show highly porous surfaces that can ease the integration of an active compound, such as a pharmaceutical drug, into the body.

Fibers from biocompatible polymers with diameters in the nano- to micrometer range are very useful for medical applications such as tissue engineering. Such fine fibers can be produced by electrospinning, which uses an electric field to draw a polymer solution from the tip of a capillary to a collector. Voltage applied to the polymer solution causes the polymer jet to be drawn toward a grounded collector in a whipping motion and deposited as a random web.

Auburn polymer and fiber engineering is exploring bicomponent fibers that combine the properties of two polymers in regard to the controlled release of an active compound, such as a pharmaceutical drug. As polymers, poly-L-lactic acid and polycaprolactone were spun from chloroform at different molar ratios and concentrations. The resulting fibers show highly porous surfaces which will ease their integration into the body or allow for release of an active compound.

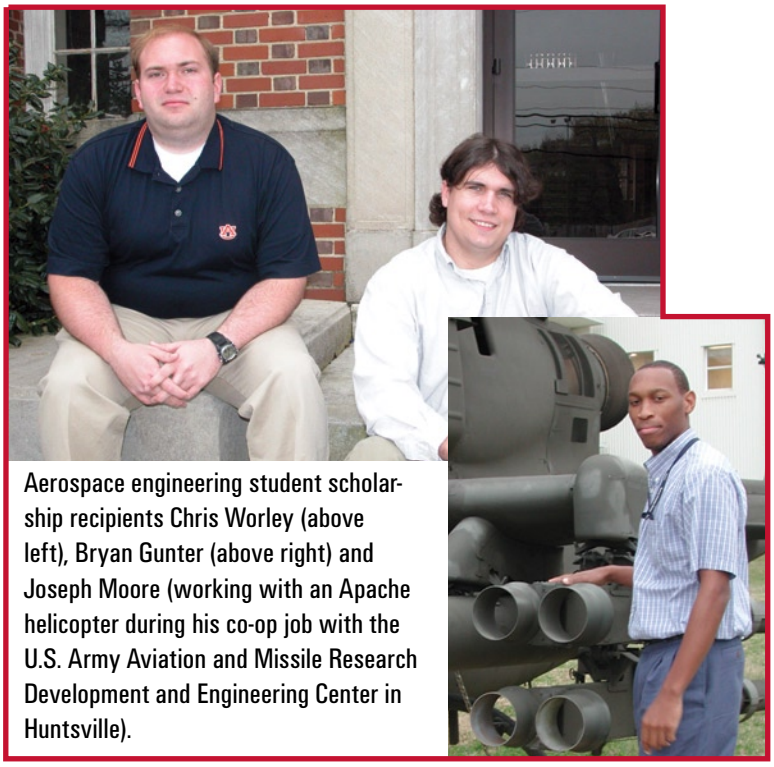
Seeing Stars

aerospace students take flight through scholarships

Four men and Auburn University. They come from different backgrounds, different places, different generations, but for Richard Scott and Auburn aerospace engineering students Joseph Moore, Bryan Gunter and Chris Worley, their fascination with flight is the same, and an uncommon denominator connects the four.

It may seem unusual for a donor to give to a school he didn't attend, but for Scott's son Richard Scott Jr., establishing an Auburn Engineering scholarship in his father's name was a natural.

"Richard [Sr.] feels love and loyalty for Auburn, where not only do the students care about each other, but the professors care about their students," says his wife Cynthia, a '54 Auburn alumnus and retired teacher in whose name Richard Jr. established a scholarship in the College of Education. "We've always felt very fortunate to have attended Auburn University, and to benefit not only from its academic climate, but to become members of the Auburn family."



Aerospace engineering student scholarship recipients Chris Worley (above left), Bryan Gunter (above right) and Joseph Moore (working with an Apache helicopter during his co-op job with the U.S. Army Aviation and Missile Research Development and Engineering Center in Huntsville).

As three of the eight 2005-06 recipients of the Richard T. Scott Endowment for Presidential Scholarships in the Samuel Ginn College of Engineering, Moore, Gunter and Worley feel fortunate too.

"I am grateful from the bottom of my heart for this scholarship, and I'm glad there are people who want to award others for their academic success," says Moore, a junior from Opelika. "I would one day like to be in a position to help students. I can see from experience how any amount of money can help tremendously."

Whether it was Star Trek sparking Worley's interest in outer space, NASA captivating Gunter since childhood, the Discovery Channel helping an 11-year-old Moore determine his career, or Richard Sr.'s high school pastime of begging rides in airplanes, these four men are drawn to lift-off.

"Flying was and always has been first in his heart," says Cynthia of Richard Sr. "In high school he and a friend bought a Cub plane they were going to recover and have great fun flying. They had the wings on sawhorses in the yard, and one evening his friend called to tell him they'd blown away. They were able to locate and bring them home, but I think that was the end of that endeavor."

Worley, a senior from Six Mile, S.C. who plans to graduate in May and attend Auburn graduate school, wants to find the branch of aerospace engineering that needs him the most, helping not only the engineering industry but society itself, not unlike Richard Jr.

"In addition to the financial help," adds Worley, "this scholarship has helped me to strive even harder and show that Dr. Scott's money is being put to good use. Without it, I may not have been able to attend Auburn."

Richard Sr. transferred from Georgia Tech to Auburn Engineering after his freshman year and participated in the co-op program, working for Lockheed. Though in 1954 his love of flying led him to the Air Force cadet program before finishing at Auburn, and though he later earned his engineering degree from Texas Tech and the equivalent to a civilian master's degree from the United States Naval War College, he left his heart on the Plains.

"Richard felt that Auburn gave him a good engineering foundation and helped him recognize that it was the field of choice for him," says Cynthia, who herself transferred from Wesleyan College after getting hooked on Auburn during summer school. "Auburn helped us to grow in many ways, to recognize that establishing meaningful relationships takes work, to understand the meaning of self-discipline, to function as a team member, and to realize that we were capable of achieving our goals if we were willing to work for them."

To honor their love for Auburn, Richard Scott established two scholarships named after his parents, former Auburn students Cynthia and Richard Scott, shown left attending a Kappa Alpha celebration in 1953 (couple at right) and right at Richard Jr.'s 1979 wedding. Inset is Richard Sr. as an Air Force major in 1971.

That realization was not lost on their son, a reproductive endocrinologist and national leader in In Vitro Fertilization (IVF). Richard Jr. is an award-winning researcher and a founding partner of Reproductive Medicine Associates in Morristown, N.J., who serves on the board of directors of the nonprofit American Fertility Association and, at Wilford Hall Medical School in San Antonio, founded the first IVF program in the federal government.

"I am greatly indebted to Dr. Scott and thank him for setting a wonderful example of giving back to our society," says Gunter, a senior from Opelika who plans to graduate in May '07. "When I have the means, I plan to follow his example by providing another student with the same opportunities."

Cynthia says she and Richard were surprised and delighted by the establishment of the two scholarships and hope that they give students the opportunity to develop academically without as much concern for the cost of their education, making their journey to success more enjoyable.

In Moore, that hope is realized.

"Making good grades has always been a staple in my household, and I put a lot of pressure on myself to do well," says the high school honor student and member of the National Honor Society. "I came to college with no scholarships. Now I have five. With them, I can work less and my mother doesn't have to worry about the ever increasing cost of tuition at Auburn. I am always driven to do my best, but the scholarships give me even more incentive."

Gunter says sometimes graduation seems a million years away, but awards like the scholarship provide short-term goals that help him stay focused. It also affords him more time for hands-on opportunities like helping one of his professors with aerodynamic research.

"It's rewarding to know that your hard work is not going unnoticed," he adds. "I believe that this scholarship has promoted my academic progress."

Gunter's advice to the next recipient: "Work as hard as you can to keep your grades up, but also try to do something in the engineering field you are not required to do – you will fully utilize the scholarship and your experience at Auburn will be greatly enhanced." He does this himself by tutoring in the Office of Engineering Student Services, helping other students work toward their goals.

Like Richard Sr., Moore participates in Auburn's co-op program; he's employed with the U.S. Army's Aviation and Missile Research Development and Engineering Center in Huntsville.

"The skills I've learned here are invaluable to my academic experience," says Moore, who plans to graduate in May '08. "The problem-solving is preparing me for the demanding semesters ahead, and interacting with other engineers on a regular basis teaches me how to take a leading role on group projects at school. I've also gained networking skills that I use to find study buddies and build open relationships with my professors. By the time I graduate, I will already have a year of relevant work experience."

Cynthia and Richard Sr. feel that the Scott scholarship recipients already have the work ethic for a productive career and hope they will take advantage of their superior Auburn education by continuing to pursue excellence.

"We believe a college degree opens doors and develops skills, but true success depends on determination, and to become well rounded and have a happy and successful life, one must truly enjoy their work," adds Cynthia. "I loved teaching and Richard loved flying and his work as an engineer. We hope that the students at Auburn will feel a true dedication to the work they have selected for themselves."

After a 28-year Air Force career with stations spanning from Rhode Island to Arizona to Hawaii to Korea, Richard Sr. retired in 1983 and took a manufacturing engineer position with Lockheed in Marietta, Ga., from which he retired in 1994.

"Now we are the token grandparents in our neighborhood," says Cynthia. "I help the kids with homework and projects, and many of the children come and visit Richard. He enjoys talking airplanes with them."

Professorship

Strengthening the Vision through faculty support

Growing up in his father's music store, Chris Roberts went through high school and off to college with every intention of becoming a musician. He didn't realize the skills he was building to get there would instead lead him to engineering. He says there's a correlation between the two professions, and he makes a good case.

"Teamwork, discipline, practice, are important to both fields and practicing rudiments and doing scales is quite similar to practicing basic calculations," explains the Auburn chemical engineering department chair. "Dedication to your work, being driven by it no matter the pay, having a love for what you do ... we've had a number of engineering students who are also good musicians based on these attributes."

Recognizing the need to reward faculty with that kind of passion, in 1994 Auburn alumni George and Dorothy Uthlaut established the George E. and Dorothy Stafford Uthlaut Professorship that Roberts has held since 2000.

"I am highly impressed with Chris's enthusiasm and the scope of his professional activities, both at Auburn and nationally," says George Uthlaut. "His relationships with students are demonstrated by the high rankings and awards in teaching. His academic and management skills have been rewarded by his elevation to department chair while holding this professorship, where he is doing an outstanding job. I am amazed at the scope and breadth of his work and his ability to balance research, teaching and management."

Awarded for excellence in research coupled with a strong emphasis on teaching quality, the Uthlaut Professorship gave Roberts a boost of confidence that he was on the right track.

"I work very hard to maintain a balance of research and teaching, which I feel are intertwined," he says. "Receiving the professorship sent me a message that Auburn University appreciates what I'm doing and that this is the place I need to be. With that came a confidence to see what else we can do, to ratchet things up to the next level."

Chris Roberts

Reprinted with permission from *Auburn Magazine*, courtesy of the Auburn Alumni Association.

That kind of initiative is shared by George Uthlaut, a 1959 chemical engineering graduate and Navy veteran whose career spanned engineering and executive posts with Exxon and Enron Oil & Gas Company. But the similarities don't stop there. Both men were driven toward chemical engineering by a fascination with chemistry and the potential for innovation that engineering holds. And both came to Auburn and fell in love, with the campus, with the town, and with their future wives.

"I received a Naval ROTC scholarship and chose Auburn over other highly rated institutions such as Princeton and Georgia Tech," explains Uthlaut. "The environment and atmosphere at Auburn suited me better, and I have never regretted my choice."

In addition to its reputation in engineering, Auburn has a persistent college classmate to thank for Roberts.

"My old classmate had visited Auburn when trying to choose a graduate school, and because of location chose elsewhere, but the whole time we were classmates he bragged about how great Auburn was," says Roberts. "So when I applied to Auburn and was called for an interview I had this guy in my ear, 'You've gotta go You've gotta go!' So I came down and interviewed and fell in love."

Now 12 years, three promotions, a professorship, a patent, and a bevy of publications and awards later, Roberts is still humbled by Uthlaut's praise.

"Coming from someone like him, very successful and very connected to this place as he's demonstrated throughout the years," says Roberts, "I'm honored to have Mr. Uthlaut's name associated with my work."

Roberts encourages the faculty in his program to work just as hard, including raising extramural research dollars to supplement insufficient state funds, which he says aren't enough to support faculty either.

"The message a professorship sends, that 'the Auburn family appreciates the hard work and the contributions you've made', is a tremendous message, one that allows us to do things we wouldn't be able to otherwise."

He points to his department identifying biomedical engineering as an area it wants to strengthen, and a donor's endowed chair making it possible.

"We didn't have the resources to create a new position. This new endowed position is allowing us to hire a top notch faculty member with significant biomedical research experience to further enhance this area within our department," Roberts explains. "An entire line of research, an entire line of education is being added to the department via one new endowment, making a tremendous difference to the department and to the students in terms of what their exposure will be, especially in a cutting-edge area like biomedical engineering. That's a great example of what faculty support can do."

Uthlaut, who has also served Auburn through membership in the Auburn Alumni Engineering Council, Keystone Society, Eagles Society, and contributions to the 2002 renovation of Wilmore Labs and the Ross Hall renovation project scheduled for completion this summer, says the demand for top faculty requires support for retention and motivation through salaries, grants and bonuses that professorships provide.

"With the public sector experiencing expanding needs and providing declining resources, it is necessary that alumni step up to the plate for faculty support so their children and grandchildren can experience the same quality education they did," he adds. "Highly competent faculty bring a strong research capability that benefits both the students and the university. I would encourage everyone to support their educational institution in whatever way they are able, in order to create a legacy for future generations."

Roberts would one day like to establish a professorship of his own. When asked if it would be at Auburn, the alumnus of the University of Missouri and Notre Dame doesn't hesitate.

"I've spent my career here. My colleagues here are my friends. Even though this is a big state school, it feels like a little community. I've lived here longer than anywhere else and this is home. Auburn has given to me immeasurably, and in our department alone there are far more deserving faculty members than there are professorships, so my answer is yes."

Dorothy and George Uthlaut

As the college sets its sights on becoming an elite engineering program, one of its greatest challenges will be raising the funds necessary to achieve this vision. The college's 35,000 alumni and friends will be the foundation of these efforts. Our Office of Engineering Development works with alumni, friends, foundations and corporations to raise the private support required to position the college to move into the ranks of America's top engineering programs.

Please feel free to contact any of the development staff for information on staying connected to Auburn Engineering.

Meet your Development Team

Rob Wellbaum
director
Rob provides leadership to the Office of Engineering Development and directs strategic planning and overall administration of the unit. He also serves as a major gift development officer for the college.
334.844.1278
wellbrw@auburn.edu

Dan Bush
associate director
Dan focuses on securing major gifts with special emphasis on corporate giving and relations. He also coordinates the current fundraising effort and naming opportunities for the renovation of Ross Hall.
334.844.1488
bushdan@auburn.edu

Ron Evans
associate director
Ron focuses on cultivating and securing major gifts for the college. He also coordinates the current fundraising effort and naming opportunities for the new Transportation Technology Center.
334.844.1265
evansr2@auburn.edu

Dara Kloss
associate director
Dara serves as a major gift development officer with special emphasis on foundation giving and relations. She is also the liaison with the Auburn Pulp and Paper Foundation and the Wireless Engineering Advisory Board.
334.844.2365
klossdp@auburn.edu

Veronica Chesnut
assistant director
Veronica serves as a major gift development officer for the college, cultivating relationships with donors and securing major gifts.
334.844.8220
chesnvs@auburn.edu

Meet Your Team

Elaine Jimmerson
development coordinator
Elaine serves as the unit's office manager, coordinating prospect management, budget and accounts management, and campaign planning. She is also the liaison to the central offices of Development Accounting, Research, and Information Management Systems, as well as the liaison to the Engineering Campaign Leadership Team.
334.844.4508
jimmeer@auburn.edu

Allyson Dozier
development coordinator
Allyson coordinates gift agreements and manages the processing of gifts. She serves as the manager of the unit's stewardship program and Keystone Society.
334.844.1192
dozieae@auburn.edu

Heather Crozier
development coordinator
Heather focuses on managing the Engineering Eagles Society and serves as liaison to the Auburn Alumni Engineering Council development committee.
334.844.1138
vannhea@auburn.edu

Flora Moss
development support specialist
Flora serves as assistant to the director and coordinates budget processing, supplies procurement, scheduling and development officer and staff travel.
334.844.2736
mossflo@auburn.edu

Kori Caldwell
development coordinator
Kori serves as the unit's event planner, coordinating donor events, campus tours and guest visits. She oversees the college's Annual Fund fundraising efforts and the Engineering Senior Class Challenge program, and serves as the liaison to the student Cupola Engineering Society.
334.844.9130
caldwks@auburn.edu

Beth Smith
communications administrator
Beth coordinates the planning and production of internal and external communications for the college's development efforts. She serves as the donor proposal writer as well as the liaison to the Office of Engineering Communications and Marketing.
334.844.2924
smithel@auburn.edu

Auburn Alumni are Leading the Way

Auburn Engineering is fortunate to have a group of alumni who have committed to help the college achieve its campaign goals. The 15-member Campaign Leadership Team assists the college in identifying potential donors and securing campaign leadership gifts of $100,000 and more. Leadership gifts are financial commitments above and beyond ongoing support, solicited to address specific objectives identified as campaign priorities.

In addition to participating in regular meetings and conferences calls, leadership team members visit individuals, corporations and foundations on the college's behalf, creating opportunities to share the college's vision and goals with those who may be interested in financially supporting the college. Members have also demonstrated their own personal philanthropy by making leadership gifts totaling more than $33 million to the college or one of its academic units. The efforts of the Leadership Team are vital to the college's fundraising efforts.

"During the course of this campaign, the Leadership Team will be a critical component of our ability to raise the private support we need to achieve our campaign goals," says Rob Wellbaum, director of development. "They are instrumental in helping us develop relationships with friends of the college."

Campaign Leadership Team

Charles S. Aiken Jr. (Chip) '73
Senior Vice President,
Manufacturing-Nonwovens
Buckeye Technologies, Inc.
Memphis

Samuel L. Ginn (Sam) '59
Chairman and CEO, retired
Vodafone
San Mateo, Calif.

Mike DeMaioribus '76
Senior Vice President
Dynetics, Inc.
Huntsville

Elmer B. Harris '62
Chairman and CEO, retired
Alabama Power Company
Cropwell, Ala.

Maury D. Gaston '82
Manager, Customer Service
American Cast Iron Pipe Company
Birmingham

T. Keith King '58
Chairman of the Board,
President and CEO
Volkert & Associates, Inc.
Mobile

Oliver D. Kingsley Jr. ’66
(Leadership Team Chair)
President and COO, retired
Exelon Corporation
Birmingham

William B. Reed (Bill) ’50
President, retired
Southern Company Services, Inc.
Owner and Chairman
System Controls, Inc.
Birmingham

Michael B. McCartney (Mike) ’57
President
McCartney Construction Company
Gadsden, Ala.

Albert James Smith Jr. (Al) ’47
Chairman and CEO, retired
Brightstar Group Ltd.
Houston

Joe T. McMillan ’58
President, retired
ExxonMobil Coal and
Minerals Company
Houston

Jeffrey I. Stone (Jeff) ’79
Chief Operating Officer
Brasfield & Gorrie, Inc.
Birmingham

William R. McNair (Bill) ’68
Vice President, Network Operations,
retired
BellSouth
Dunwoody, Ga.

Dwight L. Wiggins ’62
President, retired
Tosco Refining Company
Basking Ridge, N.J.

Albert Miles Redd Jr. (Buddy) ’59
Chairman and CEO
Redd Realty Services
Atlanta

Leading the Way

Leading the Way

Giving back to Auburn Engineering

Engineers are trained to make things happen. This focus on the future and commitment to discovery and innovation enhances the quality of life for all of us.

It also makes them leaders in philanthropic giving. Auburn engineers understand that their gifts to the Samuel Ginn College of Engineering make a difference by helping to ensure academic programs remain relevant and strong in the face of unprecedented societal and technological change.

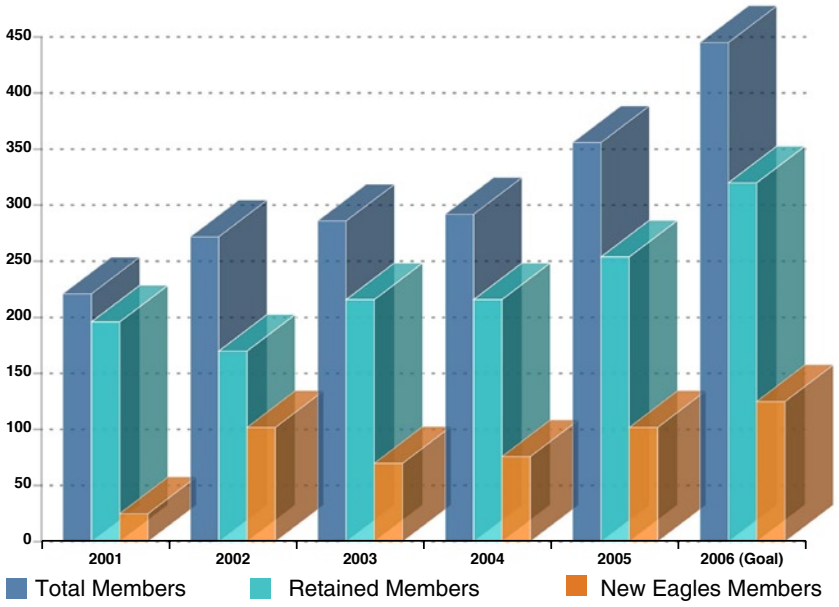
In recognition of this exceptional group of men and women, the college has established donor societies – including the Engineering Eagles Society and the Keystone Society – to celebrate and honor the generosity of our loyal supporters.

The Engineering Eagles Society recognizes alumni and friends who make annual gifts of $1,000 or more to the college or its academic units. A gift of $2,500 or more qualifies donors to become Executive Eagles.

These gifts set the bar high, helping to ensure the quality of the college's programs, providing vital resources that enable the college to pursue its vision of becoming a top engineering program.

Eagles gifts can be made to the college or to one or more of its programs, and can include corporate matching gifts. Combined annual gifts to engineering totaling $1,000 or more given by a couple, or a $1,000 pledge of support payable by December 31 of the current fiscal year, also qualify donors for Eagles membership.

These gifts can be unrestricted, for use at the discretion of the dean or department head, or designated for a specific use. Past contributions have helped fund start-up packages to attract world-class faculty, scholarships for students, the renovation of Wilmore Laboratories and Ross Hall into state-of-the-art facilities, and recruiting events such as E-Day, as well as opportunities for hands-on student learning experiences including senior design projects and competition teams, and student travel to professional meetings.



Unrestricted gifts are of particular value to the college. These valuable resources provide the college and its departments with the flexibility necessary to capitalize on emerging opportunities in today's fast-paced world of higher education. As state support has declined during the past 20 years, these gifts have become especially critical and are used on a daily basis where needs and opportunities are the greatest.

Eagles benefits include lapel pins, car decals, calendars, and recognition on the college's Web site, in publications and the new engineering complex atrium. Executive Eagles receive additional benefits including invitations to special events both on and off campus.

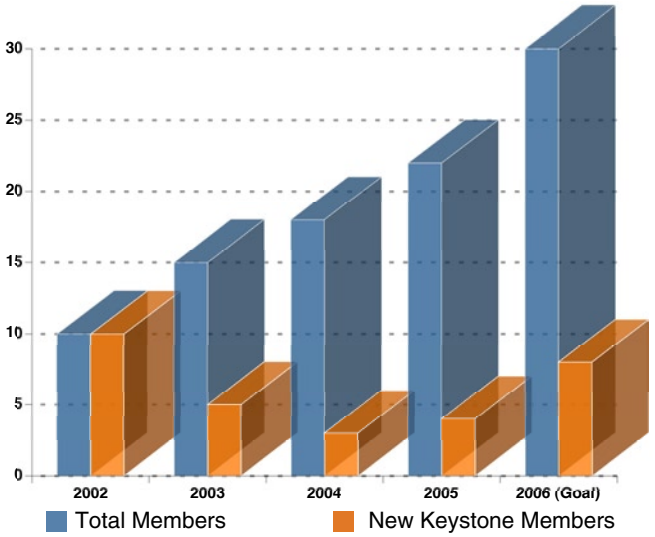
Gifts of $1,000 or more given during five consecutive years qualify Engineering Eagles Society members to become part of the Dean's Circle, a group that once a year joins the dean for lunch to discuss educational trends, the college's vision for the future, and strategic plans to achieve that vision. In recognition of their commitment to continuous giving, Dean's Circle members receive additional benefits including invitations to special lectures and events hosted by the college.

Young alumni add to the vitality of the Samuel Ginn College of Engineering. To encourage alums who graduated within the past 10 years to make giving a part of their future, we invite them to become fledgling members of the Eagles Society with a gift of $500, including corporate matching gifts. They can remain an Eagles member at this level of annual giving until they pass the 10-year mark.

There are many ways to give to the Samuel Ginn College of Engineering including fellowship and scholarship endowments and planned gifts.

Benefactors who have made the highest commitment to annual giving – an unrestricted investment $50,000 over a five-year period to the college – become members of the Keystone Society.

To learn more about the benefits of becoming a member of the Keystone Society please contact Allyson Dozier at 334.844.1192 or dozieae@auburn.edu.



The Senior Class Challenge program is a gift campaign aimed at encouraging senior-level students to begin a lifelong relationship with Auburn University. Seniors are encouraged to give the dollar amount symbolizing their class year – $20.05 from the class of 2005, $20.06 from the class of 2006 – with an option to make a three-year pledge, adding $50 the second and third years.

In support of the students' efforts, alumni, friends, faculty and staff can match their gifts. To find out more about the Engineering Senior Class Challenge please contact Kori Caldwell at 334.844.9130, caldwks@auburn.edu, or visit www.eng.auburn.edu/admin/development/ecc.

The Future Begins With You

Year after year, consistent support from alumni and friends has allowed the Samuel Ginn College of Engineering to maintain high standards for engineering education. These contributions strengthen our ability to serve students, faculty and the citizens of the state through scholarships, teaching innovations and new technologies.

We invite you to become a part of the tradition of excellence that is the hallmark of Auburn Engineering. Some donors make gifts and pledge payments by check, credit card or automatic bank draft. Others take advantage of the tax savings that come from giving appreciated assets such as real estate, stocks or mutual fund shares. To learn more, please visit www.eng.auburn.edu/waystogive or contact Heather Crozier at 334.844.1138 or vannhea@auburn.edu. To give online please visit www.eng.auburn.edu/givenow.

State of Alabama
Engineering Hall of Fame

The State of Alabama Engineering Hall of Fame was founded in 1987 to honor, preserve and perpetuate the outstanding accomplishments and contributions of individuals, projects, and corporations/institutions that have brought and continue to bring significant recognition to the state of Alabama.

Four of the six 2006 Hall of Fame individual inductees are Auburn graduates:

Charles D. Griffin '75
William B. Reed '50
David W. Scobey Jr. '78
Dwight L. Wiggins '62

The president of the only 2006 Hall of Fame corporation/institution inductee, LBYD, Inc. of Birmingham, is Auburn alumnus D. Dale York, '76.

From left: Auburn Engineering alumni – State of Alabama Engineering Hall of Fame board of directors chairman Michael McCartney and 2006 inductees David Scobey, Dwight Wiggins, Bill Reed, Charles Griffin and Dale York.

The Cupola Report

The 2006 Cupola Report

A Recognition of the Contributors of 2005
Samuel Ginn College of Engineering
Auburn University

Table of Contents

Keystone Society	2
Engineering Eagles Society	5
Endowments	10
Planned Gifts	10
Annual Gift Scholarships	11
Senior Class Challenge	12
Organizations	12

Dean's Office
Larry Benefield, dean of engineering

Office of Engineering Development
Rob Wellbaum, director, 334.844.1278, wellbrw@auburn.edu
Dan Bush, associate director, 334.844.1488, bushdan@auburn.edu
Ron Evans, associate director, 334.844.1265, evansr2@auburn.edu
Dara Kloss, associate director, 334.844.2365, klossdp@auburn.edu
Veronica Chesnut, assistant director, 334.844.8220, chesnvs@auburn.edu
Elaine Jimmerson, development coordinator, 334.844.4508, jimmeer@auburn.edu
Heather Crozier, development coordinator, 334.844.1138, vannhea@auburn.edu
Kori Caldwell, development coordinator, 334.844.9130, caldwks@auburn.edu
Allyson Dozier, development coordinator, 334.844.1192, dozieae@auburn.edu
Flora Moss, development support specialist, 334.844.2736, mossflo@auburn.edu

Office of Engineering Communications and Marketing
Jim Killian, director
Karen Nesbitt, writer, project manager for *The Cupola Report*
Katie Yester, graphic designer

We have made every attempt to include all donors in the Auburn Engineering family. However, if you are not listed, or are aware of another donor who is not, please contact the Auburn University Office of Engineering Development at 107 Ramsay Hall, Auburn, AL 36849; 334.844.1192.

For a listing of donors who gave prior to 2005, please view the two previous issues of *The Cupola Report* at http://eng.auburn.edu/admin/marketing/publications/coe/development-office.html

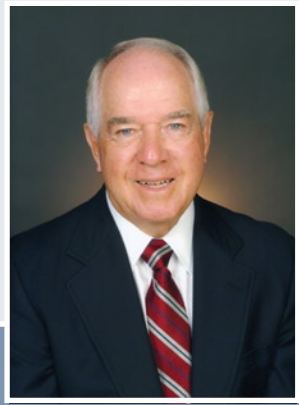
The Keystone Society

The unrestricted annual support provided by Keystone Society gifts allows us to provide an unparalleled engineering education. Members invest $50,000 that can be given as a five-year pledge to the unrestricted fund, giving the college the flexibility to respond to emerging opportunities.

The individuals who joined The Keystone Society in 2005 are:

Howard E. Palmes '60
Electrical Engineering
Vice President, Network Operations, retired
BellSouth Corporation

"I am glad to contribute to the future of the College of Engineering at Auburn University. I have the utmost faith in Dean Benefield and his team. The strategic planning and development that has been done give me confidence that the college will continue to grow and improve in the coming years."



William B. Reed '50
Mechanical Engineering
President, retired
Southern Company Services, Inc.
Owner and Chairman
System Controls, Inc.

"Auburn Engineering enjoys an excellent national reputation, but new technology and worldwide competition require increased expenditures for skilled faculty, facilities and research contracts to maintain this position.

Unfortunately, the state of Alabama is not providing the necessary funding to support these expenditures. I am pleased to be able to make a small contribution to assist the work of Dean Benefield and his staff.

For me, 'It did begin at Auburn.'"

KEYSTONE
SOCIETY

Paul J. Spina Jr. '63
Electrical Engineering
Owner and CEO
Spina Enterprises Inc.
Managing Member
Foresight Development, LLC

"Having earned my way through Auburn on the co-op plan, I can appreciate some students needing financial help to achieve their dream.

My experiences at Auburn literally changed my personality, self-confidence and, in fact, my life. My desire to give back in service and financial assistance is only one aspect of my deep love for Auburn University."

William J. Ward '55
Mechanical Engineering
General Chairman, Utilities Sales, retired
General Electric Company

"As a native of Auburn, I have always been proud of my heritage and education, which have held me in good stead throughout my life and my 42-year business career. I am pleased to be able to give back to Auburn through the Keystone Society and I encourage other graduates to use their company matching fund programs for this purpose.

Today's business leaders are looking for engineers with skill sets in technology, globalization, leadership, teamwork, and with a passion for their work and a strong desire to succeed. Our engineers must have these learning opportunities to assure that Auburn reaches its rightful place among the top engineering colleges in the country. The Keystone Society is an excellent way to support this vision."

The individuals who joined The Keystone Society prior to 2005 are:

Joe T. McMillan '58
Chemical Engineering
President, retired
ExxonMobil Coal and Minerals

Julian Davidson '50
Electrical Engineering
President and CEO
Davidson Technologies, Inc.

Walter S. Woltosz '69
Aerospace Engineering
Chairman, President and CEO
Simulations Plus, Inc.

John A. MacFarlane '72
Mechanical Engineering
Manager, Technology Sales and Licensing
ExxonMobil Research and Engineering

Michael B. McCartney '57
Civil Engineering
President
McCartney Construction Company, Inc.

Charles E. (Buddy) Davis '59
Electrical Engineering
Manager, retired
Boeing

James M. Hoskins '81
Electrical Engineering
President and CEO
Scitor Corporation

James D. McMillan '61
Chemical Engineering
Washington Representative, retired
ExxonMobil

Ralph B. Godfrey '64
Electrical Engineering
Senior Vice President, retired
3Com Corporation

W. George Hairston '67
Industrial Engineering
President and CEO
Southern Nuclear Operating Company

William F. Hayes '65
Electrical Engineering
Executive Vice President, retired
Texas Instruments

T. Keith King Sr. '58
Civil Engineering
President, CEO and Chairman of the Board
Volkert & Associates

Oliver D. Kingsley Jr. '66
Engineering Physics
President and COO
Exelon Corporation

William R. McNair '68
Electrical Engineering
Vice President, Network Operations, retired
BellSouth

Albert J. Smith Jr. '47
Mechanical Engineering
Partner
BrightStar Group Ltd.

Jeffrey I. Stone '79
Civil Engineering
COO
Brasfield & Gorrie, LLC

George E. Uthlaut '54
Chemical Engineering
Senior Vice President, Operations, retired
Enron Oil and Gas Company

Dwight L. Wiggins Jr. '62
Mechanical Engineering
President, retired
Tosco Refining Company

EAGLE

ENGINEERING EAGLES SOCIETY

Through a gift of $1,000 or more, the Engineering Eagles Society brings together alumni and friends who help us educate the engineers of tomorrow. With its three levels of giving, the society recognizes Auburn alumni and friends who, like the wings of an eagle, lift the college to new heights and help expand on the tradition of excellence Auburn engineers provide to the state, region and nation.

The Engineering Eagles Society members of 2005 are:

$1,000-$2,499

1930
Mr. Henry Reeves*

1934
Mr. and Mrs. Benjamin Watkins Hutson

1936
Brig. Gen. Bryghte D. Godbold

1941
Mr. M. Dow Sellers

1942
Mr. John T. Lutz
Mr. and Mrs. Henry Frederick Rainey

1943
Mr. John Paul Crow
Mr. Byron Dickman*
Mr. and Mrs. Robert F. Ellis Jr.
Mr. C. Warren Fleming
Mr. and Mrs. Charles B. Hopkins Jr.
Lt. Col. Walter Buel Patton
Mr. Warren Stephen Sockwell
Mr. Leonard H. White Jr.

1944
Mr. Wayman E. Vanderford

1946
Mr. Thomas C. Pridmore

1947
Mr. and Mrs. Robert B. Cater Jr.
Mr. Bradley T. Cox Jr.
Mrs. Margaret P. Luquire

1948
Mr. Sam B. Alison
Mr. Henry S. Arnold
Mr. Leonard Dean Braswell
Mr. Franklin Lee Jones
Mr. F. Brooks Moore
and Mrs. Marian F. Moore '53

1949
Mr. Elmer Carlton Hill
Mr. and Mrs. Richard I. Kearley Jr.
Mr. Charles R. Lowman
Mr. and Mrs. Lewe B. Mizelle Jr.
Mr. Lewie F.M. Tanner Jr.
Mr. Harold P. Ward
Mr. Edward Thomas Williams

1950
Mr. Toon R. Ferrell
Mr. Charles W. Gaston Jr.*
Mr. Clarence H. Hornsby Jr.
Mr. J. Madison Hunnicutt
Mr. John M. McKenzie
Mr. Mack Allen Riley
Mr. Joseph W. Wilson

1951
Mr. Arthur C. Daughtry
Mr. and Mrs. Leonard L. Mitchum Jr.
Dr. Earle Carter Williams

1952
Mr. and Mrs. Carver Gager Kennedy
Mr. Harry C. Handlin
Mr. Everett W. Strange Jr.

1953
Mr. Walter R. Day Jr.

1954
Mr. Fred N. Beason
Mr. Thomas William Caine
Mr. James H. Carroll Jr.
Mr. Donald E. Dennis
Mr. Lewis H. Eberdt Jr.
Mr. Sibbley P. Gauntt
Mr. Charles L. Palmer
Mr. and Mrs. Fred H. Rhinehardt

1955
Mr. and Mrs. James R. Evans
Mr. James J. Mallett
Mr. James Burton Odom
Mr. John S. Parke
Mr. William J. Ward
Mr. David E. Wingard

1956
Mr. Jack Kelso Allison
Mr. J. Edward Chapman Jr.
Mr. Charles Mathias Jager
Mr. L. Ray Taunton
Mr. Edward F. Williams III

*Deceased

1957
Mr. Vernon W. Gibson Jr.
Mr. M. Miller Gorrie
Mr. Bill M. Guthrie
Mr. T. P. Huddleston Jr.
Mr. and Mrs. Roy A. Richardson
Mr. Johnnie V. Robertson
Mr. James S. Roy
Mr. Michael Larry Tuggle
Lt. Col. Ralph C. Wilkinson

1958
Mr. Roger R. Hemminghaus
Mr. and Mrs. Harry A. Manson
Mr. James L. Murrell
Mr. James Louis Peeler
Mr. and Mrs. Ellie Ray

1959
Mr. James O. Ballenger
Mr. and Mrs. Clarence Chappell III
Mr. John K. Jones
Mr. Gerald G. McGlamery Sr.
Mr. Royce E. Mitchell
and Mrs. Sue S. Mitchell '57

1960
Dr. George J. Dezenberg
Mr. Edwin W. Evans
Mr. John G. Howell
Mr. Gordon M. Ross
Mr. John M. Sikes

1961
Mr. Leiland M. Duke Jr.
Mr. and Mrs. George N. Jones
Mr. Jack Ron Tabor
Mr. Philip S. Zettler

1962
Mr. William Albritton Jr.
Mr. and Mrs. Wiley Mitchell Cauthen
R. Adm. Tim McCall Jenkins
Mr. Lavon F. Jordan
Mr. Donald R. Luger
Mr. Jack Taylor Parker
and Mrs. Dorothy Crump Parker '63
Mr. and Mrs. John E. Vick

1963
Mr. Ronald Clark Evans
Mr. Lamar T. Hawkins
Mr. Charles N. Moody
Mr. and Mrs. Jerry F. Thomas
Mr. Wendell W. Whiteside

1964
Mr. Gordon B. Mohler
Ms. Nancy Whiteside Payne
Mr. Jerry Franklin Smith

1965
Dr. David B. Bradley
Mr. Larry Curtis and Dr. Christine W. Curtis
Mr. C. Travis Johnson
Mr. and Mrs. Desmond Merrill Jr.
Mr. W. Russell Newton
Mr. Thomas D. Stringfellow

1966
Dr. Larry D. Benefield
Mr. and Mrs. Jimmy W. McGaha

1967
Mr. Charles E. Fuller III
Mr. Albert E. Hay
Mr. William James Smith

1968
Mr. James H. McDaniel
Mr. R. Terrence Rendleman
Mr. Allen C. Rice
Mr. John Michael Weigle
Mr. Robert H. Wynne Jr.

1969
Mr. Dwight T. Brown
Mr. Ronald M. Dykes
Mr. and Mrs. William K. Newman
Mr. Robert Lyons Prince
Mr. Thomas L. Ray
Mr. John Mark White

1970
Mr. Malcolm N. Beasley
Mrs. Veronica Chesnut
Dr. Martin C. Glover
Mr. and Mrs. Tommy G. Hendrick
Mr. and Mrs. Thomas Farrell Higgins
Mr. and Mrs. James A. Humphrey
Mr. Joel David McClinton Sr.
Mr. John Albert Smyth Jr.

1971
Mr. and Mrs. Joseph F. Barth III
Mr. Thomas D. Senkbeil
Mr. David Slovensky
Mr. James Lewis Starr
Mr. and Mrs. Robert Morgan Waters
Mr. and Mrs. Joseph D. Weatherford

1972
Mr. and Mrs. Glen D. Atwell
Dr. David Gilbert Burks
Mr. Daniel M. Bush
Mr. Richard I. Chenoweth
and Mrs. Vicki Boyce Chenoweth '73
Mr. Daniel M. Cook
Mr. James A. Dowdy Jr.
Mr. John W. Gibbs
Col. James S. Voss
Mr. and Mrs. Larry Russell White

1973
Mr. John Wendell Chambliss
and Mrs. Fletcher H. Chambliss '83
Mr. and Mrs. Wendell Harris Duke
Mr. Gregory Gibson
Mr. and Mrs. Richard A. Harrison Jr.
Mr. Steven Max Lee
Mrs. Marsha H. Reardon
Mrs. Gayla Jones Von Ehr
Mr. James Wade Wesson

1974
Capt. Davis R. Gamble
Mr. Calder D. Kohlhaas Jr.
Mr. and Mrs. William E. Warnock Jr.
Mr. Charles Erby Watts Jr.

1975
Mr. Dennis W. Brown
Mr. Raymond J. Geiselhart
Mr. John H. Klingelhoeffer
Mr. Thomas D. Lampkin
Mr. Jack B. Porterfield III

1976
Mr. Robert E. Friar Jr.
Mr. Dennis W. Henderson
Mr. and Mrs. William L. Moench Jr.
Mr. Wayne B. Nelson III
Mr. Kenneth A. Powell
Mr. Randy Leon Smith
Mr. Michael B. Wimberly

1977
Mr. C. Houston Elkins Jr.
and Mrs. Mary Evans Elkins
Mr. Frederick Pehler
and Mrs. Rebecca Pehler '81
Mr. Harry Glen Rice

1978
Mr. Lum M. Loo
Mr. Leon W. Pace
Mr. William W. Rowell
and Mrs. Karen Harris Rowell '79
Mr. James Mark Tolar

1979
Mr. George G. Ard
Mr. and Mrs. Wesley Wilkerson Diehl
Mr. Dennis Steve Hill
Mr. Jerry D. Parker

1980
Mrs. Kathryn R. Hoffman
Mr. Joseph L. Holliday
Dr. Robert Mark Nelms
Mr. G. Nolan Sparks Jr.

1981
Mr. James Eugene Ard
Mr. Stephen Joseph Bethay
Mr. Patrick Higginbotham
Mr. Fred F. Newman
Dr. James Michael Stallings
Mr. Jeffrey Mason Young

1982
Mr. Maury D. Gaston
Lt. Col. Mary F. Riddell
Mrs. Linda Patterson Ryan

1983
Mrs. Anna C. Carbine
and Mr. Russell L. Carbine
Mr. and Mrs. Joseph Austin Miller

1984
Mr. James B. Burrows Jr.
Dr. Gerald G. McGlamery Jr.
Mrs. Ann McCamy Johnson
and Mr. Larry T. Johnson
Mr. Douglas E. Phillpott
and Mrs. Tracy C. Phillpott
Ms. Betty Ann Ryberg

1985
Mr. Kenneth Wayne Cater

1986
Mr. Thomas Ray Bass
Mr. Kenneth Thomas Peacock

1987
Mr. James Roberts
Mr. Stuart Chris Shirley
Mr. Harold Lewis Wilson

1989
Mr. Michael Harley Crowder

1990
Mr. and Mrs. Brian Howard Hunt

1991
Mr. David Troy Veal

1993
Mr. Robert W. Wellbaum III
and Mrs. Christine J. Wellbaum '93

1994
Mr. J. Travis Capps Jr.
Mr. Christopher Joel Kramer
and Mrs. Mary Horton Kramer '93
Mr. Patrick Joseph Quick

1996
Mr. John R. Smith

1997
Dr. Andrew Palmer Hanson
Lt. Thomas W. Harwell Jr.

2003
Mr. Nathan L. Hanks
Mr. Trent Edward Williams

2004
Mr. Charles H. Ping III

Friends
Mr. Greg T. Abramson
Mr. James P. Bennett
Mr. Wicky H. Black
Mr. Gerald R. Brandt
Mr. John W. Brodak
Mr. and Mrs. H. E. Cauthen Jr.
Mr. Charles T. Clark
Mr. J. David Cochran
Mr. Marvin D. Cooper
Mr. Calvin Cutshaw
Mr. Willie T. Grant
Dr. and Mrs. Charles H. Goodman
Mr. Martial A. Honnell
Mr. and Mrs. Charles A. Machemehl
Mr. William Joe McClain
Mr. Paul Mark Melius
Dr. Joe M. Morgan
Mr. Hunter Payne
Mr. and Mrs. Robert Ray
Mr. John Redmon
Dr. William I. Sauser Jr.
and Mrs. Lane D. Sauser '83
Dr. Peter Schwartz
Mr. Con Schweitzer
Mr. Charles Eugene Stroud
Mr. Mike Synyard

$2,500-$4,999

1940
Mr. Clarence Fletcher Horn

1942
Mr. Robert Bruce Allan
Mr. Grady Lawrence Smith

1946
Mr. E. Erskine Hopkins

1953
Mr. Leonard A. Morgan
Mr. John Albert Taylor

1950
Mrs. Carol Dorrough Hart

1958
Mr. William M. Brackney
Mr. Henry M. Burt Jr.

1959
Mr. Axel Roth

1960
Mr. Thomas Glenn Avant
Mr. James H. Stewart Jr.

1965
Mr. and Mrs. Steve P. Osburne

1967
Mr. and Mrs. H. Wendell Ellis

1973
Mr. Rafael E. Alfonso

1979
Mr. Mark David Vanstrum

1983
Mr. Silas H. Hardin III

1986
Mr. and Mrs. Gary Ross Godfrey

1988
Mr. and Mrs. Philip G. Fraher

1997
Mr. Gilbert Fournelle
and Mrs. Angel Forney Fournelle '98

2002
Ms. Emily E. Johnson

Friends
Ms. Lisa A. Baggett
Mrs. Lorraine Chapman
Mr. Alain J. Gallet
Mr. William C. Howard
and Mrs. Nita M. Howard
Mr. Bruce R. Paton Jr.
Mr. Ratanjit S. Sondhe

$5,000-$9,999

1938
Mr. Dwain Gregory Luce

1939
Col. James H. Boykin and Etta B. Boykin

1943
Mr. Robert Harding Harris
Mr. and Mrs. James Madison Smith

1947
Mr. Creighton C. Lee

1949
Mr. Raymond T. Roser
and Mrs. Martina Reese Roser '47

1958
Mr. and Mrs. James Hugh Corbitt

1959
Mr. Leroy L. Wetzel

1960
Mr. William B. Millis

1961
Mr. James D. McMillan
Mr. and Mrs. Frank M. Cater

1964
Mr. Donald Edward Arnett

1965
Mr. C. David Scarborough
and Mrs. Murriel W. Scarborough '65
and Mr. Ashley Scarborough '91
Mr. J. Ernest Warren

1966
Mrs. Mitzi Cockrell Austin

1967
Mr. R. Conner Warren

1970
Mr. Edgar L. Reynolds

1973
Mr. W. Karl Vollberg

1974
Mr. Charles Philip Saunders

1976
Mr. D. Dale York

1977
Mr. David R. Motes

1978
Mrs. Amy Thomas Dobbs
and Mr. Joseph G. Dobbs

1982
Mr. Shawn E. Cleary
and Mrs. Anne M. Cleary

1985
Mr. Kenneth Lee Tolar

1996
Dr. and Mrs. Gerard Albert Davis

Friends
Ms. Trudy Austin
Mr. Joseph M. Farley
Mrs. Geneva Grandy
Mrs. Wilma Jean Rendulic
Mr. and Mrs. Steve Stark
Mrs. William V. Swan
Dr. Robert E. Thomas Jr.
Mrs. Mary Lou Tolar

$10,000+

1947
Mr. Albert James Smith
and Mrs. Julia Collins Smith Jr. '99

1948
Mr. and Mrs. Richard Davison Quina

1949
Mr. John F. Meagher Jr.

1950
Dr. and Mrs. Julian Davidson
Mr. William Burch Reed

1954
Mr. and Mrs. George E. Uthlaut

1957
Mr. John Wilford Brown
Dr. Michael B. McCartney

1958
Mr. and Mrs. T. Keith King
Mr. Joe T. McMillan
and Mrs. Billie Carole McMillan

1959
Mr. and Mrs. Charles Edward Davis
Mr. Albert Miles Redd Jr.

1960
Mr. and Mrs. Howard E. Palmes

1962
Dr. Elmer Beseler Harris
and Mrs. Glenda Steele Harris '61
Mr. and Mrs. Dwight L. Wiggins Jr.

1963
Mr. John Steele Henley II

1964
Mr. Ralph B. Godfrey

1965
Mr. William F. Hayes

1966
Mr. Oliver D. Kingsley Jr.

1967
Mr. W. George Hairston III

1968
Dr. Terry Edwin Lawler
Mr. and Mrs. William R. McNair

1969
Mr. and Mrs. Walter Woltosz

1970
Mr. George A. Menendez

1971
Mr. Joe W. Forehand Jr.

1972
Mr. John A. MacFarlane

1975
Mr. and Mrs. Joseph S. Johnson Jr.

1977
Mrs. Melissa Brown Herkt
Mrs. Olivia Owen
Mr. David Kenneth Owen

1979
Mr. Jeffrey Ira Stone

1981
Mr. James L. Cooper Jr.
Maj. James M. Hoskins
and Mrs. Bertha T. Hoskins '80

1982
Mr. Timothy Donald Cook

1986
Mr. David McCoy Kudlak
Mr. George Lee McGlamery

Friends
Ms. Barbara Allison
Mrs. Shirley A. Bradford
Mr. and Mrs. David E. Carnahan
Mrs. Matilda H. Cockrell
Sherry and Fenimore Cooper
Dr. Malcolm J. Crocker
Mr. Jon Stryker
Ms. Pat Stryker
Ms. Ronda Stryker

Endowments

Endowments are gifts that provide perpetual income for the advancement of Auburn Engineering. The Auburn University Foundation, in accordance with AUF policy, invests the principal of the endowed fund. The fund's yearly earnings go toward the support of the program or initiative designated by the donor. For some endowments, a portion of each year's earnings is reinvested into the principal, thereby growing the endowment and helping to secure Auburn's endowment base. These gifts provide the college with the security of guaranteed support each year.

The following endowments were established in 2005 for the benefit of the students, faculty, and programs of the Samuel Ginn College of Engineering:

Endowed Scholarships

AU Pulp and Paper Alumni Scholarship Endowment

Carroll T. Tolar Memorial Endowment

Cavan S. Tubbs Endowment for Scholarships

Charles Cockrell Endowment for Scholarships

Christopher J.G. Couch Endowment

Civil Engineering Class of '76 Endowment

Dr. Brian J. Carnahan Memorial Endowment

Eddie Little Memorial Freshman Endowment

Julian and Dorothy Davidson Scholarships

Ray Bass Endowment for Scholarships

Scarborough Electrical Engineering Endowment

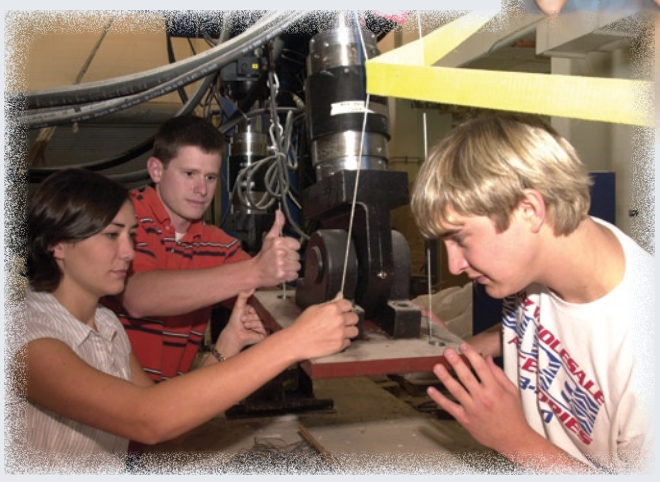
Endowed Professorships

John Wilford Brown Endowed Chair

Funds for Excellence

Stone Fund for Excellence

Jim Cooper Fund for Excellence



Planned Gifts

Planned gifts are named as such because even though they are given today, the college will not realize their benefit until sometime in the future. They come in many different forms and serve as a way for donors to manage their affairs and plan for the future while making a gift to the college. Planned gifts enable alumni and friends to continue building a bright future for the college long after they are gone.

The planned gifts established in 2005 are:

1942
Mr. William Cannady

1943
Mr. Warren Fleming

1956
Dr. James O'Rourke

1959
Dr. Samuel Ginn

1968
Mr. James McDaniel

1973
Mr. James Wesson

1979
Mr. Jeff Stone

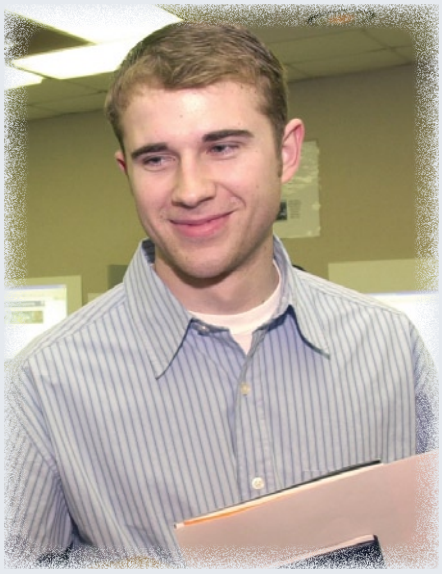
1981
Mrs. Susan Nolen Story

1982
Mr. Maury Gaston

1993
Mr. Robert Wellbaum

Friends
Mrs. Sarah Davis
Ms. Sheila McCartney
Mr. William F. Walker

Annual Gift Scholarships



Annual gift scholarship funds are given to the College of Engineering each year to support its scholarship program. These scholarships are not fueled by principal or earnings so the number the college can offer may vary each year depending upon donor contributions.

Helping to ensure educational opportunities for the students of the Samuel Ginn College of Engineering, the following annual gift scholarships were funded in 2005:

3M Company

Aerospace Engineering General Departmental Scholarship

Alabama Textile Engineering Foundation

Amerada Hess Corporation Scholarship

American Cast Iron Pipe Company Engineering Scholars Program

AMOCO Foundation - Chemical

AMOCO Foundation - Electrical

Auburn Alumni Engineering Council Annual Scholarship

BellSouth Minority Engineering Program

Boeing Company

Brasfield & Gorrie Fund for Excellence in Civil Engineering

Bridgestone/Firestone Annual Scholarship in Mechanical Engineering

Chemical Engineering Scholarship

Chevron Scholarships - Chemical Engineering

Chevron Scholarships - Electrical Engineering

Chevron Scholarships - Mechanical Engineering

College of Engineering Annual Scholarship

College of Engineering Dean's Scholarship

Comer Foundation Scholarship

Contractor's License Fee

E.F. Williams Annual Scholarship in the College of Engineering

Electrical Engineering General Departmental Scholarship

Foundry Educational Foundation/ R. Conner Warren Annual Scholarship in the College of Engineering

Fred W. Martin Annual Scholarship in Aerospace Engineering

Highland Industries Scholarship in Textile Engineering

Jerry Jackson Thomley and Patsy Woodham Thomley/Alabama Power Foundation Legacy Endowment Plan Annual Scholarship in the Samuel Ginn College of Engineering

Julia and Albert Smith Scholarships/ Fellowships

J.W. and Rosemary K. Brown Annual Scholarship in Chemical Engineering

Lane, Bishop, York, Delahay Incorporated Scholarship in Civil Engineering

Lockheed Martin

Materials Engineering

Michael Pindzola Fund for Excellence in Aerospace Engineering

Minority Engineering Scholarship

National Science Foundation Engineering Scholarship for Minority and Women

National Science Foundation Industrial and Systems/Mechanical Engineering Automotive Scholarship

Paton Family Annual Scholarship in Industrial and Systems Engineering

Patrick Michael Couch High Flight Foundation Annual Scholarship in Aerospace Engineering

Redd Family Foundation, Inc. Foley High School Academic Achievement Annual Scholarship in the Samuel Ginn College of Engineering

Robert Morgan Waters and Linda Barnes Waters Family Legacy Endowment Plan Annual Scholarship

Scholarships for National Merit Finalists in the Samuel Ginn College of Engineering

Seeds of Love/Willie T. Grant Annual Scholarship Award in the Samuel Ginn College of Engineering

Textile Engineering Miscellaneous Scholarship Account

Vodafone-US Foundation Grant

W. George Hairston III Annual Gift Scholarship

Senior Class Challenge

The Samuel Ginn College of Engineering challenges its seniors to make a monetary gift equaling their class year. With a gift of $20.05 or more, the graduates of 2005 had the opportunity to give back to Auburn, set an example for future generations of Auburn Engineering students, and help support student activities and projects.

The Engineering Senior Class Challenge contributors of 2005, including faculty and staff who donated matching gifts, are:

Mr. Jacob A. Ansley
Ms. Dianoosh Aviki
Mr. David Matthew Breland
Mr. Rees W. Bridges
Mr. Jody Brian Burrows
Mr. Gary Brooks Butler Jr.
Mr. Justin Dithmer
Mr. James O. Donald Jr.
Dr. Mark P. Dougherty
Mr. Joshua Brian Doyle
Dr. Oladiran Oluwafemi Fasina
Dr. John Patrick Fulton
Mr. Brian M. Griffin
Dr. David Thomas Hill
Mr. Bradley N. Jeffcoat
Ms. Renee Elizabeth Jones
Mr. Jared Dwayne Kelly
Mr. Corey Mitchell Kichler
Lt. Timothy E. Lowery
Dr. Timothy Paul McDonald
Ms. Elisa K. McGill
Mr. Phillip A. McPhail
Mr. Jonathan Donald Melton
Mr. Stephen Cody Prickett
Ms. Kathryn M. Roberts
Mr. James Scott Russell
Ms. Sarah Marie Sanders
Mr. Kenneth Sharpless
Dr. Puneet Srivastava
Dr. Steven E. Taylor
Mr. David R. Turner
Dr. Ted Tyson
Dr. Yifen Wang
Ms. Colie G. Warren
Ms. Katherine E. Wilbanks
Dr. Kyung Yoo

Organizations

In support of the unrelenting pursuit of excellence that has become synonymous with Auburn Engineering, the following organizations contributed $25,000 or more to the college during the 2005 calendar year:

ADTRAN, Inc.
Alabama Power Foundation, Inc.
Alabama Textile Education Foundation
American Cast Iron Pipe Company
Brasfield & Gorrie, LLC
ChevronTexaco
The Comer Foundation
Dynetics, Inc.
ExxonMobil
IBM
Intel Corporation
International Institute of Acoustics and Vibration
Jim Cooper Construction Company, Inc.
MeadWestvaco Corporation
Milliken & Company
NAPA Education Foundation, Inc.
Rockwell Collins
Southern Company Charitable Foundation, Inc.
Telcordia Technologies

Check out our E-gear!

ENGINEERING SPIRIT STORE

334.844.4804

www.eng.auburn.edu/spiritstore


ERSKINE RAMSAY
ENGINEERING HALL

Auburn Engineering at a glance

- Largest engineering program in Alabama, with a rich heritage dating back to 1872
- Offers the nation's first and only wireless engineering degree
- First university in the Southeast to offer bachelor's and master's degrees in software engineering
- Awards more than $1 million in scholarships annually
- Conducts approximately half of the university's $71 million in annual research
- Among ABET-accredited publicly funded institutions, *U.S.News & World Report* recently ranked Auburn Engineering:
  - Undergraduate program 40th; third in Southeastern Conference
  - Graduate program 46th
- Nineteenth in the nation in number of bachelor's degrees awarded to African-Americans, according to the American Society for Engineering Education
- Educated four astronauts and three members of the prestigious National Academy of Engineering
- Our students comprise one-third of all Auburn University honors students and 80 percent of the university's cooperative education students. They participate in a wide variety of educational activities beyond the classroom, gaining experience with teamwork and project management. These include the Society of Automotive Engineers (SAE) micro aerial vehicle, Formula SAE race car, Baja SAE all-terrain vehicles, solar car, solar house, concrete canoe, steel bridge and hovercraft competitions
- The university's Alabama Center for Paper and Bioresource Engineering is the nation's only pulp, paper and bioresource research and education center offering undergraduate curricula with pulp, paper and bioresource specializations for chemical, electrical and mechanical engineering students, and a multidisciplinary research environment for engineering graduate students and faculty
- The family of Auburn Engineering alumni is more than 30,000 strong

1856 2006
AUBURN
UNIVERSITY
Sesquicentennial

Samuel Ginn College of Engineering
Auburn University
108 Ramsay Hall
Auburn, AL 36849-5330

Nonprofit
Organization
U.S. Postage
PAID
Permit #9
Auburn, AL 36849