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*Inside front cover: Visitors entering the Shelby Center from Magnolia Avenue are greeted by a mosaic installation, one of several original works of art within the new engineering complex. Consisting of approximately 120,000 granite tiles (known as tesserae), the work was created by sculptors Gary Wagoner and Joanna Blake. Wagoner, an AU art professor, has exhibited ceramics and sculpture throughout his career as an artist and educator. He and Blake, an Auburn grad who resides in Washington, D.C., have collaborated on several projects throughout the campus. The mosaic honors the contributions of Samuel Ginn, namesake of the college.*
From the Dean

It was only a year ago that we were nearing the end of the most ambitious capital campaign that Auburn University had ever undertaken. Our planning was solid and execution was going well, with major strides being made toward our goal. Still, there were concerns about our success, given the goals we had set – namely, completing the largest campaign funding goal set by any academic unit on campus, ever.

It was nothing like third and long, but I can tell you now that there were many unresolved issues and questions that faced Auburn Engineering.

Most of those have now been resolved, including the fulfillment of our two highest priorities: raising the $105 million the College of Engineering needed to reach its campaign goal, and the more than $15 million needed to complete funding requirements for Phase II of the Shelby Center for Engineering Technology.

We met and surpassed both goals with the help of our loyal alumni and our steadfast friends – that is, with your help. Speaking for all of the engineering community at Auburn, I can’t thank you enough. It has been an incredible ride.

This edition of Auburn Engineering is dedicated to our donors, the nearly 10,000 contributors at all levels who are helping us to move into the nation’s elite level of engineering institutions. This, quite simply, is our ultimate goal and you are making it happen!

Interest and enrollment in the college are at levels not seen in recent history, with the average ACT for fall 2008 applicants at more than 27.5 and a median value of 28. More than 50 percent of accepted students for fall 2008 have been offered scholarships, and we enrolled 15 national merit finalists in the fall 2007 freshman class.

Our facilities renovation and construction resulted in a state-of-the-art engineering quad that offers the kinds of classrooms, laboratories and related space that will go a long way in attracting and recruiting more of the nation’s best students and faculty. We began with the renovation of Wilmore Laboratories and Ross Hall, and then moved to the completion of Phase I of the Shelby Center for Engineering Technology. Thanks to your support, we are now moving into the construction of Phase II of the center.

Still, great facilities are not all that is required to attract the best students and faculty. Financial compensation in the form of scholarships and professorships is needed as well. We have made substantial progress in building endowments for the former, but have great needs in the latter. As a result, we are now working to move into our vision goal of raising approximately $40 million to endow improvements in our faculty development program.

To attract top faculty we are simply going to have to do what our competitors do – give them the kind of compensation necessary to bring them to Auburn, and to keep them here. It’s that simple; the process will be to secure funding for professorships and chairs that make this goal a reality. Indeed, two examples of how faculty support programs work are detailed in this issue of Auburn Engineering, with Anton Schindler who is a Gottlieb professor of civil engineering, and Jin Wang, who holds the Redd Eminent Scholar Chair in chemical engineering.

We need to replicate this kind of support throughout the Samuel Ginn College of Engineering to complete our vision of engineering excellence, and we are going to be asking for your help to meet this ambitious goal. As I have said many times before, a bold vision brings with it challenges – challenges we must confront and overcome if our quest to become one of the nation’s premier engineering institutions is to be realized. I urge you to stay the course with us as we move forward into an exciting new era of achievement and growth.

Larry Benfield
For many Auburn Engineering students, opportunity abounds when doors are opened to new possibilities. Supporting these open doors are those who believe in the benefits of an equipped generation. For Auburn Engineering’s alumni and friends, this belief translates into gifts for scholarships and fellowships that enable students to meet their academic, personal and career goals during their time on campus. As leaders of tomorrow, these students will shape our local, state, national and international communities.

“Our scholarship students are a deeply motivated group of young people within the college,” said Joe Morgan, associate dean for academics. “Not only because they have a vision and drive to succeed academically, but because they understand the breadth of the gift they have been offered and maintain a sense of accountability that stays with them well into their professional lives.”

A debt of gratitude

Students like Natalie McCormick and Jake Mitchell take seriously the undergraduate financial support of those who came before them. McCormick, a senior from Maitland, Fla., transferred to Auburn to study civil engineering from New York University where she majored in theater. She is a recipient of the Herkt Scholarship Endowment and the Civil Engineering Alumni Scholarship.

“I am grateful for the opportunity to earn my degree in civil engineering from Auburn, and for the alumni support,” said McCormick. “I am particularly indebted to Melissa Brown Herkt for her financial support. This scholarship is important to achieve my own goal of becoming a successful, professional, female civil engineer, just as she did. She has influenced and inspired many women in engineering, including me.”

Herkt, a 1977 civil engineering graduate, is president of Process Systems & Solutions, a division of Emerson Process Management. She was the college’s first female co-op student and later became Exxon’s first female project engineer to be posted overseas with the company’s research and engineering unit.

Mitchell, a junior studying mechanical engineering, is a recipient of the Fred and Juanita Mace Scholarship. He believes that his scholarship has motivated him to become more ambitious. “Not only does it show that hard work isn’t overlooked, but it helps to push me even harder to reach my academic goals,” said Mitchell. “As I continue my coursework and co-op program, the confidence others have in me to succeed is encouraging and motivating.”
Currently in his third co-op semester with Altec Industries in Birmingham, Mitchell works on the engineering and manufacturing of lift-truck and digger-truck bodies used by the power and communications industries. “On a day-to-day basis I enjoy designing small machines and fixtures that simplify our manufacturing process,” explains Mitchell. “I have always been interested in machines and how they work.”

**No better gift**

For graduate students, the chance to obtain a fellowship provides more than the opportunity for advanced training and specialization in engineering research. Graduate fellowships support targeted instruction and in-depth analysis conducted by future scientists, researchers, educators and professional engineers. Their findings assist in generating new technologies and improving quality of life for citizens of Alabama, the nation and the world.

Jeff Alexy is a civil engineering graduate student and recipient of the George A. and Betty M. Luger Fellowship. His fellowship was created by Auburn alum Donald Luger in honor of his parents. Luger was inspired to create the fellowship in an effort to provide much-needed funds for graduate support, which would be specifically awarded to a student in the Department of Civil Engineering.

Alexy conducts research involving fiber-reinforced polymer strengthening of reinforced concrete bridges as part of his graduate curriculum. “I have an interest in this research because it is practical, and I enjoy seeing how it will be applied to everyday life,” said Alexy. “Receiving this fellowship has enabled me to continue my studies here at Auburn and allowed me the opportunity to perform significant, graduate-level research that can help to improve the lives of others. I couldn’t have asked for a better gift.”

Scholarship and fellowship recipients also develop a sense of charitable giving that influences them to support future students’ academic goals. It is for these reasons and more that Auburn engineers have been especially moved to allocate an array of financial gifts to the college throughout the “It Begins at Auburn” campaign.

“We have always experienced strong support from a variety of contributors and friends of the college,” said Larry Benefield, dean of engineering. “We are particularly grateful for this recent period of bold commitment from our alumni to lead and encourage students to excel by creating a deep network of available scholarships and fellowships.”

This profound commitment to giving strongly reflects the leadership of Auburn alumni and donors, those who share a confidence in students and the value their support brings to future generations of Auburn engineers. Ultimately, Auburn Engineering students seize those opportunities which are available to them. They anticipate the finish line, pass through the open door, and are grateful to those who held it open.
What do the nation’s top athletes and top professors have in common?

Like elite athletes, exceptional professors are in short supply and high demand. Competition for talent is particularly fierce in science and engineering. With starting salaries for engineering graduates topping $50,000, fewer students are choosing graduate school – the training ground for tomorrow’s professors. According to the Southern Regional Education Board, only three percent of the general population earns a doctorate or first professional degree. Of this total, about a third choose to work for the nation’s colleges and universities.

The situation is especially challenging for public universities because private institutions, with their high tuitions and large endowments, have set the bar for faculty salaries high. But that does not mean that public institutions such as Auburn’s Samuel Ginn College of Engineering can’t attract and hold on to top talent.

State supported schools like Auburn often have other things going for them – high quality of life, lower cost of living, strong traditions and a sense of family. They also have dedicated alums who are increasingly stepping up to fund endowed professorships which ensure that faculty salary packages are competitive.

An investment in faculty endowments provides a reliable source of funding for new positions, salary enhancements, research support, technological needs and professional development for those who have established themselves as leaders in their fields. Case in point is new faculty member Jin Wang in the Department of Chemical Engineering who holds the Redd Endowed Eminent Scholar Chair. Wang, whose background includes seven years of work in systems biology and five years of research in biochemical engineering, is exploring a systems biology approach to the early diagnosis and treatment of cancer, as well as the optimization of the microbial mixes used as biocatalysts in the production of biofuels.

“We were able to recruit Jin thanks to a generous endowment for bioengineering provided by alumnus Buddy Redd,” explains Department Chair Chris Roberts. “We would not have been able to create this position based on state funds alone. She has unlocked entirely new areas of research and discovery for this department.”

Wang explains that it was a combination of salary, as well as the offer of both wet and dry lab space that really cinched the deal for her. “I need both a computer lab and a wet lab to do my work,” she says. “Thanks to my professorship, Auburn was able to provide me with the environment and support I needed to advance my efforts in this highly specialized area. This puts me at an advantage when seeking outside funding and a winning team of graduate students.”
Professorships are also critical to Auburn Engineering’s ability to retain current faculty such as Anton Schindler who holds a Gottlieb Professorship. Schindler has established himself as a leader through his classroom efforts, as well as his work to improve the sustainability, performance and durability of concrete structures. From the modeling of in-place structural concrete performance, the development of self-consolidating concrete, the use of alternative fuels for cement production, to the rapid repair of existing structures, Schindler’s work has contributed much to national and international efforts to expand our knowledge of the world’s most widely used construction material.

Schindler explains that faculty members stay at an institution for a variety of reasons – competitive salaries, top-notch facilities and a good work and living environment. It also helps to have an administration that supports faculty efforts and helps meet their needs.

As an example of this support, Schindler cites Auburn’s recent decision to offer tuition fellowships and improved medical coverage for graduate students, as well as initiatives to increase the number of graduate fellowships. These changes make it easier for him to find the quality students he needs to advance his research. The professorship is part of this broader package.

“A named professorship is a great honor . . . a reward for a job well done, providing recognition at the department, college and university level,” says Schindler. “It means a lot when traveling and when seeking collaborators. Outsiders to Auburn University know that faculty with named professorships represent the best of the institution, which can open doors for collaboration.”

According to Civil Engineering Department Head Mike Stallings, the biggest challenge of professorships is that AU has too few of them.

“We have so many talented and hard working faculty and so few titled positions,” says Stallings. “In a field where salaries have not grown at rates as high as other workers with advanced levels of education, professorships are some of the most valuable tools we have to recognize excellence.”

And excellence matters – to people and to the bottom line. Adding 25 years of life to a concrete bridge or roadway means less highway construction, fewer traffic delays, improved safety and money saved. Identifying a noninvasive way to accurately diagnose cancer means earlier detection, increased survival and a reduction in unnecessary surgeries.

While it is certainly easier to define excellence in the world of athletics, the stakes in the academic world are much higher. After all, it is successful graduates, new technologies and the businesses that spring from them that are the foundation for our nation’s future.
A common commitment
Industry leaders invest in NCAT

You don’t have to be an Auburn alum to understand the vision of Auburn Engineering.

A.J. Ronyak is a fourth generation asphalt man, born and raised in the industry. His father, grandfather and great-grandfather were all pavement pioneers in Ohio. He didn’t come by success easily though, first shoveling asphalt then running heavy equipment and eventually making asphalt.

In contrast, Ron Kenyon had barely graduated high school when he started working for a local pavement company in Des Moines, Iowa. When he found out that the company he was working for was soon to be sold, Kenyon started an ambitious campaign to buy it himself. The company worked with him to finance the project, and Kenyon started his own company, Ronald Kenyon Construction Company, which he ran until his retirement in 1992.

Both men are pioneers in the field, involved in a multitude of industry and trade organizations and known worldwide for their innovations in asphalt technology and design. While neither one holds an Auburn degree, both Ronyak and Kenyon share a passion for and a belief in the future of asphalt technology research at Auburn University. They both have made generous gifts to the National Center for Asphalt Technology (NCAT), supporting the leading edge research for which the center is internationally known.

“As far as I’m concerned, NCAT is the top dog in asphalt research,” says Ronyak. “With the test track and the different mix designs that they’re monitoring, the whole program is truly state of the art.”

A former manager of the world’s largest asphalt plant, owned by the Thompson McCulley Company, Ronyak holds an international patent on an additive he developed that neutralizes asphalt odor. Thompson McCulley funded the initial testing of the additive at NCAT, which began more than 15 years ago. NCAT has continued testing the materials for various uses during the past 10 years.

“In this day and age, our concern is protecting the asphalt industry as a whole,” says Ronyak. “A plant might be operating in an area for years and then all of a sudden housing develops nearby and the plant is shut down because of the odor issues. That’s always a serious hurdle for our business.”

Because NCAT was so helpful in testing Ronyak’s additive, he and his wife Patty have designated a $2.8 million gift to NCAT from their estate. Ronyak says that a gift to the center just made sense for their family.
“The asphalt industry has been really good to my wife and me, and with NCAT’s help, we’re going to keep the business alive for as long as asphalt is around,” he says. “It’s been fun being able to semi-retire at an early age and have the means to give back to the asphalt industry in some way. For us, Auburn and NCAT were a great place to start.”

Though they come from different backgrounds, Kenyon’s story of NCAT support is much the same. Kenyon also has a long history as a pioneer in the development and implementation of innovations in the Hot Mix Asphalt (HMA) industry. Now retired from his work as the owner of Ronald Kenyon Construction Company, he is known particularly for his work with drum mixing technology, the recycling of HMA paving materials and equipment improvements that have been adopted on an industry-wide basis.

Kenyon’s firm was a charter member of the National Asphalt Paving Association (NAPA). He served on various committees and task forces and in numerous national offices. Grasping the reins as NAPA chairman of the board in 1988, Kenyon led the effort to raise $10 million to establish an endowment supporting education, research and information services in the hot mix asphalt industry. This endowment in many ways led to the NCAT we know today.

“Ron really felt that NCAT was a part of him,” said Ray Brown, former NCAT director and friend of Kenyon. “He recognized where he came from, what he had become and how he had gotten there, and he wanted to give back to the industry. Ron felt that NCAT was the best place to do that, and he was always involved in whatever we were working on there.”

In 1991, he was honored as NAPA Man of the Year for his efforts on behalf of NCAT. That same year, the Ronald D. Kenyon Education and Research Award of the NAPA Education Foundation was established to recognize individuals for their outstanding contributions in asphalt research.

In 1999, Kenyon and his wife established Auburn’s $1 million Ronald D. and Margaret L. Kenyon Endowment for Fellowships in Asphalt Technology, providing scholarships to graduate students performing asphalt technology research at NCAT.

“Mr. Ronyak and Mr. Kenyon’s leadership in the asphalt industry are inspirational,” says Randy West, director of NCAT. “Their commitments to NCAT will be a lasting legacy that will help us continue the kind of practical research that Auburn engineers are known for worldwide.”
The events of April 18, 2008 marked a pivotal day in the life of Auburn Engineering as alumni, friends and dignitaries joined the university community to dedicate the first phase of the new Sen. Richard C. and Dr. Annette N. Shelby Center for Engineering Technology.

Representing one of the largest building projects in the history of Auburn University and a key element in an extensive engineering facilities enhancement plan, the Shelby Center is a state-of-the-art teaching and research environment. In January, faculty, staff and students moved into the central pavilion and east and west wings, which house administration, the Office of Student Services, the AT&T Minority Engineering Program and the departments of Industrial and Systems Engineering and Computer Science and Software Engineering.

Phase II, to begin construction in late summer, will consist of a new mechanical engineering building and an advanced research laboratory. Together, these facilities will enable the college to attract world-class faculty, recruit top-notch students and conduct innovative research.

"I am proud of this facility and I am proud of Auburn University. I am also proud to know that this is the largest engineering education facility that we have in the state. If we can build world-class math, science and engineering facilities at our major universities, we will change the economy of this state and we will change the opportunities of our grandchildren."

Richard C. Shelby, U.S. Senator
Alabama

"As an academic, I am particularly happy to be associated with any building dedicated to teaching, research and service. To be associated with this beautiful building is very, very special indeed. May this facility create an environment that shares knowledge and resources for the benefit of Alabama, the benefit of the nation and the benefit of all humankind."

Annette N. Shelby, Professor Emerita
Georgetown University

Dean Larry Benefield welcomes guests to the dedication ceremony of Phase I of the new Sen. Richard C. and Dr. Annette N. Shelby Center for Engineering Technology. The ceremony was held in the Lowe Lobby and Grand Foyer.
Birmingham-based firm Hoar Construction managed the construction of the Shelby Center and provided oversight for eight prime contractors. Bailey Harris Construction, Auburn Electric, AMCO Engineering, Brendle Sprinkler, Elevator Maintenance and Repair, and Selective Masonry all hail from Alabama. Rounding out the list are specialty companies Kewaunee from North Carolina and New York-based IEC. On an average day, there were more than 125 workers on site. Here are some interesting facts related to construction of the complex:

- Cubic yards of concrete: 10,432
- Tons of rebar: 1,100
- Bricks: 975,000
- Concrete blocks: 125,000
- Masonry man-hours: 120,000
- Pieces of limestone and granite: 2,500
- Bags of mortar mix: 11,000
- Doors: 400 +
- Windows: 400 +
- Squares of shingles: 800
- Feet of electrical wire: 743,905
- Light fixtures: 3,414
- Switches and receptacles: 2,702
- Telephone or computer data outlets: 1,108

“The Shelby Center represents a major step in satisfying our facilities needs as we work to move to the next level of excellence. You only have to look around to understand what this facility will mean to our recruitment efforts to attract the finest students and faculty.”

Larry Benefield, Dean
Samuel Ginn College of Engineering

“The Trustees know that now that we have this facility we must make it work. We have great confidence in Larry Benefield and his staff to make sure that we turn out the kind of engineers that will help us compete in the global economy. If we cannot technologically innovate over the next century, then we cannot compete in a global economy.”

Samuel Ginn, Member
Auburn University Board of Trustees

“The vision and leadership of Dean Larry Benefield, the faculty, staff and students in this college have given us something we can be proud of for decades to come. It will truly leave a legacy for all of us.”

Jay Gogue, President
Auburn University

The Sum of its Parts
A major component of Auburn Engineering’s vision – once just a dream – officially became a reality at the college’s dedication ceremony of the Sen. Richard C. and Dr. Annette N. Shelby Center for Engineering Technology. The new engineering complex, to be completed in two phases, is critical to the college’s quest to become one of the nation’s top engineering institutions. This quest remains dependent on those who share our belief in what we can accomplish. The dedication of our faculty and staff, the diligence of our students, and the generosity of our alumni and friends have worked together to bring the dream of a foremost engineering complex to fruition.

The Shelby Center has afforded the college a tangible opportunity to recognize the gifts of our benefactors by naming areas of the complex in honor of those who have made gifts to ensure the completion of both Phase I and Phase II of the complex.

James Thomas Alley Associate Dean’s Office
The late James Thomas Alley, mechanical engineering, 1948, Tulane University, enjoyed a career at US Steel that spanned 48 years. He held a bachelor’s in civil engineering and a Master’s in general engineering from UAB. He was a member of Auburn’s Engineering Eagles Society and supported an endowed scholarship for graduate engineering studies.

O. William Bynum Gallery
The Bynum Gallery is dedicated to the memory of O. William Bynum, electrical engineering, 1930, by his sons, Bill and Bob Bynum. As a young engineer, Bynum joined the Carrier Corporation and worked closely with Dr. Carrier, eventually providing the engineering and management expertise that would result in a $25 billion HVAC industry. He served as president, chairman, director and CEO of Carrier Corporation. He received Auburn University’s Algernon Sydney Sullivan award and was a member of the State of Alabama Engineering Hall of Fame.

Dynetics Student Gallery
Dynetics, Inc. began recruiting Auburn engineers in 1976, a year after its founding, and has maintained a strong relationship with Auburn Engineering. Dynetics believes in the power of engineering solutions, recognizing that engineers provide the ideas and products that fuel the American economy and make our lives more productive.

Carol Ann and Charles E. Gavin III Classroom and Gavin Dean’s Office Suite
Charles E. Gavin III, textile engineering, 1959, is chairman of MFG Chemical, Inc. and a member of the Auburn Textile Education Foundation. He is a founding member of the American Association of Textile Chemists and Colorists Foundation. He is a member of the Engineering Keystone Society and the 2003 Distinguished Auburn Engineering Alumnus. The Gavin Family Foundation provides scholarships to students pursuing careers in chemical engineering and the textile industry. Charles shares with his wife Carol Ann a deep commitment to higher education.

Emma and Al Gentle, Sr. Graduate Student Office
Alfred F. Gentle, Sr., electrical engineering, 1950, enjoyed a 35-year career with Southern Bell Telephone and Telegraph Company, ultimately rising to operations manager. He is a member of the Engineering Eagles Society, and shares his commitment to Auburn with his wife Emma and daughters Anita G. Newcomb ’76 and Nancy G. Boudrie ’86.

John T. Hartley Auditorium
John T. Hartley, chemistry, 1951; electrical engineering, 1955; honorary doctorate, 1996; enjoyed a long career with Harris Corporation, ultimately rising to chairman and CEO. He holds the Outstanding Electrical Engineering Alumni Award and is a member of the State of Alabama Engineering Hall of Fame.

Lavon F. Jordan, mechanical engineering, 1969, is recognized as an aerospace pioneer. He has managed successful defense programs and served on two national committees addressing defense modernization. Jordan is chairman of the board and CEO of Frontier Technology, Inc. He is a member of the Auburn Alumni Engineering Council and the Engineering Eagles Society, and shares his dedication to Auburn Engineering with his wife Nancy.
Oliver D. Kingsley, Jr. and Sally Y. Kingsley Portico and Courtyard
Oliver D. Kingsley, Jr., engineering physics, 1966, had a distinguished career in the nuclear industry, ultimately becoming chair and CEO of Exelon Generation. He is president of the World Association of Nuclear Operators and is internationally recognized as a leader in transforming the operation of nuclear power plants. He is a member of the National Academy of Engineering, the State of Alabama Engineering Hall of Fame, the college’s Auburn Alumni Engineering Council, Engineering Eagles and Keystone societies, and served as chair of the Engineering Campaign Leadership Team. Sally is a 1966 math education graduate from Auburn.

Tom and Bettye Lowe Lobby and Grand Foyer
Thomas M. Lowe, Jr., civil engineering, 1949, founded Lowe Engineers, Inc. in 1957, a leader in the planning, design and construction supervision of civil engineering projects throughout the Southeast. He has served as a Fulton County Commissioner since 1974. He is a member of the Auburn Alumni Engineering Council and the Engineering Eagles Society, and with his wife Bettye, has been a significant contributor to Auburn University and the College of Engineering.

Mike and Jane McCartney Hospitality Suite and Terrace
Michael B. McCartney, civil engineering, 1957; honorary doctorate, 1984; is president of McCartney Construction Company, Inc., widely recognized as an innovator in road construction. He has served on the executive committee of the Auburn Alumni Engineering Council and received the Distinguished Auburn Engineer Award and the Outstanding Civil Engineering Alumni Award. McCartney helped bring the National Center for Asphalt Technology to Auburn and is a founding member of its board. He is a member of the State of Alabama Engineering Hall of Fame and served on the Auburn Board of Trustees for 12 years. Mike and Jane are ardent supporters of Auburn.

James D. McMillan Associate Dean’s Office
James D. McMillan, chemical engineering, 1961, enjoyed a career that progressed from engineering to business management to being a lobbyist in Washington, D.C. for 20 years. He is retired from ExxonMobil and is a member of the college’s Keystone Society.

William R. and Lana McNair Minority Engineering Program Office Suite
William R. McNair, electrical engineering, 1968; MBA, 1970; is a highly regarded telecommunications executive having served as vice president of network operations for BellSouth Corporation. He was instrumental in securing funding for the BellSouth Minority Engineering Program, now known as the AT&T Minority Engineering Program. He is a member of the Auburn Alumni Engineering Council, Engineering Eagles and Keystone societies, and the Engineering Campaign Leadership Team. He and his wife Lana share a longstanding commitment to the college.

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Ed and Peggy Reynolds Wireless Engineering Lab
Edgar L. Reynolds, electrical engineering, 1970, had a distinguished career in telecommunications and was the only person to serve as president of all four wireless subsidiaries of BellSouth. He pioneered wireless service into rural areas, and later served as president of network operations for Cingular Wireless, now AT&T Mobility. He is a member of the Auburn Alumni Engineering Council, the Engineering Eagles Society and the State of Alabama Engineering Hall of Fame, and shares his commitment to Auburn Engineering with his wife Peggy.

Marjorie and Richard Quina Atrium
Richard D. Quina, mechanical engineering, 1948, is a retired executive of International Paper and Smurfit Corporation and enjoyed a distinguished career in the pulp and paper industry. He has served on the Auburn Alumni Engineering Council and the Auburn Pulp and Paper Foundation. He is a member of the Engineering Eagles Society, the Samford Society and the 1856 Society. He and his late wife, Marjorie, have also supported an engineering professorship, the Auburn Pulp and Paper Foundation, and the College of Human Sciences’ international program.

E. Tillman Warnock Student Study Hall
The student study hall is dedicated by Becky and Bill Warnock in loving memory of Bill’s grandfather, Everett Tillman Warnock, 1904-1978. Tillman Warnock felt great pride in his grandson Bill who graduated in civil engineering in 1974. The spirit, perseverance and sense of purpose that characterized Tillman’s life are the same attributes that define Auburn students and faculty. Bill is a member of the Auburn Alumni Engineering Council.

Carol and G. Ed Williamson II Dean’s Conference Room
G. Ed Williamson II, aerospace engineering, 1967, began his career working in the steel building industry and later joined the Williamson Automotive Group, where he is now chairman and CEO. He and his wife Carol share a dedication to higher education with both serving in leadership positions at various universities. They are generous supporters of Auburn University, making significant contributions to both the College of Engineering and the Auburn University band.

Phase II Donors
Donors to be recognized in Phase II include:

- Carroll Air Systems
- Clarence and Lynn Hornsby
- Charlie and Rosemary Jager
- Kresge Foundation
- Bill and Betty Reed
- Bill and Martha Ward
- Ernie and Sandra Warren
- Dwight and Sally Wiggins
Spotlight on Mechanical

The control of epidemics and pandemics is a key issue for the civil aviation community. The recent SARS outbreak and the concern over the spread of avian influenza serve as a warning of how rapidly disease can spread in the age of global mobility. Furthermore, civil aviation has long been subject to the threat of terrorism, culminating in the tragic events of 9/11. Given the history of the use of chemical and biological agents by terrorists and rogue states, there is concern that these could be employed to target airliners. Their impact, in both human and financial terms, is substantial.

To address this need, the Air Transportation Center of Excellence for Airliner Cabin Environment Research (ACER) conducted a demonstration of the use of advanced decontamination technologies for civil aviation applications. The demonstration evaluated two technologies at a Federal Aviation Administration site in Oklahoma City. The first of these was a thermal...
decontamination system, produced by AeroClave LLC of Orlando for eliminating viruses. The second technology was Vaporized Hydrogen Peroxide (VHP), from STERIS Corporation, for destroying biological agents that are challenging to eliminate.

“This is the first demonstration of decontamination that is suitable for use with wide body airliners, as opposed to military hardware,” said William Gale, former ACER executive director and Auburn University Alumni Professor. According to Gale, ACER has also demonstrated the same technologies for decontaminating railcars and evaluated their use for buses and ambulances.

Auburn University is the lead in the seven-university research center. ACER is sponsored by the Federal Aviation Administration’s Office of Aerospace Medicine, based at FAA Headquarters in Washington, D.C. Work at the center will expand under its new name, the National Center of Excellence for Research in the Intermodal Transport Environment (RITE) and a new director, Tony Overfelt, materials engineering faculty member.

Aerospace faculty member Roy Hartfield and former doctoral candidate Christoph Burger and are examining the viability of a passive variable pitch propeller for small aerial remotely piloted vehicles (RPV) and unmanned aerial systems (UAS) using a self-adjusting, mechanical pitch control mechanism. Their work includes the design and testing of a mechanical pitch change mechanism based on a constant torque spring for an off-the-shelf propeller. A propeller performance prediction code, based on the vortex lattice method, in combination with a genetic algorithm is used to optimize a propeller for given motor performance data. The optimization process includes results for both single point and multipoint design optimization efforts.

The small-scale UASs, which are used in military reconnaissance operations, are equipped with fixed pitch propellers which can be exchanged based on mission requirements. Fixed pitch propellers are used for system simplicity, weight savings and unavailability of a viable alternative. The design of a constant torque propeller changes the propeller pitch automatically and without external power input based on flight condition. This allows the UAS to operate at high propeller and motor efficiencies throughout the flight envelope, improving range, endurance and cruising speed.

The concept behind the constant torque propeller is to introduce a lightweight and passive propeller control system which requires no electric power to operate, but at the same time improves the efficiency of the motor propeller combination over the flight envelope. The technology has been licensed to Canadian company Kondar Model Products/Aerovate.

Biosystems

The Center for Bioenergy and Bioproducts has purchased a mobile gasification and power generation unit as part of the overall emphasis on thermochemical conversion of biomass to liquid fuels, chemicals, power and heat. The mobile unit contains a gasifier, gas filtration unit, and a combined heat and power generation unit. Researchers have been working on the initial shakedown and operation of the unit using woodchips produced from a forest harvesting research project being conducted by faculty in the School of Forestry and Wildlife Sciences. The unit uses about 50 pounds of biomass per hour to generate 25 kilowatts of electricity.

Built to Auburn’s specifications by Community Power Corporation in Littleton, Colo., the unit is the first one the company has constructed on a mobile platform. Designed specifically for both education and research, it has already been demonstrated for the Alabama Legislature at Alabama Energy Day, which was held at the Alabama...
Civil

Toxic metals such as chromium, lead, mercury and arsenic have been widely detected at thousands of priority sites in the U.S. For many decades, it has been highly challenging to mitigate their toxic effects on human and environmental health. To address this issue, a group of AU environmental engineers headed by faculty member Don Zhao has developed a host of environmentally friendly nanoparticles that can detain toxic metal ions in groundwater, soils, sediments and solid wastes such as poultry litter. Experimental data indicate that the nanoparticles can substantially reduce leachability, bioaccessibility and toxicity of these metals.

At the nanoscale, the materials can be easily delivered to the targeted contaminant zones, which are often deep in the ground. Compared to larger particles, nanoparticles offer greater sorption capacity and reactivity toward the contaminants. The nanotechnology developed by Zhao’s group applies a class of food-grade and low-cost starch or cellulose as a stabilizer. The use of the stabilizers facilitates manipulation of the particle size and transport of the nanoparticles. Auburn has filed for patent protection on the technologies, and a number of commercial firms have shown interest in further testing them. Given the known health risks of heavy metals and the scope of the contamination legacy, the technologies will provide millions of affected people with immediately tangible health and economic relief in the future.

Zhao’s research has been funded by the Environmental Protection Agency, the American Water Works Association Research Foundation, the Department of Energy, the USGS-Alabama Water Resources Research Institute and the Alabama Agricultural Initiative.

Chemical

Because the components in human cells are in nanoscale range, nanotechnology is poised to significantly affect medicine. Recent benefits to medicine have come from the use of nanoparticles, which are tiny particles approximately 200-fold smaller than the diameter of a human hair. For example, nano-taxol, recently approved for breast cancer, provides significantly better treatment with reduced toxicity. Due to their versatility in targeting tissues, accessing deep molecular targets, and controlling drug release, nanoparticles are helping address challenges in the delivery of both modern and conventional drugs.

Faculty member Ram Gupta’s research is in the area of the production of pharmaceutical nanoparticles. His research group has developed a process to produce nanoparticles of controllable size. The drug compound is first dissolved in a solvent, and then precipitated extremely rapidly, yet controllably, using supercritical CO2, to produce nanoparticles of desired size. The technology has now been adopted by the pharmaceutical industry for commercial production. In many of the medical applications, these nanoparticles can be used directly via oral, injection, inhalation, dermal and other routes. His group is also utilizing the nanoparticles to produce smart drug formulations. Examples include, sustained-release medicine, where one dose is enough for the whole treatment; magnetically responsive drug nanoparticles for targeted delivery to the disease site, thereby avoiding side effects; and nanoparticle delivery to the brain for treatment of cancer, memory loss, Alzheimer’s and other conditions.

Computer Science and Software

Faculty member Xiao Qin has been awarded a three-year, $150,000 grant from the National Science Foundation for his proposal, “Mathematical reliability models for energy-efficient parallel disk systems.”

Numerous techniques have been proposed to conserve energy in parallel disk systems. However, little research has focused on simultaneously improving reliability and energy efficiency of parallel disks. When it comes to mission critical data stored on disks, high reliability is the most important characteristic of disk I/O systems. Recent studies show that an array of factors including temperature, utilization, scan errors, reallocation counts, offline reallocation, miscellaneous signals, manufacturers and models can all cause failures in disk systems.
Parallel disks consisting of multiple disks with high-speed switched interconnects are ideal for data-intensive applications running in high-performance computing systems. Improving the energy efficiency of parallel disks is an intrinsic requirement of next generation high-performance, high-reliability computing systems, because a storage subsystem can represent 27 percent of the energy consumed in a data center. It is a major challenge to build energy-efficient parallel disk systems that coordinate I/Os of hundreds or thousands of concurrent disk devices to meet high-performance and energy-saving requirements.

**Electrical and Computer**

Faculty member Robert Dean is assisting NASA in the selection of a MEMS-based oxygen sensor/sensor system for the manned space shuttle replacement on the Ares I and Ares V launch vehicles. Specifically, this sensor will monitor oxygen concentration levels in the Ares solid rocket booster aft skirt area, which contains machinery that could potentially leak flammable fluids into an area that also contains electrical equipment. Inclusion of a suitable oxygen sensor will allow safety measures to be initiated if the oxygen level becomes high enough for combustion to occur. This will result in a safer manned launch vehicle. The operating environment is particularly harsh, necessitating a thorough investigation of candidate oxygen sensors.

Additionally, Dean and George Flowers (ME) were recently awarded a U.S. patent, "A Micromachined Device Utilizing Electrostatic Comb Drives to Filter Mechanical Vibrations (patent number 7355318)." This invention is for a technique to realize tiny active vibration isolation platforms to protect vibration sensitive components, such as MEMS gyroscopes and micro optics, from high frequency mechanical vibrations that are present in some operating environments. This invention could enable these components to be used in applications that have been problematic to date.

**Industrial and Systems**

In many industrial situations, increasing processing times are caused by worker fatigue. A rest period can improve workers’ performance, thus restoring the optimal processing times. Faculty members Emmett Lodree, Jr., Jerry Davis and Robert Bulfin and graduate students Bobbie Watts, Dumakas Snipes, Kandace Ballard and Yucel Ozturkoglu, are currently working on a research project studying deterioration and rate-modifying activities (RMA) effects in a scheduling environment. More specifically, they have developed a mathematical model that determines the sequence in which jobs should be scheduled, how many RMAs to use, if any, and where to use them in the schedule. In their model, performance measurements are total completion time and makespan with up to 50 jobs. The model is capable of solving problems optimally within a reasonable computational time.

Mathematical models that generate optimal work-rest schedules will be based on data collected from human workers in a warehouse order picking environment. As a result of the findings from the order picking simulation pilot test conducted in fall 2007, an additional study was designed and conducted in March 2008 to further evaluate the physiological and psychophysical effects of picking various workloads. As with the pilot test, subjects simulated picking packages of various weights at a set work pace. However, this study included more subjects, more females, and an additional package weight. Heart rate data were collected in five second intervals to better analyze the physiological trend of work and recovery with respect to time. The data are currently being analyzed to determine those trends.

**Polymer and Fiber**

The Department of Commerce is funding a “program for advanced research and development of novel polymeric materials and structures at Auburn University.” New polymer labs will provide possibilities for joint research in polymers and reinforced materials with industry as well as the Auburn University Peaks of Excellence programs in Detection and Food Safety and Transportation, the Pulp and Paper Research and Education Center, and the Center for Microfibrous Materials Manufacturing.

New polymeric materials will enhance existing products and lead to the development of new products. An example of the latter is a satellite that, in order to complete its intended functions, must maintain its exact dimensions as it passes through day and night in the course of its orbit. Polymers used in both the fibers and encapsulation (matrix) in composites for satellites can be manufactured to have high-dimensional stability over a broad range of temperatures. Without composites, much of the satellite technology would be impossible to achieve.

Novel polymeric materials will serve useful purposes in sectors including aerospace, automotive, marine, military, transportation, infrastructure, construction and biomedical. Because advanced polymers can be engineered to have properties quite different than conventional materials, new vistas are open to designers whose ideas were limited by the low strength-to-weight ratios or thermal expansion/contraction properties.

This project builds upon previous research and development of polymeric materials, equipment and measurement techniques. The research will continue improvements in existing polymeric materials and the development of novel polymers. Results will provide more accurate data for formulating optimal processing parameters to enhance mechanical properties and reduce processing time. The project will also develop architecture for facilitating the use of the generated data by manufacturers of polymeric materials and other industrial customers.
When did you first know that you wanted to be an engineer?

When I was ten or twelve years of age, an uncle, who was an engineer who had graduated from Auburn University, encouraged me to become interested in mathematics and science. It was my mother who encouraged me to pursue a higher education and go to college.

If you had to choose one thing that you learned at Auburn that has served you well throughout your life, what would that be?

At Auburn I developed a strong work ethic that has continued to serve me throughout my career. When I entered Auburn as a World War II Navy veteran, I was intent on graduating as soon as possible. I found by applying myself, taking extra course work and working through courses in the summers, I could graduate early. I did so at 22 years of age, even with active military service.

You were a chief architect of America’s ballistic missile defense system. What was the best part of that experience?

I was the first deputy program manager for the Army’s ballistic missile defense. My position was one of continuity for the program since the program manager frequently changed. This change resulted in my essentially managing the program. This task was challenging because we were deploying the first national missile defense system.

After retiring, you entered the private sector. Was it a tough change?

The transition from government service to the private sector was smooth for me. The two are different by the fact that industry has a profit motive, whereas the government does not. However, the technical problems that are encountered are very similar, and most times I have been involved with projects where government is the customer.

What do you do now?

I am the majority owner and chairman of the board of Davidson Technologies, Inc., a defense contractor with a focus on space and missile defense. I manage the company and continue to work in engineering applications to missiles and space.
Yours has been a lifetime filled with success. But along the way there had to have been a few failures. Tell us about one that you learned from.

Some years ago, along with others, we started a company in the health industry. This was a mistake due to our lack of understanding of the product and the marketing requirements. I sometimes give talks and advice to entrepreneurs on problems in starting a new company. The main advice has been to know the product and to have a marketing plan. I also emphasize the handling and understanding of cash flow. The lessons that I learned, I employed when I started Davidson Technologies with a budget of $28 million employing 200 people.

You were the first to tailor systems engineering to fit missile defense requirements. What do you consider your most important professional contribution?

I consider being a pioneer in missile defense my most important professional contribution. When I began in this new phase in our national defense over 50 years ago, it was in its infancy. I was a systems engineer for the Safeguard program, which was the first national missile defense system deployed by the United States. I was involved in the missile defense technology that achieved a number of firsts in the field. It has been this technology that has led to the successes in the later systems that followed up to the present time.

How about personal contribution?

My personal contribution has been my ability to give back to Auburn, in my small way, for the education that I received and whatever success that I have had as a result of it. I have been a member of the Auburn Alumni Engineering Council for about 20 years. I have a strong desire to work with Engineering to ensure the advancement of engineering education at the university.

With the addition of the Davidson Center for Space Exploration at the U.S. Space and Rocket Center, how does it feel to drive by that sign each day?

I feel humble. It also makes me feel proud of Alabama and the engineers who developed and launched astronauts into space, and who have been responsible for so much of the technology that has become a part of our life. It is why my wife Dorothy and I dedicated the building to the Alabama engineers who achieved the amazing feat of space technology which has its history here in Huntsville with the Saturn V program.

What is next for you?

I plan to continue to contribute to important national programs whenever I can, and to pass on the lessons learned to younger engineers, and hope to avoid past mistakes in the development and testing of missiles.
An Authority in Project Management

Melissa Brown Herkt  
Civil Engineering, 1977

During a career that began in the mid ‘70s, Alabama native Melissa Herkt, president of Emerson Process Solutions, has been at the leading edge of the relatively new discipline of project management. With experience in all aspects of international project management in industry sectors ranging from petrochemicals to pharmaceuticals, she is recognized as a leader in organizing and managing resources in a manner that ensures that projects are completed within defined scope, quality, time and cost constraints.

One of the world’s foremost authorities on project management, Herkt has brought an engineer’s critical eye for detail, an uncanny ability to see the big picture and the ability to balance the two to each project she has undertaken, all while quietly shattering the glass ceiling that had long kept women out of the nation’s corporate suites.

Managing the Business of Energy

Walter F. Johnsey  
Electrical Engineering, 1949

The late Walter Johnsey’s engineering and business career could fill the lifetimes of several men. His professional life included 28-year tenures with both Alabama Power – where he advanced through the engineering and operations ranks to become executive vice president, chief financial officer and a member of its board of directors – and Drummond Coal – where he served as president and CFO of its subsidiary, Perry Supply Company.

Johnsey was an active member of the Birmingham Regional Chamber of Commerce and a loyal supporter of higher education. He helped many talented students to achieve their dreams of a college education. In 2004, for his 80th birthday, the Walter F. Johnsey Endowment for Scholarships in Electrical Engineering was established by friends and family in his honor. Throughout his long and distinguished career in the energy industry and his local and state civic activities, Johnsey made a tremendous impact on the state of Alabama and its students. His grandson Johnsey Ruggerio accepted the award on his behalf.

A Pioneer in the Oil and Gas Industry

George E. Uthlaut  
Chemical Engineering, 1954

George Uthlaut enjoyed a distinguished career in the petroleum industry and is recognized for his technical expertise in the areas of oil and gas exploration and production. He spent nearly three decades with Exxon Corporation applying his engineering skills to a variety of energy ventures from Florida’s enormous Jay Oil Field to the giant Trans-Alaska Pipeline to North Sea explorations. He rose steadily through a number of positions within the company, ultimately serving as managing director.
Following an impressive career with Exxon, he began a second career with Enron Oil and Gas Company. Some 50 years later, he is recognized for making significant contributions to not one, but two, of the world’s largest oil and gas companies. In addition to a career marked by personal achievements, Uthlaut has placed a great deal of emphasis on numerous professional, civic and philanthropic endeavors which serve to advance the science and profession of engineering in many arenas.

An Entrepreneurial Engineer

John H. Watson
Mechanical Engineering, 1960

From his humble beginnings in Skipperville, Ala., to his current position as chairman of Smith’s Inc. of Dothan, John Watson has a distinguished history of engineering and business excellence. Following two years in the Corps of Engineers, Watson took a position as a mechanical engineer at Smith’s Inc. In 1966, only six years after his graduation from Auburn’s engineering program, Watson became the co-owner and president of an engineering firm that would grow to be one of the most substantial companies in the region, as well a significant employer in the Wiregrass.

Today, Watson’s business acumen can be seen not only in the mechanical engineering firm, but also through a design-build corporation and numerous other ventures. Watson’s impressive accomplishments also include a commitment to those around him. He surrounds himself with people who share his dedication, and he makes a habit of giving back to those who are sure to have that same potential.

Engineering Quality of Life

Walter S. Woltosz
Aerospace Engineering, BS 1969, MS 1977

The professional career of Walt Woltosz testifies to the potential of an engineering mind to impact the world. Combining his engineering knowledge with a problem-solving personality, Woltosz has established himself as one who sees both the current and the potential. He has taken this ability and applied it to creating innovative technologies in three distinct careers – the aerospace industry, the augmentative communications field, and in pharmaceutical research and development. He is internationally recognized as an engineer determined to use his expertise in ways that improve quality of life.

Woltosz has combined his engineering accomplishments with sound business practices and seen the success of two cutting-edge companies. He is chairman, president and CEO of Simulations Plus, Inc., a leading developer of pharmaceutical simulations and modeling software, and its subsidiary, Words+, Inc., a provider of state-of-the-art communication products – one of which was used by world-renowned astrophysicist Stephen Hawking, granting the world access to Hawking’s masterful theoretical concepts and his best-selling book, A Brief History of Time. Woltosz’s technologies have set him apart in the field of simulation and modeling, and he is recognized worldwide as a pioneer in the computer simulation industry.
What were the beginnings of Auburn Engineering? Where did the first students come from, and how did they shape the profession? Who was the first professor and when did he teach his first courses? These questions—and many more—will be answered in a new history that is now being written as the College of Engineering celebrates its 100th birthday.

Our beginnings trace from the 1908-09 school year when President Charles Coleman Thach reorganized the management of the faculty and established the College of Engineering as a distinct entity. Our roots, however, go back to the 1870s when East Alabama Male College was reorganized under the Land Grant College Act and became an agricultural and mechanical institution.

The A&M College was anchored by six professors who held chairs in agriculture, engineering, languages, mathematics, moral philosophy and natural science. Its new president, Isaac Taylor Tichenor selected Robert A. Hardaway, a graduate of Spring Hill College in Mobile and Emory College in Georgia, as engineering’s first professor.

Hardaway worked as a transit operator on a survey crew for the Mobile and Girard Railroad where his father was president, and rose to become superintendent of the railroad. When war broke out, he entered the confederate army as an artillery captain and was promoted to lieutenant colonel after being wounded at Spotsylvania.

Paroled at Appomattox Court House, Hardaway returned to his plantation in Macon County from 1869 to 1871 and again worked as chief engineer and superintendent of the Mobile and Girard Railroad. He joined the faculty of the A&M College in 1872.

Professor Hardaway designed the engineering curriculum around his personal interests: drawing, surveying and railroad engineering, and this changed little during his tenure, although he later increased the amount of fieldwork. Following its first collegiate term in October 1872, the A&M College conferred five degrees—two master of arts, two bachelor of arts and its first one in engineering, a postgraduate “Civil-Engineer” degree, to W. E. Horne of Union Springs.

In 1873, Hardaway changed the curriculum, with the college awarding a bachelor of engineering (BE) to its graduates. The CE became a graduate degree requiring an additional year of study and a thesis. In 1874, four cadets passed their first-class examinations and received degrees at commencement, including B. Huger Johnson who earned a bachelor of engineering degree, the first recipient of such from the A&M College.

Hardaway resigned unexpectedly just before the start of collegiate year 1882. Writing in the unpublished book he prepared late in life, Hardaway said, “I was Professor of Civil Engineering and Commandant of Cadets of the Agricultural and Mechanical College of the State of Alabama from September 1872 to September 1881. I resigned my position in the College at Auburn, Alabama and accepted a position as Division Engineer of the Mexican Central Railroad and left Auburn on September 19th 1881.”

After working for a year in Mexico, Hardaway returned to Alabama, becoming professor of engineering at the University of Alabama, and he remained in Tuscaloosa until his retirement in 1897. He was succeeded at Auburn by Gen. James H. Lane, who remained until his death in 1907.

But that’s a story for another day, and another issue of Auburn Engineering. Watch for our centennial celebration issue this fall!
The 2008 Cupola Report

A recognition of the 2007 contributors to the Samuel Ginn College of Engineering
Ed and Lee Chapman
Electrical Engineering, '56

“It is my desire to see Auburn’s College of Engineering rank in the top 20 engineering schools in the country. Dean Benefield has set the course necessary to achieve this objective and I want to do all I can to support this goal. Giving directly to the college’s unrestricted fund enables Dean Benefield to utilize these funds in the areas he deems top priority. State-of-the-art facilities, outstanding students, and highly qualified and sought-after faculty are absolutely essential ingredients for this status. It would be my personal desire to see the day when every Auburn Engineering graduate contributes some amount, no matter how small, to repay what began for them at Auburn.”

Ed Chapman is retired assistant vice president of network planning for BellSouth Telecommunications. He fondly remembers the deep sense of pride he felt each time he walked under the old arch stating, “The Best Electrical Engineers in the World Pass Under This Arch.” This symbol of Auburn Engineering now hangs in the basement of Broun Hall.

Charles Philip Saunders
Electrical Engineering, '74

“Auburn is a special place. The university and the College of Engineering are important to me. I received a quality education at Auburn, and I am greatly appreciative of all the support I received from faculty and other students that helped me to be successful. Dean Benefield’s leadership, vision and passion for the College of Engineering to become one of the best engineering schools in the nation played a major role in my decision to contribute to the college’s unrestricted fund. I hope my contribution will show that graduates care about the future and legacy of Auburn Engineering, and that students, faculty and staff can be provided with resources to help reach their goals and dreams. I also hope that this support will enhance the Auburn spirit and reinforce the concept of giving back when we can afford to do so.”

Saunders is retired vice president of operations and generation services for Southern Company. During his career, he was responsible for all generation-support activities, including fleet operations and trading, fuel services and generation services. Even with many rewarding Auburn memories throughout the years, Saunders is quick to recall the electricity and excitement when Elvis Presley appeared in concert at the coliseum in 1974.
William J. Cutts '55
Industrial Management
President and CEO
American Tank & Vessel, Inc.

Julian Davidson '50
Electrical Engineering
President, CEO and Owner
Davidson Enterprises LLC

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

Charles E. Gavin III '59
Textile Management
Founder and Chairman of Board
MFG Chemical

Ralph Godfrey '64
Electrical Engineering
Senior VP (Retired)
3COM Corporation

William F. (Hank) Hayes '65
Electrical Engineering
Executive VP (Retired)
Texas Instruments

W. George Hairston III '67
Industrial Engineering
President and CEO (Retired)
Southern Company

Jim Hoskins '81
Electrical Engineering
CEO and Chairman of Board
Scitor Corporation

T. Keith King Sr. '58
Civil Engineering
President, CEO and COB
Volkert & Associates Inc.

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

Minga C. (Push) LaGrone Jr. '51
Industrial Management
Owner
Jellico Realty Company

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

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

Charles McCrary '73
Mechanical Engineering
President and CEO
Alabama Power Company

Joe T. McMillan '58
Chemical Engineering
President (Retired)
ExxonMobil Coal & Minerals

James D. McMillan '61
Chemical Engineering
Washington Representative (Retired)
ExxonMobil

William R. McNair '68
Electrical Engineering
VP, Network Operations (Retired)
BellSouth

Olivia K. Owen '77
Civil Engineering
Upstream Global IS Manager
ExxonMobil Corporation

Howard E. Palmes '60
Electrical Engineering
VP, Network Operations (Retired)
BellSouth

Thomas L. Ray '69
Electrical Engineering
President
Ray Engineering Group Inc.

William B. Reed '50
Mechanical Engineering
President
System Controls, Inc.

Albert J. Smith Jr. '47
Mechanical Engineering
Partner (Retired)
Bright Star Group Ltd.

Paul J. Spina Jr. '63
Electrical Engineering
Owner and CEO
Spina Enterprises

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

George E. Uthlaut '54
Chemical Engineering
Senior VP, Operations (Retired)
Enron Oil and Gas Company

William J. Ward '55
Mechanical Engineering
Region Manager (Retired)
GE Southwest Power System Sales

Dwight L. Wiggins Jr. '62
Mechanical Engineering
President (Retired)
Tosco Refining Company

Walter S. Woltosz '69
Aerospace Engineering
Chairman, President and CEO
Simulations Plus, Inc.
The Engineering Eagles Society consists of loyal supporters who make gifts of $1,000 or more each year to Auburn Engineering or its academic units. These gifts provide vital resources for creating and enhancing programs in which our faculty and students thrive. This society recognizes those whose gifts elevate Auburn Engineering to new heights and help continue our tradition of excellence.

1934
Mr. & Mrs. Benjamin Watkins Hutson

1936
Brig. Gen. Bryghte D. Godbold

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Dr. Daniel Webster Duncan

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Mr. Dwain Gregory Luce*

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Col. James H. Boykin
Dr. Arthur Wiggins Cooper

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Mr. Clarence Fletcher Horn

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Mr. M. Dow Sellers

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Mr. William E. Cannady
Mr. John T. Lutz
Mr. & Mrs. Henry Frederick Rainey
Mr. Grady Lawrence Smith

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Mr. C. Warren Fleming
Mr. & Mrs. Robert Harding Harris
Mrs. Helen Krauss Leslie
Mr. Nimrod W. E. Long
Mr. Sabert Oglesby, Jr.
Lt. Col. Walter Buel Patton
Mr. & Mrs. James Madison Smith
Mr. Leonard H. White, Jr.

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Mrs. Margaret P. Luquire
Mr. & Mrs. Albert James Smith, Jr.

1948
Mr. Sam B. Alison*

Mr. Henry S. Arnold
Mr. & Mrs. Leonard Dean Braswell
Dr. Jack Hutchinson
Mr. Franklin Lee Jones
Mr. Lionel L. Levy, Jr.
Mr. Seth H. Mitchell, Jr.
Mr. F. Brooks Moore
Mr. Richard Davison Quina
Dr. Ruel Russell, Jr.

1949
Mr. Martin L. Beck, Jr.
Mr. Thomas O. Davidson
Mr. Joseph E. Haley
Mr. Elmer Carlton Hill
Mr. Walter F. Johnsey*
Mr. & Mrs. Richard I. Kearley, Jr.
Mr. & Mrs. Charles R. Lowman
Mr. Norman R. McAnnally
Mr. John F. Meagher, Jr.
Mr. & Mrs. Lewe B. Mizelle, Jr.
Mr. Lawrence Montgomery, Jr.

Lionel Levy ’48
Aerospace Engineering
Research Scientist, NASA Ames Research Center (Retired)
Engineering Eagles Society member since 2007

As a NASA employee, Lionel Levy could not wait to go to work each day. He was actively involved in projects related to re-entry trajectories and computational fluid dynamics. Levy received two awards for excellence during his NASA tenure – the H. Julian Allen award for best technical paper and the NASA Exceptional Service medal in 1978 for exceptional scientific contribution in computational aerodynamics. After his favorite professor left Auburn Engineering, Levy filled his shoes by teaching the class, theoretical aerodynamics, for two quarters.

“I love Auburn. I received a great education there. You can’t leave behind the Auburn spirit, and I know that other alumni feel the same way. As a member of the California ‘It Begins at Auburn’ committee, I knew that every bit of financial support would be vital to attracting quality students and professors to the college. I believe that my support will directly affect the future advancement of the College of Engineering.”

*deceased
New members indicated in bold
Mr. Owen Sherman Posey
Mr. & Mrs. Raymond T. Roser
Mr. Angelo Tomasso, Jr.
Mr. & Mrs. Harold P. Ward
Mr. Edward Thomas Williams

1950
Mr. Carroll L. Carter
Mr. & Mrs. Tillman G. Crane
Dr. & Mrs. Julian Davidson
Mr. & Mrs. Alfred F. Gentle, Sr.
Mr. & Mrs. Clarence H. Hornsby, Jr.
Mr. James Hunnicutt
Mr. John M. McKenzie
Mr. Mervin L. Norton
Mr. William Burch Reed
Mr. Mack Allen Riley
Mr. Myron Jackson Sasser
Mr. Cecil R. Williams
Mr. Joseph W. Wilson

1951
Mr. Arthur C. Daughtry
Mr. Minga C. LaGrone, Jr.
Mr. Leonard L. Mitchum, Jr.
Mr. & Mrs. Sigmund M. Redelsheimer
Dr. Earle Carler Williams
Mr. Robert M. Winter

1952
Mr. Sylvester W. Brock, Jr.
Mr. Harry C. Handlin
Mr. William R. Haycraft
Mr. Carver Gager Kennedy
Lt. Gen. & Mrs. Forrest S. McCartney
Mr. Everett W. Strange, Jr.

1953
Mr. & Mrs. Walter R. Day, Jr.
Mr. Joseph S. Horsley
Mr. Leonard A. Morgan
Mr. James D. Tatum
Mr. John Albert Taylor

1954
Mr. & Mrs. Fred N. Beason
Mr. Russell F. Boren
Mr. & Mrs. Thomas William Caine
Mr. & Mrs. James H. Carroll, Jr.
Mr. Donald E. Dennis
Mr. & Mrs. Lewis H. Eberdt, Jr.
Mr. Sibbley P. Gauntt
Mr. & Mrs. Jerry D. Parker

Mr. & Mrs. Fred H. Rhinehardt
Mr. & Mrs. George E. Uthlaut

1955
Mr. & Mrs. Gordon E. Christiansen
Mr. & Mrs. James R. Evans
Mr. & Mrs. James J. Mallett
Mr. & Mrs. James Burton Odom
Mr. & Mrs. John S. Parke
Mr. J. Norman Pease II
Mr. Charles E. Sellers
Mr. William J. Ward
Mr. David E. Wingard

1956
Mr. & Mrs. Jack Kelso Allison
Mr. William H. Barlow
Mr. & Mrs. Billy G. Barnes
Dr. Dwight S. Bond
Mr. & Mrs. J. Edward Chapman, Jr.
Mr. & Mrs. Edwin E. Ives
Mr. & Mrs. Charles Mathias Jager
Mr. Paul M. Lefstead
Dr. & Mrs. James Tracy O'Rourke, Jr.
Dr. & Mrs. Donald Jacob Spring
Mr. Lois Ray Taunton
Mr. Edward F. Williams III

1957
Gen. Jimmie V. Adams
Mr. John R. Bray
Mr. & Mrs. John Wilford Brown
Mr. Stanley G. DeShazo

Capt. Gordon L. Flynn
Mr. Vernon W. Gibson, Jr.
Mr. M. Miller Gorrie
Mr. Bill M. Guthrie
Mr. T. P. Huddleston, Jr.
Mr. & Mrs. Fred W. Mace
Mr. Gary C. Martin
Dr. & Mrs. Michael B. McCartney
Mr. Walter F. Morris
Mr. & Mrs. Roy A. Richardson
Mr. & Mrs. James S. Roy
Mr. Cecil C. Spear, Jr.

Mr. & Mrs. J Donald Thornburgh
Mr. Michael Larry Tuggle
Lt. Col. Ralph C. Wilkinson

1958
Mr. William M. Brackney
Mr. & Mrs. Henry M. Burt, Jr.
Mr. & Mrs. James Hugh Corbitt
Mr. Malcolm L. Gilchrist
Mr. & Mrs. George Edward Gullatt
Mr. & Mrs. Harry A. Manson
Mr. Benny J. McDaniel
Mr. & Mrs. Joe T. McMillan
Mr. James L. Murrell
Mr. & Mrs. David S. Neel
Mr. & Mrs. James Louis Peeler
Mr. Ellie Ray
Dr. R. E. Simpson

Jerry Davis ’01
Industrial and Systems Engineering
Assistant professor, Department of Industrial and Systems Engineering
Engineering Eagles Society member since 2005

AU faculty member Jerry Davis specializes in work measurement, methods engineering and occupational safety. He contributed to the establishment of the Dr. Brian Carnahan Memorial Scholarship Endowment, a fund that provides scholarships for students in industrial and systems engineering and honors Brian Carnahan, a friend and former faculty member. Davis is a member of IIE and ASSE. He is married to Cathy Jean Davis and their children, Crystal and Ryan, both attend Auburn University.

“The faculty and staff are the heart of our college. When I was awarded a scholarship as an engineering student, I can’t tell you how satisfying it was to get the acknowledgement and support of the faculty as recognition of my efforts in the classroom. It is for this reason that my wife and I choose to give back a little something, specifically in the area of scholarships. I had the privilege of working with Brian Carnahan prior to the sudden onset of his illness and passing in February 2005. Shortly thereafter, my wife and I helped to establish the scholarship as a tribute to Brian’s passion for education and to honor his contributions to our department and college. We will continue to contribute annually to the College of Engineering and this most worthy scholarship fund.”
1959
Mr. Gerald B. Andrews, Sr.
Mr. & Mrs. James O'Neal Ballenger
Mr. & Mrs. Roger J. Campbell
Mr. Clarence J. Chappell III
Mr. & Mrs. James M. Creel II
Mr. L. Ray Davis
Mr. & Mrs. Charles Edward Davis
Mr. Harry Arthur Edge, Jr.
Mr. Norman S. Faris, Jr.
Mr. & Mrs. Charles Earley Gavin III
Dr. Samuel L. Ginn
Mr. George H. Godwin, Jr.
Mr. & Mrs. John K. Jones
Mr. Gerald G. McGlamery, Sr.
Mr. & Mrs. Royce E. Mitchell
Mr. & Mrs. Wynton Rex Overstreet
Mr. L. Ray Davis
Mr. & Mrs. Charles Edward Davis
Mr. Harry Arthur Edge, Jr.
Mr. Norman S. Faris, Jr.
Mr. & Mrs. Charles Earley Gavin III
Dr. Samuel L. Ginn
Mr. George H. Godwin, Jr.
Mr. & Mrs. John K. Jones
Mr. Gerald G. McGlamery, Sr.
Mr. & Mrs. Royce E. Mitchell
Mr. & Mrs. Wynton Rex Overstreet
Mr. Albert Miles Redd, Jr.
Mr. Axel Roth
Mr. George M. Sewell
Mr. & Mrs. Leroy L. Wetzel

1960
Mr. & Mrs. Thomas Glenn Avant
Mr. Charles H. Carlan
Mr. & Mrs. Benjamin F. Carr, Jr.
Mr. & Mrs. Elliott L. Dean, Jr.
Dr. George J. Dezenberg
Mr. Edwin W. Evans
Mr. & Mrs. William B. Millis
Mr. Howard E. Palms
Mr. Earl B. Parsons, Jr.
Mr. James H. Stewart, Jr.
Mr. & Mrs. John H. Watson

1961
Mr. & Mrs. Joe A. Akin, Jr.
Mr. & Mrs. Frank M. Cater
Mr. Leiland M. Duke, Jr.
Dr. J. David Irwin
Mr. & Mrs. Samuel B. Ligon
Mr. & Mrs. Raymond E. Loyd
Mr. & Mrs. James D. McMillan
Mr. Alton B. Overstreet
Mr. Jamie Earl Price, Sr.
Mr. Joel N. Pugh
Mr. Philip S. Zettler

1962
Mr. William Albritton, Jr.
Mr. David N. Brown
Mr. & Mrs. Wiley Mitchell Cauthen
Dr. Ralph S. Cunningham
Mr. Glenn Harold Guthrie

1963
Dr. Harry L. Deffebach, Jr.
Mr. & Mrs. Ronald Clark Evans
Mr. Sellers G. Gauntt
Mr. William G. Goff, Jr.
Mr. Lamar T. Hawkins
Mr. John Steele Henley II
Mr. & Mrs. Thomas W. Lawrence, Jr.
Mr. Charles N. Moody
Mr. & Mrs. Paul Joseph Spina, Jr.
Mr. & Mrs. Jerry F. Thomas
Mr. Wendell W. Whiteside

1964
Mr. Lawrence Owen Brown
Mr. & Mrs. Harry G. Craft, Jr.
Mr. Ralph B. Godfrey
Ms. Elizabeth Hinton Henley
Mr. Thomas R. Johnson, Jr.
Mr. & Mrs. Robert E. Lowder
Mr. Gordon B. Mohler
Ms. Nancy Whiteside Payne
Mr. Jerry Franklin Smith

1965
Dr. David B. Bradley
Mr. & Dr. Larry M. Curtis
Mr. William F. Hayes
Mr. & Mrs. D. L. Merrill, Jr.
Mr. Penn E. Mollowney, Jr.
Mr. W. Russell Newton
Mr. & Mrs. David Scarborough
Mr. E. Todd Sharley
Mr. & Mrs. Thomas D. Stringfellow
Mr. J. Ernest Warren

1966
Mr. Donald H. Barringer
Dr. Larry D. Benefield
Mr. & Mrs. Paul R. Flowers, Jr.
Mr. & Mrs. James H. Ham III
Mr. Oliver D. Kingsley, Jr.
Mr. & Mrs. Jimmy W. McGaha
Mr. J. Kirk Newell III
Mr. & Mrs. N. Oliver Smyth III
Mr. Mac D. Waldrup, Jr.

Doug and Tracy Phillpott '84
Chemical Engineering and Textile Chemistry
Lead Engineer, Day & Zimmermann and Senior Scientist, IRIX
Pharmaceuticals
Engineering Eagles Society members since 2004

Doug and Tracy Phillpott are proud of the engineering education they received at Auburn and believe it plays a major role in their current success as professional engineers. Doug and Tracy met at Auburn and were later married at the Auburn Chapel during an Auburn football away game against Georgia Tech – Auburn won. They support Auburn Engineering through the electronic funds transfer program (EFT) because of its simplicity in donating the same amount at a set time each month.

“My textile engineering education provided me with a solid foundation in chemistry and the flexibility to work in a variety of industries, including textile, polymer, tire, water-based polymer and pharmaceutical industries,” said Tracy. “Doug feels the same way about his degree in chemical engineering. We both stay so busy and EFT means there is one less thing to remember and do each month. It’s a great way to contribute. Doug and I hope our efforts will aid in maintaining the quality of education, attracting excellent faculty and staff and continuing to improve facilities for students in the College of Engineering.”
Mr. David C. Sjolund
Mr. William James Smith
Mr. & Mrs. Joseph Stanfield, Jr.
Mr. R. Conner Warren
Mr. J. Mack Whitaker
Mr. & Mrs. George Edmond Williamson II

1968
Mr. Johnnie M. Hamilton
Mr. C. Gary Harrington
Dr. Terry Edwin Lawler
Mr. James H. McDaniel
Mr. & Mrs. William R. McNair
Mr. Larry J. Morgan
Mr. Allen Coite Rice
Mr. Robert G. Vick, Jr.
Mr. & Mrs. John Michael Weigle
Mr. Robert H. Wynne, Jr.

1969
Mr. Dwight T. Brown
Mr. John L. Carr, Jr.
Mr. & Mrs. Otto Peter Cerny
Mr. & Mrs. Ronald M. Dykes
Mr. & Mrs. Jefferson Grant, Jr.
Mr. Gary W. Gray
Ms. Nelda K. Lee
Mr. Douglas Paul Marshall
Mr. & Mrs. William K. Newman
Mr. Robert Lyons Prince
Mr. & Mrs. David I. Rach
Mr. & Mrs. Thomas L. Ray
Mr. & Mrs. Joseph A. Salia
Mr. Marvin Fred Terrell, Jr.
Mr. Richard Turner Wade
Mr. & Mrs. Walter S. Woltoetz

1970
Mr. Kerry E. Adams
Mr. Malcolm N. Beasley
Mr. & Mrs. Stanley E. Bryant
Mrs. Veronica Smith Chesnut
Mr. Douglas H. Cooper
Mr. & Mrs. Joe D. Edge
Dr. Martin C. Glover
Mr. Tommy G. Hendrick
Mr. & Mrs. Thomas Farrell Higgins
Mr. James A. Humphrey
Mr. W. Blake Jeffcoat
Dr. Leon F. McGinnis, Jr.
Mr. George A. Menendez
Mr. W. Allen Reed
Mr. Edgar L. Reynolds
Mr. John Albert Smyth, Jr.

1971
Mr. & Mrs. Joseph F. Barth III
Mr. William Scott Brown
Mr. & Mrs. Joe W. Forehand, Jr.
Mr. & Mrs. Earl Richard Foust
Mr. & Mrs. Phillip Franklin Moon
Mr. & Mrs. Christopher J. Peterson
Mr. Robert H. Scott
Mr. Thomas D. Senkbeil
Mr. David Slovensky
Mr. James Lewis Starr
Mr. & Mrs. Robert Morgan Waters
Mr. Joseph D. Weatherford

1972
Mr. & Mrs. Glen D. Atwell
Dr. David Gilbert Burks
Mr. Daniel M. Bush
Mr. & Mrs. Joe Mark Chambers, Jr.
Mr. & Mrs. Richard I. Chenoweth
Mr. James A. Dowdy, Jr.
Mr. & Mrs. Steven Ray Duttry
Mr. John W. Gibbs
Mr. & Mrs. John A. MacFarlane
Mr. Stephen R. Miller
Mr. & Mrs. Max A. Mobley
Mr. Walter D. Mullins, Jr.
Dr. & Mrs. H. Vincent Poor
Mr. Andrew J. Sharp, Jr.
Mr. & Mrs. Dewitt Utopgraft
Col. James S. Voss
Mr. & Mrs. Larry Russell White
Mr. R. Duke Woodson

1973
Mr. Charles S. Aiken, Jr.
Mr. Rafael E. Alfonso
Mr. & Mrs. Felix C. Brengle, Jr.
Mr. & Mrs. John Wendell Chambliss
Mr. & Mrs. Wendell Harris Duke
Mr. Gregory Lamar Gibson
Mr. Robert Waite Hardie
Mr. & Mrs. Steven Max Lee
Mr. Charles Douglas McCrarry
Mrs. Marsha H. Reardon
Mr. Richard Young Roberts
Mr. John Crawford Robertson
Mr. W. Karl Vollberg
Mr. James Wade Wesson

1974
Mr. Scott T. Baker
Mr. Ray A. Dimit
Capt. Michael R. Fosdick
Capt. Davis R. Gamble, Jr.
Mr. Bruce E. Imsand
Mr. Daniel M. Kennedy, Jr.
Mr. Ronald Craig Lipham
Mr. Charles Philip Saunders
Mr. Roger L. Sollie
Mr. & Mrs. William E. Warnock, Jr.

1975
Mr. Pete L. Anderson
Mr. & Mrs. Ben B. Barrow, Jr.
Mr. Dennis W. Brown
Mr. Robert F. Bynum
Mr. James Victor Doyle
Mrs. Linda Vanstrum Griggs
Mr. Ronald Ugee Harris
Mr. & Mrs. Joseph S. Johnson, Jr.
Mr. John H. Kiinglehoeffer
Mr. Thomas D. Lampkin
Mr. William Tom Nabors
Mr. Jack B. Porterfield III
Mr. Michael Louis Scott
Mr. William B. Womack

1976
Mr. Terry James Coggins
Mr. Michael A. DeMaioribus
Mr. David E. Dixon
Mr. Dennis W. Henderson
Mr. Kennie Eglon Matthews
Mr. Michael McKown
Mr. & Mrs. William Lynn Moench, Jr.
Mr. Kenneth A. Powell
Mr. Randy Leon Smith
Mr. D. Dale York

1977
Mr. L. David Compton
Dr. N. Jan Davis
Mr. & Mrs. Melvin Lee Drake, Jr.
Mr. & Mrs. C. Houston Elkins, Jr.
Mr. & Mrs. T. Gordy Germany
Mr. Robert D. Hendrix II
Mrs. Melissa Brown Herkt
Mr. David R. Motes
Mr. & Mrs. Charles G. Munden, Jr.
Mr. David Kenneth Owen
Mrs. Olivia Kelley Owen
Mr. & Mrs. Frederick A. Pehler, Jr.
Mr. Harry Glen Rice

1978
Mr. Lum M. Loo
Mr. Henry W. Poellnitz III
Mr. William W. Rowell  
Mr. Kenneth L. Smith, Jr.  
Mr. James Mark Tolar  
Mr. Michael J. Varagona  
Mrs. Janet W. Varagona

1979  
Mr. George G. Ard  
Mr. Michael Patrick Batey  
Mr. & Mrs. Wesley Wilkerson Diehl  
Mr. & Mrs. Dennis Steve Hill  
Mr. William A. Lovell, Jr.  
Mrs. Karen Harris Rowell  
Mr. Jeffrey Ira Stone  
Mr. & Mrs. David Carriell Sulkis  
Mr. & Mrs. Mark David Vanstrum

1980  
Mr. Frank V. Couch III  
Mrs. Kathryn R. Hoffman  
Mr. Joseph Lamar Holliday  
Mrs. Larke Lanier  
Mr. John Timothy McCartney  
Mr. & Mrs. David Tarrant Lee  
Dr. Robert Mark Nelms  
Mr. G. Nolan Sparks, Jr.

1981  
Mr. James Eugene Ard  
Mr. Douglas Alan Barnett  
Mr. Stephen Joseph Bethay  
Mr. & Mrs. J. Richard Bishop, Jr.  
Mr. Phillip Alan Forsythe  
Mrs. Margaret Long Forsythe  
Ms. Karen Hayes  
Mr. Patrick Higginbotham  
Maj. & Mrs. James M. Hoskins  
Mr. & Mrs. David Tarrant Lee  
Mr. Fred F. Newman III  
Mr. Michael Arthur Rowland  
Mr. Kenneth Abner Smith  
Dr. & Mrs. James Michael Stallings

1982  
Mr. Philip Randal Carroll  
Mr. Shawn E. Cleary  
Mrs. Anne M. Cleary  
Mr. Timothy Donald Cook  
Mr. Maury D. Gaston  
Mr. Donald James Parke  
Lt. Col. Mary F. Riddell  
Mrs. Linda Patterson Ryan  
Mr. & Mrs. John Carlton Todd  
Mr. Scott Alan Yost  
1983  
Mr. & Mrs. Christopher T. Bell  
Mr. Russell Lee Carbine  
Mr. & Mrs. John Emory Gipson  
Mr. Silas H. Hardin III  
Mrs. Donna H. Harris  
Mr. & Mrs. Joseph Austin Miller  
Mr. & Mrs. Timothy S. Pettibone  
Mr. & Mrs. John Paul Raispis

1984  
Mr. James B. Burrows, Jr.  
Mr. & Mrs. James M. Chandler III  
Mr. Kenneth C. Horne  
Dr. Gerald G. McGlamery, Jr.  
Mr. Douglas E. Phillpott  
Mrs. Tracy C. Phillpott  
Mr. Bradley Scot Shepherd

1985  
Mr. Timothy John Dwyer  
Mr. & Mrs. John Newell Floyd, Jr.  
Mr. & Mrs. Jesse Duane May  
Mr. Benjamin Edwin Robuck  
Mr. William B. Stone, Jr.  
Mr. Jeffrey Norman Vahle

1986  
Mr. & Mrs. Gary Ross Godfrey  
Mrs. Dara Parr Kloss Hosey  
Mr. David McCoy Kudlak  
Mr. George Lee McGlamery  
Mr. Tracey Duane Parish  
Mr. Martin John Stap  
Mrs. Laura Crowe Turley

1987  
Mr. David Allan Carr  
Mr. Jeffrey Curtis Harris  
Mr. & Mrs. Michael Ray Ingram  
Mr. & Mrs. David Emory Murphy  
Mr. Thomas Freeland Odom, Jr.  
Mr. Kevin Andrew Partridge  
Mr. Glenn Stewart Phillips  
Mr. James Roberts  
Dr. Randy Clark West  
Mr. Harold L. Wilson

1988  
Mr. J. Gregory Anderson  
Mr. James Michael Arnold  
Mr. & Mrs. Philip G. Fraher

1989  
Mr. Michael Harley Crowder  
Mr. Christopher R. Dozier  
Mr. Thomas A. Harris  
Dr. William Ernst Josephson  
Mrs. Shannon Handegan Lisecki  
Mr. Jeffrey Harold Nelson  
Mr. Mark Eric Ogles  
Mrs. Sarah Johnson Sanchez

1990  
Mr. Brian Howard Hunt  
Mrs. Elaine Jimmerson  
Mr. Kenneth Kelly

1991  
Mr. Ruskin Clegg Green  
Mr. Bradley Bernard Johnson  
Mr. & Mrs. David Troy Veal

1992  
Capt. & Mrs. Jon Christian Bradford  
Mr. John Phillip Caraway  
Mr. & Mrs. James David Noland

1993  
Mr. Edward T. Blackmon  
Mr. Michael Boyd Deavers  
Lt. Cmdr. & Mrs. Jerry Dean Foster  
Mr. & Mrs. Michael Thomas Hendrick  
Mr. & Mrs. Erik L. Naumann  
Mrs. Deana Smith Seigler  
Mr. & Mrs. Robert W. Wellbaum III

1994  
Mr. Christopher J. Couch  
Mr. & Mrs. Christopher Joel Kramer  
Mr. & Mrs. Wesley Shane Mize  
Mr. Patrick Joseph Quick

1995  
Mr. & Mrs. Diaco Aviki  
Lt. Cmdr. Frederick Ramon Lyda  
Lt. Cmdr. Yvonne Roberts Lyda

1996  
Dr. Chun-Yu Chen
**Mustafa Ali ’07**

**Electrical and Computer Engineering**
**Information Systems Analyst, ExxonMobil Corporation**

Engineering Eagles Society member since 2007

As an undergraduate in electrical and computer engineering, Ali served as an officer in IEEE and the Cupola Engineering Society. He participated on the Solar Car Team and volunteered at high school science and engineering competitions. An Honor's College scholar, Ali worked with the Built-In Self-Test research group headed by faculty member Chuck Stroud, where his work involved field-programmable gate arrays. He received the Frank Vandergrift Award for outstanding co-op student and the ECE faculty named him one of two 2007 recipients of the William L. Everitt Student Award of Excellence. Today, Ali is part of the technical computing division at ExxonMobil Corporation and a new Eagles member.

“I hope to establish a strong alumni relationship with the college while I can still bring the fresh perspective of a recent graduate. Alumni-sponsored scholarships and student programs played an important role in my own college career, which gives me the motivation to extend the same opportunities to future students. I hope my gift will help to provide support for Auburn Engineering students to channel their ideas, demonstrate their talents and earn national recognition among their peers. I would encourage other young alums to check out gift matching programs offered by their employer. They are a great way to contribute and involve their company in supporting the college.”
Planned Gifts

Planned gifts are pledged today to benefit the college in the future. These gifts include bequests, life income plans, charitable gift annuities, IRA distributions and gifts of life insurance. Planned gifts enable donors to manage their investments and leave a lasting legacy for Auburn Engineering.

James O’Neal ’59 and Bettye ’59 Ballenger
Roger J. ’51 and Judy Campbell
John Barnard Clopton Jr. ’47
Wayne J. ’60 and Louise Crews
Charles Edward ’59 and Charlotte Davis
Margaret Long Forsythe ’81
Jefferson ’69 and Elizabeth Grant Jr.
Karen Hayes ’81
Oliver D. ’66 and Sally ’66 Kingsley Jr.
Thomas M. ’49 and Bettye Lowe Jr.
James J. ’55 and Martha Mallett
Joe T. ’58 and Billie Carole McMillan
Charles Philip Saunders ’74
Thomas D. ’71 and Karen Senkbeil
E. Todd ’63 and Tempie ’63 Sharley Jr.
R. E. ’58 and Peggy Simpson
James H. Stewart Jr. ’60
George Egbert ’54 and Dorothy ’54 Uthlaut
Gary W. ’01 and Summer Vaughan

Annual Scholarships

Some of Auburn Engineering’s donors choose to establish annual scholarships. These funds, which are given each year, are not maintained by principle or earnings and vary depending upon donor contributions. Annual scholarships given in 2007 include:

College Wide
3M Undergraduate Scholarships
Albert J. and Julia Smith Scholarship
Auburn Alumni Engineering Council Scholarship
Charles Peace Davis Co-op Tuition Scholarship
E. F. Williams Annual Scholarship
Foundry Educational Foundation/R. Conner Warren Annual Scholarship
Goodyear Scholarship Fund
Jerry Jackson Thomley & Patsy Woodham Thomley/Alabama Power Foundation Scholarship
Robert Morgan Waters & Linda Barnes Waters Family Legacy Plan Scholarship
Seeds of Love/Willie T. Grant Annual Scholarship Award
Redd Family Foundation Inc. Foley High School Academic Annual Scholarship
R. Conner Warren Annual Scholarship
Ginn Family Foundation Wireless Engineering Annual Scholarship

Multi-Departmental
American Cast Iron Pipe Company Engineering Scholars Program
Southern Nuclear Operating Company Annual Scholarship
John E. and Patti Gipson/Penta Research, Inc. Scholarship
Boeing Aircraft Scholarship
Chevron Oil Key Scholarships

Aerospace
Fred W. Martin Annual Scholarship
Patrick Michael Couch High Flight Foundation Scholarship

Chemical
John W. and Rosemary K. Brown Annual Scholarship
BP Amoco Scholarship in Chemical Engineering

Civil
Brasfield & Gorrie Scholarship
Gallett Geotech Engineering Fellowship
Gilbert Southern Corp. Annual Scholarship
CDG Engineers & Associates Annual Scholarship
Gerdau Ameristeel Annual Scholarship

Computer Science and Software
CSSE Industrial Advisory Board Annual Scholarship

Electrical and Computer
BP Amoco Scholarship in Electrical Engineering
Chevron Scholarship in Electrical Engineering

Industrial and Systems
Stacey Family Annual Scholarship
Comer Foundation Annual Scholarship

Mechanical
Bridgestone/Firestone Annual Scholarship
Kimberly-Clark Corporation Annual Scholarship
Roger L. Holmes Jr. Scholarship Fund
Chevron Scholarship in Mechanical Engineering

Polymer and Fiber
Ciba-Geigy Textile Engineering Scholarship
Highland Industries Incorporated Scholarship
Russell Corporation Scholarships
The Comer Foundation Textile Scholars Program
Alabama Textile Education Foundation Scholarship Fund

We have made every attempt to include all donors to the Auburn Engineering family. However, if you are not listed, or know of another donor who is not, please contact the Office of Engineering Development at 1320 Shelby Center, Auburn, AL 36849; 334.844.1192.

For a listing of donors who gave prior to 2007, please view previous issues of The Cupola Report at www.eng.auburn.edu/cupola report.
Endowments

Endowments are gifts that provide Auburn Engineering with perpetual income. The Auburn University Foundation invests the principle of the endowed fund and only the allocated income is used to fund programs and initiatives designated by the donor. Endowments provide an ever-increasing stream of funding and are essential for the long term security and growth of the college.

Kennie E. Matthews Scholarship Endowment in Business Engineering Technology
Dr. Ralph S. & Deborah E. Cunningham for Presidential Scholarship Endowment in Chemical Engineering
Annie Laura Hayes Scholarship Endowment
John Lewis & Martina F. Reese Memorial Endowment
Paul and Marilyn Box Transportation Research Trust
Larry Morgan Endowed Scholarship
William F. & Myrna Walker Family Endowment for Scholarships in Mechanical Engineering
William Winfield Clark Endowment in Civil Engineering
Harry A. & Linda A. Manson Endowment in Civil Engineering
William R. & Sue H. Hanlein Endowment
Brian D. Little Memorial Endowment
Max & Kathy Mobley Scholarship Endowment in Civil Engineering
Chandler-May Scholarship Endowment in Electrical and Computer Engineering
Roger J. & Judith E. Campbell Fund for Excellence
Computer Science and Software Engineering Industrial Advisory Board Scholarship Endowment
Nancy B. & Benjamin F. Carr Jr. Endowment for Scholarships in Civil Engineering
Joe E. Forehand Jr. Endowment for Leadership Scholarships in Industrial and Systems Engineering
Mountain Spirit Endowed Professorship
Kenneth B. & Sarah S. Roy Endowment for Scholarships in Mechanical Engineering
John H. & Gail P. Watson Endowment for Scholarships
Cleary Family Endowment for Scholarships

Auburn Engineering and the Corporate Community

There are many companies that recognize the value of an Auburn Engineering degree and strategically recruit engineers graduating from our programs. These companies also realize the importance of investing in the education of future Auburn engineers.

Two such companies are American Cast Iron Pipe Company (ACIPCO) of Birmingham and ADTRAN, Inc. in Huntsville, both of which committed additional funding to scholarships they had previously established in the college.

ACIPCO pledged an additional annual contribution of $50,000 to enhance the American Cast Iron Pipe Company Engineering Scholars Program awarded to in-state students enrolled in civil, electrical and computer, computer science and software, industrial and systems or mechanical engineering who demonstrate scholastic merit.

ADTRAN committed an additional $225,000 in support of the ADTRAN, Inc./Mark C. Smith Endowment designed to recognize academic achievement in students majoring in electrical and computer, computer science and software, or mechanical engineering.

These gifts illustrate the importance of Auburn Engineering’s relationship with the corporate community. Together, we are producing exceptional engineers prepared to make a difference in the workplace.

Corporations and Foundations

In support of the pursuit of excellence that has become synonymous with Auburn Engineering, the following corporations and foundations contributed $25,000 or more in 2007.

ADTRAN Inc.
Alabama Textile Education Foundation
American Cast Iron Pipe Company
Chevron
Comer Foundation
ExxonMobil Corporation
Kemet Electronics Corporation
Larry E. Speaks & Associates Inc.
Siemens VDO Automotive Corporation
Vodafone-US Foundation
You are invited to join Auburn Engineering in celebrating the important achievement that the new Shelby Center represents for the college. By adding your name to the portico walkways, you demonstrate a commitment to the college and provide a lasting reminder of what Auburn Engineering means to you.

Alumni and friends can purchase a brick or paver and inscribe their name or the name of someone they would like to honor. The mid-size brick paver provides opportunities for families, student organizations or graduating classes to participate. Corporations and foundations can gain valuable exposure in a highly visible location seen by students, faculty, staff, alums and visitors to the new complex.

Order your brick or paver today and join others who are displaying their belief in what Auburn Engineering can accomplish. Log on to: www.eng.auburn.edu/shelbybricks

Three sizes of bricks and pavers are offered:
- Individual bricks: 4” x 8” brick $250
- Family/Class pavers: 12” x 12” brick paver $1,000
- Corporate/Foundation pavers: 16” x 16” granite paver $5,000
Oliver D. Kingsley Jr., a 1966 engineering physics graduate and chair of the Engineering Campaign Leadership Team, believes in Auburn Engineering and has worked hard to lead the college into a new era. His comments and his challenge are on the following page.
I have built a reputation as an engineer who can identify and fix problems with nuclear power generating plants. Goals must be set, protocols revisited, systems reconfigured and vision implemented. The Samuel Ginn College of Engineering – while not in need of a “turnaround” – has also found value in setting goals and establishing a vision. At the conclusion of the “It Begins at Auburn” campaign, we have found ourselves quite successful in achieving milestones and moving ambitiously toward our vision.

When I became the chair of the Engineering Campaign Leadership Team in February of 2005, the university had embarked on a $500 million comprehensive campaign to increase funding for students, faculty, research, programs and facilities. Auburn Engineering faced a $105 million goal – the largest of any academic unit. I am pleased to note that we completed our campaign having raised in excess of $116 million – an achievement that was the result of the efforts of many.

I recognize the leadership of Dean Benefield, the work of my fellow members of the leadership team, the diligent service of our Office of Engineering Development, and most importantly, our alumni, friends and corporate partners. This Auburn Engineering family has proven its dedication to the college and a belief in our future.

You will see from the charts on the following pages that we made great strides in some areas and will continue to have opportunities to increase funding for other areas. We surpassed our goal for student support by nearly $1.9 million which will provide critical resources to ensure we can compete for the best students. We nearly tripled our goal for programmatic support which enables the college to pursue hands-on experiences and provide the latest in learning opportunities. We exceeded our goal for facilities and equipment which has resulted in the renovation and construction of facilities that are second to none. Taken together, these areas lay the groundwork for Auburn Engineering to continue its pursuit of a top national ranking.

The area in which we need continued work is that of faculty support. To become a leading engineering institution, we must bring more nationally recognized faculty to Auburn and keep the top scholars and researchers that we currently have on board. Maintaining an exceptional faculty requires the ability to offer competitive salary packages and support leading-edge faculty. Endowed professorships provide that means.

While the campaign is now behind us, our work is not. We will continue to raise the resources necessary to establish Auburn Engineering as one of the nation’s leading engineering institutions. The success of the “It Begins at Auburn” campaign, particularly for the College of Engineering, demonstrates what we can accomplish together. I remain thankful for your willingness to demonstrate your belief in the potential of Auburn Engineering as we continue to enhance our competitive edge. Please join me as we move ahead in securing a greater future for Auburn Engineering.

War Eagle!

[Signature]
## Campaign at a glance

**Campaign dates:**
October 1, 2001 through March 31, 2008

**College of Engineering Goal:**
$105,000,000

**Funds raised:**
$116,780,959

**Number of Donors:**
9,643

### Campaign Goals and Results

<table>
<thead>
<tr>
<th>Featured Objective</th>
<th>Campaign Goals</th>
<th>Amount Raised</th>
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<td>Student Support</td>
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<td>Faculty Support</td>
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<td>Programmatic Support</td>
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<td>Facilities/Equipment</td>
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<td>$21,216,982</td>
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<td><strong>Totals</strong></td>
<td><strong>$105,000,000</strong></td>
<td><strong>$116,780,959</strong></td>
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### Comparative Gifts Table

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<th>Gift Amount</th>
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<th>Total</th>
<th>Number of Donors Participating</th>
<th>Dollar Amount Received</th>
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**Total**: $105,000,000 | 9,643 | $116,780,959

### Engineering Campaign Dollars by Source

- **Individuals**: $90,379,055, 8641 donors
- **Corporations**: $10,717,756, 836 donors
- **Foundations**: $15,684,148, 166 donors
Engineering Annual Progress

Dollars Raised

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<th>2001</th>
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<th>2003</th>
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<th>2005</th>
<th>2006</th>
<th>2007</th>
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</table>
The faculty and staff of the Samuel Ginn College of Engineering are fortunate to work for an institution that is making a difference in the state and the nation. Their commitment to excellence proves that they believe in the value of the education that Auburn Engineering provides for the engineers of tomorrow.

Each year, our employees show their support of higher education by participating in the Auburn University Faculty/Staff campaign. Funds raised during the campaign help ensure that Auburn Engineering continues to provide countless opportunities for our students through educational experiences and groundbreaking research. We thank the following individuals who have participated in the Engineering Faculty/Staff Campaign.

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Yasser A. Gowayed
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Dr. Ralph Hing-Chung Zee
The generosity seen during the “It Begins at Auburn” campaign has demonstrated that supporters of the Samuel Ginn College of Engineering believe not only in reaching benchmarks, but also in surpassing them. The following alumni and friends have helped Auburn Engineering reach new heights in its strategic plan for academic success. We are grateful to these individuals for their commitment to providing a bright future for the college.

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James McMurtrie Backes
Benjamin Watkins Hutson
George P. Walthall

1933
Marjorie F. Funchess
James McMurtrie Backes

1934
Benjamin Watkins Hutson
George P. Walthall

1935
William S. Massa Sr.

1936
Thomas E. Barker Jr.
C. Albert Blomquist Jr.

1937
Wayne L. Dowdey
Daniel Webster Duncan
Richard Hudsom Wood
Brandt Woodward

1938
James B. Nunnelley
Currie Floyd Watts
Henry C. Whitting
Richard J. Wood

1939
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Arthur Wiggins Cooper
M. Gore Kemp
James W. McKinney
Walter J. Meadors
Robert W. Powell

1940
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Dan M. Friel
Elizabeth S. Godbold
John Cooper Godbold
C. Fletcher Horn
William H. Laseter
Thomas R. Mitchell Jr.
Arthur T. Ousley
Sara Davis Redmond

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John Locke Redd
Charles Ray Skinner
James Madison Smith
Warren Stephen Sockwell
Clyde Paul Ussery
Leonard H. White Jr.

1942
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William E. Cannady
Edgar C. Gentle Jr.
William Hyatt Hanwell
Charles Deming Jones
John T. Lutz
James Hugh Nichols
Grady Lawrence Smith
Leland Edson Starr Jr.
Melvin W. White
Jack Edwin Wood

1943
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Mike T. Blevins
Norma Autrey Blevins
Mary-Dean French Cox
Robert F. Ellis Jr.
C. Warren Fleming
Cameron G. Grammas
William Monroe Gregorrew
McMurray Griffith
Robert Harding Harris
Robert Hints
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Charles G. Kershaw
Tandy Duncan Little Jr.
Nimrod W. E Long
John Bruce Martin
Amzi Wallace Moore
Sanford M. Morton
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Wayman Erskine Vanderford
James W. Waitzman Sr.
Marion W. Wakefield
Edward G. Weaver
Clifford A. Webb Jr.
William John Willis

1944
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Harley Harold Bass
Walter B. Bibby
Randolph C. Blyth
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H. Ben Brown Jr.
Grover M. Campbell
Robert B. Caster Jr.
Donald H. Clay
Dimmit G. Constantine
Martha Gaines Cooksey
S. Stuart Cooksey
Bradley T. Cox Jr.
Walter G. Crampton
H. Clayton Daniel
Paul Stanton Denison
Yndalecio J. Elizondo
Robert L. Ferrell
Charles W. Fowler
Walter Wanzel Griffin
Robert Halls
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William R. Hanlein
Duke Cameron Horner
Nathaniel B. Hughes Jr.
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Creighton C. Lee
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C. Donald Pate
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James Edward Ray
Joe Wilson Rice
Walter Lynch Roark Jr.

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William Penn
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W. Perry Slowe
Robert Emery Strickland
Richard H. Swearengen
William J. Thomason
A. Alex Upchurch
Donald W. Vaughn
Suzan Curry Voss
Jesse O. Waddell Jr.
Jimmy Walker
William J. Walker III
Kenneth Boland Walkley
Louie P. Wallace III
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James Barnett Warren
Robert Morgan Waters
James E. Watson III
Joseph D. Weatherford
Alva Taylor Webb II
Claude T. Wells Jr.
Alfred C. White
Ronald G. Wilkinson Sr.
John W. Williams Jr.
Dennis N. Wilson
Marcelle E. Wood Jr.
Thomas W. Yelvington

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William P. Allinder
Glen D. Atwell
John Robert Bailey
William E. Bailey Jr.
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Travis E. Beasley Jr.
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Danny F. Bonham
Patric J. Brandon
Alvin B. Bresler
Earnest David Brown
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Porter C. Callihan
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Homer E. Henon
George S. Hermann
Robert I. Hirshburg
Wayne Holland
Raymond R. Holmes
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Larry R. Jarvis
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Edwin Lamar Lewis
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John Andrew MacFarlane
Noel C. Mareno
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Gary Willis McCarthy
James Terry McDonald
James E. McIndoe
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Thomas M. Milton
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Venelia Hill Turner
Timothy Neil Turnham
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E. Wayne VanDiver
Andrew D. Veren
James S. Voss
James D. Wadsworth
Alvis F. Wales Jr.
Gabriel R. Wallace
Eugene H. Weeks
James E. Weems
Larry Russell White
Randall D. Whorton
Jerry Willis
Gary Wayne Winkler
Richard D. Winter
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R. Duke Woodson
R. Edward Yelding

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Phillip D. Baggette
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<td>Linda Carin Vanacore</td>
</tr>
<tr>
<td>Aldos Lamont Vance</td>
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<tr>
<td>Thomas Holcombe Varner</td>
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<tr>
<td>Brian Jeffrey Vaughn</td>
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<tr>
<td>Christopher B. Waddell</td>
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<tr>
<td>Scott William Walker</td>
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<tr>
<td>Sherrie Kaye Walker</td>
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<tr>
<td>Wayne Charles Wall</td>
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<tr>
<td>David Gibson Walsh</td>
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<tr>
<td>Elizabeth N. Warfield</td>
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<tr>
<td>William W. Waters</td>
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<tr>
<td>John Mark Waynick</td>
</tr>
</tbody>
</table>
Troy Ted Tindal
Christoffer Heath Turner
Gerald Lee Updyke
William Todd Vaught
Christopher A. Vorise
Casey Haynes Wald
Leann Walker
Johnny Wang
Jeffrey Bryan Weathers
Carlos Shundale White
John C. Williams
James R. Williamson Jr.
Charles Alan Wilson
Eric Josef Wittendorfer
Michael David Woody
Stephen Terrance Woodry
Brandon Arthur Wright
Jason Paul Zencuch
Liyun Zhang
Qiang Zhang

1997
Mark Lee Adams
Jennifer Leigh Arnold
Glen Stuart Ashley
Cary Carnell Baker III
Timothy Willard Baker
Joseph Michael Banasik
Jennifer Lynn Bangsund
Brad David Barker
John Bradford Baby
Rachel G. Baum
Bryant Houston Beamson
Gustavo O. Benavides III
Tom Anthony Bingham
Brett Boner
Braden Steakley Buck
Annette Ruth Burberry
Steve Bush
David Lewis Butts
Robert Howard Campbell
V. Michelle Campbell
Laura S. Canterbury
William Edwin Canterbury
Yong Wan Chang
Yugender Chikkula
James A. Childs
Douglas Ray Clayton Jr.
Darren Wilson Cobb
Charles Marcus Coleman
Lawrence Douglas Cornell
Mark Battles Cox
Joseph Howard Cummings
Kevin Charles Davis
N. Robert Dennis
Eric William Dieperink
Stephanie H. Dieperink
Patrick Wayne Dunson
Stephen Charles Eckell
Timothy Ryan Emerson
Christina D. Ficken
Westerfield John Ficken
Patrick Neil Fieg
Timothy C. Finnimore
Gilbert Fournelle
Jason Matthew Gallaspy
Hong Gao
Clifford Duane Geoghan
Timothy Alan George
Dorothy Helen Gill
Anil Govindaraju
Eric Byron Green
James Howard Greene
Joseph Allen Gresham IV
Tracy Brian Hare
Elizabeth M. Hargrave
Jeffrey Keith Hargrave
William J. Harlin
Christy S. Harp
Tina M. Harris
Thomas W. Harwell Jr.
Robert Shawn Hasentfuss
Courtney A. Heath
Jan Martin Heering
Lee Allen Herring
Amy Giles Hershberg
Matthew Walker Hill
Kenneth Eugene Hoganson
Timothy Holtcamp
Miranda Leigh Holt
Rob Edward Homer
Brian Gunville Hoyt
Yuehua Huang
Darren Barnes Humphrey
Eric Lamar Ingram
Sean Kent Ingram
Clifford Ray Jeffcoat
Thomas Whitely Junker
Allison Amos Kelly
Jennifer M. Kilgo
Andrew James Kirchoff
Michael Francis Kler
Ellen Marie Kraft
Jack Lott Lavalle III
Matthew Ryan Lawson
Richard John Lett
Ruchun Lin
Mei Ling
Sara G. Lloyd
Larry Thompson Lowe
Steven Joel Mann Jr.
Jonathan D. Martin
Marc Lowell Mason
Robert Mathis
Monica Kreher Mollitor
Kathryn Ann Moore
Christina K. Moorman
Jay Matthew Nelson
Keith R. Nelson
Tuan Van Nguyen
William Scott Pace
Casey Todd Payne
David Richard Peck
Ziyun Pei
Amy Elmore Plumb
Bryan Douglas Prince
David Len Pritchett
Brian A. Proctor
Tracy Coleman Raddien
Gary Beau Rathson
Michelle Susan Ray
Shashikiran N. Reddy
David Elton Roberts
Steven Brian Roberts
Quintin Kenneth Rose
Mandi Henson Roueya
Stephen Allen Russell
Todd Michael Rutherford
Michael Joseph Schultz
Jonathan Frederick Scott
Eric Gavin Shull
Lewis C. Silvis Jr.
Jason Brent Slade
Ashley Coleman Slaughter
Brent James Smith
Jerrard Taggart Smith
Scott Graham Smith
Sharath Chandra Srinivas
Steven Boyd Stockman
Lance Ward Taylor
Allison Cerny Thomas
Charles Jason Thomas
Rodney Francis Todaro
Mickey R. Ware
Jeremy Burford Wellmon
Tilden Alexander White
Garrick Jamie Wilder
Elizabeth Boles Wilson
Patrick David Wootton
Jie Wu
Tracy Higgins Young
Ligui Zhou

1998
Earlene R. Atkinson
Carrie Leigh Barnes
Patrick William Barrick
David Gordon Bernstrom
Daniel Howard Black
Thomas Joel Blackburn
Natalie E. Blanchard
Jacob Dean Bowers
Matthew Wayne Brantley
Chad Baron Bryant
Arthur Joseph Cerveny
Madhusudan Rao Chagantian
Isaac Chemmamarn
Frank P. Conway
Benjamin Jason Crew
Benjamin Forrest Crowe
Leigh D'Amico
Leslie Chandler Davis
Tiffany Renee Davis
William Edward Deichert
Brad Edward Delcambre
Vincent Javerson Dennis
James Wilson Drake
Karen Crandall Durden
Stephanie Haltco Evans
Brandon C. Everett
Mark Eric Finzner
Paul T. Fippio
Angel Forney Fournelle
Thirunellai G. Ganeshan
Meredith Ann Graves
Corin Chantall Gresham
Christopher M. Grund
Yimin Guan
Keith Shellie Hagler
Brad Randall Harrison
Christopher A. Harvey
Ashley Brannon Haynes
Erin E. Henderson
Paula Lee Hensarling
Cheryl Harrell Higdon
Brandon Scott Hiller
Michael Blaine House
Tyco Frederick Hudson
John Sterling Hummel II
Gwendolyn Warren Jones
Kirk William Jones
Natalie McLean Jones
Elisabeth Bailey Kahle
Kevin James Kahle
John Scott Kahler
Aaron Richard Keene
Kendall Kilpatrick
Ashley David Koby
Ram M. Krishnamurthy
Tongtong Li
Zhicheng Lin
Brian Jay Little
Hing Lor
Landon Davis Lunsford
Kelli Bagby Martin
Brian Lloyd Mason
Seth Alan Mason
Emma V. Mayhall
Raymond A. McDonald Jr.
Teresa Crawford McGee
Stephen Robert McRae
Mason Bradley Mead
Matthew Alan Mobley
David Lee Moore
Daniel Murray
Jason Howard Nelson
Jason Allen Nichols
Cody Lee Nicholson
William Clinton Osteen
Jonathan Chase Payne
Matthew Elliott Payne
Charles Hunter Pearson
Matthew Jonathan Pearson
Sean Harris Pharr
Ryan William Radel
Peter Harry Range
Christopher Adam Rixey
Matthew Nolan Rodgers
Michael Scott Shaw II
Jianfeng Shen
Brian Charles Sneed
Mary Elizabeth Stahr
Geoffrey Scott Sundberg
Bradley Philip Thomas
Johsua Carter Thomas
Matthew Scott Trammell
Nathaniel David Valukas
Margaret Graves Warren
Marvin Key Warren III
Pleas Clayborn White
Ragan Alisha White
Kristopher B. Williams
Charles Scott Wilson
Zhangwen Wu
Bin Ye
Qing Zhang

1999
Jeffrey Scott Ackel
Deta T. Adams
James Liston Anderson
Ross H. Armstrong
Jason P. Arrington
Michael Lee Ashley
Matthew Douglas Barham
Heather Nichole Bateman
James Leo Bateman
Antonio D. Benford
Michael Len Birt
Michael J. Bliss III
Lashun Booth
David C. Braski Jr.
Aaron M. Bray
Kevin Brown
Karen Sevin Bryan
Joel D. Camann
Brian Kenneth Carter
Joel D. Camann
Karen Sevin Bryan
Jason P. Arrington
Michael Lee Ashley
Matthew Douglas Barham
Heather Nichole Bateman
James Leo Bateman
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Aaron M. Bray
Kevin Brown
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Joel D. Camann
Brian Kenneth Carter
Stephan Waylon Chambless
Fuhu Chen
Raymond A. McDonald Jr.
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Marvin Key Warren III
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Ragan Alisha White
Kristopher B. Williams
Charles Scott Wilson
Zhangwen Wu
Bin Ye
Qing Zhang
Billie Yevonne Pearce
Marcus Paul Peters
Christopher J. Phillips
Joel C. Reed
Melinda Zuber Rice
John Bentley Roberts
Steven Joseph Rodia
Samuel G. Saia
Ryan Michael Schulz
Sean P. Sherlin
Anthony Kenyatta Smith
Christopher C. Springer
David Edward Stinson
Alice Jane Stokstall
Gregory J. Straub
Kyle Steven Swenson
K-Rob Thomas
Marcia Leatha Thomas
Keith Matthew Tidewell
Matthew Paul Todd
Ashley Owens Turnbull
Gary William Vaughan
Sumner Vaughan
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Cheryl Ann Walker
Rebecca A. Walker
Ginny Claire Wargo
Aaron M. Warren
David J. Welch
Bryan Joseph Wells
Keith N. Wheeler
Brigid Z. Williams
Margaret B. Williams
Jason S. Wilson
John M. Wolka
Bradley Rupert Worden
Ralph J. Wright Jr.
Nathan S. Yarbrough
Ralph J. Wright Jr.
Bradley Rupert Worden
Ralph J. Wright Jr.
Nathan S. Yarbrough

2002
Andrew J. Ackel
Michael Dewayne Adams
Jeffrey Todd Amos
Rusty Allen Anderson
Robert Gibson Andrews
Philip S. Armstrong III
Frank Anthony Arnold
Isaac Nathaniel Austin
Ivan M. Avilés Segundo
Lindsay Janet Bach
Jason Graig Britnell
Terrance Lamar Brown
Michael Anthony Caudill
Pratibhash Chattopadhyay
Neoma Kendra Cole
Christopher Matthew Conlin
Adam Hagan Cotter
Daniel James Crosby
James Henry Cross
Wesley Walter Driver
Abby Catherine Dunlap
Jared Courtland Ebelt
Lauren E. Ebelhar
Matthew Wayne Edmondson
Cory Ryan Evans
Angela Case Fose
Daniel Franklin
Allison Marie Franz
Omar Tarik Fraser
Shigodit LaShunta Freeman
Stephan Andrew Freeman
Beau Alan Frierson
Matthew Don Gann
Anthony Joseph Giardina

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Jason Wilson Gonc
James Andrew Gosnell
Joseph JaMar Grice
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Phillip G. Hamilton Jr.
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Yvonne Michele Hardy
James Landon Harrison
Eric David Hicks
Travia Monike Holder
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Yehui Huang
Susan Stacy Hudson
Matthew W. Hunkapiller
Steven P. Huston
Christopher Allen Jackson
Jun Jiang
Emily E. Johnson
Timothy Micah Johnson
Ronnie T. Jones
Tommy H. Jones
Junyeop Kim
Jeremy Nathan Krauss
Benjamin Powell Lamar
Jennifer Kelly Latham
Robert Ernest Latham
Christina Lynn Lash
Kalyin Lee Lewis
Panagiotis Dimitrios Lianos
Yuehua Lin
Julie Marie Sransky Lynn
Bert Ian Maatta
Donald David Mackay Jr.
Joseph Edward Manusakis
Christopher Daniel Martin
Lindsey Frank Martin
Sally Michelle Mathison
Jason McFarland
David Allen McGlone
Elizabeth McIntyre
Marion Wesley McRimmon
Michael Kevin Miller
Jason Andrew Morehouse
Daniel Irvin Morton
Brian Hugh Moseley
Troy Cade Moseley
Corey Patrick Murphy
Andrew Alan Neal
Cory Matthew Nelson
Elosa Anthony Oni
Jamesha Johnson Parks
Nicholas J. Perkins
Chad Edward Petterson
Randy Wayne Paulk
Wes Ryan Persall
Jennifer L. Peterson
William Peterson
Mark Timothy Poole
Kevin Andrew Purkey
Jeremiah D. Rasch
Matthew Rasmussen
Jennifer Lynn Rice
ENS Noah Stephen Rich
Christopher James Riley
Tiffany P. Riley
Adam Joseph Rinaldi
Gary Lamarr Rogers Jr.
Kristi Conner Rose
Carla Daphne Rountree
David Bruce Rowland
Sara Corbin Schaeu

Brenda M. Schaeufele
Olis LaShon Seals
Eric John Shapach
Allison Rebekah Sibert
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Gregory Wayne Sistrunk
Niger-Gambia Sledge
R. Scott Smallwood
Chad C. Snellgrove
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Albert William Spratley II
Jason Robert Standridge
David Ray Sunderman
Shida Tan
Dustin Taylor
Susan Thomas
Matthew Eric Tomin
Jason A. Trolard
Samuel J. Tyus
Jason A. Utley
Nathan Thomas Vogt
Elizabeth Jo Volovecky
Holly H. Waldrup
Jeremy Travis Walker
Weijun Wang
William Wardlaw Scott
Jeremy Jackson White
Harry S. Whitesell III
Lydia Wilkinson
Tom Reene W. Lhamon
Matthew Skipper Wilson
Beau Evan Wilson
Kevin Nathanial Wisens
Christopher Stephen Woodie
Qian Xiang

2003
John Darron Abner
Lia Vasconcelos Almeida
Abby Renee Anderson
Justin M. Andrews
Bradley A. Apking
Christopher Bryan Aplin
Holly Artchey
Joseph Dewitt Bailey
Jennifer L. Baldridge
Charlie Bailey
Derek Aaron Beck
Gary Russ Beck Jr.
Tyson Merle Begly
Jeremy Alan Belcher
Sarah C. Blackmar
Sranan Kumar Bodana
Juan Carlos Bouton
Heather Marie Bowman
Jeffrey A. Boyer
Christopher Alan Brock
Dennis E. Brown
John Carson Brown
Wilson Ken Clemens
Jessica Ann Cobb
Michael Andrew Cochran
William Adam Cone
Lori Leak Conway
Philomen K. Croft Jr.
Stephen Lee Daniel
James G. Davenport
Elizabeth Ann Davidson
Drew T. Davis
Joshua D. Davis
Melissa Shea Davis
Jason Cargill Dean
Kimberly Ryanne Dial
Jerald E. Dumas
Ryan Daniel Durden
Aaron M. England
Richard Edward Estis Jr.
Christopher Ethridge
Olin Fields Farrior
Adam Ryan Ficken
Michael LaRoy Foley
Geoffrey Edwin Fosse
Sara Anne Frangiamore
Michelle Forinash Fullerton
Natalie Gerber
Wayne Gerber
Jeffrey Giroux
Jared Taylor Gladden
Steven Bruce Gladden
Scott Kent Gladney
Linda S. Glaze
Juan Jose Gomez
Lloyd Hodnett Gray III
Garon J. Griffiths
Laura Alan Grostick
Amy Leann Hall
Melanie Richburg Hall
Christopher Robert Hamm
Nathan L. Harls
Dustin Thomas Harris
Bret Thomas Henderson
Rebecca Hiers
Daniel Eliot Hodge
Thomas Beck Hogan IV
Jeremiah John Horn
Christy M. Horne
Stephen Carl Howell
Douglas G. Hughes
Jonathan Ryan Humphreys
Omar S. Hyder
Bradley N. Jeffcoat
Cameron O. Johnson
David B. Joiner
Thomas Jay Jordan
Steven L. Keast
Daniel K. Kersting
Jessica Maxon Kersting
Katherine Gowski Kirby
Bonnise Desil Bird Layne
Sandra Jean Lee
Roy W. Lightle Jr.
Carrie White Luxe
Eric William Lummus
Paul David Lyon Jr.
Benjamin M. Machen
Hannah McCollum
James Ira McCormick III
Kelli McNeilly McCullough
Mark P. McDonald
Daniel McGough
Lisa Michelle McKenzie
Philip K. McMillan Jr.
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Christopher Daniel Mitchell
Michelle Ladonna Moss
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Christopher James Nabholz
Jonathan Whitley Newby
John M. Olson
Nathan Bentley Outlaw
Jeremy Glenn Owen
Ronson K. Parker
Barton L. Pate
Briana Lynn Patrias
Jeremy Patterson
Kristopher C. Paulk
Joseph Scott Perry
William B. Petty

Anika W. Lodree
Sam Loftin
Louis L. Loosbrock
Jarman Lowder
Bettye Lowe
Ellie Lowman
J. Felipe Luna
Natalia Luna
Kenneth MacAllister
Terry A. Macaluso
Juanita Mace
Rita C. MacFarlane
Sonya C. Machemehl
Bert C. Madden
Truesdale G. Madden
Peggy W. Mahaffey
Martha Mallett
Dina Malloch
Graeme G. Malloch
Jo Ann Manasco
Cathy Manry
Linda A. Manson
James K. Marble
Rebecca Marcereau
Richard G. March
Sue March
Vicki G. Markham
Dalbert Marsh
Angela H. Martin
Paul H. Martin
Richard S. Martin, Sr.
Suzanne E. Martin
Daniel A. Martinez
Pamela J. Mason
Jack R. Mathews
Ronald Dale Matthews
Claudia B. Maxwell
B. Carol May
Amy Mayer
Dave Jack Mayer
Philip McAlley
Lois B. McAliley
Robert J. McAlindon
Angela D. McAttee
Gregory B. McAttee
Linda Mc Caleb
Ruth G. McCartney
Sheila J. McCartney
E. D. McCauley Jr.
R. Anthony McClain
William Joe McClain
Kelly Lyn McClay
Sara McCrarry
Adelle Hollenbeck McCrory
Aileen R. McCullough
Charles M. McCullough
Jeffrey W. McCullough
Caswell G. McCurdy
Jean McCurdy
Dennis McDaniel
Dotty McDaniel
Frances McGaha
John F. McGarry Jr.
D. Robert McGinnis
Michele McGinnis
Nancy B. McHugh
Elaine McKeown
James M. McKeown
Pamela F. McKeown
David A. McLean
Pamela F. McLean
Anne F. McLaughlin
Ann Simmons McMillan
Billie Carole McMillan
Dave McMullin
Vicki McMullin
Lana McNair
Jean L. McRae
Betty McWhorter
George Mead
Cindy Meier
Mike Meier
Paul Mark Melius
Elizabeth Melton
Jonathan D. Melton
Thomas Melton
Rebecca Lindsey Merrill
Gwen C. Mickiebro
James G. Mignon
Lena Mignon
Bradley T. Miller
Charla G. Miller
Kathleen Ann Miller
Melissa D. Fulmer Miller
Dorothy Millis
Thomas D. Minor
Tommy Minor
Deborah Minton
Brian Mitchell
Nancy Mitchell
Ila S. Mitchum
Kathy W. Mobley
Pamela Moench
Rachel Mohler
Denice Montgomery
Dennis Montgomery
Jo Moody
Mr. and Mrs. Butch Moore
James T. Moore
Nancy Moore
Joy Ann Moorman
Judith Moran
Michael Moran
Essie P. Morgan
Kathryn C. Morgan
Patricia Morgan
Rita Morgan
Timothy Morgan
Nancy Morris
Cathl M. Morris
F. C. Morris
Mr. and Mrs. G. W. Morris
Donna E. Morrow
Evelyn G. Moudry
Marianne L. Moyer
Linda Mullen
Sandy H. Munden
Michael Murphey
George Murray
Debbie D. Myrick
Wendy A. Neff
Dona J. Nelson
George G. Nelson Jr.
Sandi H. Nelson
Karen Manasseri Nesbitt
Emmy Jane Newman
Kate M. Newman
Rita P. Nicholls
Jane J. Nichols
Margaret M. Nichols
Robert C. Nichols
Patricia R. Nix
Kimberly H. Norris
Forster H. Northrop
Marilyn Francis Oakes
June Odom
Jane M. Oglesby
Lamar Oglesby
Cassilene B. O’Neal
Mary Orrison
Walt Osborne
Bobbie Osborne
Lisa R. Owen
Mark Owens
Teresa Packard
Ginger E. Page
Milton A. Page
Harriet H. Pallas
Shirley Palms
Doris Pantler
Geraldine W. Parker
Melvin W. Parker Jr.
Waldean Parker
R. Ponder Parks
Rodney H. Parks
Louise T. Parmley
Nancy Parsons
Elizabeth Ellen Pate
Julie D. Pate
Lisa M. Pate
Bruce R. Paton Jr.
Sanford L. Patrick Jr.
Beverly Self Patterson
Leva Paul
Hunter Andrew Payne
Jim Payne
Patrick Payne
Mr. and Mrs. Ned Peabody
John D. Pearson
Rhonda L. Pearson
Lillian M. Peeler
Andrew L. Pelletier
Johonna M. Pelletier
Judy K. Pemberton
Jason R. Pennington
Judy Pennington
Juliet Ross Perdue
Regina Perry
Jean A. Peters
Anne E. Petters
Michele Pettibone
Fred D. Phillips Phillips
Michael S. Pirzolda
Leon Pinkston
Randolph B. Pipes
Nancy H. Pollock
Karen M. Pominville
Michael J. Pominville
Mildred Ponder
Susana Poole
Connie H. Poor
Lonnie H. Pope Sr.
Bradley Porter
Carol Portis
Bonnie Pouncey
Nancy W. Powell
Jackie Fray
Kimberly K. Price
Marcelyn G. Price
Raymond Priestley
Colleen S. Pritchett
William H. Putney
William Pylant
Robert C. Quarles
Tallulah Dunlap Quina
Sheila Rabby
Patsy B. Rach
Judy Kay Rader
Dorothy Rainey
Teri Rapsis
Cindy Rawls
Barbara Ray
Josephine Ray
The April 18 Shelby Center dedication featured a standing room only audience as Auburn Engineering celebrated the completion of Phase I of the new complex.