

Bryghte Godbold inducted into Alabama Hall of Fame

The corners of the globe where 2003 State of Alabama Engineering Hall of Fame inductee Bryghte Davis Godbold has lived are the better for it. Able to recognize needs and resources and then act forcefully, he has exercised compassionate wisdom in every setting: college, combat, business, and government. Throughout his long career, he has lived the ideal of the engineer in public service.

Born in Coy, near Selma, Godbold holds a bachelor's degree in electrical engineering from Auburn. His 1936 selection as a top 100 college graduate was followed by a U.S. Marine Corps commission. When World War II began, Capt. Godbold, an anti-aircraft expert, commanded a battery on Wake Island. Repelling Japanese attacks throughout a two-week siege, the Marines were finally defeated in an overwhelming assault. Godbold spent four years in Japanese prison camps. His men mined coal. Officers gardened, their crops feeding American prisoners. For his service at Wake Island, Godbold received the Legion of Merit.

Promoted to lieutenant colonel, he completed a management degree at Stanford University in 1947 and was asked to modernize the USMC's personnel system. He deployed computers—their inaugural use in military personnel administration—and was evaluating the system when the Korean War began. He served in

the Inchon landing and during the Chosin Reservoir fighting. Godbold earned medals for bravery and leadership for his service in Korea.

In 1951, now colonel, he became deputy director of manpower requirements at the Pentagon, advising both congress and the president. Later he commanded the famed Fourth Marines in Hawaii. A battle-ready regiment under Godbold, it posted the corps' best reenlistment rate. The Marine commandant saluted his brilliant leadership.



Bryghte Godbold (right) speaks with Dean Larry Benefield during a visit to the Auburn campus



Everitt award winners

Each year the ECE faculty selects two recipients of the William L. Everitt Student Award of Excellence. For 2003 they are Jackie Sims of Covington, La. and Jeremy Prickett of Attalla, Ala. The awards were presented by ECE Department Head J. David Irwin at the reception for graduating seniors in May.

Retiring a brigadier general in 1958, he became assistant to the chancellor of New York University, concurrently earning a doctorate in higher education. The Ford Foundation brought him to Purdue University two years later to manage "Midwest Program on Airborne Television", the predecessor to satellite-based distance education. Godbold placed TV transmitters at 23,000 feet in DC-6s to televise lessons to 2,000 schools and prepared teachers to use the televised instruction in their classrooms. His talents ensured engineering and educational success. This led to another project in higher education: coordinating six universities to provide closed circuit TV coursework to engineers at high-tech firms in Dallas/Fort Worth. While vice president of the Southwest Center for Advanced Studies (forerunner of the University of Texas at Dallas), Godbold impressed Erik Jonsson, founder of Texas Instruments and Dallas mayor. In 1965 Jonsson asked Godbold to serve as executive director of "Goals for Dallas," Jonsson's plan for the city's recovery from the effects of the assassination of President Kennedy.

Godbold transformed Dallas, whose 125,000 citizens set goals for the economy, health care, transportation, architecture, government, recreation, and culture. In seven years most "Goals" were met: Dallas/Fort Worth International Airport and a new city hall were built, a new library system was created, a premier junior college system was developed, the city's repute in medicine was attained, and a leading PBS station aired. In 1976 Godbold became a consultant for "Goals" programs worldwide. In the 1980s he led the board of directors of the Marine Military Academy in Harlingen, Texas and co-founded television stations in Alabama and Georgia.

He has been a leader in many Dallas civic groups, notably the Southwest Museum of Science and Technology, YMCA, Texas Society of Architects (its first non-architect director), and the famous Dallas Arboretum and Botanical Gardens. With intelligence, integrity, determination and cooperation, his work has borne fruit and sustains and enhances lives as it improves society.

Godbold and his wife Patricia travel extensively, garden avidly and together enjoy their continuing active participation in civic and professional endeavors.

Jaeger to receive IEEE award in San Francisco

Distinguished University Professor Richard Jaeger has been awarded the 2004 Institute of Electrical and Electronics Engineers Undergraduate Teaching Award.

The award cites Jaeger for "excellence in undergraduate teaching and development of outstanding textbooks for courses in microelectronics".

Jaeger, who currently serves as interim director of Auburn's wireless engineering program, will receive the award in February at the 2004 IEEE International Solid-State Circuits Conference in San Francisco.

After earning his bachelor's, master's, and doctoral degrees in electrical engineering from the University of Florida, Jaeger was employed with the IBM Corporation where he worked on precision analog design, micro-processor architecture, and low temperature devices and circuits. He holds three patents and received two Invention Achievement Awards from IBM.

He joined Auburn's faculty in 1979 and from 1984 to 2001 served as the founding director of the Alabama Microelectronics Science and Technology Center.

In addition to more than 200 technical papers and articles, Jaeger is the author of Introduction to Microelectronic Fabrication and Microelectronic Circuit Design for which he won the 1988 IEEE Education Society Jacob Millman/McGraw-Hill Award for outstanding textbook development. He is

co-author of Computerized Circuit Design Using SPICE Programs.

Elected IEEE Fellow in 1986, Jaeger's IEEE service includes IEEE Solid-State Circuits Council member, 1984-1991, Solid-State Circuits Council president, 1990-1991, former editor of the IEEE Journal of Solid-State Circuits, member of the IEEE Solid-State Circuits Society administrative committee, chair of the SSCS publications and awards committees, program chair of the 1993 International Solid-State Circuits Conference, and chair of the 1990 VLSI Circuits Symposium.

As founding editor in chief of IEEE MICRO magazine, he received an Outstanding Contribution Award from the IEEE Computer Society. He was selected to membership in the IEEE Computer Society's "Golden Core" and received the IEEE Third Millennium Medal.

Jaeger was one of the first three faculty members appointed Distinguished University Professor by Auburn University. His teaching awards include the Birdsong Merit Teaching Award and selection by ECE undergraduate students as Outstanding Electrical Engineering Faculty Member. In 1995 he was named Distinguished Graduate Faculty Lecturer.

His current research interests include solid-state circuits and devices, electronic packaging, piezoresistive stress sensors, high heat flux cooling, low temperature electronics, VLSI design, and noise in electronic devices and circuits.

Jitendra Tugnait named as distinguished lecturer

Jitendra Tugnait, professor of electrical and computer engineering, has been named Auburn University's 2002-2003 Distinguished Graduate Faculty Lecturer. He joined the ECE faculty in 1989, chairs the communications stem, and is an IEEE fellow and editor of its Transaction on Wireless Communications.

His awards include the 1996 IERE Benefactors Premium, the 1997 Auburn Alumni/Sigma Xi Research Award, the 2000 Auburn Alumni Engineering Council Senior Faculty Research Award and an alumni professorship in 2000. He has served on numerous IEEE committees, most recently as a member of the IEEE Signal Processing Society Technical Committee on Signal Processing for Communications and is a member of numerous IEEE societies. He has authored seven book chapters and is author or co-author of 99 journal articles and 133 conference papers.

Tugnait's lecture entitled "Some Personal Observations on Statistical Signal Processing in Electrical Engineering" was presented in April 2003. The Distinguished Graduate Faculty Lecturer is selected annually by a committee of previous recipients for service in support of graduate education at Auburn University. In addition to a keynote address, the recipient is honored with a departmental luncheon and an honorarium, both sponsored by the Alumni Association, and a dinner sponsored by the Office of the President.



Student receives BMEP award

In recognition of outstanding dedication and commitment to mentoring and tutoring BellSouth Minority Engineering Program (BMEP) students, Freddie Smith, a senior from Hayneville, Ala. was named the BMEP Most Outstanding Mentor-Tutor for 2002-2003.

The award recognizes outstanding service to the students of BMEP. Dennis Weatherby, assistant dean of engineering for minority affairs, is the program's director.

Victor Nelson is elected to education committee

In November 2002 ECE professor Victor Nelson was elected to a three-year term on the 12-member IEEE Education Society Administrative Committee. The society's goals are to advance the theory, practice and accessibility of engineering education and assist in achieving overall institute goals. Its three categories of objectives are to improve service to members, provide service to community and society, and improve communications.

Nelson was also selected by the Accreditation Board for Engineering and Technology (ABET) to serve as a program evaluator for a five-year term beginning fall 2002. A member of the ECE faculty since 1978, he serves as graduate program officer, undergraduate curriculum committee chairman and chair of the logic and computing devices stem.



J. David Irwin

Irwin named ASEE fellow

Earle C. Williams Eminent Scholar and ECE Department Head J. David Irwin was named a 2002 fellow of the American Society for Engineering Education (ASEE) at the annual ASEE conference in Montreal in June 2002.

"The grade of fellow is one of unusual professional distinction," the ASEE states, "and is conferred by the board of directors upon an ASEE member with outstanding and extraordinary qualifications and experience in engineering or engineering technology education or an allied field who has made appropriate and important individual contributions. Special attention is given to an individual's contributions within ASEE."

Gross helps scouts earn badges in EE fundamentals

Having received teaching awards over five decades, Square D professor Charles Gross has a reputation for loving what he does. In July 2002 he organized a one-day program entitled "Fundamentals of Electricity" for 17 scouts and three adult leaders of Boy Scout Troop 142 from Decatur, Ala.

Covering topics such as basic electricity, computer-aided design, and electronics, the program included laboratory exercises, a tour of the Alabama Microelectronics Science and Technology Center lab and a video on careers in electrical engineering. The scouts earned merit badges in electricity and electronics.

ECE alumnus **Jeff Nelson** is named as 'outstanding'

Jeff Nelson (EE '89) received the 2002 Walter Fee Outstanding Young Engineer Award at the IEEE Power Engineering Society (PES) summer meeting in Chicago.

The Clanton native joined the Tennessee Valley Authority (TVA) in 1990 and is a senior electrical engineer in the Substation Projects department in Chattanooga, with responsibility for substation design and design standards and the application and specification of electrical equipment.

Nelson is a senior member of IEEE and is involved in its Chattanooga Section for which he is past chair. He is also past chair of the PES Chattanooga Chapter, chair of the Membership Advancement Committee, and serves on the Section board of directors.

He has been involved in IEEE PES standards activities for more than 10 years, is a charter member of the IEEE Standards Association, secretary/treasurer of the Switchgear Committee, chair of the Capacitor Subcommittee, past chair of the High Voltage Circuit Breaker Subcommittee, and a member of numerous working groups. He is also a member of the editorial board for IEEE Transactions on Power Delivery.

Nelson's community involvement includes the Chattanooga Combined Federal Campaign, Engineers Week "Student for a Day", and music and drama programs at Red Bank Baptist Church. He and his wife Lisa and daughter Emily reside in Soddy Daisy, Tenn.

The award is named for a former IEEE PES president and is presented annually by the IEEE-PES to one of its members. It recognizes outstanding contributions in the leadership of technical activities, leadership in community and humanitarian activities, and evidence of technical competence through significant engineering achievements. It includes the donation of a \$5,000 electrical engineering scholarship to the university of the recipient's choice, for which Nelson designated Auburn University.

PES has more than 23,000 members worldwide and is dedicated to studying and advancing the generation, transmission, control, measurement, distribution and use of electrical energy. It is one of about 35 technical societies operating within IEEE, which has some 366,000 members.



Jeff Nelson



Russell Spyker

Spyker receives Air Force award

The U.S. Air Force has named Russell Spyker as the recipient of the 2001 Science and Engineering Award for Engineering Achievement. Spyker leads the Propulsion Directorate's power electronics in-house research team in developing new, affordable capacitor packaging methods and a novel compact ratio metric current transformer.

The new capacitor modules will save millions of dollars as the Air Force and Department of Defense move toward more electric systems. The ratiometric current transformer saves 70 percent of the weight and volume over current state-of-the-art sensors and will transition into many Air Force and commercial power electronic subsystems.

Spyker, who earned a doctoral degree in electrical engineering from Auburn in 1997, also developed an advanced power electronic system to provide battery-like performance with 100X cycle-life

improvement over existing battery systems, a technology with the potential to replace thousands of low discharge-rate batteries, solving a serious aircraft safety issue and saving the Air Force and industry millions of dollars.

Alumnus Warren conducts MEMS seminar on campus

ECE alumnus Keith Warren (EE '80) returned to Auburn University in December 2002 to give a seminar on MEMS (Micro Electro Mechanical Systems), a technology in which Warren's expertise is nationally recognized.

MEMS are complex microscale mechanical/electrical devices that employ fabrication technology similar to that used for producing integrated circuits. But unlike integrated circuits, MEMS devices often have moving parts and are capable of directly interfacing with the physical world as sensors or actuators.

Micromachining emerged a few decades ago as a useful technology primarily through anisotropic etching of silicon. The first mass produced "bulk etched" devices were silicon diaphragm pressure sensors and silicon accelerometers. During the '80s surface micromachining utilized layers of low stress polysilicon typically 2um thick and photolithographically patterned to make more complicated structures and arrays. Applying current technologies such as Deep Reactive Ion Etching (DRIE) and silicon bonding make three-dimensional structures that have flatter surfaces and are more robust than thin film surface micromachined MEMS. This technology creates new opportunities for engineers to design a myriad useful product. About six years ago there was a handful of DRIE reactors in the world. Although now more widespread they are still uncommon and Alabama is fortunate to host two of them, one at MEMS Optical in Huntsville and one at the microelectronics lab at Auburn University.

The combination of DRIE and silicon fusion bonding is employed to fabricate complex micro actuators for advanced optical applications such as adaptive optics to correct phase aberrations, beam scanning, and projection. Warren's seminar, Micromirror Arrays and Actuators for Advanced Optical Applications, showed microphotographs of actual devices, an overview of fabrication, and a discussion of applications.

After graduating from Auburn, Alabama native Warren joined Microelectronics Engineering Corp. in Auburn (later InSouth Microsystems) as a design engineer. While at MEC/InSouth he designed piezoresistive sensors for micromachined silicon accelerometers and application circuitry for post-impact penetrator munitions and was principal research investigator in developing a Coriolis Angular Rate Sensor based on micro silicon accelerometers.

After Fairchild's 1984 acquisition of InSouth, he was recruited by Litton's Guidance & Control Systems division in Woodland Hills, Calif. to lead the development of an all-silicon micromachined accelerometer based on Silicon-On-Insulator (SOI) technology. He designed closed loop Charge-Controlled Forcer servo electronics that reduced errors by more than an order of magnitude over voltage-controlled methods. Today, Litton Guidance systems using this technology are in production and are applied in missile and manned aircraft applications.

In 1997 Warren left Litton for independent consulting, now residing in Auburn with his wife and two children. He has recently worked with MEMS Optical, LLC in Huntsville on several optical microactuator devices and is a member of IEEE, is a Registered Professional Engineer in California and Alabama, and is inventor or co-inventor of 10 U.S. patents.

Wireless security, network technology is seminar topic

James Hill (EE, ME '00) returned to the Auburn campus last fall to speak to students in Wireless Security and Network Information and Networking Technology classes taught by ECE professor John Wu.

Hill graduated from Auburn magna cum laude. As a student he participated in the Cooperative Education Program by working for NASA Johnson Space Center. He recently achieved the highest level of industry certification in the field of computer networking, the Cisco Certified Internetwork Expert (CCIE).

Cisco Systems hired Hill as an associate systems engineer and assigned him to Cisco training during which he was required to complete several criteria, including CCNA, CCDA, CCNP and CCDP Cisco certifications. He also completed the CCIE written exam. After graduating from the training program and passing the CCIE practical exam he became Cisco CCIE #9442. He continues his work at Cisco as a systems engineer in designing, building and supporting customer networks and emerging technology applications throughout Alabama. A resident of Birmingham, he supports all Cisco customers north of Shelby County.

His recent campus presentation related theory to practice for students. Wu considers him a role model for ECE students due to the rapid pace at which he earned the CCIE, adding, "His live demonstration using Cisco equipment was encouraging to students to become network and security professionals."



James Hill



DeMaioribus accepts Outstanding Alumnus award from Dean Larry Benefield

DeMaioribus named outstanding alumnus

Michael DeMaioribus, who earned bachelor's and master's degrees in electrical engineering in 1976 and 1977, respectively, both from Auburn, was named Outstanding Electrical and Computer Engineering Alumnus of 2003.

Currently the vice president of advanced technology for Dynetics, DeMaioribus leads a division that performs weapon systems analysis, hardware/software systems development and testing, and engineering computer model development. He serves the Auburn's ECE department as a member of the ECE Industrial Advisory Board. The award was presented at the Samuel Ginn College of Engineering awards reception in April.

ECE alumni lead Alabama BEST champions to victory



Susan (Howie) Haddock (EE '79) taught the first place Austin High School team. Her husband Joey Haddock (EE '80) was a team mentor.

ECE faculty, students, and alumni teamed to help pull off a tremendously successful 2002 Alabama BEST robotics competition, bringing to Beard-Eaves Coliseum over 50 high school and middle school teams from Alabama and Georgia—more than double the number of the previous year's participants. ECE faculty member John Hung led ECE student volunteer referees and scorekeepers over a nine-month period to prepare three playing fields, kits of electronic control systems, game documentation on CDs, teaching materials, and game day scoring software. Professor Mark Nelms was one of 40 game day judges who evaluated student design portfolios, oral presentations, and team sportsmanship. But the biggest impact on the BEST program came from alumni. "The Alabama BEST program is a great example of Auburn University's commitment to promoting and improving math, science, and technology interest at the K-12 level," Hung said. "It takes

a lot of people working together to develop and run the competition, but it is our alumni who volunteer as team mentors that really make the big difference with the students."

Team mentors guide students in the design process and share their own professional experience to help team members through the difficulties that arise unexpectedly during the intense six-week design cycle. The 2002 BEST game theme "Warp X: Blast from the Past," presented a mix of problems from the previous 10 competitions. At Teacher Training Day, Hung told teachers and mentors, "This year's game task is not difficult—it is almost impossible. You will have a tough job keeping the kids focused and not letting them become discouraged."

ECE alumni Susan (Howie) Haddock (EE '79) stepped up to the challenge. Susan is a mathematics teacher at Austin High School in Decatur, Ala., and saw Alabama BEST as an opportunity to guide high school students through an engineering design process. "Blast from the Past" was the first robot design competition for Austin High School, yet Susan led her students to first place in the robotics competition, overtaking last year's winner Auburn High School. The team also took third place in the "most elegant design" category. Susan's husband Joey Haddock (EE '80) served as a team mentor. They took their championship team to the Texas BEST regional competition in College Station, Texas.

After receiving her Auburn degree, Susan held several engineering positions in industry and civil service, one of which was with West Point Pepperell designing software for microcomputer-based control systems. The Haddocks then traveled extensively in response to Joey's military assignments. Susan worked for the Naval Electronic Systems Engineering Command in Washington, D.C. and for the U.S. Navy in Pearl Harbor, Hawaii. After raising her family, she returned to the workforce

as a teacher. "I originally thought of going back into engineering, but I have fallen in love with teaching," she said. "My engineering background and experiences give me extra credibility with my math students. Most kids hate math. I love to show them how math is useful in real-life situations and that math is really practical. An added bonus is to explain engineering processes because so many kids have no idea what real engineers do." Joey served in the military for several years after graduating from Auburn. He was a Boeing systems engineer in Huntsville from 1988-1993, and since then has been a R&D special projects manager at VMIC, a division of GE Fanuc. The Haddocks are proud parents to three sons, Chris, 19, Stephen, 16, and 10-year-old Daniel. "We love Auburn University, and we were delighted to have the opportunity to be a part of the Alabama BEST program," the Haddocks said of the experience. "The Austin High team immediately started talking about the next competition."

The Alabama BEST program is a cooperative effort sponsored jointly by the College of Engineering, the College of Sciences and Mathematics, and industrial partners, who for 2002 include Alabama Power/Southern Company (Birmingham), Honda Motor Company (Lincoln, Ala.), Lowe's Home Improvement Warehouse (Opelika), Mirant Services (Atlanta), Briggs & Stratton Large Engine Division (Auburn), and Rheem Manufacturing Company (Montgomery). An excellent website that includes photographs from the 2002 competition is available at www.alabamabest.org.



ECE students (from left) Lia Almeida, Nathan Loden, and Jim Motes serve as BEST referees.

Auburn students design, build new CubeSat satellite

Auburn University students majoring in engineering, sciences and business began last fall to design and build a satellite that will eventually be launched into space.

"The AU project is part of a nationwide effort by the NASA Space Grant Consortium to develop a national workforce and to have student-built satellites in orbit immediately, sent to the moon by 2005, and blasted off to Mars by 2009," associate professor of physics Jean-Marie Wersinger said.

Wersinger, a NASA Space Grant Fellow and coordinator of the program, said the program's short-term goal is to design, build and launch a satellite in one year's time. The long-term plan is to establish a permanent satellite building capability on the Auburn campus. Participating students are taking a course called Student Satellite Design (PHYS 3500) and a related laboratory course (PHYS 3501). Combined, the lecture and laboratory courses provide the students with the essential information they need to build a CubeSat satellite.

ECE students Andrew Sivulka and Larry Stephens are among the students from electrical and computer engineering, aerospace engineering, mechanical engineering, physics, and the College of Business who have been working since last spring to investigate various options for possible satellite missions. Ron Jackson and Brad Thieleman joined the project in the spring 2003 semester.

"We must come up with a design that incorporates a power system, a communications system, a command and data handling system, and a science payload—all within a thermally controlled structure—and it must fit in a four-inch box and weigh no more than 2.2 pounds," graduate student project manager Luther Richardson said.

For more information and to follow the project's progress, visit the CubeSat web page at www.space.auburn.edu.

ECE launches wireless engineering lab course

A new junior-level lab course ELEC 3060, Wireless Design Lab, was first offered in spring 2003. Course goals are exploring hardware and software aspects of wireless telecommunications systems, practicing written and oral technical communication, acquiring engineering design experience and gaining exposure to cross-functional issues such as teaming and ethical decision making.

Wireless engineering is an undergraduate degree option offered jointly by the Department of Electrical and Computer Engineering and the Department of Computer Science and Software Engineering. The Wireless Engineering Research and Education Center (WEREC), building upon a \$25 million gift from Samuel Ginn, provides laboratory facilities to support the new degrees and will be used in support of wireless engineering senior design projects.

Call for ECE nominations

ECE invites you to nominate outstanding alumni for recognition. Nominations should contain as much detail as possible and contact information for the nominator and the nominee. Please forward all nominations to ECE Alumni Award Nominations, 200 Broun Hall, Auburn University, AL 36849-5201.

Aubie wins national title

Auburn University's mascot Aubie has been named the nation's No. 1 collegiate mascot for the fifth time. The lovable tiger took the title over 15 finalists at the Universal Cheerleaders Association's 2003 national championship mascot competition in Orlando in January.

"We're very excited that Aubie has continued the tradition of excellence, again bringing home the national championship," Aubie advisor Debbie Shaw said. "The students who have served as Aubie this year have worked hard to get this title back." Aubie took this year's title over first runner-up Big Al of the University of Alabama and third place winner Smokey of the University of Tennessee. His four previous UCA national championships were awarded in 1991,



Students Mohamed Abdulmagid and Chris Trueblood are using Telecommunications Instructional Modeling System (TIMS) equipment to study practical aspects of cellular telephone radio transmission.



Aubie illustrates his standing as No. 1 collegiate mascot

1995, 1996 and 1999.

The Aubie "team" was comprised of Taylor Griswold, a senior in electrical and computer engineering from Montgomery, Jeremy Legg, a senior in textile engineering from Franklin, Tenn., and Trey Mock, a sophomore in the College of Sciences and Mathematics from Marietta, Ga.

Aubie began as the cartoon of Birmingham artist Phil Neel and was featured on Auburn football program covers from 1958 through 1976, coming to life as AU's official mascot in 1979.

Alumni updates

Lewis A. Ward '66 and '68 retired from Southern Nuclear Operating Company after 29 years. He and his wife Mary Carol (Justice) '65 live in Birmingham.

Elton A. Hopper '67 recently retired from the Air Force Research Lab at Wright-Patterson Air Force Base in Ohio. After earning a bachelor's degree in electrical engineering from Auburn, he received a master's degree in electrical engineering from the University of Illinois and a master's degree in engineering management from the University of Dayton. Hopper retired as a GS-14 research scientist/engineer developing leading-edge technology for airborne radar for fighter, bomber, and reconnaissance aircraft.

Joy Menefee Spangler '89 and husband Chris welcomed a daughter, Zoë Ellen, born June 20, 2002. Joy earned an M.B.A. from the Kenan-Flagler Business School at the University of North Carolina at Chapel Hill in 1996 and is currently employed with Deloitte Consulting in Atlanta.

Julia Snell Cartier '90 is a software engineer with Tulmel Systems of Melbourne, Fla. She and her husband Kyle are the parents of two sons, Nathan Joseph and Nolan. The Cartiers live in Orlando.

John Herron '92 resides in Cincinnati where he works for GE Aircraft Engines in the Controls Center of Excellence. He works in propulsion control system design and flight/propulsion control integration.

Michael Shepherd '94 and '96 is now a Licensed Professional Engineer. He is employed with Georgia Power as a power quality engineer.

Angie Patterson Haller '97 and her husband Scott welcomed their first child, Mason Andrew, on January 9, 2002. The Hallers live in Birmingham.

Matt Clements '00 is a graduate student at the University of Washington. He is planning to continue his education in law school.

Erica Smith Patrick '02 was married on June 8, 2002. She and her husband David live in Raleigh, N.C.

In memoriam

Robert E. Reed '65 of Mountain Brook, Ala., passed away on September 29, 2002. Upon completion of his bachelor's degree in electrical engineering from Auburn, Reed began his managerial career with the General Electric Company (1965-1972) before joining Johnson-Rast & Hays (now RealtySouth) in 1972. As president and CEO, and ultimately chairman and CEO, of one of the 20 largest U.S. real estate firms from 1975 to the present, he led in the development of a number of significant Birmingham buildings including The Financial Center, SouthTrust Towers, Colonial Bank Building (formerly Shades Valley High School), Luckie Building on U.S. 280, Morgan Keegan Building near Brookwood Mall, and Kirklin Clinic.

Reed held memberships in various organizations including National Association of Real Estate Brokers, Newcomen Society of North America, Birmingham Monday Morning Quarterback Club, The Club, The Summit Club, Shoal Creek Country Club, Country Club of Birmingham,



Chevron funds ECE program enhancements

ECE Department Head J. David Irwin accepts a check from Chevron engineer Landon Lunsford. Chevron's support provides program enhancements for the Department of Electrical and Computer Engineering scholarships for outstanding ECE students.



Earle M. Sigler '39 of Mobile died June 15, 2002. He generously donated a considerable collection of antique electrical engineering instruments to the ECE department for use in displays and instruction.

Downtown Rotary Club of Birmingham (Paul Harris Fellow), University of Alabama at Birmingham President's Council, and Birmingham Business Advisory Group to the Mayor.

He also served as director of Golden Enterprises, Alabama Association of Independent Colleges and Universities, Birmingham Board of Realtors, National Association of Realtors, The Realty Alliance, Better Business Bureau of Central Alabama, and Birmingham Area Chamber of Commerce.

Additionally, he was chairman of the American Cancer Society's Hope Lodge building committee, Heart Fund's real estate division, and the business task force of The Realty Alliance.

Reed was a member of Mountain Brook Baptist Church where he served as deacon, chairman of the finance committee, and life deacon.

Survivors include wife Carolyn Brinson Reed, son Randy and his wife Jenny, son Scott and his wife Robin, grandchildren Sanders, Andrew, Hutton, Edward Barlow, Brinson, Mallie and Robert II, mother Della Reed and sister Lillian Reed Somers, all of Birmingham. Memorial services were held October 1, 2002.

The ECE Newsletter is published twice yearly by the Department of Electrical and Computer Engineering. Address changes, news items, and suggestions should be sent to:
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