MISSION STATEMENT

Our mission is to practice the highest standards of engineering ethics and to provide professional services to the state, the nation and the global community. We strive to make the College of Engineering a superior education and research resource for a wide range of individuals. To achieve this mission, the University of Tennessee College of Engineering is committed to:

1. Ensuring an academic environment that actively encourages faculty and students to achieve the highest levels of academic excellence utilizing a contemporary engineering curriculum;

2. Promoting innovation and multi-disciplinary teaching and research activities;

3. Providing leadership in undergraduate and graduate education and effectively serving the college’s various constituencies; and

4. Challenging students to grow beyond their disciplines by participation in ethics and leadership programs.
Welcome to the University of Tennessee College of Engineering’s 2003–2004 Annual Report. We are pleased to inform you about our progress for the past fiscal year.

In my second year as dean, the college is experiencing many exciting and dynamic changes. The newly established State of Tennessee HOPE Scholarship provided us with a bumper crop of freshman engineering students last fall. The number of incoming freshman students jumped from 395 in the Fall 2003 semester to 537 in the Fall 2004 semester, an increase of 36%. The other good news about this year’s freshman class is the high caliber of student test scores. In the fall of 2003, the average COE ACT score was 25.8; in the fall of 2004 the average COE ACT score was 26.3.

We also received good news when U.S. News & World Report released part of its newest edition of “America’s Best Colleges” in August 2004. The COE tied with several other schools for 60th place in the “Best Undergraduate Engineering Programs” category, up several slots from the number 67 rating that we received in 2003. Although these ratings may be controversial, we must accept that they are used as a tool when selecting an academic institution, and a positive ranking in this publication enhances our appeal to potential students and their parents.

Several highly accomplished professors have joined our staff, and our current faculty continues to excel in both teaching and research. Professor C.T. Liu, member of the prestigious National Academy of Engineering (NAE), recently joined the faculty of the Department of Materials Science and Engineering as a Distinguished Research Professor. We have also established a number of joint professorships with Oak Ridge National Laboratory (ORNL) including one in the area of biomedical engineering. Two of our outstanding faculty members, Dr. Wesley Hines,
an associate professor in the Department of Nuclear Engineering, and Dr. Peter Liaw, a professor and the Ivan Racheff Chair of Excellence in the Department of Materials Science and Engineering, are profiled in this report.

The college has been fortunate to have increased its research expenditures (gifts, grants and contracts) from $22.2 million in FY 2003 to $26.1 million in FY 2004. Research funds are not only used for engineering education, but also for other non-engineering academic programs. Additionally, successful engineering programs bring in sizeable endowments to universities that can be used to support a variety of academic programs and other needs.

Our Engineering Development Office has received a $12.5 million pledge, from a donor who wishes to remain anonymous, toward the building of a new electrical and computer engineering building, providing the state approves the matching funds of $25 million. The same donor is willing to match gifts to the ECE Department on a one-to-one basis for up to $5 million, which presents us with an extraordinary opportunity for even greater accomplishments. We also received hopeful news from the State of Tennessee regarding Estabrook Hall, which has been in urgent need of renovation for many years. The building is finally near the top of the list-ings for capital improvements in FY 2005-2006.

All of the accomplishments of this year, however, serve to remind us that it is only through hard work, accountability and discipline that we can reach our goals.

We appreciate your interest in the College of Engineering. Please direct any comments about this report or COE activities to coe@utk.edu.

Sincerely,

Way Kuo

Dean and University Distinguished Professor, The University of Tennessee College of Engineering
TeKisha Sampson knew before she started college that industrial engineering was going to be her chosen field. “When I was in high school, I was involved in a program that was geared to introduce minorities to industrial engineering and engineering management. From 10th grade on I was hooked. I knew what I wanted to do when I grew up,” said Sampson.

Now a senior in industrial engineering, Sampson’s enthusiasm for engineering has increased with her experience in the discipline. “I have been given a broad base of knowledge to work with. I think it’s exciting that engineering is different from other majors—I don’t just receive industrial engineering training, I receive training from other engineering fields, and I believe this will make me a better engineer,” said Sampson.

Sampson has been involved with the Office of Professional Practice’s programs since her freshman year. During her sophomore year she was an Engineering Ambassador, mentoring and tutoring students, and giving presentations to prospective COE students and their parents. After her sophomore year she had the chance to begin a co-op position. “Being involved in the co-op program has helped me learn more about myself,” said Sampson. “My co-op experience—being in new and unfamiliar situations—taught me responsibility, and to not be afraid of going after my goals.”

Sampson received the COE Office of Professional Practice’s 2004 annual service award. The award goes to students who have shown excellence and dedication to the Co-op Engineering Program.

Participating in the co-op program has helped Sampson in other ways. “I believe this is one of the best opportunities I have had during my years at UT. I learned so much while in the program, not only academically but socially and personally,” Sampson said.
“Through the process, I became a better person. I have learned to be a better listener, and a better public speaker.”

The service award was a surprise to Sampson and her co-recipient, Matthew Francis, a senior in nuclear engineering. “During spring 2004, we were asked to develop a company research presentation for prospective co-op students who were interviewing in the fall,” said Sampson. “Matthew created an awesome PowerPoint presentation, and during the summer some friends and I made a video to accompany it. Matthew and I spent much of our own time pulling this together. It was something we dreamed up and constructed with hopes that it would benefit the next generation of co-op students.”

Sampson said her drive to excel will continue after graduation. “I plan to work with industrial engineering—particularly manufacturing and operations. I also want to go back to school soon to earn a graduate degree in industrial engineering and business administration,” Sampson explained. “One valuable advantage of being a student in UT’s COE is that I have received a very well-rounded education. And I was able to participate in the Engineering Co-op Program. I think that was one of the most beneficial experiences of my education.”

The Office of Cooperative Engineering has officially changed its name to The Office of Professional Practice (OPP) to reflect recent changes in the program.

“Our new structure will compliment the long standing history—since 1926—of cooperative engineering as well as offering professional internships to encourage greater participation,” said OPP Director Walter Odom. “The name is more appropriate to address our emphasis on quality for co-op engineering, the Diversity Engineering Scholarship Program (DESP) and internships.”

Program updates include:

- A structured learning environment for co-op students and interns
- Positions are all paid positions
- Students can start work assignments as interns and then advance to cooperative engineering assignments
- Students may now work two-term only co-op assignments
- College seniors receive work experience before graduating
- Work assignments can begin as early as sophomore classification

“We are excited about these new opportunities, and look forward to seeing an impressive number of students participate in our revamped program,” Odom added.
had Roby views his time in the college as a chance to begin expressing his passion for his field. Currently working towards his Ph.D. in civil engineering, Roby completed his degree requirements for a master’s in environmental engineering at UT during fall 2004. Surpassing the challenging standards for thesis research, Roby implemented unique research methods and created new techniques to maximize the reach of his project.

The college’s proximity to the Great Smoky Mountains National Park provides complex natural settings in which graduate students can conduct research. Roby’s thesis research focused on collecting water quality data prior to reconstruction of a road and collection of storm event data to assess a better understanding of the impacts of acid rain in the park.

“Monitoring of the Little Pigeon River watershed offered unique opportunities to study relationships between acid rain deposition and stream water quality,” Roby said. “The park’s high rate of acid deposition is believed to play a role in altering aquatic ecosystems in this watershed and others throughout the park.”

His study involved a number of water quality devices. “I used Isco auto-samplers and YSI sondes, which measure 15 minute pH, conductivity, temperature, turbidity and depth. The depth measurement from the sonde was used to trigger the auto-sampler to collect storm flow samples. I also collected base flow samples to establish a baseline. Those samples were analyzed at our UT laboratory for pH, conductivity, alkalinity, major ions and several metals,” explained Roby.

Roby’s new method for employing sonde data allows for assessment of pollution distribution during storm events. Using the sonde data to develop statistical models, Roby found a relationship between storm events and water quality. Results showed that pH could drop as low as 4.0 in one stream during storm events, suggesting low pH is a significant cause of the lack of fish in that particular stream.

Roby also created a novel instrument installation technique to protect expensive equipment and built an innovative device to capture precipitation samples from different portions of a storm. “I enjoy working on my research project. I’ve learned a lot along the way,” said Roby. “I have had the chance to work with top-of-the-line equipment while operating the four
streamwater and two precipitation water quality monitoring stations. I feel like I am truly making a contribution to my profession.”

Roby said he enjoys the various aspects of his experience at UT: “I couldn’t say what one thing is most rewarding about being a part of the college—it’s rather a combination of things. All of the faculty in the college are great to work with, I like the class work, and I’ve benefited a great deal from the research I was able to complete.”

A sergeant in the 380th Quartermaster Battalion, Roby may have to put his current Ph.D. work on hold as his Army Reserve unit will likely be deployed to the Middle East soon. But the skills and experience he’s gained from the COE will be valuable. “Our unit will be running a base camp,” said Roby. “The battalion commander intends for me to use my environmental background to deal with any camp environmental issues.” Once Roby completes his service, he plans to finish his Ph.D. and pursue an academic position after spending some time in the private sector.
Since 1973, the College of Engineering has had an established department to encourage diversity in the field of engineering. The program was initially created with the hiring of the late Fred Brown Jr. as the first Director of Minority Engineering Programs, followed by the development of the successful Minority Engineering Scholarship Program (MESP). Today, the college continues its successful commitment to diversity with several outreach programs.

In August 2004, Emanuel Bailey, an alumnus and distinguished graduate of the College of Engineering, began serving as the Interim Director of Minority Engineering in the absence of James Pippin, the former director, who is in the 278th Armored Calvary Regiment serving in Iraq.

The Office of Engineering Diversity Programs (EDP)

The Office of EDP collaborates with other departments, staffs and organizations to design and implement programs that support and aid underrepresented students and assist with their success at the university in an effort to increase the number of minority students entering the COE and graduating with engineering degrees.

Each year, the Office of EDP conducts and implements:

- Middle School Introduction to Engineering (MITE), a one week summer residential program for minority 7th and 8th graders designed to use tools, presentations, field trips and hands-on activities to introduce engineering technology and concepts.

- Introduction of Sophomores to Engineering Principles (IN-STEP), a one week residential program for minority 9th and 10th graders who have an interest and aptitude for careers in engineering. Classes expose students to the basics of engineering, explore the different disciplines, explain why math is important and outline the design process.

- High School Introduction to Engineering Systems (HITES), a one week program for minority 11th and 12th graders, that is designed to expose participants to computer and mathematical tools, design and analytical processes used by engineers.

- Summer High School to College “Bridge” Program for entering underrepresented engineering freshmen. This intense two-week training session is designed to expose and allow students to transition into the demanding schedule and expectations of the college. Students are introduced to key COE staff and work with hands-on projects related to courses they will be taking during their freshman year.
In addition to these activities EDP also:

- Works to increase the pool of qualified students by providing academic and career exposure to pre-college students
- Recruits students and provides services and resources to ensure their success
- Works with faculty, staff and students to create an invigorating and supportive environment
- Assists in the preparation of students for graduate studies and engineering careers

**Tennessee Louis Stokes Alliance for Minority Participation**

In 2003, UT-Knoxville, with endorsements from the College of Engineering, committed to collaborate with five other institutions in the state of Tennessee to create the National Science Foundation-sponsored Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP). The goal of the alliance is to increase the number of underrepresented minority students (Hispanic, African-American and American-Indian) attending and graduating from the six institutions, majoring in science, technology, engineering and math (STEM), by 100%. TLSAMP is a major activity that EDP jointly collaborates with, co-directs and co-sponsors in coordination with Dr. Denise Jackson, an associate professor in the college’s Department of Industrial and Information Engineering, who serves as Project Director.

The statewide alliance of TLSAMP sponsors three major programs annually: a statewide summer bridge program for top minority entering freshmen, an undergraduate research conference for minority students and support for summer undergraduate research.

**The Diversity Engineering Scholarship Program (DESP)**

The UT College of Engineering has consistently promoted the recruitment of African American students through the Minority Engineering Scholarship Program (MESP). UT corporate partners have provided financial support and relevant work experiences for MESP participants through the Office of Professional Practice.

The program was re-named the Diversity Engineering Scholarship Program (DESP) in 1999, but still shares the original goals of the MESP—to attract, educate and graduate responsible engineers to address the challenges of our society and the world.

**A Successful Outreach**

Due in large part to the success of the MESP, DESP and EDP, the UT College of Engineering has graduated one of the largest groups of African-American engineering students in the nation. Currently, The University of Tennessee ranks in the top one hundred of universities and colleges that annually graduate twenty or more African-American engineering students. UT’s overall retention rate is 60%, well above the national average of 35%. Over 700 students in three decades have graduated from minority engineering programs at The University of Tennessee in Knoxville.
**STUDENTS**

**HOPE Scholarship Increases Enrollment**

The University of Tennessee campus welcomed an amazing number of new students on August 19th, 2004.

Approximately 4,436 freshmen were enrolled, a nearly 25% increase over the 3,568 figure in the fall of 2003. All of the in-state freshman students qualified for the newly established HOPE Scholarship, funded by the Tennessee State Lottery.

The scholarship, which totals $3,000 to $4,000 depending on the student’s grades or financial need, has attracted record numbers to universities and colleges across the state.

The College of Engineering benefited from the influx of lottery students as well, with the number of incoming freshmen up 36% from 395 in the fall of 2003 to 537 in the fall of 2004.

The other good news about this year’s freshman engineering class is the high caliber of student test scores. The average 2004 freshman ACT standardized college entrance test score was 26.3, a dramatic increase over 2003’s average score of 25.8. ACT scores for engineering students are traditionally higher than those in other disciplines. In 2004, the engineering freshman ACT average score of 26.3 was 1.5 points above the overall UT incoming freshman average of 24.8.

The larger enrollment meant a growth in the college’s Jerry E. Stoneking Engage Freshman Engineering Fundamentals Program as well, with 535 students enrolled in the Fall 2004 semester. The previous high numbers were 485 students in the fall of 2003, and 435 in the fall of 2002.

The college was well-prepared for the large number of freshman students, but eventually more spaces had to be added to the Engage freshman engineering program, and all of the existing and added slots were full.

“I’m grateful for an Engage staff that pulls together to get the job done,” Engage Program Director Roger Parsons said.
ENGINERRS DAY

The College of Engineering’s annual Engineers Day brings together hundreds of potential engineering students from high schools across Tennessee to enjoy discussions, project demonstrations, exhibits, food and fun. Over 800 students attended the 2004 Engineers Day, participating in activities including the Engineers Day Quiz Bowl and the Department of Civil and Environmental Engineering’s Annual Balsa Wood Bridge Competition. In addition, various campus engineering organizations had their exhibits judged by a panel of experts.

ENGINEERING STUDY ABROAD

The College of Engineering works with several organizations, both on and off campus, to enable interested students to participate in significant engineering experiences abroad.

The UT Center for International Education collaborates with the COE to set up opportunities for engineering studies in other countries. The COE is also currently internationalizing the engineering curriculum.

KIMBERLY-CLARK WELCOME COOKOUT

UT College of Engineering students have been welcomed back to campus for almost a decade by the Kimberly-Clark Welcome Cookout. Co-sponsored by Kimberly-Clark Corporation and the Office of Professional Practice, this yearly event offers an opportunity for engineering students to interact informally with COE faculty and staff and to enjoy a barbeque lunch with all of the trimmings. Kimberly-Clark is a leading $14 billion global manufacturer of tissue, personal care and health products and is one of UT’s top recruiting employers.
VERSATILITY IN TEACHING

Dr. Wesley Hines, an associate professor in the University of Tennessee’s Department of Nuclear Engineering, gives new meaning to the word “versatility.”

An outstanding teacher, researcher, mentor and student advisor, Hines has also established himself as an internationally recognized expert in maintenance and reliability engineering, condition monitoring and diagnostics, and applied artificial intelligence.

He has been a campus leader in promoting the effective integration of technology into the classroom, and currently serves as the COE’s Extended Education Coordinator. The first COE professor to teach a class synchronously over the Internet, he has instructed students at other U.S. universities such as the Colorado School of Mines and internationally to researchers at Brazil’s National Nuclear Research Center. Hines has developed internal grant programs aimed at integrating advanced teaching technologies into the classroom.

The primary focus for Hines, however, remains on the students.

“In all of my work with technology in the classroom, I try to get people to think strategically, so we can efficiently allocate our resources to improve our services to our students as well as positively affect our ranking,” Hines said.

Recently, Hines won a multi-year National Science Foundation grant to develop distance-based courses to facilitate student transfer from community colleges into the engineering college. The goal is to provide classes that may not be traditionally offered at community colleges but are required prerequisites to start the junior year at UT.

“You often see two schools of thought about research and teaching,” Hines commented. “One school advocates teaching from the theoretical point of view, while the other backs the application point of view. I try to merge both—it is the theory that allows students to understand why things happen the way they do, so they can then correctly and effectively apply these principles to real-world situations.”

A respected researcher in the application of artificial intelligence and advanced information processing techniques to
equipment monitoring and diagnostics, Hines has developed techniques for sensor calibration and monitoring that are used in the nuclear and chemical industry; these applications have also been adopted by large international research centers, such as the Halden Reactor Project (HRP) in Norway.

Hines is the author of *MATLAB Supplement to Fuzzy and Neural Approaches in Engineering*, published by John Wiley & Sons in 1997. The publication includes hundreds of examples, demonstrations and problems for engineering students. Hines is also working on a second book, and currently has six articles accepted for publication by refereed journals, with an additional three in review.

Hines has been the principal, co-principal investigator or senior researcher in funded projects at UT exceeding $3.4 million, and virtually all were won by competitive submissions to federal agencies and industrial organizations.

In 2004, Hines received the College of Engineering’s Teaching Fellow Award and the Leon and Nancy Cole Superior Teaching Award. He was the recipient of the 2004 American Society for Engineering Education, Southeastern Section Outstanding Mid-Career Teaching Award and also received the “2004 Outstanding Contribution Award for Outstanding Contributions to the Field of Fuzzy Logic and Intelligent Technologies in Nuclear Science” (FLINS) in Blankenberge, Belgium.

“It’s my belief that those of us in the college who are serving the students have to constantly strive to improve. We have to instill change in order to get results,” Hines added.

**UT/ORNL Interdisciplinary Collaborations**

In 2000, the partnership of the University of Tennessee-Battelle assumed management duties for Oak Ridge National Laboratory (ORNL), one of the nation’s foremost scientific research centers. The college has sought to create closer ties with ORNL and the Oak Ridge scientific community by establishing the following interdisciplinary collaborations:

- International Materials Institute
- Joint Institute for Neutron Sciences
- Joint Institute for Nanoscale Imaging and Fabrication
- Joint Institute for Computational Sciences
- Joint Center for Homeland Security
- Joint Center for Biomedical Engineering
- Tennessee Advanced Materials Laboratory
FOCUS on RESEARCH

The University of Tennessee College of Engineering features an extensive research program that provides students with the advantages of working on cutting-edge projects. Research activities were enhanced at the university when the UT-Battelle partnership assumed management duties for Oak Ridge National Laboratory (ORNL). The partnership was established in April of 2000 and allied the university with one of the nation’s foremost scientific research centers.

UT and ORNL have initiated several successful joint research ventures, including the National Transportation Research Center (NTRC), a project designed to support research for technology in the automotive, transportation and other related industries. UT and ORNL are also working together to provide leadership in another new major field of interest with the Joint Institute for Nanoscale Imaging and Fabrication.

The College of Engineering has established a number of joint professorships with ORNL. This group includes distinguished educators and researchers in the fields of biomedical engineering and materials science.
The College of Engineering is home to four research centers:

**CENTER FOR MATERIALS PROCESSING (CMP)**

**Director**
Dr. Carl J. McHargue

» [www.engr.utk.edu/cmp](http://www.engr.utk.edu/cmp)

Designated by the state of Tennessee as a Center of Excellence, the CMP’s research efforts focus on the control of material properties through their composition and molecular structure as well as how these factors relate to materials processing. Participating researchers come from all engineering disciplines.

**CENTER FOR HOMELAND SECURITY AND COUNTERPROLIFERATION (CHSC)**

**Director**
Dr. Robin K. White

» [www.chsc.utk.edu](http://www.chsc.utk.edu)

The University of Tennessee and Oak Ridge National Laboratory Center partnered in 2003 to create the CHSC to marshal the considerable Tennessee Valley Corridor and Southeast Region assets for homeland security. The CHSC mission is to identify, integrate and energize academic, private sector and government resources whose capabilities address the nation’s homeland security needs.

**MAINTENANCE & RELIABILITY CENTER (MRC)**

**Director**
Thomas V. Byerley

» [www.engr.utk.edu/mrc](http://www.engr.utk.edu/mrc)

The MRC is a university–industry association dedicated to improving industrial productivity, efficiency, safety and profitability through advanced maintenance and reliability technologies and management principles. Since 1996, the MRC has grown to over thirty sponsoring companies and has educational and research interactions with faculty and staff in all departments of the College of Engineering.

**MEASUREMENT & CONTROL ENGINEERING CENTER (MCEC)**

**Director**
Dr. Kelsey D. Cook

» [http://mcec.engr.utk.edu](http://mcec.engr.utk.edu)

Organized under the National Science Foundation, the MCEC is an Industry-University Co-operative Research Center involving faculty members from several engineering departments and the chemistry department, with access to the personnel and facilities of Oak Ridge National Laboratory. There is a partner site at Oklahoma State University. Research funding comes from industrial members, who vote on project priorities. The research and educational goals focus on measurement and control engineering to improve productivity, reliability and safety of industrial systems, processes and products. Undergraduate and graduate researchers work on interdisciplinary projects often involving close contact with industry.
Dr. Peter Liaw is the College of Engineering’s version of the Energizer Bunny: He just keeps going and going and going…

A professor in the Department of Materials Science and Engineering (MSE) and the college’s Ivan Racheff Chair of Excellence, Liaw is known by students, staff and fellow faculty members for his enterprising research, positive outlook and boundless enthusiasm.

He received his Ph.D. from Northwestern University, and has been the recipient of numerous awards, including being named as a College of Engineering Research Fellow in 2004 and a National Alumni Association Distinguished Service Professor.

“I am excited about what we are doing to assist the younger generation,” Liaw said. “I’m always happy when we can make a contribution to research and education in our field, but I’m also pleased when we provide opportunities to our students to make them better-prepared to be good engineers and educators. I also want to raise the profile of our department and the university so that we can be better recognized in the materials field.”

Liaw’s tireless pursuit of research dollars has been extremely beneficial for the college and the university. In 2003, Liaw led a research team that received a multi-million dollar grant from the National Science Foundation (NSF) to create the International Materials Institute (IMI) at UT.

The group consisted of Liaw and MSE professors Raymond Buchanan and Hahn Choo as well as Oak Ridge National Laboratory (ORNL) researchers and co-principal investigators Dr. Camden Hubbard, with the Metals and Ceramics Division, and Dr. Xun-Li Wang, with the Spallation Neutron Source (SNS). NSF provided a grant of $3.6 million to establish IMI under the name of Advanced Neutron Scattering Network for Education and Research (ANSWER). UT also committed an additional $1.13 million in support of IMI through the efforts of the Office of the Provost (now the Office of the Chancellor) and the Tennessee Advanced Materials Laboratory (TAML), the Center for Materials Processing (CMP) and the Joint Institute for Neutron Sciences (JINS), providing a total funding of $4.73 million for the institute through January 2009.

“Our overall mission is to develop an international neutron scattering network for innovative multi-disciplinary research and education,” Liaw said.

Neutron scattering is a powerful technique that is particularly useful in the study of mechanical behavior for advanced structural materials, such as bulk metallic glasses, and composites and intermetallics.

“We are studying mechanical behavior, to show the lifetime of materials used for a variety of engineering applications,” Liaw added. “We’re working with several industrial companies, including Haynes International Inc., the Solar Turbine Company and Liquid Metal Technologies Inc.”

Liaw hopes to eventually establish an advanced materials center operated jointly between ORNL and UT. He also is a strong believer in the connection between research and teaching.

“We should always combine research and teaching, they complement each another,” Liaw commented. “I relate to my students as team members and as friends. We need to provide them with opportunities to work in research, to publish their results and to find good jobs after they graduate. I like to see them as independent researchers, as future engineers and educators and as individuals who will one day put their education and research to work to benefit our society.”

And with that, he’s off to the next challenge.
The origins of the College of Engineering at The University of Tennessee date back to 1838. It is the fourth oldest engineering college in the nation.

**Enrollment Full-Time Programs**
Undergraduate 1,841
Graduate 687
Total 2,528

**Degrees Granted**
Bachelor of Science 315
Master of Science 177
Doctor of Philosophy 33
Total 525

**Faculty**
Professors 66
Associate Professors 30
Assistant Professors 29
Total 125

There are two National Academy of Engineering members; three UT-ORNL Distinguished Scientists; two University Distinguished Professors; and two Chairs of Excellence in the college: the Ivan Racheff Chair in Materials Science and Engineering and the Henry C. Goodrich Chair in Civil Engineering.

**Student/Faculty Ratio** 20:1 (undergraduate)

**Departments**
- Chemical Engineering
  - Dr. John R. Collier
  - Department Head
- Civil and Environmental Engineering
  - Dr. Gregory D. Reed
  - Department Head
- Electrical and Computer Engineering
  - Dr. Samir El-Ghazaly
  - Department Head
- Industrial and Information Engineering
  - Dr. Adedeji Badiru
  - Department Head
- Materials Science and Engineering
  - Dr. Raymond A. Buchanan
  - Department Head
- Mechanical, Aerospace and Biomedical Engineering
  - Dr. William R. Hamel
  - Interim Department Head
- Nuclear Engineering
  - H. Lee Dodds
  - Department Head

**Accreditation**
All listed undergraduate programs are accredited by the Accreditation Board for Engineering and Technology (ABET).

**Degrees Offered**
**Bachelor of Science**
- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Industrial Engineering
- Materials Science & Engineering
- Mechanical Engineering
- Nuclear Engineering

**Master of Science**
- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Engineering Science
- Environmental Engineering
- Industrial Engineering
- Materials Science & Engineering
- Mechanical Engineering
- Nuclear Engineering
- Polymer Engineering

**Doctor of Philosophy**
- Aerospace Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Engineering Science
- Industrial Engineering
- Materials Science & Engineering
- Mechanical Engineering
- Nuclear Engineering
- Polymer Engineering

Note: The Department of Biosystems Engineering and Environmental Science in the College of Agricultural Sciences and Natural Resources offers B.S., M.S., and Ph.D. degrees in Biosystems Engineering.

**Special Programs**
- Diversity Engineering Scholarship Program
- Jerry E. Stoneking Engage Engineering Fundamentals Program
- Engineering Diversity Programs
- Office of Professional Practice
- Tennessee Louis Stokes Alliance for Minority Participation
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One of these days, you might see Mike Crabtree’s (BS/EE ’73) photo listed in the dictionary as the definition of the word “entrepreneur.”

Crabtree has been actively involved in business ventures in fields ranging from medical technology to dot-com companies to new technologies for the trucking industry. And through it all, he’s been fortunate to have had one success after another.

Crabtree transferred to the University of Tennessee-Knoxville after spending his freshman year at Tennessee Tech University. He majored in electrical engineering at UT. He co-oped at the National Aeronautics and Space Association’s (NASA) Cape Kennedy facility while at Tennessee Tech and UTK.

“Those were exciting days,” Crabtree recalled. “My co-op years took place during the Saturn-Apollo missions. I took part in space exploration history and the co-op program allowed me to understand and appreciate the importance of an engineering career.”

Crabtree received his bachelor’s degree in 1973, and got a job with DuPont in North Carolina and Delaware, working with computer automation. He decided to return to graduate school the following year. Dr. Robert Bodenheimer, an electrical engineering professor, encouraged Crabtree to conduct research at EG&amp;G ORTEC’s Life Science Division, a technology company in Oak Ridge, Tenn. Crabtree met Terry Douglass, a fellow ECE graduate and Director of ORTEC’s Life Science Division, who approved Crabtree’s ORTEC graduate research. During his thesis defense, Crabtree was surprised to see Terry Douglass in the audience; soon afterward, Douglass offered Crabtree a job at ORTEC, which he accepted, to handle engineering and software development for a new positron emission tomography (PET) product—an imaging technology that provides physicians with functional and molecular information about patients, often before the onset of disease.

In 1976, Douglass and Crabtree led ORTEC’s development of the first com-
mercial PET scanner—the new ECAT scanner product. However, EG&G eventually determined the ECAT product was incongruent with the company’s core competencies and decided to sell the medical scanner division.

Subsequently, Douglass and Crabtree, together with two other UT ECE grads formerly at ORTEC, Ron Nutt and Kelly Milam, decided to purchase the scanner division and its technology. The group of four UTK ECE alumni borrowed $3 million to finance the start-up of the Computer Technology & Imaging Inc. (CTI). Crabtree, initially designated to handle sales and marketing, began representing the company in the U.S., Europe and Japan. CTI went public in June, 2002, and Crabtree and Milam resigned from its board in order to allow the public company the required outside director representation.

In 1994 Crabtree turned his interest elsewhere, joining the fledging U.S. Internet company, and grew it from a local Knoxville firm to a regional company and then to the nation’s 10th largest Internet service provider. As Chief Operating Officer, Crabtree led One Main.com to the largest internet-based IPO at the time in March 1999. The company was eventually sold to Earthlink.

“Throughout my career people kept telling me that I was making mistakes going into a totally different businesses,” Crabtree recalled. “While the risks were significant, I had confidence, honed engineering skills, enthusiasm and great partners to accomplish the objectives.”

It was that same confidence that led Crabtree to join startup IdleAire Technologies Corporation in 2000. The company provides HVAC units that truck drivers can attach to their rigs to heat and cool their cabs—without idling their truck engines—at specially equipped truck stops, enabling them to spend downtime without engine noise, diesel exhaust fumes and concentrated pollutants. The IdleAire system also provides electricity, access to the Internet, satellite TV, movies on-demand and a long-distance telephone service.

IdleAire has received over $34 million in grants from federal, state and local agencies including the U.S. Department of Transportation’s Congestion Mitigation Air Quality (CMAQ) Program and the Environmental Protection Agency (EPA) and has been lauded for bringing much-needed environmental, energy conservation and highway safety benefits to the trucking industry and general public.

The company is projecting $1.8 billion in revenues by 2009, and Crabtree estimates that IdleAire will eventually maintain over 6,000 employees. The future also holds promise for expansion into Canada and Mexico, and eventually Asia, South America and Australia.

Through all of his successes, Crabtree has not forgotten his beginnings as an engineering student at UT. He established a fellowship in honor of Dr. Robert Bodenheimer in 1990 with a combination of a cash donation and CTI stock. After CTI went public, the stock became extremely valuable and liquid, and now the Bodenheimer Fellowship provides numerous scholarships to graduate students who choose to continue their academic career at UT. Crabtree also made a generous pledge to the Department of Electrical and Computer Engineering’s Challenge Campaign, in response to the challenges made by both an anonymous alumnus and CTI co-founder Ron Nutt with the Nutt family’s $1 million pledge last April.

“The fundamentals I learned in engineering school gave me techniques to solve problems in the business world,” Crabtree said. “My appreciation for my education at UT increases as I grow older.”
The private gifts that the College of Engineering receives annually from alumni, corporations and friends are of critical importance. As a state-assisted (not state-supported) institution, the University of Tennessee receives approximately 35% of its budget from state appropriations. In light of flat state funding, private support plays an increasingly significant role in maintaining and enhancing the financial strength of the university and in particular, the College of Engineering.

Private gifts serve as catalysts for investment in the people and the programs of the college. Undergraduate student scholarships, graduate student fellowships, named professorships, endowed chairs, new equipment and technology for classrooms, upgraded facilities—all represent ways that donors can make a difference in significant ways that enhance the educational experience for promising students and strengthen the academic environment for our faculty and staff.

In this year’s annual report, the Engineering Development Office is featuring two donors—Michael C. Crabtree and Ronald Nutt—whose philanthropic commitments set the pace for the college’s development efforts in 2003-2004. These two alumni have had a long history of giving back most generously to their alma mater, and their gifts will continue to have a tremendous impact on our students and faculty for generations to follow. We hope that their example encourages others to make their own investments in our College of Engineering.
The next column contains information on the process of making a gift to the College of Engineering and several gift opportunities that donors may wish to consider.

**Categories of Giving**

**Donor Clubs and Special Initiatives**

- **Donor Clubs**—The University of Tennessee has several donor clubs and membership societies including:
  - The President’s Club: $10,000 paid as a single gift, or $1,000 paid at the rate of $1,000 per year for 10 years
  - The Tennessee Society: $25,000 paid as a single gift, or $2,500 per year for 10 years

- **Special Initiatives**—The College of Engineering is currently working on several special initiatives that will be part of the University of Tennessee’s pending capital campaign:
  - The ECE Challenge Campaign: An effort to raise $5 million for the ECE Department that will be matched, dollar for dollar, by an anonymous alumnus
  - The Fred Brown Jr. Recognition Initiative: An effort to recognize the founder of the college’s minority/diversity engineering program and to increase the endowment for scholarships given in his honor and memory

**Additional Methods of Giving**

- **Employer Matched Contributions**—a program where employee gifts to the University of Tennessee are “matched” by the employer

- **Planned gifts**—provide an individual with the opportunity to combine his or her personal charitable interests with long-range financial and estate planning utilizing options such as real estate, stocks, insurance policies, trusts and bequests

- **Online donations**—visit http://givetout.tennessee.edu to make a gift online

**Tax Considerations**

The university is certified as a qualified charitable organization and meets the requirements of the Internal Revenue Service within the code sections 501(c)(3).

No administrative costs are taken from gifts to the University of Tennessee, so that 100 cents of every dollar contributed supports the area as specified by a donor.

For more information on gift opportunities at the College of Engineering or to make a gift, contact:

Cathleen Dodge  
Director of Development  
College of Engineering  
The University of Tennessee  
120 Perkins Hall  
Knoxville, TN 37996-2012  
Phone: (865) 974-2779  
Fax: (865) 974-2015  
E-mail: engrdev@ engr.utk.edu  
Web: »www. engr. utk. edu/ coe/ new_devwel. htm
The audience at the 2004 College of Engineering Honors Banquet didn’t realize at first what was going to happen when COE alumnus Ron Nutt asked to make a special announcement.

The initial mystery soon turned into a celebration as Nutt, who received his bachelor of science, master of science and Ph.D. degrees in electrical engineering from UT, and his family made a “challenge gift” of $1 million to the University of Tennessee College of Engineering.

Nutt said that his family’s generosity rose from the desire to encourage other engineering graduates and friends of the college to join with the Nutts in giving back some of the rewards they have received through their association with UT.

Nutt is a founding partner of CTI Molecular Imaging Inc. (CTI MI), the highly successful international company that he co-founded with three other fellow UT alumni over two decades ago.

The company develops and globally markets positron emission tomography (PET) imaging equipment and services. PET scanners use the body’s metabolism to reveal abnormalities, including cancer, heart disease and Alzheimer’s.

All three of Ron and Robbie Nutt’s children, Robert Nutt, Rhonda Nutt Goble and Randall Nutt, attended UT as electrical engineering majors. Robert graduated with a B.S. in electrical engineering in 1987, and Rhonda received the same degree in 1993. The Nutt’s younger son, Randall, had just completed his freshman year at the university when he was killed in a tragic motorcycle accident. In 1998, Ron and Robbie made a $100,000 gift to establish the Randall Keith Nutt Engineering Scholarship Endowment, named in memory of their son. Since then, 18 students have been named Randall Nutt Scholars and have been awarded with more than $108,000 in scholarship funds.

Funds from the $1 million gift have been used to establish both a new scholarship and a new fellowship. The Ronald Nutt Family Engineering Scholarship will be available to junior and senior engineering students. The Ronald Nutt Fellowship in Image Formation and Processing will be available to graduate students in the Department of Electrical and Computer Engineering, (ECE) with first preference given to recipients of the Randall K. Nutt Engineering Scholarship or the Ronald Nutt Family Engineering Scholarship. The remainder of the gift will be used to increase the funding for the Randall K. Nutt Scholarship.

“Our support of the college comes down to a matter of providing opportunities,” Robert Nutt said. “Our parents have given us the chance to succeed, and it is rewarding to see our scholarships providing those same opportunities for young people to attend the University of Tennessee to receive an education.”
Listed on the following pages are those individuals, organizations, corporations and foundations whose gifts were received by the College of Engineering in fiscal year 2004 (July 1, 2003 through June 30, 2004). Please be assured that each gift, regardless of amount, is sincerely appreciated. The generosity of our alumni and friends allows the college to provide the best possible educational experience for our students.

Every effort has been made to ensure the accuracy and completeness of our list of contributors. If you have updates or comments in regard to this list, please contact the Office of Engineering Development at engrdev@engr.utk.edu.

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Mr. Robert L. Hensley (BS, IE, ’58) and Mrs. Nora H. Hensley
Mr. Joe M. Henson (BS, ME, ’58) and Mrs. Ernestine P. Henson
Mr. Robert Edward Hickey (BS, EE, ’58) and Mrs. Juanita Smith Hickey
Col. Robert E. Hite Jr. (BS, IE, ’58) and Mrs. Mary Lou Hite
Mr. Jerry A. Hunt (BS, EE, ’58) and Mrs. Mildred O’Neal Hunt
Mr. Thomas A. Innes (BS, ME, ’58) and Mrs. Grace E. Innes
Dr. George W. Johnson (BS, EE, ’58) and Mrs. Judith A. Johnson
Mr. Oliver B. Lee Jr. (BS, EE, ’58; MS, EE, ’65) and Mrs. Virginia L. Lee
Mr. Laurence M. Long (BS, ChE, ’58) and Mrs. Catherine B. Long
Mr. George R. McNutt Jr. (BS, ME, ’58) and Mrs. Lou Kinser McNutt
Mr. Roy Leon McNatt Jr. (BS, EE, ’58) and Mrs. Jo Ann Burchett
Mr. Jerry A. Peoples (BS, ME, ’58) and Mrs. Patsy L. Peoples
Mr. Edwin Adgate Reed Jr. (BS, EE, ’58)
Mr. Charles Haddon Salstrand (BS, IE, ’58) and Mrs. Nancy Diane Salstrand
Mr. Eugene J. Sanders (BS, ME, ’58) and Mrs. Anna J. Sanders
Mr. Thomas I. Shelton (BS, ChE, ’58) and Mrs. Kathryn A. Shelton
Mr. Theodore F. Smith (BS, IE, ’58)
Dr. William Clarence Stone (BS, ME, ’58) and Mrs. Anne G. Stone
Mr. Richard R. Tylor (BS, CE, ’58) and Mrs. Dola S. Tylor
Dr. Jack Watson (BS, ChE, ’58; MS, ChE, ’62; PhD, ChE, ’67) and Mrs. Patricia Watson
Mr. J. Roy Weathersby (BS, CE, ’58) and Mrs. Lydia H. Weathersby
Mr. Thomas R. Wilkie Jr. (BS, IE, ’58) and Mrs. Genevieve S. Wilkie
Mr. Rodney D. Wood (BS, ME, ’58) and Mrs. Margaret Mary Wood

1960

Mr. William C. Beasley Jr. (BS, ChE, ’59) and Mrs. Virginia Middleton Beasley
Mr. Clyde Hermon Bell (BS, ChE, ’59) and Mrs. Kazue Momoda Bell
Mr. Samuel E. Bettis (BS, ME, ’59) and Mrs. Patsy L. Bettis
Mr. Leonard W. Bynum Jr. (BS, EE, ’59) and Mrs. Stacia M. Bynum
Mr. James M. Corum (BS, ME, ’59; MS, ME, ’62) and Mrs. Joyce Stringfield
Mr. Billy Floyd Dewitt (BS, EE, ’59) and Mrs. Karen Dewitt
Dr. Ronald G. Domer (BS, ME, ’59; MS, EMS, ’65; PhD, EMS, ’73) and Mrs. Beverly Valliant Domer
Mrs. Margaret D. Drake (MS, ME, ’59)
Mr. Robert B. Halt (Cert., CE Tech, ’59; BS, CE, ’61) and Patricia Ann Holt
Dr. William S. Johnson (Cert., EE Tech, ’59; BS, ME, ’61) and Mrs. Jacquelyn S. Johnson
Mr. Richard N. Layman (BS, ChE, ’59) and Mrs. Faye Layman
Mr. W. Lester Ledford (BS, EE, ’59) and Mrs. Sue Ledford
Mr. Bill J. Moore (BS, EE, ’59; MS, EE, ’60) and Dr. Sylvia F. Moore
Mr. Oscar Moser Jr. (BS, ChE, ’59) and Mrs. Rebekah Jean Moser
Mr. John M. Neill (Cert., EE Tech, ’59; BS, CE, ’61)
Mr. Robert G. Pistoile (Engr., ’59)
Mr. Bob N. Robards (BS, ME, ’59; MS, IE, ’63) and Mrs. Carolyn A. Robards
Mr. F. Donald Rohrbough (BS, CE, ’59) and Mrs. Betty H. Rohrbough
Mr. Harold B. Runyan (BS, EE, ’59)
Mr. Elbert E. Sanders Jr. (BS, ME, ’59)
Mr. William P. Seneker Jr. (BS, EE, ’59) and Mrs. Peggy Seneker
Dr. Edward Von Halle (PhD, ChE, ’59) and Mrs. Elizabeth Von Halle
Mr. H. H. Williams Jr. (Cert., EE Tech, ’59; BS, ME, ’62; MS, Engr., ’78) and Mrs. Trudy Harwell
Mr. Charles Frederick Wyatt (BS, CE, ’59) and Mrs. Rosalyne H. Wyatt
Mr. Lynn A. York (BS, ME, ’59) and Mrs. Susan L. York

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Mr. William M. Bivens (Cert., EE Tech, ’60; BS, ME, ’62) and Mrs. Zora E. Bivens
Dr. Louis P. Bosanquet (MS, ChE, ’60; PhD, ChE, ’63) and Mrs. Janine Bosanquet
Dr. Ralph McFarland Burns (BS, EE, ’60) and Mrs. Ann Lord
Dr. Franklin T. Dodge (BS, ME, ’60)
Dr. David W. Goodpasture (BS, CE, ’60) and Mrs. Marion W. Goodpasture
Mr. William J. Haggerty Jr. (BS, ME, ’60) and Mrs. Elizabeth M. Haggerty
Mr. Sidney Neil Hayes (BS, ChE, ’60) and Mrs. Julia W. Hayes
Mr. Norris C. Hendrix Jr. (BS, ME, ’60) and Mrs. Margaret A. Hendrix
Dr. Michael S. Holtcamp (BS, EE, ’60) and Mrs. Veali A. Holtcamp
Mr. James W. Hutson (BS, IE, ’60; MS, IE, ’65) and Mrs. Anna S. Hutson
Mr. Hugh Aaron Johnson (BS, IE, ’60) and Mrs. Sophia A. Johnson
Mr. James J. Keller (BS, ChE, ’60) and Mrs. Jacqueline S. Keller
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Mr. John C. Porter (BS, ChE, ’60) and Mrs. Ruth Robbins Porter
Mr. Marlin G. Ritchie (BS, MetE, ’60) and Mrs. Wilma F. Ritchie
Mr. Barry K. Romoser (BS, ME, ’60) and Mrs. Winefred M. Romoser
Mr. Edward J. Rutter Jr. (BS, EE, ’60)
Mrs. Landra W. Spieth (BS, ChE, ’60) and Mr. Emil E. Spieth
Dr. Joe Earl Spruill (BS, ChE, ’60; MS, MetE, ’60; PhD, MetE, ’63) and Mrs. Rhonda P. Spruill
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Mr. Donald Eugene Taylor (BS, EE, ’60) and Mrs. Beulah Elaine Smith
Mr. Howard E. Watson (BS, ChE, ’60) and Mrs. Beulah Elaine Smith
Mr. David Otis Welch (BS, MetE, ’60) and Mrs. Sharon Doyle Welch
Mr. James T. Whisman (BS, EE, ’60) and Mrs. Nan Gattis Whisman
Mr. Robert Lent Williams (BS, EE, ’60) and Mrs. Barbara C. Williams

1961

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Dr. Robert I. Gray (PhD, ChE, ’61) and Mrs. Elise N. Gray
Mr. Jimmy Hix (BS, ME, ’61) and Mrs. Edith Cage Hix
Mr. William H. Hooper (BS, EE, ’61) and Mrs. Gretel E. Hooper
Dr. Daniel F. Jennings (BS, EE, ’61) and Mrs. Kay Cothran
Mr. David Lawrence Kuhlman (BS, CE, ’61)
Mr. O. Raymond Lowry, M.D. (BS, NE, ’61) and Mrs. Suzanne Mallcicote Lowry
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Mr. Gary Ralph Owens (BS, EE, ’61) and Mrs. Barbara Owens
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Mr. William Noel Riley Jr. (BS, EE, ’61) and Mrs. Ruth E. Riley
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1962

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Dr. Donald B. Bivens (BS, ChE, ’62) and Mrs. Mary L. Seay
Dr. Raymond Leslie Boles Jr. (BS, ChE, ’62; MS, ChE, ’65; PhD, ChE, ’67) and Mrs. Carolyn M. Boles
Mr. Alan Fugate Broadwater (BS, IE, ’62) and Mrs. Bettye J. Broadwater
Prof. Chi Hau Chen (MS, EE, ’62) and Mrs. Wanda Wanchun Chen
Mr. James M. Cogdill (BS, IE, ’62) and Mrs. Betty M. Cogdill
Mr. Gary Norman Hensley (BS, EE, ’62) and Mrs. Betty B. Hensley
Mr. James W. Hooker (BS, EE, ’62) and Mrs. Betty B. Hensley
Mr. R. Edgar Housey (BS, IE, ’62) and Mrs. Sherri W. Housey
Mr. Charles V. Lawson (BS, EE, ’62) and Mrs. Geraldine S. Lawson
Mr. James F. Marlow (BS, ChE, ’62) and Mrs. Lynn Marlow
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Mr. Bobby J. Mills (BS, CE, ’62) and Mrs. Lois F. Mills
Dr. Bobby M. Phillips (BS, ChE, ’62; MS, ChE, ’63; PhD, ChE, ’68) and Mrs. Brenda Phillips
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Mr. Ralph E. Rieben (BS, ME, ’62) and Mrs. Bonnie S. Rieben
Dr. Charles D. Scott (MS, ChE, ’62; PhD, ChE, ’66) and Mrs. Alice B. Scott
Mr. Herbert M. Scull Jr. (MS, ChE, ’62) and Mrs. Roberta L. Scull
Mr. Gray L. Settle (BS, EE, ’62)
Dr. John Woods Stewart II (Cert., EE Tech, ’62; BS, NE, ’65; MS, NE, ’67; PhD, NE, ’69)
Mr. Dempsey W. White (BS, ME, ’62) and Mrs. Katherine White

1963

Dr. Russell E. Aven (PhD, ChE, ’63) and Mrs. Delma B. Aven
Ms. Paula Richardson Ball (BS, CE, ’63)
Mr. Edward Lee Beeler (BS, ChE, ’63) and Mrs. Anne O. Beeler
Mr. William B. Blackmon Jr., P.E. (BS, CE, ’63; MS, CE, ’66) and Mrs. Mary E. Blackmon
Mr. Robert T. Butts (BS, EE, ’63) and Mrs. Terry Ann Hembree
Mrs. Nancy A. Cole (BS, MetE, ’63) and Mr. Leon R. Cole
Mr. George G. Conner Jr. (BS, CE, ’63)
Dr. Richard L. Cox (BS, ChE, ’63; MS, ChE, ’65; PhD, ChE, ’76) and Mrs. Kathleen J. Cox
Mr. Gregory R. Davis (BS, MetE, ’63)
Mr. James K. Harkerloaf (BS, ChE, ’63)
Mr. Lawrence B. Haskin (BS, Engr., ’63)
Mr. James E. Hiegel (BS, ME, ’63) and Mrs. Beverly M. Hiegel
Mr. Ransom H. Martin Jr. (BS, ChE, ’63) and Mrs. Sue Martin
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Mr. Joseph P. McCormick Jr. (BS, CE, ’63) and Mrs. Patricia A. McCormick
Mr. John Jacob Murphy Jr. (BS, ME, ’63) and Mrs. Betty Buchanan Murphy
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Mr. H. Edwin Pierce Jr. (BS, EE, ’63) and Mrs. Carolyn Hayes Pierce
Dr. Danny L. Reed (BS, CE, ’63; MS, ES, ’65; PhD, ES, ’70) and Mrs. Judy B. Reed
Mr. Jim Smithey (BS, CE, ’63) and Mrs. Margaret Smithey
Mr. David Turner Taylor (BS, EE, ’63) and Mrs. Lois Ann Taylor
Dr. Harvey J. Wilkerson (BS, CE, ’63; PhD, AE, ’70) and Mrs. Mary Christofferson Wilkerson
Mr. Kenneth O. Wilmot (BS, ChE, ’63; MS, ChE, ’65) and Mrs. Helen M. Wilmot

1964

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Mr. William W. Boyd (BS, EE, ’64) and Mrs. Mary Boyd
Mr. Theo Clair Caldwell III (BS, CE, ’64) and Mrs. Martha A. Caldwell
Mr. Howard M. Chambers (BS, ME, ’64) and Mrs. Debra L. Chambers
Mr. Richard A. Clark (BS, ChE, ’64) and Mrs. Doris R. Clark
Mr. Larry Dean Davis (BS, EPh, ’64) and Mrs. Sally Parker Davis
Mr. Richard C. Durfee (BS, EPh, ’64) and Mrs. Delia R. Durfee
Mr. Harold L. Edwards (BS, ME, ’64) and Mrs. Mary Ann Edwards
Mr. Ted Newton Gentry (Cert., ME Tech, ’64; BS, ME, ’66) and Mrs. Linda Kaye Rice
Mr. Ronald D. Guthrie (BS, ChE, ’64; MS, CE, ’73)
Mr. Philip R. Harding Jr. (BS, ChE, ’64; MS, Eng Ad, ’76) and Mrs. Noragene B. Harding
Mr. Harold Dale Hudson (BS, ChE, ’64; MS, ChE, ’66) and Mrs. Miriam Hudson
Mr. Sibley Ronald Irwin (BS, ME, ’64; MS, ME, ’69) and Mrs. Rosiland L. Irwin
Mr. Richard C. Kessinger (BS, CE, ’64) and Mrs. Phyllis Kessinger
Mr. William L. Kilpatrick (BS, EE, ’64) and Mrs. Terri Lynne Kilpatrick
Mr. P. Wayne Lauderback (BS, ME, ’64) and Mrs. M. Gaye Lauderback
Mr. Arnold P. Litman (MS, MetE, ’64)
Mr. Lewis McGregor Little (BS, ME, ’64)
Mr. Bobby T. Logue (BS, ChE, ’64; MS, ChE, ’71) and Mrs. Carole Logue
Mr. Thomas W. Martin (BS, ChE, ’64) and Mrs. Kathryn Russell Martin
Dr. Kent R. McCune (BS, EE, ’64; MS, EE, ’66; PhD, EE, ’69) and Mrs. Lucy McCune
Mr. Eric Donald Myracle (Cert., EE Tech, ’64; BS, ME, ’67) and Mrs. Sarah L. Myracle
Mr. Lester K. Price (BS, NE, ’66) and Mrs. Sara S. Price
Mr. Bobby F. Sammons (BS, ME, ’64) and Mrs. Lynda R. Sammons
Dr. Charles Edward Sessions (MS, MetE, ’64; PhD, MetE, ’70) and Mrs. Nancy W. Sessions
Mr. Larry G. Smith (BS, EE, ’64) and Mrs. M. Arlene Smith
Mr. John J. Talone Jr. (BS, IE, ’64) and Mrs. Cindy Talone
Mr. Evert W. Wilkerson (BS, ME, ’64) and Mrs. Nancy Campbell

1965
Mr. Thomas L. Adkins (BS, IE, ’65) and Mrs. Marilyn S. Adkins
Mr. Douglas Oren Bagwell (MS, ME, ’65)
Mr. H. Dennis Bradford (BS, CE, ’65) and Mrs. Nancy S. Bradford
Mr. Joe G. Buckner (BS, CE, ’65) and Mrs. Patricia Payne Buckner
Mr. Joel W. Clifton (BS, CE, ’65)
Mr. Fred L. Collier Jr. (BS, ChE, ’65) and Mrs. Jacqueline G. Woods
Mr. Al Connelly (BS, EE, ’65; MS, EE, ’65; PhD, EE, ’68) and Mrs. Mary N. Connelly
Mr. Joseph C. Cook Jr. (BS, IE, ’65) and Mrs. Judith E. Cook
Mr. William R. Cory (BS, IE, ’65) and Mrs. Barbara Cory
Mr. Harry G. Daves (BS, ME, ’65) and Mrs. Shirley P. Daves
Mr. Wilbur L. Goodwin (BS, NE, ’65) and Mrs. Jane B. Goodwin

1966
Mr. Robert O. Banker (BS, EE, ’66; MS, EE, ’69) and Dr. Teresa G. Banker
Mr. Curtis S. Bennett III (Cert., EE Tech, ’66; BS, CE, ’69) and Mrs. Jane H. Bennett
Dr. Frank S. Brugner (MS, ME, ’66) and Mrs. Judith B. Brugner
Dr. Melvin Ray Buckner (BS, NE, ’66; MS, NE, ’67; PhD, NE, ’70) and Mrs. Wendy Buckner
Mr. Alfred A. Burzese (MS, EE, ’66) and Mrs. Phyllis Burzese
Mr. Thomas V. Byerley (BS, EE, ’66) and Mrs. Georgann S. Byerley
Mr. Jerry Cantrell (BS, CE, ’66) and Mrs. Kaye E. Cantrell
Mr. Edward Thomas Davidson Jr. (BS, EE, ’66) and Mrs. Sandra O. Davidson
Mr. Gar-Lai Kam (BS, EE, ’66) and Mrs. Claudine K. Kam
Dr. George J. Kidd Jr. (PhD, ES, ’66) and Mrs. Judith T. Kidd
Mr. Clarence E. Lee, P.E. (BS, CE, ’66) and Mrs. Brenda Clark Lee
Mr. William E. Loose (BS, CE, ’66) and Mrs. Nancy L. Loose
Mr. Robert Davis Maroney (BS, CE, ’66) and Mrs. Ann A. Maroney
Mr. John W. Mashburn (BS, EPh, ’66) and Mrs. Lillian T. Mashburn
Mr. David R. McClellan Jr. (BS, EE, ’66; MS, EE, ’75) and Mrs. Marlene Rainwater McClellan
Mr. Mukul M. Mehta (BS, CE, ’66; MS, ChE, ’68) and Mrs. Kiran M. Mehta
Mr. Walter Brevard Merrill (BS, ME, ’66; MS, ME, ’67) and Mrs. Sue Merrill
Mr. Robert S. Moon II (BS, EE, ’66; MS, AE, ’68) and Mrs. Melissa L. Moon
Mr. Robert M. Moore Jr. (BS, IE, ’66) and Mrs. Patricia A. Moore
Mr. William D. Morrow (BS, ME, ’66) and Mrs. Myrna L Reynolds
Mr. Edward E. Oliver (BS, ChE, ’66)
Mr. Glenn Wayne Patterson (BS, EE, ’66) and Mrs. Mary E. Sneed Patterson
Dr. W. Wilson Pitt Jr. (BS, ME, ’66; PhD, ChE, ’69) and Mrs. Ann M. Pitt
Dr. Curtis A. Siller Jr. (BS, EE, ’66; MS, EE, ’67; PhD, EE, ’69) and Mrs. Patsy S. Siller
Mr. Larry A. Stafford (BS, ChE, ’66) and Mrs. Charlotte Brown
Mr. F. Richard Swearengen (BS, EPh, ’66)
Mr. John Corbin Van Hooser Jr. (BS, EE, ’66) and Mrs. Teresa S. Van Hooser

1967
Dr. Robert C. Dorsey (MS, IE, ’67) and Mrs. Lou Gilliam Dorsey
Mr. J. Scott Farrin (BS, CE, ’67) and Mrs. Ann A. Farrin
Mr. James D. Froula, P.E. (BS, ME, ’67) and Mrs. Barbara J. Froula
Mr. Thomas Barton Holmes (BS, EPh, ’67) and Mrs. Diana Holmes
Mr. Robert A. Hummel (BS, ME, ’67) and Mrs. Delores G. Hummel
Mr. Roy C. Le Croy (MS, AE, ’67) and Mrs. Betty S. Le Croy
Dr. Richard A. Lillie (BS, NE, ’67; MS, NE, ’72; PhD, NE, ’75)
Mr. James Woodrow Mitchell Jr. (BS, ChE, ’67) and Mrs. Nancy G. Hashberger Mitchell

1968
Mr. Richard K. Bible (BS, ME, ’68) and Mrs. Melva W. Bible
Mr. T. Steve Brooks (BS, CE, ’68) and Mrs. Sue Brooks
Mr. Samuel B. Chism Jr. (MS, EE, ’68) and Mrs. Caroline P. Chism
Mr. James A. Cumby (BS, EE, ’68)
Mr. Joel R. Dicks (BS, ChE, ’68) and Mrs. Ruth Dicks
Mr. Terry James Farr (BS, IE, ’68) and Mrs. Judy K. Farr
Mr. Thomas R. Griffith (BS, IE, ’68) and Mrs. Nelda F. Griffith
Mr. Francis Michael Hartmann (BS, EE, ’68) and Mrs. Brenda S. Hartmann
Dr. H. McD. Hobgood (BS, EPh, ’68) and Mrs. Bonnie P. Hobgood
Mr. Robert F. Huffine (BS, IE, ’68) and Mrs. Peggy Farley Huffine
Mr. Wilbur R. Hutselel (BS, IE, ’68; MS, IE, ’78) and Mrs. Linda K. Hutselel
Mr. John K. Jones (MS, ES, ’68; PhD, ME, ’73) and Mrs. Jo R. Jones
Dr. John V. Kitowski (PhD, AE, ’68) and Mrs. Ottilie M. Kitowski
Mr. James R. Long (BS, EE, ’68)
Mr. Bobby D. Palmer (Cert., EE Tech, ’68; BS, EE, ’70) and Mrs. Margaret J. Palmer
Mr. William J. Potter (BS, IE, ’68) and Mrs. Frances C. Potter
Dr. Peter M. Wolf (PhD, AE, ’68)

1969
Mr. Ralph E. Ballock Jr. (BS, IE, ’69; MS, IE, ’79) and Mrs. Peggy B. Ballock
Mr. David A. Bamford (BS, EE, ’69) and Mrs. Florida W. Bamford
Mr. Terry K. Begley (BS, ChE, ’69) and Mrs. Connie B. Begley
Mr. William R. Brock (BS, NE, ’69; MS, ES, ’77) and Mrs. Leslie A. Brock
Mr. William Douglas Campbell (BS, ChE, ’69) and Mrs. Judith Campbell
Dr. Robert Estel Ford (BS, EPh, ’69; MS, IE, ’82; PhD, ES, ’95)
Mr. Billy R. Fox (BS, IE, ’69) and Mrs. Betty A. Fox
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Mr. Albert Foster Johnson Jr. (BS, EE, ‘69) and Mrs. Dixie D. Johnson
Dr. James Edward Kalshoven Jr. (BS, EE, ‘69; PhD, EE, ‘74)
Mr. Gordon James McClellan (BS, CE, ‘69)
Mr. Edwin A. McDougle (BS, CE, ‘69; MS, CE, ‘75) and Mrs. Carla McDougle
Mr. Warren Everett Medley (BS, ChE, ‘69)
Mr. Joseph M. Polk Jr. (BS, CE, ‘69) and Mrs. Delores Polk
Mr. Michael G. Purnell (BS, ME, ‘69)
Mr. John Edward Shaulis (BS, ME, ‘69)
Mr. David B. Sims Jr. (BS, ChE, ‘69) and Mrs. Caroline Sims
Mr. James C. Talley III (BS, EE, ‘69) and Mrs. Rosemary B. Talley
Mr. David C. Wohlscheid (BS, CE, ‘69) and Mrs. Donna J. Wohlscheid

1970

Mr. Perry E. Abbott (BS, ME, ‘70)
Mr. John C. Baker (MS, IE, ‘70) and Mrs. Karen Baker
Mr. Roy David Bayne (BS, ES, ‘70)
Mr. Thomas R. Blose Jr. (BS, CE, ‘70) and Mrs. Rosemary D. Blose
Mr. John F. Cole (BS, EE, ‘70) and Mrs. Teresa Parker Cole
Mr. John F. Cox (BS, ME, ‘70) and Mrs. Marty Cox
Dr. Robert Pratt Davis (BS, IE, ‘70; MS, IE, ‘71) and Mrs. Shirley S. Davis
Mr. D. P. Dodd (BS, EE, ‘70; MS, EE, ‘72) and Mrs. Judith Norton Dodd
Mr. Raymond E. Dubose (BS, ME, ‘70) and Mrs. Carolyn S. Dubose
Mr. Steven S. Gershberg (BS, EE, ‘70) and Mrs. Gay J. Gershberg
Mr. Ronald F. Green (BS, EPh, ‘70; MS, EPh, ‘78) and Mrs. Sally Eckelman Green
Mr. Jerry L. Hardiman (BS, ME, ‘70) and Mrs. Faye W. Hardiman
Dr. Nathaniel T. Hightower (BS, NE, ‘70) and Mrs. Sandra C. Hightower
Mr. Gerald W. Horton (BS, ChE, ‘70; BS, CE, ‘73)
Mr. Larry D. Johnson (BS, EE, ‘70) and Mrs. Rita B. Johnson
Mr. Larry C. Jones (BS, EE, ‘70) and Mrs. Linda K. Jones
Mr. Stephen N. Larkin (BS, CE, ‘70) and Mrs. Kathie M. Larkin
Mr. James H. McSpadden III (BS, ChE, ‘70; MS, ChE, ‘78) and Mrs. Donna G. McSpadden
Mr. James Medlin (BS, ChE, ‘70) and Mrs. Jo A. Medlin
Mr. William P. Murray (MS, ChE, ‘70) and Mrs. Patricia C. Murray

Mr. William List Myers (BS, EE, ‘70) and Mrs. Bobbie Joyce Myers
Mr. Jagdish C. Patel (MS, CE, ‘70) and Mrs. Sumitra J. Patel
Mr. John M. Simpson (BS, CE, ‘70) and Mrs. Barbara Sue Simpson
Mr. Edward G. St. Clair (BS, ME, ‘70) and Mrs. Darlene C. St. Clair
Mr. Robert G. Stacy (BS, ChE, ‘70; MS, ChE, ‘74) and Mrs. Patsy J. Troutman Stacy
Mr. James W. Willis (BS, EE, ‘70)
Mr. Joseph C. Wilson (BS, IE, ‘70) and Mrs. Ginger Wilson
Mr. Isaac W. Wright Jr. (BS, EE, ‘70) and Mrs. Giovanni Wright

1971

Ms. Linda R. Bell (BS, ChE, ‘71; MS, ChE, ‘72) and Mr. T. Martin Warren
Mr. Michael T. Calfee (BS, ChE, ‘71) and Mrs. Rose H. Calfee
Mr. John P. Casillo (BS, AE, ‘71) and Mrs. Nancy Casillo
Mr. Donald W. Denton (BS, AE, ‘71) and Mrs. Susie Denton
Mr. James G. Gibson (BS, IE, ‘71) and Mrs. Jill R. Gibson
Col. Henry W. Hartsfield Jr. (MS, ES, ‘71) and Mrs. Frances M. Hartsfield
Mr. Roy L. Heifner Jr. (MS, EE, ‘71) and Mrs. Patricia Ann Heifner
Dr. David J. Icove (BS, EE, ‘71; MS, EE, ‘74; PhD, ES, ‘79) and Mrs. Sharon A. Kelly
Mr. Janis Kukains (MS, AE, ‘71) and Mrs. Aija M. Kukains
Mr. Warren H. Latham (BS, ChE, ‘71) and Mrs. Cynthia R. Latham
Mr. Robert E. Mashburn II (BS, EE, ‘71) and Mrs. Jean C. Mashburn
Mr. Paul Allen Reynolds (BS, CE, ‘71) and Mrs. Norma C. Reynolds
Mr. David M. Robbins (BS, ME, ‘71) and Mrs. Ann Louise Dutton Robbins
Mr. Joseph Frank Roman (BS, ChE, ‘71; MS, ChE, ‘74) and Mrs. Marie Roman
Mr. Ronald Wayne Rucker (BS, CE, ‘71) and Mrs. Cheryl A. Rucker
Mr. Frederick L. Stiles (BS, EE, ‘71)
Mr. Robert H. Tuck (BS, CE, ‘71)
Mr. Marlon G. Waters III (BS, CE, ‘71)

1972

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Mr. Roy K. Barnes (BS, EE, ‘72) and Mrs. Lois J. Barnes
Mr. Nicky Lane Blount (BS, EE, ‘72) and Mrs. Dee A. Blount
Mr. Robert M. Bovine (Cert., EE Tech, ‘72; BS, CE, ‘74) and Mrs. Barbara Crutcher Bovine
Mr. Michael S. Bronstein, M.D. (BS, ChE, ‘72) and Mrs. Helen G. Morrow, M.D.
Mr. John R. Burris (BS, CE, ‘72; MS, EnvE, ‘73) and Mrs. Robbin Burris
Mr. Michael R. Corn (BS, NE, ‘72)
Mr. Dennis A. Denihan (BS, ChE, ‘72) and Mrs. Constance S. Denihan
Mr. Thomas R. Edwards (BS, ME, ‘72) and Mrs. Elaine S. Edwards
Mr. David Paul Fichtner (BS, ME, ‘72)
Mr. James S. Gillespie, P.E. (BS, EE, ‘72) and Mrs. Beth L. Gillespie
Ms. Juancie Gillespie (BS, EE, ‘72)
Mr. Gary M. Given, P.E. (BS, CE, ‘72; MS, CE, ‘78)
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Mr. Brandon W. Witt (BS, CHE, ‘01) and Mrs. Susan Lanier Witt

2002
Mr. Noah G. McMillan (BS, CHE, ‘02)
Ms. Bridget Renee Nero (BS, CE, ‘02)
Mr. Ulyess C. Underwood III (BS, ME, ‘02) and Mrs. Norma J. Underwood

2003
Ms. Tammy L. Chang (BS, CHE, ‘03; BS, EE, ‘03)
Mr. Dipal B. Patel (BS, EE, ‘03)
Ms. Elizabeth Annah Peeler (BS, CHE, ‘03)
Mr. David M. Wantland (BS, EE, ‘03)

2004
Mr. Don Wayne Bible II (BS, IIE, ‘04)
Mr. James H. Cheatham (BS, CE, ‘04)
Mr. Jonathan P. Conley (BS, IIE, ‘04)
Ms. Amanda Mary Rozek Dye (BS, ME, ‘04)
Mr. Karel Gerhar Estherhuizen (BS, CE, ‘04)
Mr. John Allen Garrison (BS, CHE, ‘04)
Mr. Ryan C. Giar (BS, NE, ‘04) and Mrs. Ashley Giar
Mr. James Howard Hinderer (BS, ME, ‘04)
Mr. John Dudley Humphrey (BS, EE, ‘04)
Mr. Louis Charles Kuykendall (BS, IIE, ‘04)
Mr. Brendan Powell MacDonald (BS, EE, ‘04)
Mr. Raymond E. McDonnell (BS, ME, ‘04)
Mr. Benjamin Jason Mills (BS, ME, ‘04)
Mr. Sampath S. Panini (BS, EE, ‘04)
Mr. Randy Wayne Plummer (BS, CE, ‘04)
Mr. Jonathan Andrew Rawlston (BS, CHE, ‘04)
Mr. Michael C. Romer (BS, EE, ‘04)
Mr. Joshua L. Taylor (BS, EE, ‘04)
Ms. Kathleen E. Walsh (BS, ME, ‘04)

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Mr. David K. and Mrs. Rebecca A. Berry
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Dr. Donald W. and Mrs. Karen A. Bouldin
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Ms. Myra Corbitt
Mrs. Carolyn Cowan
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Mr. Warren and Mrs. Sheila Danzer
Dr. Kwetha A. Davidson
Mr. Dana L. and Mrs. Sherilyn M. Dawson
Mr. Harry D. and Mrs. Linda Denardo
Mr. Richard and Mrs. Nancy Dettmering
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FY 2004 Total Budget—$49.5 Million

FY 2004 Research Expenditures (Gifts, Grants and Contracts) by Department/Center—$26.1 Million

FY 2004 State Funding Expenditures—$23.4 Million
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The information in the annual report reflects the time period from July 1, 2003 through June 30, 2004.
VISION statement

The College of Engineering is resolved to become one of the country’s top 40 public engineering educational institutions. To bring this vision to reality, our college is committed to these five charges:

1. Attaining national and international recognition among peer institutions for excellence in both research and teaching.

2. Assembling a dynamic body of faculty who exemplify excellence and innovation in the pursuit and delivery of knowledge and will perpetuate the highest standards of engineering education for future generations.

3. Graduating students who are well educated in technical knowledge, with solid communication and teamwork skills, who can compete successfully in the global business world and contribute significantly to the national base of engineering education and technology.

4. Investing strategically in the college’s most important resources—students, faculty and programs—through the vigorous acquisition of private gifts from individuals, corporations and foundations.

5. Partnering with academic, industrial and government entities that share and enhance the mission of the College of Engineering, so that our educational and collaborative efforts result in the maximum, positive, economic impact locally, regionally, nationally and globally.