College of Engineering Moves Forward with New Building Projects

Progress on the college’s building construction and renovation projects is going well with most on schedule, according to Dr. Bill Dunne, COE dean for research and technology.

The Min H. Kao Electrical Engineering and Computer Science Building, on the corner of Estabrook Drive and Cumberland Avenue, is expected to be substantially finished in August 2011. The contractors will conclude final work in September of that year and then officially hand the building over to the university and the College of Engineering.

“The exterior is nearly completed on the west and north sides,” Dunne said. “Work on the interior of the building is ongoing. In some areas, including the classroom annex, the inside projects have made substantial progress, but in others we are on schedule but at the stage of precursor mechanical and electrical work.”

Dunne expects the exterior work on the north and west side of the building will be completed close to the beginning of the fall semester so that Middle Way Drive can be reopened for traffic.

The college’s other new facility, the John Tickle Building, is on track for construction to begin in December of this year. The entire building design was submitted to the State Fire Marshal for review Aug. 30, so construction plans are being finalized. “We’re hoping that the building will be completed in Aug. of 2012,” Dunne commented. “I know that sounds like a short period of time, but we’ve been assured that it can happen.”

As for the Joint Institute for Advanced Materials (JIAM) facility on the university’s new Cherokee Campus, site preparation is in progress and Dunne anticipates that construction will begin in late 2010 or very early 2011.

“The JIAM building is a more complicated project,” Dunne said. “The mechanical and construction documents are going forward, and this project is likely going to be completed in late 2012 as well.”
is the fact that our 23,400 alumni are located in all 50 states and 140 countries. We are pleased that 50 percent have stayed within the state, providing a stable workforce for the state’s economic and technological development, but we are also proud that our graduates are making an impact across the globe. If you have ideas about how to enhance our student international experience, please let us know at coe.utk.edu.

The college’s strategic plan to grow to meet both the interest of new students at the undergraduate and graduate levels as well as to meet the need for engineers in the workforce does not come without its challenges. While the college’s enrollment has grown by 19 percent and 37 percent, respectively, at the undergraduate and doctoral levels over the last six years, the number of faculty has remained relatively constant until last year. Through the success of programs such as the UT/ORNL Governor’s Chair program and other opportunities, we have been able to increase the faculty size by about 10 percent over the last year and half, and we are implementing plans to continue this growth over the next several years. We are grateful to the state, the Board of Trustees, our Board of Advisors, the university and our alumni and friends who have helped us achieve our goals. We are grateful to the many programs presented by a growing student body. We are confident that we will be able to continue to provide a quality educational experience to the future engineers who are needed to improve the world in which we live.

W. T. Dewe

Dean’s Desk continued from page 1

Computer Science will move from locations in Ferris and Claston Halls to the new Min H. Kao Building. The Department of Computer Science will move to the former EECS offices on the fourth floor of Ferris plus the lower three floors of the building, while the Jerry E. Stoneking Engage Freshman Engineering Program, the Advising Office and the Engineering Diversity Program office will be relocated to the fourth and fifth floors in Ferris.

Once the Tickel building is completed, the Department of Civil and Environmental Engineering will move into the new facility from locations in Perkins, Estabrook and Berry Halls, freeing up considerable space in Perkins. The Department of Industrial and Information Engineering will also relocate to the Tickle Engineering Building from East Hall. Dunne also plans to move two of the college’s research centers, the Center for Materials Processing and the Reliability and Maintainability Center, to Perkins Hall.

The situation with Estabrook is more problematic, Dunne added. Although the building is the second oldest on campus, it was built without a single foundation and is in fact several structures linked together.

“We hope we can get Estabrook to the university once we have relocated all of our personnel in offices and labs that are currently housed in that building,” Dunne said. “At that point, UT administrators would make a decision on what to do with the building. Estabrook’s proximity to the football stadium is one issue as well as difficulties meeting fire code regulations in such an old and complex building.”

In addition to freeing up space in Ferris and Perkins Halls, 8,100 square feet in the Science and Engineering Research Facility will also become available when the Min H. Kao Building is completed.

Once the new buildings are completed and the former materials science space is open in Dougherty, the biomedical engineering facility will move back from Perkins Hall to be closer to the Department of Mechanical, Aerospace and Biomedical Engineering Department (MAE) main offices on the fourth floor of that building. Direct renovations related to the damage from a fire that broke out in Dougherty a few years were completed in April 2010. The second phase of the renovation to upgrade life safety systems is currently in progress.

Dougherty may also be the recipient of a $1.8 million grant that will fund the construction of state-of-the-art research labs in the facility. COE nuclear engineering professor Dr. W. H. Yoon led efforts to put the grant together, with assistance from Dr. Rusmin Khosoun, professor and head of the College of Chemical and Biomolecular Engineering (CBE), and Dr. Bill Hamel, professor and head of the MAE department. Dunne said that in order to receive the grant, which is expected to be announced in October 2010.

Another space that will eventually be available to the college is Senter Hall, formerly the White Aircraft Biology Annex. The building is undergoing an internal renovation from a teaching science laboratory to a research wet lab facility. Current plans are to complete the renovation in early 2011, and to put a lab and small office space similar to that available in SERF. The building is shared between the COE and the College of Arts and Sciences; however, tenants can only stay in Senter for up to two years, so that it acts as surge space for the college, and it was planned to be located in other permanent facilities.

“The next few years will bring us a lot of opportunity to expand and to enhance both our teaching and research missions with these new spaces,” Dunne said. “We’ve just got to stay focused and organized to get everything completed.”

Current plans are for several COE researchers and faculty members to have space in the JAM building.

The college will do a series of checkboard moves with a number of departments as the new structures are completed and ready for occupancy. The Department of Electrical Engineering and the Department of Materials Science and Engineering will move into the new facility from locations in Perkins, Estabrook and Berry Halls, freeing up considerable space in Perkins. The Department of Industrial and Information Engineering will also relocate to the Tickle Engineering Building from East Hall. Dunne also plans to move two of the college’s research centers, the Center for Materials Processing and the Reliability and Maintainability Center, to Perkins Hall.

Dr. William Weber, an authority in the interaction between radiation and materials, has been named the eighth University of Tennessee-Oak Ridge National Laboratory Governor’s Chair in Nuclear Engineering.

Weber will serve in the Department of Materials Science and Engineering at UT Knoxville and in ORNL’s Materials Science and Technology Division.

He was previously a laboratory fellow and team leader at Pacific Northwest National Laboratory (PNNL), where he served as a researcher since 1997. For more than three decades, Weber has researched the complicated interactions between radiation and ceramic materials. He uses both direct measurement of materials and extremely powerful computer simulations to examine how radiation affects ceramics. The research has broad applications, touching areas from nuclear energy to environmental remediation, and even space exploration.

Weber has been a particularly prolific researcher, and has published more research than any other one scientist in the more than 45-year history of PNNL. Weber is the editor or co-editor of five conference proceedings, and the author or co-author of more than 320 journal articles, seven book chapters, 108 peer-reviewed conference papers and 53 technical reports.

Weber has spent his entire career with PNNL, where he served until recently as chair of the PNNL Council of Fellows, chair of the PNNL Publication Advisory Committee and manager of the PNNL Fellows Laboratory Fellowship. He received her bachelor’s degree in physics from the University of Wisconsin, Oshkosh, and her master’s degree and doctorate, both in nuclear engineering, from the University of Wisconsin, Madison.
COE Welcomes Eight New Faculty Members

Pharr Receives Inaugural MRS Innovation in Materials Characterization Award

Dr. George Pharr, McKamey Professor and Head of the Department of Materials Science (MSE), and Warren C. Oliver, of Nanomechanics in Oak Ridge, Tenn., have been honored with the inaugural MRS Innovation in Materials Characterization Award for their joint work on nanoindentation. Pharr and Oliver were cited for “numerous contributions to the development of the instrumentation and analysis methods of nanoindentation for characterizing the mechanical properties of materials at the micro- and nanometer length scales.” Oliver received his Bachelor of Science degree in engineering science from the University of Tennessee and is the son of the late Dr. Ben Oliver, a long-time faculty member in the MSE department. The award was presented to Pharr and Oliver at the 2010 Materials Research Society Spring Meeting in San Francisco.

MABE Professors Win NASA Award

Dr. Jay Frankel and Dr. Majid Keyhani, both professors in the Department of Mechanical, Aerospace and Biomedical Engineering, have received a National Aeronautics and Space Administration (NASA) EPSCOR Award for 2010. The funding was awarded for “Patented Heating Rate Sensor and Analytic Tools for Prediction of Surface Heat Flux and Temperature of TPS via In-Depth Sensor Data.”

FACULTY focus

Dr. Stephen Paddison, Department of Chemical and Biomolecular Engineering

Dr. Stephen Paddison, an associate professor in the Department of Chemical and Biomolecular Engineering (CBE), is passionate about polymer electrolyte membrane fuel cell research. “Proton exchange or polymer electrolyte membrane fuel cells (PEMFCs) are applicable as power supplies for a range of devices, including portable electronics, vehicular power, or stationary power for small buildings. Essentially these fuel cells will be used to directly change energy storage devices including batteries,” said Paddison. “My group is essentially interested in the materials used in PEMFCs, with a specific focus of the material properties at a fundamental, that is, molecular level.” The majority of his research involves the simulation of the structure and function of materials.

Paddison received his bachelor’s in chemical physics and a Ph.D. (1996) in physical/theoretical chemistry from the University of Calgary, Canada.

“When I finished my Ph.D., I chose to do a fellowship in a completely new area of research, and it really came as an opportunity to do something different then what I had done in the past,” commented Paddison. The post-doctoral fellowship and later staff position with the Materials Science Division at Los Alamos National Laboratory led Paddison into experimental and theoretical investigations of sulfonic acid based polymer electrolyte membranes.

Paddison then spent three years as an assistant professor in the Department of Chemistry and Materials science at the University of Alabama in Huntsville before taking a position at the University of Tennessee in August 2007. “Mostly what attracted me to the University of Tennessee was the proximity to Oak Ridge. I had spent eight years in Los Alamos National Lab, and was well acquainted with what could be done in a national lab with all their ‘toys’,” explained Paddison.

In the classroom, Paddison hopes to instill a level of enthusiasm in graduate and undergraduate students.

“I don’t want to make anything more difficult than it is, but I don’t want my students to be afraid to tackle the difficult topics,” Paddison said. His professional achievements mimic his classroom mentality as he too has tackled obstacles for the success of new discoveries in fuel cell research.

“We are extremely fortunate to have attracted Stephen to our program at the University of Tennessee. Not only is he a great scholar but also an excellent citizen of the CBE community,” said Dr. Bamin Khiami, professor and head of the CBE department.

Paddison received a 2010 COE Research Fellow Award. The award was established to recognize and reward superior research. For Paddison, the award reflects his exceptional record of fuel cell research activity and efforts that clearly contribute to the mission of the college. He has dedicated more than 14 years to advancing the structure-function relationships in fuel cell materials.

Looking to the future of fuel cell research in his department, Paddison said, “My own aspiration for the department is to bring excellence in terms of research and scholarship, and therefore training of students and young researchers.” The majority of his research in the field involves international collaboration with such institutions as the University of Cambridge and the Max Planck Institute, Stuttgart. “I want to bring an awareness of this department to the international community,” added Paddison.

Paddison’s high expectations and forward-looking philosophy for the CBE department hinges on his central statement that “if you want a good product, then you’ve got to hold the light, and you have to demand and require a high but achievable standard.”

Outside of the classroom, Paddison enjoys spending time with his family: wife Joan, daughter Kassandras, 11, and son Cooper, 10. He is very involved in his children’s musical activities. Cooper plays the violin with the youth orchestra, and Kassandras studies the piano.
FACULTY awards

College of Engineering Salutes Excellence at 2010 Faculty and Staff Awards Dinner

The University of Tennessee College of Engineering held its annual Faculty and Staff Awards Dinner on Thursday, April 22, 2009, at the Knoxville Convention Center. Award winners, COE administrators and staff, and their guests enjoyed a reception, dinner, and awards program. This year, members of the college’s Board of Advisors and their guests also attended the dinner. COE Dean Wayne Davis and Associate Dean for Research and Technology Bill Danne served as emcees for the event.

The highlight of the evening was the presentation of the Nathan W. Dougherty Award to Dr. John Prados, professor emeritus in the Department of Chemical and Biomolecular Engineering. Prados is a former Vice President and University Professor Emeritus at UT, where he has served for more than 50 years, beginning as a graduate assistant in 1953. He was a full-time professor in the Department of Chemical Engineering for 13 years, and for the next 20 years he held several administrative positions, including Associate Dean of Engineering, Dean of Admissions and Records, Acting Chancellor of the Knoxville and Martin campuses, Acting Director of Energy Conversion Programs at the University of Tennessee Space Institute and, from 1973 through 1988, he was the Vice President for Academic Affairs of the statewide University system. He returned to the Department of Chemical Engineering in 1989 and from 1990-93 he was the department head. He served as the Senior Education Associate in the Engineering Directorate of the National Science Foundation from 1994 through 1997, Prados has been a consultant to industry, government and more than 30 universities and state education agencies in the United States and abroad.

In 2009, Prados received the Benjamin Coover Lumme Award from ASEE. Established in 1928, the honor recognizes excellence in teaching, contributions to research and technical literature and achievements that advance the profession of engineering in college administration. Prados was recognized for 50 years of combined service to the University of Tennessee, ASEE, ABET, NSF and to the nation and the world for his leadership in engineering education reform and innovation.

After the award presentation to Prados, Dr. Bamin Khosravi, professor and head of the Department of Chemical and Biomolecular Engineering, announced the establishment of the John W. Prados Professorship in his department. The professorship was created by Malcolm Cellini (BS/CE ‘58) and additionally supported by J. Michael Stone (BS/CE ‘63), both of whom are former students of Dr. Prados.

Additional awards presented during the evening included:

- Outstanding Support Staff Award: Julia Ellkins, Administrative Services Assistant, Electrical Engineering and Computer Science and Kristin England, Communications Specialist, Nuclear Engineering
- Outstanding Faculty Advisors: Dr. J. Wallace Mayo, Instructor, Electrical Engineering and Computer Science
- Allen & Hoshall Engineering Faculty Award: Dr. Michael Berry, Professor, Electrical Engineering and Computer Science
- Dr. Carl McHargue, Professor, Materials Science and Engineering and Director, Center for Materials Processing

Charles Edward Ferris Faculty Awards:

- Dr. Richard Bennett, Professor, Civil and Environmental Engineering and Director, Jerry E. Stoneking Engage Program
- Dr. James Plunk, Professor, Electrical Engineering and Computer Science
- Dr. Rupy Saini, Professor, Industrial and Information Engineering

2010 Teaching Fellow Awards:

- Dr. Richard Bennett, Professor, Civil and Environmental Engineering and Director, Jerry E. Stoneking Engage Program
- Dr. James Plunk, Professor, Electrical Engineering and Computer Science
- Dr. Rupy Saini, Professor, Industrial and Information Engineering

2010 Research Fellow Awards:

- Dr. Joshua Fu, Associate Professor, Civil and Environmental Engineering
- Dr. Yunfei Guo, Assistant Professor, Materials Science and Engineering
- Dr.Bin Hu, Associate Professor, Materials Science and Engineering
- Dr. Jun Huang, Associate Professor, Electrical Engineering and Computer Science
- Dr. J. Wesley Hines, Professor, Nuclear Engineering
- Dr. Stephen Padlon, Associate Professor, Chemical and Biomolecular Engineering
- Dr. Xiaomin Wang, Assistant Professor, Electrical Engineering and Computer Science

The University of Tennessee and Oak Ridge National Laboratory (ORNL) are offering two joint graduate programs. They are the Distinguished Graduate Fellowship and an Energy Science and Engineering (ESE) program. The two programs are administered through the Center for Interdisciplinary Research and Education (CIRE).

“There are a number of unique features to these programs,” said Dr. Bill Danne, associate dean of research and technology for COE.

Graduate students for these programs will collaborate with the faculty from the Colleges of Arts and Sciences, Agricultural Sciences and Natural Resources, and Engineering as well as research staff at ORNL. They will determine the curriculum and work primarily as teachers, researchers and mentors for the admitted students.

One cycle of recruiting has already been completed for the Distinguished Graduate Fellowship program. The students enrolled for fall semester were chosen from Michigan University, Louisiana State University and the University of Tennessee Knoxville.

“The governor’s vision was to create a unique graduate program that would be a means of growing the major fields of manufacturing, service and intellectual industry development for the state of Tennessee in fields related to alternative energy technologies,” said Danne. “Idealize these students would stay in this ORNL-UTK nexus after completing the program and potentially grow an expertise that would become nationally and internationally recognized.”

Students involved in the graduate programs will offer valuable experience that supports an array of professional objectives. The platform for these educational endeavors is state-of-the-art facilities at ORNL combined with globally recognized guidance in science and engineering research between UTK and ORNL. Students will also gain exposure to other national labs, universities, and industries.

“This is a new level of relationship that is premised on the concept of success for both organizations and the students,” explained Danne.

STUDENT feature

UT-ORNL Collaborate on New Graduate Program

The ESE program is the larger initiative with a carrying capacity of 300 doctoral students. Governor Phil Bredesen provided $6.2 million of one-time funds to establish this program.

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New leaders Take the Helm in Diversity, Professional Practice Programs

The Engineering Professional Practice Office and the Engineering Diversity Programs Office in the College of Engineering have both undergone changes in leadership this year.

In January, Todd Reeves was named the new director of Engineering Professional Practice, replacing Walter Olson, who left the university to accept a position as Director of Recruiting and Retention with Nantucket State University in Norfolk, Va.

Reeves served for 21 years in private industry, where he focused on new product development, team leadership and customer relationship management.

Reeves’ most recent position was with Emerson, working for the Knoxville-based Machinery Health Management Business as a senior staff engineer and product manager. In this role, he focused on the creation and global market launch of new machinery condition monitoring products for the process industries. Prior to that, Reeves worked for General Dynamics Electric Boat division in Groton, Conn., as a sound and vibration design engineer, where he assessed customers’ needs and developed projects.

Reeves has a Bachelor of Science in mechanical engineering, a Master of Science in mechanical engineering and a Master of Business Administration from Tennessee Tech University in Cookeville, Tenn.

Reeves changed the name of the program from the Office of Professional Practice to Engineering Professional Practice in order to make the official name more descriptive and to align better with other COE department names.

“The adjustment in the name of our program helps to minimize confusion that the old name created,” Reeves said. “Having the word ‘engineering’ in our name clearly identifies the group of students that we support and gives employers a clearer idea of what we represent.”

Reeves is excited about the opportunities for the Engineering Professional Practice program, which is the second oldest cooperative education program in Tennessee, established in 1926. The program combines classroom learning with educational, relevant, productive work experience in a field related to students’ academic and career goals.

“We want to build on the traditions of excellence that have been established,” Reeves commented. “A lot of good things have happened previously, and we have an excellent staff. I want to see more student participation and also to grow our employer base. We’re planning to increase our communications efforts with students so they will be more aware of the opportunities that are available with co-op positions and internships.”

Reeves also hopes to enhance the program’s relationships with faculty and departments as well as the UT Career Services Office.

“We see our office as a place to serve not only co-op students and interns, but also as a resource for students to find out how exactly to go to work— how to prepare from a professional standpoint for that first job.”

Reeves, along with staffs Joyce Reed, Suzanne Sawicki and Yvette Hayward, plans to continue to work with students to provide real world job opportunities during their years of academic study.

“Our role is putting opportunities together,” Reeves added. “This is a great program—work experience is so important to employers and it’s a win-win situation for both students and companies.”

In the Engineering Diversity Programs Office, longtime director James Pippin retired on June 30. A reception was held on May 7 at the University Welcome Center to honor Pippin. At the event, the establishment of the James Pippin Pre-College Endowment in the COE was announced. The fund was created by a small group of engineering alumni who joined together for this honorary gift to thank Pippin for his many years of service to University of Tennessee minority engineering students. Anyone interested in contributing to this ongoing endowment should contact Nathan Zipper in the Engineering Development Office at (865) 974-3293 or via e-mail at ncjpper@utk.edu.

On May 3, Travis Griffin was named as the new director of Engineering Diversity Programs. Griffin comes to the university from Oklahoma State University where he served as the coordinator for the Multicultural Engineering Program.

In this role, Griffin focused on recruiting, advising and retaining students for the College of Engineering, Architecture and Technology. He also developed, implemented and managed special programs targeted to underrepresented groups and multicultural awareness programs for the college. Prior to this position, Griffin was the outreach coordinator at the University of Southern Mississippi (USM) within the College of Science and Technology, in which he mentored students and helped them pursue graduate degrees and career opportunities.

“Travis and I have agreed that we want to take a fresh look at DESEP and see if we can make it even more beneficial for students,” Reeves said.

Griffin agreed. “The system that has developed within the DESP is great for retention,” he said.

“The professional experience that it provides is outstanding. We also want to make sure that academic excellence is the key to the program.”


Sawicki (right), Reeves (left) and Yvette Hayward (center) pose with the check for the James Pippin Pre-College Endowment.
College of Engineering and Eastman Continue Productive Relationship

The University of Tennessee College of Engineering (CBE) and Eastman Chemical Company, founded in 1912, a global chemical company that manufactures and markets a broad portfolio of chemicals, fibers and plastics, have enjoyed a strong and mutually beneficial relationship for many years. The company is based in Kingsport, Tenn.

“Eastman and the university have a strong corporate partnership which encompasses research partnerships, community outreach programs and a number of advisor boards and councils,” said Norris Sneed, Senior Vice President for Manufacturing Support and Chief Administrative Officer for Eastman. “In addition, Eastman has more than 300 UT alumni working in various roles from entry level positions to an executive team member. The strong commitment from both Eastman and the university enables both parties to be innovative, develop breakthrough technologies and provide an avenue to develop outstanding leaders.”

One example of this long-term partnership is the Capstone Design Program, a class for chemical engineering students, which has been facilitated by Dr. Charles Moore in the Department of Chemical and Petroleum Engineering for more than 20 years.

“The Capstone Design Program is an opportunity for five to 10 senior chemical engineering students from UT to work on a process control issue for Eastman in exchange for class credit. The program is directed by Dr. Moore and is coordinated at Eastman through the company’s Advanced Controls Technology group. Over the years, Eastman has hired more than two dozen students who were part of the Capstone Design Program,” Sneed commented. “For Eastman, the program offers various benefits. It allows for both Eastman and the university to learn from each other and form stronger relationships.”

The students also receive the benefit of adding an industrial component to their undergraduate curriculum. The course provides a team approach to solving problems. The students gain experience in delivering presentations to an audience of industrial professionals, and it allows them an opportunity to apply their academic studies to “real world” problems. They also get the opportunity to visit an industrial plant site and view chemical process equipment firsthand, along with the opportunities to talk with Eastman’s process operators.

The chemical company also sponsors the Eastman Leadership Seminars through the university’s Office of Career Services. This program helps students prepare for future careers in all disciplines, not just engineering. Leading from Eastman interacts with students in an open and relaxed environment to discuss world topics, current issues and leadership styles. The program also provides opportunities for participants to engage with students from different concentrations and backgrounds.

“The intent of this program is to provide student participants with skills that enable them to become better communicators and leaders,” Dr. Moore said. “We believe that this initiative will give students the confidence and professionalism required to excel in a competitive work environment.”

The program provides Eastman with many benefits as well. A valuable take-away is that the program is information about what the current generation values. It provides Eastman with an inside look into what these students are looking for in a future employer. Participation in this program also allows Eastman an opportunity to showcase the quality of its leadership and the value placed upon employees at the company. Lastly, it’s an excellent opportunity for its identity to continuously be on our recruiting map.”

Eastman recently provided the engineering college with $1 million to establish a new Chemical and Petroleum Engineering Fellowship in the CBE department.

“Our goal for this position is to help enable the university to attract the most talented students into its graduate program and provide adequate funding for the selected individuals to thrive and succeed,” Sneed said. “The fellowship also shows Eastman’s commitment to UT, especially the College of Engineering.”

Sneed added that Eastman “highly values” the current and difficult economic climate and that its ability to invest in multiple cost cutting measures is questionable. In such a scenario, the company is also dedicated to making sure that decisions on reducing short-term costs do not jeopardize long-term growth goals.

“The interest of Eastman and the university continues in our future growth endeavors,” Sneed said. “Dr. Moore and I look forward to continuing its relationship with both the university and the CBE, and it is confident that he company will continue to progress in the future.”

“Our company is committed to growth and we are well-positioned for growth,” Sneed said. “We will continue to build on our core businesses while also pursuing new growth opportunities in emerging global markets. Our vision is to be an outperforming chemical company by delivering performance-based logistics (PBL) programs, providing performance-based logistics (PBL) programs.”

Fulghum, a UT graduate with a master’s degree in civil engineering, “The change of leadership was inevitable,” Fulghum said. “Whether it is building business skills through non-degree programs or building strategic-level business acumen through an MBA program, business professionals need opportunities to enhance their excellent technical backgrounds with a solid understanding of business.”

For additional information on any of these programs, please visit http://www.engr.utk.edu or contact Rhonda Barton at either 865-974-1620 or rbarton@utk.edu.

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The College of Engineering Spring 2010 commencement ceremony took place on Saturday, May 12, with more than 240 engineering graduates participating in the event. A total of approximately 2,000 parents, friends and relatives attended the graduation, which took place in Thompson-Boling Arena on the UT-Knoxville campus at 11:30 a.m.

Dr. Wayne Davis, dean of engineering, led the academic procession that signaled the beginning of the ceremony. The procession included student, faculty, and department heads and faculty representatives. Dr. Susan Martin, UTK Provost and Senior Vice Chancellor, and Dr. Brad Fennwick, UTK Vice Chancellor for Research, also attended the ceremony.

Mr. Raja Jabban (ISEE’91), founder, Chief Executive Officer, and 51 percent stockholder of the Denark Construction Company, Inc., was the commencement speaker. Jabban has led the management team of the general contracting and engineering company since its incorporation in 1995. A former member of the college’s Board of Advisers and the recipient of the 2004 Nathan W. Dougherty Award for outstanding achievements in engineering, Jabban reminded graduates to thank everyone who helped them along the way—parents, community, alumni and faculty. He also offered five suggestions for a successful future: be a leader; stand up for what you believe in; make the right choices; take care of your family; and give back to it.

Several graduates from the College of Engineering 2010 Class were recognized: Zachary Taylor Dixon, recipient of the 2004 Nathan W. Dougherty Award and recipient of the 2004 College of Engineering Distinguished Alumnus Award; Andrew Zane Jackson, recipient of the 2004 Robert C. L. and Elizabeth P. L. McKeehan Engineering Achievement Award and the 2004 UTK Distinguished Engineering Student; Garrett Anthony Kamkowski, Sharon King, Christopher Michael Riley, Daniel Stephen Smith and Benjamin Stephen Yeager.

In recent years, the university’s colleges have been conferring diplomas during smaller, more intimate events. Stephen Yeager.

COE Departments
RANKED BY U.S. NEWS AND WORLD REPORT

For the first time, all academic departments based in the College of Engineering have a graduate degree program nationally ranked by the U.S. News and World Report, and the nuclear engineering graduate program is in the top 10. College of Engineering Dean Wayne Davis said the college’s latest rankings will help recruit highly qualified candidates for the college’s graduate programs.

“Reputation is also being enhanced by the recently established UT-Knoxville-ORNL Graduate Fellowship Program, a new program designed to attract top graduate students in science and engineering, and the fact that our nuclear engineering program is one of the best in the country will be a definite asset in attracting high-caliber candidates to UT,” Davis said.

UT’s College of Engineering’s overall graduate program was ranked 73rd nationally out of 198 public and private colleges and 46th among public universities.

College of Engineering programs ranked nationally:
• Aerospace Engineering is ranked 63rd
• Chemical Engineering is ranked 68th
• Civil Engineering is ranked 59th
• Computer Science is ranked 61st
• Electrical Engineering is ranked 50th
• Mechanical Engineering is ranked 67th

During the ceremony, Dr. Wayne Davis, dean of engineering, said the university’s colleges have been conferring diplomas during smaller, more intimate events.

Birthdays and presents go together, but for Spike Tickle (BS/EE ’87) the best celebration of all came when he made a gift to the University of Tennessee on his 43rd birthday.

Tickle’s gift designated half of the funds for the College of Arts and Sciences with the other portion donated to the College of Engineering (COE). The gift will be used to establish Science, Technology, Engineering and Math (STEM) fellowships in both colleges.

“The timing worked out beautifully really,” Tickle said. “I can’t even recall feeling as excited or thrilled on any birthday as when we were able to establish the Spike Tickle STEM fellowships. I had an overwhelming sense of accomplishment, contribution and pride in UT, my family and in our country that day. It just became the perfect present to myself.”

Tickle was born in Knoxville, but his family lived in Ohio and for a while in Green Bay, Wis. before moving back to his parent’s hometown of Bristol, Tenn. Tickle attended elementary schools in Bristol and Tennessee High School and Northwestern Military Prep Academy in secondary school.

He was interested in attending Annapsolis and pursuing a military career, but got sidetracked by family and community and gave up on joining the service. Instead, he accompanied his family in moving back to Ohio.

Tickle’s father, John Tickle, was a 1959 engineering graduate from the University of Tennessee.

“I knew that I was in the right place,” Tickle commented. “I really enjoyed my times as a brother in the Phi Delta Theta fraternity. Phi Delta Theta was a big part of my years at UT. And how about that 1986 Sugar Bowl when UT sacked Testaverde about 20 times and Darryl Dickey completed every pass that he threw—what a great trip to New Orleans. I remember talking to John Ward in the hotel lobby almost every night.”

After graduation, Tickle worked for Shell Chemical Company for 10 years, traveling and living all over the U.S. in cities including Denver, St. Louis, Chicago and Atlanta. In 1996, he attended the University of North Carolina, where he received an MBA degree.

Tickle moved back to Bristol in 1998 to join his family’s business, Strongwell Corporation, a manufacturer of reinforced polymer composites and pre-cast polymer concrete.

Although Tickle is a relatively young alumnus, he encourages his fellow UT graduates not to wait to contribute to the university.

“I think a lot of the younger alumni don’t realize what is possible when you give to UT,” Tickle said. “I believe that nothing will propel our society and our nation further than an investment in our children’s education. Secondly, UT has the potential and roadmap to be one of the top research universities in the country. Our partnership with ORNL is unparalleled. The quality of life and business environment in East Tennessee is unsurpassed. All we have to do is invest and work at reaching our goals every day. I know that Chancellor Jimmy Cheek, our leadership and our professors and alumni want the best and that’s what we should strive for all of the time.”

John Tickle and his wife, Ann, have set a high standard for giving by contributing to two university buildings. They were instrumental in providing for the construction of the John and Ann Tickle Small Animal Hospital expansion within the College of Veterinary Medicine, which was opened in the spring of 2005. The John Tickle also provided significant support for the new John D. Tickle Engineering Building, which will begin construction on Neyland Drive in November 2012. The facility will house the Department of Civil and Environmental Engineering and the Department of Industrial and Information Engineering.

“It is very humbling and inspiring to see our family name on two campus buildings,” Tickle commented. “I have to say, my father really sets a fast pace! We all have to try to do the right thing everyday in our lives.”

Tickle’s wife, Lisa, is a UT graduate, and they have two children—Jack, who is 8 years old, and 16-month-old Josie.

Tickle hopes his gift will inspire others to give to the university.

“I knew that when I gave the gift, I was doing the right thing and that I would have a productive legacy,” Tickle said.
5,500 independent engineering companies throughout the United States. He resides in Franklin, Tenn.

Robert C. Wunderlich (BSCE '82) was elected vice president of the Institute of Transportation Engineers. He resides in Pinos, Texas.

Thomas A. Bach (BSCE '83) has been named to the Board of Directors of JETS, one of the nation’s leading nonprofit educational organizations. He is the Utility Systems Engineer for the Water and Sewer Authority of Calumet County and is the Community Outreach Committee Chair for the Professional Engineers of North Carolina (PENC). He resides in Concord, N.C.

Todd Knuecky (BSCE '84, MSCE '97) was named vice chair for the Airport Consultants Council’s Legislative and Regulatory Committee. He resides in Springfield, Ill.

Garrett Lee Skrobot (BSCE '38) is a NASA mission manager. He resides in Cocoa, Fla.

Krishna M. Sudaravim (BSCE '85) published The PC Woes: Recovering Routinely. He resides in Knoxville, Tenn.

Emily Ashworth (MSIE '03), VP and CEO for American Water, has been named one of the 2010 Premier 100 IT Leaders by Computer World magazine. She resides in Osvio, Idaho.

Memorials


Herman E. Goddard (BS/ME '33) died on June 19, 2006. He lived in Glen Allen, Va.

Franklin S. Chance (BSCE '37) and February 19, 2010. He was a resident of Bulverde, Texas.


Mary Peter Fain Owen (BSME '48) died October 27, 2009. She was a resident of Murphy, N.C.

Alonzo Worley Brasley (BSCE '47, MSCE '48) died February 27, 2010. He lived in Spartanburg, S.C.


Willbur (Mac) C. Mahan (BAEE '48) died June 17, 2010. He lived in Nashville, Tenn.

Leon Lindsay Parms (BAEE '48) died March 21, 2010. He was a resident of Oak Ridge, Tenn.

William M. McCampbell (BSCE '50) died March 31, 2010. He lived in Huntsville, Ala.

Howard R. Winn (BSCE '48) died May 30, 2010. He lived in Memphis, Tenn.

Paul E. Overcast (BSCE '52) died February 7, 2010. He lived in Louisvillate, Fla.

Ralph Kent Phillipine, Sr. (BSCE '54) died June 13, 2010. He was a resident of Memphis, Tenn.

Alvin (Al) Earl Brown (BSCE '58) died March 7, 2010. He was a resident of Woodstock, Ga.

Dr. Peter Jordan Vasilladis (BSCE '58) died March 22, 2010. He lived in Gainesville, Ga.

Billy G. Stitson (BSCE '58) died July 17, 2009. He lived in Belgrade, Mont.

Beryl Hugh Parks (BSCE '61) died January 21, 2010. He lived in Lichington, S.C.

Marion R. Smith (BAEE '61) died July 30, 2009. He was a resident of Burlington, N.C.

Ralph C. Bolos (BSCE '66) died August 13, 2009. He lived in Huntsville, Ala.

Saul M. Gross (BSCE '67, MSCE '48) died February 26, 2009. He was a resident of Florence, Ala.

James (Jim) Howard Corley, Jr. (BSCE '67) died March 10, 2010. He lived in Kingston, Tenn.

William (Bill) George Swann (BSCE '68) died on May 7, 2010. He lived in Mornnton, Tenn.

Robert L. Koger (MSIE/Engd '76) died November 8, 2009. He lived in Talladega, Tenn.

William (Bill) A. Pitman (BSCE '77) died June 29, 2010. He was a resident of Maryville, Tenn.

Dr. Samuel R. Pate (BS/AE '79, MS/EX '80) died December 7, 2009. He lived in Talladega, Tenn.


Robert Glenn Campbell (MSCE '80) died March 25, 2010. He was a resident of Knoxville, Tenn.

Phillip E. Kranitz (BSCE '87) died December 10, 2009. He lived in Alhaurin, N.Y.

Peter Chishman Yeh (MSCE '91) died August 24, 2009. He was a resident of Park City, Utah.
It's a great time to be an engineer because there are so many incredible problems to solve." - Julie Roberts (~78 CE)

The challenges we face today in this college are the same as those we face at major institutions around the world, they will create companies and rebuild the economy. They will become field engineers, they will teach and do research on the future. Your gifts help this college teach the unique problem-solving skills that are so refreshing. You tell it like it is and you want real data. I have always recognized the intracity of the science, but I have never missed its relevance.

The people. Now I was duly warned when I moved to Perkins Hall: engineers are quiet and introverted. Be prepared to do most of the talking at a gathering like this. But the reason we ask is because of the influence your support has on public universities. As state budgets are confronted with mandates that pull dollars, the staff, and help launch the Campaign for Tennessee.

Summer Davis, Assistant Director

Donor list

The University of Tennessee, College of Engineering

LEADERSHIP ANNUAL GIVING CALENDAR YEAR 2009

Cultivating Knowledge for a Competitive Edge

As of August 2010 the College of Engineering has secured more than $54 million or 72 percent toward our campaign goal of $75 million. Opportunities to join this effort continue through December 2011.

A GREAT TIME TO BE AN ENGINEER

What a great time to be an engineer. What a great time to give.

Director Dorothy Bryson,

The Tennessee Engineering Foundation

Leadership Annual Giving Calendar Year 2009

1. $10,000 and Above
2. $5,000 and Above
3. $2,500 and Above
4. $1,000 and Above
5. $100 and Above

Outright gifts

Donors who made a new gift of cash or securities received during the Campaign for Tennessee, 2009-2011. These gifts are listed alphabetically within giving sources. This category does not include pledge payments.

Financial Support

July 2, 2009 – June 30, 2010

Evidence that engineering education is important can be found in every name listed here. In the midst of economic challenges, like which of have not been seen for decades – you have given generously. The impact of these gifts is felt each day, and to each one of you we say thank you.

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$500,000 and Above

Estate of John Fisher Direction of Lester C. Parton

Catherine Turner* Charles Vanderbuck* Thomas Wood Donald and Rachel Yarbrough*

John and Ann Tickle, Sr.

*Indicates that part or all of their gift went to the College Fund for Engineering.

Any amount is welcome: $10,000 and Above

Platinum ($10,000 and Above)

Dr. Kenneth Kihm

Estates of George Scholdfield III and John and Ate, Sr.*

Gold ($5,000 and Above)

Michael and Jackie Crabtree*

Donations to the College of Engineering in February 2008, and my commitment was to stay for 12 to 18 months, hire the staff, and help launch the Campaign for Tennessee.

Kathleen Baker, Associate Director

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Last year I told you about the urgency that engineers touch every aspect of our life. From the chemicals in my makeup to the recyclable materials on the roads I drive to the computer software I drive to the computer software I drive to the computer software. One of the greatest challenges I face is coordinating the work of the disciplines to deliver the best possible outcomes.

The methodology. Okay, this may actually be my favorite thing about engineers. You approach everything – including your philanthropy – with a direct logic that is so refreshing. You tell it like it is and you want real data. I discovered that engineers are inherently generous. Even as this economy has hit the timing of some major gifts, you are willing to plan with us for the future.

I am not telling you anything you don’t know about engineering but maybe you don’t know how much this university needs you. Private philanthropy is no longer a luxury for public universities. As state budgets are confronted with mandates that pull dollars, education gets media attention but less funding.

It may seem as though my staff and I ask for all the time and we do! That’s our job, and you wouldn’t think we were good at it if we didn’t ask you directly for support. But the reason we ask is because of the influence your support has on the future. Your gifts help this college teach the unique problem-solving approach of engineering. Your gifts educate engineers who will continue your legacy. They will become field engineers, they will teach and do research on the future.

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Dr. Frank Riordan, Jr.
Ralph Rieben
A. Jack Rhymes, Jr.
Dr.
John and Evelyn Moyers, Sr.

Cecily Moses

Terrel and Lesley Morris

Herbert and Mary Morris

J. Miller Moore

Walter Miller

Matthew Milazzo

Mark and Patricia Medley

Kenneth McKinnon

Douglas McDonald

William and Linda McCune

Nancy McCorkle

Dennis and Ursel Mayo

Marcia Major

Karen Madison

Deborah Maddux II

John MacKenna

Kevin Mack

Dennis Lundy

John Lowrance

John Lovell

John Long

Thomas Logan

James Levan III

Douglas Robertson

A. H. Rice

David and Hang Regenold

Dr. Krishanamurthi

Dr. Gary Ragsdale

Nanditha Pulasani

James Porter, Jr. and

Robert Pistole

E. Brent Pewitt

Richard Peugeot

Amit Patel

Thomas Parsons

Guillermo Palomo, Jr.

Bobby Palmer

Kevin and Betsy Palm

Steven Oliver

Robert Ogden

Thomas Newsom

Latoyia Thompson

Stephenson Thomas IV

Vinaychandra and

Thomas Taylor

Joshua and J. Amanda Taylor

David Swindell

Dr. Junqing Sun

Alonzo Sullivan

Brooke Story

Stephen and Peggy Steele

Andrew Spence

Katherine Southall

James Snyder

Stephen Smith

Jeffrey and Pamela Smith

Brian Smith

Jerry Sluder

Scott Simpson

Lt. Colonel Steve Short

David Sherrod

Kenneth Shasteen

Rhea Scruggs

Stanley and Penny Peak

Gifts, Pledges, and Pledge Payments by Degree

Listed by the degree received (not the designation of the gift), we are pleased to recognize all of our College of Engineering graduates who have supported their college through a new gift, a new pledge, or a pledge payment regardless of when the original pledge was made. Our records for several individuals are incomplete and we have listed them as “Unknown, Engineering.” We are researching student records to try to update these records and would welcome your contact with correct information. Please notify the Engineering Development Office with your corrections.

Aerospce Engineering

Robert Adams

Lt. Colonel Paul April

Dr. William Baker, Jr.

James Burnett

Randie Barnesby

Dr. Eugene Callens, Jr.

Annie Carnell

Dr. Ho-Pen Chang

Randall Clayton

Dr. Andrew Denny

Matthew Doffelmer

Nathan Dougherty, Jr.

Nick Dray

Dr. Philip Hanks

George Hatcher

Matthew Huffman

Dr. Michael Berman

Thomas Hobbs

Dr. James Haynes

Dr. William Harrison III

Dr. Michael Harris

Dr. James Hackney

Dr. Paul Haas

Dr. Bobby Phillips

Dr. James Hackney

Gregory Hall

Helbert Hansoul III

J. Steven Walker

Charles Hendrix

Thomas Hoobis

Dr. Craig Hoyne

Harland Hakenson

Douglas Hamlin

Matthew Kass

Samuel Kehrler

Jodi Johnston

Donald Stout

Dr. Ronald Cook

Mark Templeton

Lori Thompson

Cheryl Crosby

Lee Czer

Peter Urschel

J. Steven Biebe Lin

Thomas Lalonde II

Bobby Logan

Mary Krempasky

Margaret Campbell

Richard Clark

Thomas Clerk

Michael Mendel

Nick Collins

Even Collinson, Jr.

Dr. Harper Conner, Jr.

Larry Cook

Stacy Coppersmith

Dr. Karin Conkey

Dr. Richard Cross

Matthew Curlin

John Cross

David Corbin

Dr. Yancey Cross

Scott Cory

Dr. Yancey Cross

Derek Carr

Mark Botto

Dr. Yancey Cross

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Mark Botto

Story by Tammy Enix and Lissa Gay

Middle-school-aged girls had an opportunity to crash remote-controlled cars, get behind the wheel of a driving simulator, examine debris leftover from a wreck and take electric bikes out for a spin during the UT Center for Transportation Research (CTR) Transportation Academy 2010, which was held on the UT-Knoxville campus the week of June 14-18.

The summer academy introduced rising 7th and 8th grade girls to the world of transportation and the wide range of career possibilities open to women. Each day included a different transportation focus: teamwork, trains and automobiles, freight and logistics, transportation safety and international transportation. The goal of the event was to get the girls interested in science, technology, engineering and mathematics and to think of transportation as a career option. Behind each activity is a lesson.

“IT’s a weeklong academy to get girls introduced to careers related using math and science,” explained Deanna Flintmacher, CTR research director. “We’ve pulled females that are in the profession now to work with the girls, and I think that shows them that, yes, it is possible to come into this field.”

For more information about the academy, visit http://ctr.utk.edu or contact Robyn Hargis, CTR academy director, at 865-974-2719 or robyn.hargis@utk.edu.
The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability or covered veteran status.

Calendar

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<th>Fall 2010</th>
<th>Spring 2011</th>
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<td>Classes Begin</td>
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<td>Aug 18</td>
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<td>Labor Day</td>
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<td>Sept 6</td>
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<td>1st Session Ends</td>
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<td>Thanksgiving</td>
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Contact Information

Senior Administration
Dr. Wayne Davis, Dean of Engineering
Dr. Bill Dunne, Associate Dean for Research & Technology
Dr. Masood Parang, Associate Dean for Academic & Student Affairs

Departments
Chemical & Biomolecular........ 974-2421
Civil & Environmental.......... 974-2503
Electrical & Computer Science ... 974-3461
Industrial & Information ...... 974-3333
Materials Science ............ 974-5336
Mechanical, Aerospace & Biomedical .......... 974-5117
Nuclear ...................... 974-2525

Administration & Programs
Communications ................. 974-0533
Dean’s Office .................. 974-5321
Development .................. 974-2779
Engineering Advising Services...... 974-4008
Engineering Diversity Programs .... 974-1956
Engineering Fundamentals ...... 974-9810
Engineering Professional Practice. 974-5323
Engineering Research .......... 974-8360
Engineering Student Affairs .... 974-2454
Finance & Admin. Affairs ...... 974-5279

Research Centers
Materials Processing ........ 974-0816
Maintenance & Reliability .... 974-8625
Scintillation Materials .......... 974-0267
Transportation Research ....... 974-5255

College of Engineering Alumni Barbeque Homecoming 2010

The University of Tennessee, Knoxville College of Engineering invites you to “Homecoming 2010 – Rocky Top the Rebels” and the Annual Alumni Barbeque On the Hill catered by Dead End BBQ, co-owned by UTK Engineering Alumnus Robert Nutt

Saturday, November 13th, 2010
3 hours prior to the Tennessee vs. Ole Miss game

Join us for a barbeque lunch, catered by Dead End BBQ; exhibits and demonstrations; and reunions with former classmates and faculty! Register today and be a part of the tradition!

Costs: $12.00/adults • $8.00/children under 10 years of age

RSVP to (865) 974-2779, e-mail Christina Parsons at cparson4@utk.edu or register online at www.utk.edu/alumni/