Construction Starts on John Tickle Engineering Building

Construction on the John Tickle Engineering Building began on July 29, 2011. Messer Construction is responsible for building the facility and Grieves and Associates are the architects. The building is currently projected to be substantially completed in 20 months, by the end of March 2013, which will enable academic activities to begin in the building by the Fall 2013 semester.

Associate Dean Bill Dunne was very pleased to learn about this completion timeline. “We are fortunate that the construction contractors, Messer, believe that they can substantially complete the project four months sooner for the end of March 2013, because we will be able to put the building in service one semester earlier,” Dunne said. “This timeline also provides a great opportunity for us to feature the building to our college alumni and friends during events around the home football games of fall 2013.”

After completion, the building will house the Department of Civil and Environmental Engineering on the first four floors and the Department of Industrial and Information Engineering on the fifth floor.

Along with the completion of the Min H. Kao Electrical Engineering and Computer Science Building, which is scheduled in September of 2011 with move-in beginning in October, the Tickle building will provide much-needed expansion space for the college.

The $23.1 million new Tickle facility is made possible through major private support from John Tickle, an industrial engineering alumnus and the chairman of Strongwell Corporation, and his wife Ann, and public funding from the State of Tennessee. Additional gifts from Chad (BS/IE ’70) and Ann Holliday (BS/CCI ’70), Jim Gibson (BS/IE ’71) and Eric Zeanah (BS/IE ’84) as well as from the chancellor’s office have created a true public/private partnership for the new building.

For more information on the John Tickle Engineering Building, or to view the construction first-hand on webcam, visit http://www.engr.utk.edu/tickle/index.html.

COE Names Two New Department Heads

The University of Tennessee College of Engineering (COE) has announced the hiring of two new department heads in the nuclear engineering and materials science departments.

Dr. J. Wesley Hines, the current interim vice chancellor for research at the University of Tennessee, Knoxville and a nuclear engineering professor, has been appointed head of the UT Knoxville Department of Nuclear Engineering (NE). Hines will assume the department head role on or before January 1, 2012, once the university has concluded a successful national search for a permanent vice chancellor for research. Hines was named the interim vice chancellor for research in 2010. He previously served as the interim associate dean for research and technology for the COE from 2008 to 2009.

Hines attended the Naval Nuclear Power School in Orlando, Florida in 1986 and worked as a U.S. Naval Officer on naval nuclear submarines from 1987 to 1990. He started his career at UT Knoxville in the nuclear engineering department in 1995 as a research assistant professor. In 2005, Hines was promoted to professor in the nuclear engineering department.

Hines has earned numerous recognitions from the university and the COE, including the

Continued on page 3
To recognize exceptional achievement and keep some of our excellent professors at Tennessee, naming rooms in several of our buildings offers the opportunity to recognize donors and also builds departmental endowments.

As I reflect back on my own education, I am keenly aware of the faculty and alumni who provided me the opportunity for higher education. My undergraduate degree was financed in part by a four-year Alumni Scholarship. I still contribute to that university on an annual basis, because without the philanthropy of the alumni who created that scholarship, I would have never been able to complete my degree. My graduate education was funded by graduate research assistantships that were a direct result of faculty efforts in securing externally funded grants and contracts. Today, 25% of our undergraduate students receive scholarships funded by friends and alumni and the majority of our graduate students are on graduate teaching or research assistantships.

Clearly we, as alumni, are indebted to those who have come before us and contributed to the college’s success through support of the college’s programs.

Dr. Wayne Davis
The Chancellor’s Professors program began with the appointment of a senior research scientist and radiation expert at NASA missions. Townsend was a senior research monitoring for astronauts on manned space NASA Space Radiation Analysis Group, Orbiter (LRO) spacecraft and by the Effects of Radiation (CRaTER) project. Townsend’s work in space radiation is the university’s highest permanent Condra Professor in the Department of Nuclear Engineering. The CAREER award is one of the NSF’s most prestigious, supporting junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Keppens was featured in the Acoustical Society of America (ASA) for the application of ultrasonics to condensed matter physics. Keppens’ research focuses on using ultrasound to understand fundamental properties of materials. She has co-organized special sessions at the ASA meetings and given lectures at the Physical Acoustics Summer School (PASS) the past few years. Keppens will be featured in the Journal of the Acoustical Society of America and honored at a meeting in San Diego in November of this year. The ASA is dedicated to increasing and practical applications.

Dr. Dr. Christopher Cherry

Dr. Dr. Wei He

Dr. Veerle Keppens

Dr. Dr. Veerle Keppens

Dr. Dr. Veerle Keppens

Dr. Dr. Christopher Cherry

Dr. Dr. Christopher Cherry

Dr. Dr. Christopher Cherry

Dr. Dr. Christopher Cherry

Dr. Dr. Christopher Cherry
COE Hosts the High School Introduction to Engineering Systems Program (HITES)

The College of Engineering (COE) hosted its annual High School Introduction to Engineering Systems (HITES) program on July 24-25, 2011, at UT’s Student Union North Hall.

The program, which was sponsored by Bechtel Corporation, provides hands-on learning experiences designed to motivate students who have the interest and aptitude to consider careers in engineering.

This year’s game was “LOGO MOTION.” Two alliances of three teams competed on a 27-by-54-foot field with poles to attempt to earn points by hanging as many triangle, circle and square logo pieces as possible. Bonus points were earned for each robot that could assemble and launch logo pieces to form the first logo. Robots also deployed mini-bots that climbed vertical poles for a chance to earn additional points.

THE UNIVERSITY OF TENNESSEE KNOXVILLE, COLLEGE OF ENGINEERING

Sponsors 2011 Smoky Mountains Regional FIRST Robotics Competition

The University of Tennessee (UT) College of Engineering (COE), along with several other organizations, sponsored the 2011 Smoky Mountains Regional FIRST Robotics Competition at the Knoxville Convention Center March 31 through April 2, 2011. Forty-six robot teams from 40 states were in attendance.

The FIRST Robotics Competition is a long-standing challenge to inspire curiosity and create interest in science, technology, engineering and mathematics among high school students. Each year, the teams receive a kit of parts and have six weeks to design and build a robot based on the team’s interpretation of the game scenario provided by FIRST. Besides dimension and weight restrictions, the look and function of the robots are up to each individual team.

This year’s game was “LOGO MOTION.” Two alliances of three teams competed on a 27 by 54-foot field with poles while attempting to earn points by hanging as many triangle, circle and square logo pieces as possible. Bonus points were earned for each robot that could assemble and launch logo pieces to form the first logo. Robots also deployed mini-bots that climbed vertical poles for a chance to earn additional points.

These student teams competed for honors and recognition, display excellence, competitive play, sportsmanship and outreach toward schools, arts businesses and communities.

This year, the Hawkins of Harlan Valley won the Rookie All Star Award and the Highest Rookie Seed Award and advanced to the championship held in St. Louis, Mo. The Refrigerants from Crayfish High School in Memphis took the Judges Award and the Webb School of Knoxville student, Ishi Keenan, was awarded the FIRST Dean’s List Award. The Seymour High School team took home the Spirit Award.

Dr. Jeeyoun Park, the first place UT Robotics team, was recently appointed to this position to develop the supportive committees and infrastructure of Tennessee’s annual Smoky Mountains Regional event, as well as to procure the other projects. Robinson handles team recruitment, mentor training, networking sponsorship for team support and coordination of FIRST programs.

FIRST was founded in 1989 by inventor Dean Kamen to inspire participation in science and technology among young people. COE alumni Bryan W. Brassard ’95, AE ’95, MSAE ’87, PhDME ’91, senior manager for research and engineering at Kimberly-Clark Corporation, and his wife, Connie, the FIRST regional director in Georgia, were instrumental in bringing the program to Knoxville.

Connie Haynes believes FIRST has an incredible impact on students.

“There is a way they see the world; it changes their minds on what they can be.”

The Department of Industrial and Information Engineering (IIE) at the University of Tennessee has helped companies within the renovation process by applying the right tools for the right project in helping them to develop a sustainable culture.

Based on that experience, IIE developed a program created specifically for students from Tecnológico de Monterrey, that focuses on the development of comprehensive experience in the Lean methodology and its applications. The concept of Lean has emerged as a feasible solution to transform organizations, gaining competitiveness by the wise use of available resources.

Along with the coursework, the students were given the opportunity to see how the departmental visits and were able to engage in engineering challenges and have the opportunity to juggle their academic careers.

“I learned about all the different types of engineering. I had fun! Thanks to Bechtel and UT for allowing us to come out here,” said student from Soddy-Daisy.

“Dr. Richard Bennett, Director of the Engineering Fundamentals Division, then presented the Engineering Project Awards, which was followed by a project presentation from the winning group.

Most Outstanding Engineering Project Brandon Hambright, Amber Nixon and Torre Ford

Dr. Masood Parang, Associate Dean for Academic and Student Affairs, concluded the event.
College of Engineering Recognizes Achievers at 2011 Faculty and Staff Awards Dinner

The University of Tennessee College of Engineering held its annual Faculty and Staff Awards Dinner on Tuesday, April 7, 2011, at the Foundry in Knoxville. Award winners, COE administration and staff and their guests enjoyed a reception, dinner and awards program. The college’s Board of Advisors and their guests also attended the dinner. COE Dean Wayne Davis, Associate Dean for Academic and Student Affairs Masood Parang and Associate Dean for Research and Technology Bill Danne served as emcees for the event.

The Nathan W. Dougherty Award, the college’s most prestigious honor, was given to Dr. Terry Douglass, President, ProVision Healthcare, LLC. Dr. Douglass’ long and distinguished career includes serving as Chairman of the Board of CTI Molecular Imaging, Inc. (CTI), a public company that specialized in the development, production and distribution of products and services for the medical imaging market from 1983 to 2003, when it was acquired by Siemens. He also served as President and CEO of CTI from its formation in 1983 until 2003. Dr. Douglass was also employed at EGS&G Ortec from 1968 until 1983, where he served as president during his last three years of service. Dr. Douglass graduated with B.S., M.S. and Ph.D. degrees in electrical engineering from the University of Tennessee.

College-wide faculty and staff awards presented at the awards dinner were:

Outstanding Support Staff Awards:
- Carla Lawrence, Department of Materials Science and Engineering
- Moses E. and Mayme Brooks Distinguished Professor Award: Dr. Peter K. Liow, Department of Materials Science and Engineering
- Dr. Michael Berry, Department of Electrical Engineering and Computer Science
- Dr. Jason Hayden, Department of Nuclear Engineering
- Dr. Ramki Kothuramani, Department of Chemical and Biomolecular Engineering
- Dr. Mohamed Mahfouz, Department of Chemical Engineering
- Dr. Stephen Paddison, Department of Mechanical, Aerospace and Biomedical Engineering
- Dr. Greg O’Doherty, Department of Materials Science and Engineering

Outstanding Faculty Advisor Award: Dr. Chris D. Cox, Department of Civil and Environmental Engineering
- Dr. Philip Rak, Department of Materials Science and Engineering
- Dr. John D. Landes, Department of Electrical Engineering and Computer Science
- Dr. Michael Berry, Department of Electrical Engineering and Computer Science
- Dr. Leon and Nancy Cole Superior Teaching Award: Brian Edwards, Department of Chemical and Biomolecular Engineering
- Dr. Moses E. and Mayme Brooks Distinguished Professor Award: Dr. Michael Berry, Department of Electrical Engineering and Computer Science
- Dr. Jason Hayden, Department of Nuclear Engineering
- Dr. Ramki Kothuramani, Department of Chemical and Biomolecular Engineering
- Dr. Mohamed Mahfouz, Department of Chemical Engineering
- Dr. Stephen Paddison, Department of Mechanical, Aerospace and Biomedical Engineering
- Dr. Isaac Alexander, Department of Mechanical, Aerospace and Biomedical Engineering

Outstanding College 2011 Teaching Fellow Award: Dr. Benjamin J. Blakley, Department of Electrical Engineering and Computer Science
- Dr. Brian Edwards, Department of Chemical and Biomolecular Engineering
- Dr. Moses E. and Mayme Brooks Distinguished Professor Award: Dr. Michael Berry, Department of Electrical Engineering and Computer Science
- Dr. Jason Hayden, Department of Nuclear Engineering
- Dr. Ramki Kothuramani, Department of Chemical and Biomolecular Engineering
- Dr. Mohamed Mahfouz, Department of Chemical Engineering
- Dr. Stephen Paddison, Department of Mechanical, Aerospace and Biomedical Engineering
- Dr. Mingjun Zhang, Department of Mechanical, Aerospace and Biomedical Engineering

2011 Research Fellows:
- Dr. Mongi Abdul, Department of Electrical Engineering and Computer Science
- Dr. Hakan Ozis, Department of Materials Science and Engineering
- Dr. Gerd Dachter, Department of Materials Science and Engineering
- Dr. Aly Froh, Department of Electrical Engineering and Computer Science
- Dr. Jason Hayden, Department of Nuclear Engineering
- Dr. Rami Kothuramani, Department of Chemical and Biomolecular Engineering
- Dr. Mohamed Mahfouz, Department of Chemical Engineering
- Dr. Stephen Paddison, Department of Chemical and Biomolecular Engineering
- Dr. Mingjun Zhang, Department of Mechanical, Aerospace and Biomedical Engineering

On March 11, 2011, a magnitude 9.0 earthquake struck the northeastern coast of Japan, followed by a roughly 10-meter tsunami that inundated the coast. This immense human disaster is the cause for approximately 25,000 people dead or missing. The high water level of the tsunami overtopped the seawall at the Fukushima Daiichi nuclear power plant, compromising the emergency generators and wiping away most of the civil infrastructure. The multiple loss of cooling incidents at the nuclear reactors has caused anongoing crisis.

Dr. Howard Hall, Governor’s Chair professor of Global Nuclear Security in the Department of Nuclear Engineering (NEE), addressed some of the issues related to this natural disaster. Hall said the earthquake and tsunami that caused such damage at Fukushima Daiichi were examples of accidents that exceeded what he calls the “design basis accident scenario” for the plant. He said when the disaster occurred, the plant was in trouble because its emergency safety systems were either damaged or destroyed.

But Hall mentioned that even with these facts on the ground, the containment reactor largely worked despite facing earthquake and flooding well above the expected level. According to Hall, the highly radioactive spent reactor fuel, even though some has clearly melted, remained within the facility. Because of this, Hall believes it is critically important the public not fret or be false confidence drive response to the accident.

“I understand the public’s anxiety,” Hall said. “Nuclear issues and risk from proliferation and terrorism are relevant to plants in the U.S., and we will take a hard look at them. We want to achieve deterrence – convincing the terrorists that they don’t want to engage in nuclear mischief or that we are too hard a target.”

The College of Engineering Research Fellows (left to right): Dr. Gerd Dachter; Dr. Hakan Ozis; Dr. Mongi Abdul; Dr. Aly Froh; Dr. Jason Hayden; Dr. Ramki Kothuramani; Dr. Mohamed Mahfouz; Dr. Stephen Paddison; and Dr. Mingjun Zhang. The awards were presented by Dr. Bill Danne (far right)

Lessons to be Learned from Nuclear Disaster

Dr. Howard Hall, Governor’s Chair Professor Discusses Lessons to be Learned from Nuclear Disaster

Governor’s Chair Professor Discusses Lessons to be Learned from Nuclear Disaster

“Some of the issues are likely to be relevant to plants in the U.S., and we will take a hard look at them.”

Most of Hall’s work focuses on controlling and safeguarding nuclear materials and technology for prevention of nuclear incidents that develop into national or international disasters.

“Most of the issues are likely to be relevant to plants in the U.S., and we will take a hard look at them.”

Overall, Hall admits there is much to be learned from the Fukushima incident. “I think the lessons of Fukushima clearly highlight that we need to focus on plant safety and emergency response over a broad range of potential accident scenarios and make sure we have really robust community, regional and national response plans for dealing with disasters,” he said. “Had the plant owner, TEPCO, been able to get an alternate source of backup power to their cooling pumps in time, this accident would have been largely averted.”

Hall said the lessons learned from the incident will spread to the classroom as well. “I think we will definitely be studying this accident for a long time, and the lessons learned from it will be in the curricula for the foreseeable future,” Hall said. “We want to develop curricula on accident scenarios, emergency planning and redundancy of safety systems and their backups will be an outcome. As we get into the dismantlement and failure analysis of the plants, we’ll learn even more that will influence our teaching and research efforts.”

RESEARCH information

FACULTY & STAFF awards

Dr. Howard Hall

The College of Engineering Research Fellows left to right: Dr. Gerd Dachter; Dr. Hakan Ozis; Dr. Mongi Abdul; Dr. Aly Froh; Dr. Jason Hayden; Dr. Ramki Kothuramani; Dr. Mohamed Mahfouz; Dr. Stephen Paddison; and Dr. Mingjun Zhang. The awards were presented by Dr. Bill Danne (far right)

Dr. Howard Hall

“Some of the issues are likely to be relevant to plants in the U.S., and we will take a hard look at them.”
**UT Hosts TLSAMP Awards Banquet in April**

The University of Tennessee (UT) hosted its first Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP) Awards Banquet on Monday, April 18, 2011, at the UT Visitor Center. The event was coordinated by Travis Griffin, director of the Engineering Diversity Office and his staff.

The goal of the TLSAMP program is to increase the enrollment and graduation rate of underrepresented minority students (Hispanic, African-American, American-Indian, Alaskan Native and Pacific Islander) in science, technology, engineering and mathematics (STEM) by at least 10 percent at the end of the five-year period.

Guests were welcomed by Dr. Wayne Davis, Dean of the College of Engineering (COE); and Charles and Annamaria Houston, representatives from the UT 50th Anniversary for African-American Achievement. Students, faculty, administrators and guests were recognized for their exceptional involvement in the TLSAMP program.

Dr. Howard G. Adams, former Executive Director for the National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (GCIM), was the evening’s guest speaker. Adams is the Founder and President of H.O. Adams & Associates, Inc., a Norfolk, Va.-based consulting company that provides human development services and products to educational, governmental and industrial organizations. Adams’ speech was titled, “Making a Successful Transition into Graduate School,” and covered the P’s (Purpose, Preparation, Professionalism, Passion and Persistence).

The program included recognition of faculty and students receiving special honors from TLSAMP, the Society of Hispanic Professional Engineers (SHPE) and the National Society of Black Engineers (NSBE). The ceremony also featured a slideshow during dinner of TLSAMP SHPE and NSBE activities that took place throughout the school year. Cheerleading stunts were made by Dr. Lonnie Sharpe, Executive Director for the TLSAMP program.

Awards presented at the banquet included:
- **SHPE Awards** Outstanding Presenter Award Dr. Ernest Brothers, Assistant Dean for Graduate School
Special Recognition Award Dr. Masoud Parang, COE Associate Dean
- **NSBE Awards** Most Dedicated Member Award Michael Massey, Mechanical Engineering

**ALUMNI profile**

**COE Alumnus Works to Provide Positive Impact on Lives of Others**

Terry Douglas (BSEE ’85, MSEEE ’86, PhD EE ’09) has had his life and career on making the world around him a healthier, better place.

Douglas was born in Jackson, Tenn., in 1942 and lived in the same house until he left to attend UT Knoxville in 1962. Douglas had always been interested in science, math and building new things, so engineering was a natural fit. UT’s strong Concentration Engineering Scholarship Program also provided a financial incentive for Douglas to attend the institution, as it offered a way to pay for his education.

“I had a very blessed period of my life during my years at the university,” Douglas said. “I found that I could do well in my classes and enjoyed the learning experience. Making the UT experience even more gratifying, I had an interesting and useful co-op job in my home town, where I got to see my future wife frequently. We were married in the last quarter of my junior year and lived in student housing for four years until I got my Ph.D. We had our first child around that time and made many good friends, so I remember it very fondly.”

Douglas was employed at EG&G Ortec (Ortec) from 1968 and 1993, and served as the company’s president during his last three years of service. In 1992, Douglas began working on the development of a positron emission tomography (PET) scanner that Ortec was planning to sell off its medical diagnostic imaging division, and the four decided to purchase it to form their own company, that was to become CIT Molecular Imaging (CTI). The development of CTI was to have historic consequences for improvements in medical diagnostic imaging.

“Ron Nutt asked me on July 5, 1983, ‘what are you going to do with the rest of your life?’” Douglas recalled. “And I said, ‘let me tell you an idea that I have for a business.’ We all got together and began to form a company, that was to become CIT Molecular Imaging (CTI).”

After much hard work and financial risk, the fledging company took off and soon established itself as a leader and strong competitor in the development and commercialization of positron emission tomography (PET) technology, including the development of PET scanner and cyclotron technology and PET radiopharmaceutical delivery. Douglas served as president and CEO of CTI from its formation in 1983 until 2003. He also was instrumental in the development of the University of Tennessee’s PET center and obtained reimbursement for PET services.

CTI eventually became a public company in 2002, and Douglas served as Chairman of the Board of CIT Molecular Imaging, Inc. until 2005, when Siemens acquired it.

“CTI made the major strategic and engineering changes necessary to make PET a clinical reality,” Douglas commented. “We had some major engineering changes, including higher performance, cost-effective PET and PET/CT scanners that used new detector technology and higher performance cost-effective cyclotrons and automated chemistry devices. PET’s use in clinical diagnostic imaging is now obviously important.”

Once his affiliation with CTI ended, Douglas turned his attention toward the development of a world-class healthcare program, located at the Provision Health Alliance at Dollywood and managed by ProVision Health Alliance (http://www.provisionhealthalliance.org). Douglas continued. “Then, in 2006, Douglass came over to my house many late afternoons to discuss the plans for what became CIT Molecular Imaging (CTI).”

After much hard work and financial risk, the fledging company took off and soon established itself as a leader and strong competitor in the development and commercialization of positron emission tomography (PET) technology, including the development of PET scanner and cyclotron technology and PET radiopharmaceutical delivery. Douglas served as president and CEO of CTI from its formation in 1983 until 2003. He also

**State-of-the-art cancer care,” Douglas said. “We are providing an equal balance between physical and mental health, research, academic and commercial capabilities that will function at the highest level.”

In addition to his involvement with ProVision, Douglas has served or is serving on the following boards: YMCA, Knoxville Chamber of Commerce, Hope Resource Center, Young Life, the UT College of Engineering Board of Advisors, the UT Chancellor’s Council and the UT College of Engineering Research Center at the UT Medical Center. CIT established a $1 million endowment to initiate the CIT Biomedical Research Center at the UT Medical Center. In 2006, Douglas and other CIT partners gave an additional gift of $1 million to the university to establish a new CIT Chair in the Department of Electrical Engineering and Computer Science (EECS). The announcement of the gift was made at the college’s Honors Banquet where all four partners were reunited to present the funding.

Dr. Richard Bennett, Engineering Fundamentals; Dr. Lonnie Sharpe, Biomedical Engineering; Aeron Glover, Dr. Richard Bennett and Dr. Lonnie Sharpe

In his remarks, Douglas said that he was “honored and humbled by the award” and added that he was “blessed and thankful for all the many contributions made by the university and its staff to his education and career.”

Douglas is married to Rosann Bobbitt Douglas and they have three married children (Deborah and Lance Robinson, Melissa and Norris Hill and Lance Robinson, Melissa and Norris Hill) and 10 grandchildren (Wesley, Luke, Aaron, Bailey, Brianna, Alexandra, Amira Rose, Travon, Walker and Marnie).
**College of Engineering Holds Spring 2011 Commencement**

The College of Engineering Spring 2011 graduation ceremony took place on Wednesday, May 11, with over 250 engineering graduates participating in the ceremony. A group of approximately 2,500 parents, friends and relatives attended the event, 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 academic deans, department heads and faculty representatives. Dr. Jimmy G. Cheek, chancellor of the UT-Knoxville campus, also attended the ceremony.

Mr. Spruell Driver, a 1987 industrial engineering alumnus, was the commencement speaker. Driver, a practicing attorney who received his law degree in 1991 from Duke Law School, is a current member of the College of Engineering's Board of Advisors.

A highlight of the event was when Jacob Okumu Oyier, a student from Kenya, and Mark Edmund Tominey, a student from England, received their degrees at the end of the ceremony. The two civil engineering majors had just been granted status as U.S. citizens in a ceremony that took place at 8:00 a.m. in Greeneville, Tenn. and had to rush back to Knoxville to get to their graduation event.

"The coincidence of the two events being on the same day was a very big blessing to me," Oyier said. "It was exciting."

"It was a little nerve-wracking, but very exhilarating," Tominey said. "My parents had traveled all the way from England to see me graduate and my wife and two sons were there too, so I was really happy it worked out so well."

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"It was a little nerve-wracking, but very exhilarating," Tominey said. "My parents had traveled all the way from England to see me graduate and my wife and two sons were there too, so I was really happy it worked out so well."

**ALUMNI news**

**1960s**

Donald B. Bivens (BSICE '62) has received a Distinguished Service Award from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) at the society's 2010 annual conference. The Distinguished Service Award recognizes members of any grade for freely giving of their time and talent on behalf of the society. Bivens is an independent refrigerant applications consultant in Kennett Square, Pa.

**1970s**

Dr. Thomas F. Christian, Jr. (MS/Engineering Admin. '76) was appointed to the Executive Service by the Secretary of the Air Force. He is now the director of the Center for Systems Engineering at the Air Force Institute of Technology at the Wright-Patterson Air Force Base in Ohio. Christian is a certified professional engineer, a certified professional logistician and a fellow of the American Society of Mechanical Engineers.

**1980s**

Duff Zimmerman (BSICE '82) has been named the Immediate Past President of the Steel Erectors Association of America (SEAA) for the 2011-2012 program year. The SEAA is a nonprofit trade association founded in 1972 that focuses on collaboration between companies, standardizing processes, sharing knowledge and educational opportunities to get all engaged in steel construction projects. Zimmerman works for Cooper Steel in Shelbyville, Tenn.

**1990s**

Laura C. Taylor (BSICE '94), technical lead-virolinomedical engineer for Wyle Integrated Science and Engineering, has been selected as a recipient of the Department of Defense's personal achievement award, the Silver Snoopy.

This award is presented to individuals within the NASA, industry and international partner space flight team for outstanding contributions to mission safety and success. Less than one percent of the total NASA/contractor workforce receives the Silver Snoopy award annually. Taylor resides in Sugar Land, Texas.

**2000s**

Dr. William D. Kelsohull (BSICE '65) died on March 12, 2011. He was a resident of Chucksvile, Md.

Dr. Robert “Ronnie” W. Stevens (BSIE '66) died on June 9, 2011. He was a resident of Memphis, Tenn.

Albert R. Cooper (BSIE '69) died on April 29, 2011. He was a resident of Chattanooga, Tenn.

**1970s**

Lt. Col. Reser E. Bridwell, Jr. (MSIE '73) died on April 9, 2011. He was a resident of Fort Walton Beach, Fla.

Eric N. Barger (BSME '74) died on May 30, 2011. He was a resident of Knoxville, Tenn.

Richard A. Wilson, Sr. (MSIE '94) died on June 16, 2011. He was a resident of Buckey, Ky.

**1990s**

Michael W. Lindsay (BSIE '93) died on April 22, 2011. He was a resident of Winston-Salem, N.C.

**2000s**

Dr. William L. Grecco, professor and head of the Department of Civil Engineering from 1972 to 1985, died on Tuesday, April 12, 2011. Grecco presided over an era of rapid growth for the department in both size and research dollars. He was also an associate dean for the College of Engineering under former dean and Chancellor Emeritus Dr. Bill Snyder.
COE Faculty and Staff Recognized at 2011 Chancellor’s Honors Banquet

Five College of Engineering (COE) faculty members and one member of the COE staff were recognized at the 2011 Chancellor’s Honors Banquet held on April 11-11, at the University Center. The awards are as follows:

Dr. Michael Berry, Electrical Engineering and Computer Science (EECS) professor - 2011 L.R. Hepler Award. This award is bestowed to faculty with outstanding teaching abilities and service to the university community.

Dr. Aly Fathy, Electrical Engineering and Computer Science (EECS) professor - 2011 Alexander Prize. This honor is awarded to a faculty member who exhibits excellence in teaching and research.

Dr. Fran Li, Electrical Engineering and Computer Science (EECS) assistant professor - 2011 Professional Promise in Research & Creative Achievement Award. This honor is given to tenured or tenure-track faculty members at the assistant or associate professor rank who have received national and/or international recognition in their fields and show professional promise for their research and creative achievement.

Dr. Lynne Parker, Electrical Engineering and Computer Science (EECS) professor - 2011 Professional Promise in Research & Creative Achievement Award. This honor is given to tenured faculty who have received national or international recognition in their field.

Dr. Philip Rack, Materials Science and Engineering (MSE) professor - 2011 Research & Creative Achievement Award. This award is given to tenured faculty who have achieved national or international recognition in their field.

Dr. Lisa Byrd, Engineering Advising - 2011 Excellence in Advising Award. This honor is awarded to faculty and advisors exhibiting excellence in advising.

UT Hosts 2011 Institute of Industrial Engineers Mid-Atlantic Regional Student Conference

The University of Tennessee, Knoxville chapter of the Institute of Industrial Engineers (IIE) hosted the 2011 Mid-Atlantic Regional Student Conference on February 24-26, 2011. The event attracted over 125 students and over 50 professionals from the region. Institutions represented included Clemson University, North Carolina A&T State University, North Carolina State University, Tennessee Technological University, University of Tennessee-Knoxville, Virginia Polytechnic Institute and State University and West Virginia University.

The conference featured speakers from the Knoxville region, including alumni, professors and supporters of UT. The students participated in games and tours, and coincidentally were able to test drive the new Nissan Leaf at World’s Fair Park (in conjunction with the Knoxville Car Show). Keynote speaker for the event was Dr. Sidney Gillbreath, BS/IE ‘58, MSIE ‘62, former president of Institute of Industrial Engineers. The conference was supported by the UT College of Engineering, American Accessories International, IIE Headquarters and IIE National Chapter.

The UT Electric Vehicle Team at the awards presentation in Washington, D.C.

Graduating Prados Scholars at the University of Tennessee Recognized at Luncheon

Shelley Parker of Alton, Tenn., and Jacob Buchkovich of Knoxville, Tenn., were honored at a May 5, 2011, luncheon recognizing their accomplishments as The University of Tennessee’s John W. Prados Chemical Engineering Scholarship graduates.

Students awarded the Prados scholarship are mapping in chemical engineering while also pursuing a minor in business and participating in the Engineering Professional Practice co-op program. Parker worked five rotations with Dow Chemical Company. Buchkovich worked three co-op rotations with Eastman Chemical in Kingsport and served as the lead ambassador for two years in the Engineering Professional Practice Office co-op ambassador program. UT alumnus J. Michael Stone (BS/IE 63, MSIE 65) created and sponsors the Prados scholarship recognizing their accomplishments as The University of Tennessee’s John W. Prados Chemical Engineering Scholarship graduates.


NE Student Receives Goldwater Scholarship

Mark Walker, a nuclear engineering major, has been awarded a 2011 Barry M. Goldwater Scholar. The Goldwater Scholarships are awarded on an annual basis to sophomores and juniors pursuing research careers in mathematics, the natural sciences or engineering.

Walker is a member of the Chancellor’s Honors and Haslam Scholars program. He has been actively researching at the Oak Ridge National Lab (ORNL) since the summer after his freshman year. He also had an internship with the Department of Energy in Washington, D.C., last summer. Walker’s most current research at ORNL involves nuclear safeguards, and he hopes to continue his research and pursue policy development in nuclear security after earning his Ph.D. in nuclear engineering.

In 2011, the Goldwater Foundation awarded 175 scholarships nationwide out of a pool of almost 1,100 applicants. Students who compete for the award must be nominated by their academic institution. All three students nominated by UT received Goldwater scholarships, and UT received more awards than Yale, Caltech, MIT and Georgia Tech.


COE Students Compete in EPA National Sustainable Design Expo

An interdisciplinary team of undergraduate and graduate UT-COE students traveled to Washington, D.C., for the EPA’s National Sustainable Design Expo held on the National Mall on April 15-17. The team competed with 55 other teams across the U.S. and received an Honorable Mention award for the one-person electric vehicle they built.

The UT Electric Vehicle Team at the awards presentation in Washington, D.C.
Tennessee’s College of Engineering established one of the nation’s most...
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Calendar

Fall 2011
- Fall Break: Sept 29-30
- 1st Session Ends: Oct 7
- 2nd Session Begins: Oct 10
- Thanksgiving: Nov 25-26
- Classes End: Nov 29
- Exams: Dec 1-5
- Graduate Hooding: Dec 8
- Commencement: Dec 9
- Official Graduation Date: Dec 9

Spring 2012
- Classes Begin: Jan 11
- MLK Holiday: Jan 16
- 1st Session Ends: Feb 29
- 2nd Session Begins: Mar 1
- Spring Break: Mar 19-23
- Spring Recess: April 6
- Classes End: April 27
- Exams: May 1-7
- Commencement: May 9-11

Contact Information

Senior Administration
- Dean of Engineering
- Associate Dean for Research & Technology
- 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

Spring 2012
- Classes Begin: Jan 11
- MLK Holiday: Jan 16
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- 2nd Session Begins: Mar 1
- Spring Break: Mar 19-23
- Spring Recess: April 6
- Classes End: April 27
- Exams: May 1-7
- Commencement: May 9-11

Engineer’s Day October 27th, 2011

Engineers Day has been a UT College of Engineering tradition for nearly 100 years. Each October, undergraduate engineering classes are dismissed for one day to allow university students and faculty to spend time interacting with hundreds of potential engineering students from high schools across the region. Engineers Day features four competitions for visiting students. Results for last year’s Quiz Bowl, Egg Drop Competition and ASCE High School Balsa Wood Bridge Competition can be found on the Competitions page.

If you would like more information on this event contact the Engineering Student Affairs office at (865) 974-2454.