The College of Engineering has named William (Bill) M. Dunne as the new Associate Dean for Research and Technology. Dunne is the former Associate Dean for Research, Facilities and Graduate Student Policies for the UT College of Arts and Sciences (CAS). In his previous position, Dunne worked to strengthen the quality of research, scholarship and creative activity throughout CAS.

Dunne received his B.S. and Ph.D. in geology from the University of Bristol, England. He joined the UT Arts and Sciences faculty in 1988 in the Department of Geological Sciences after becoming a tenured associate professor at West Virginia University in 1986.

Dunne’s facilities activities within CAS included supervising everything from minor repairs to renovation projects for entire buildings. He has also been involved in the planning for the Joint Institute of Advanced Materials (JIAM) building, a construction project on the Cherokee Farm Campus that involves the participation of both the COE and the CAS.

“I decided to apply for and later accept the position with the engineering college because as an entity it has a ‘can-do’ attitude,” Dunne said. “In fact, over 65% of our funding comes from sources other than the state and tuition. We have a clear intent to increase this funding through two sources—the growth of research dollars and a strong development effort. We are well on track to see results from both of those areas.”

In his role as associate dean, Dunne is monitoring construction of the college’s two new facilities, the Min H. Kao Electrical Engineering and Computer Science Building and the Civil and Environmental Engineering/Industrial and Information Engineering (CEE/IIE) Building as well as continuing his efforts with the JIAM building project. Additionally, he is working to see a timely completion of renovation of the fire-damaged space in Dougherty Hall by the end of December, 2009. He hopes that a renovation proposal submitted by a faculty team led by Dr. Wes Hines, Dr. Bamin Khomami and Dr. Bill Hamel to the National Science Foundation for a $2 million upgrade will be approved. The proposal will help create upgraded
We are hoping to begin construction on the CEE/IIE building. The groundbreaking date for the CEE/IIE building was lost time later in 2009 with double teams. The contractors are planning to make up for any somewhat hampered by damp weather this year, the office is now fully staffed with three capable individuals, and we hope to continue a record of helping the faculty of CEE to achieve greater funding success.

The construction effort is currently planned for completion in 2011. Dunne hopes to see the building on the job site before the end of that year. Although construction efforts have been somewhat hampered by damp weather this year, the contractors are planning to make up for any lost time later in 2009 with double teams. The groundbreaking date for the CEE/IIE building has been set for Tuesday, December 1, 2009.

We are hoping to begin construction on the CEE/IIE building in the early summer of 2010,” Dunne said. “The building plans are being revised to include all of those departments, and we are awaiting approval from the State Building Commission to move ahead with the design and engineering for this building project. It will be very exciting to have two departments in the same facility, and it is very important to me that the two operate out of their current location in East Stadium Hall.

The UT system is presently working to get infrastructure in place on the Cherokee Farm Campus, and Dunne hopes that construction on JIAM will begin shortly afterward by mid-2010.

“The program mission for JIAM has undergone a change due to the state’s new support and focus on solar energy,” Dunne said. “We’re still trying to gather information about that effort, which does not yet have a final federal approval, but we can focus on an approved design for the building.”

Once the final construction is completed on the Min H. Kao Building, the CEE/IIE Building and JIAM, the college will have over 250,000 square feet of facility space. If the NSF proposal is approved, the Dougherty Engineering Building will also have upgraded laboratory areas to enhance the college’s research mission.

Our graduate ranking has now increased from 81st in the nation six years ago to 68th in this year’s rankings and 46th among public universities. This graduate ranking is reflective of our 68% increase in post-graduate funding and 115% increase in the number of Ph.D. students graduated over that same time period.

As Tennessee’s Land Grant Engineering College, we constantly strive to provide a high quality education to our students and to ensure that we are providing our state, our nation and the world with engineering graduates who can go out and make a difference. Despite the economic uncertainties of the times, many of you have been very generous in giving back to the university and helping us to move forward in all fronts including endowments, the College Fund for Engineering, departmental and buildings, as well as supporting the college with your time and suggestions for improvement.

As former students of the college, and now as engineers, top executives and entrepreneurs positioned in every state in the U.S. as well as in countries around the world, your feedback is critical to us. I have begun traveling extensively to meet you to obtain that feedback. In the spring we held events in Austin, Los Angeles, San Jose and Knoxville to bring together alumni, donors and other friends of the college. Events scheduled for the remainder of 2009 include Orlando, Homecoming (Knoxville), Atlanta and Memphis (see page 13 for more detail). If you would like to join us at one of the upcoming events, please take a minute to fill out the enclosed envelope included with this newsletter to provide us with your comments and to let us know about your accomplishments.

We thank each of you for your encouragement, support and involvement. We are committed to providing a truly extraordinary education to our engineering students and to advancing knowledge in the multiple fields of engineering. Together, we can ensure that our graduates will have an even greater impact in improving the world in which we live.

Sincerely,
Wayne Davis
Dean of Engineering

The UT Knoxville College of Engineering recently named three outstanding professors as University of Tennessee-Oak Ridge National Laboratory Governors Chairs.

The Governor’s chair program, funded by the state of Tennessee and ORNL, attracts top scientists to build and enforce the unique research partnership that exists between the state’s flagship university and the nation’s largest multiprogram laboratory.

The initiative is primarily designed to provide an opportunity for accomplished researchers from around the world to enhance joint research efforts that position the partnership as a leader in the fields of biological science, computational science, advanced materials and neutron science. Over $27 million in designated funding from the state and ORNL is being invested to recruit and fund the positions, including resources to support new research programs.

In March 2009, the college appointed Howard Hall, a nuclear chemist and expert in preventing and responding to nuclear terrorism, as the third UT-ORNL Governor’s Chair.

Hall comes to UT from Lawrence Livermore National Laboratory (LLNL), where he was the radiological detection and response program leader. Hall has spent the majority of his career at LLNL, where he served in a number of positions since 1989, beginning with a post-doctoral fellowship. He worked on a number of projects in cooperation with the Department of Homeland Security’s Science and Technology Directorate and also led the laboratory’s divisions for radiological and nuclear countermeasures and nuclear assessments and forensics.

Hall received his bachelor’s degree in chemistry from the College of Charleston and earned his doctorate in nuclear chemistry at the University of California, Berkeley. As a Governor’s Chair, Hall will hold appointments in the UT Knoxville Department of Nuclear Engineering as well as the global nuclear security division at ORNL. He will coordinate resources, programs and research initiatives between the two institutions.

In June 2009, the college named Yilu Liu, an expert in the technologies used to monitor power grids and a researcher in ways to create the next generation “smart grid,” as the fourth UT-ORNL Governor’s Chair.

Liu, previously the director of the Center for Power Engineering at Virginia Tech, holds appointments at ORNL’s energy and transportation science divisions and is a professor in the engineering college’s Department of Electrical Engineering and Computer Science.

Liu’s work focuses on developing new and better ways to monitor and understand the flow of energy through the nation’s power grid on a large scale. While at Virginia Tech, she led the creation of PNET, the North American power grid monitoring network, which her group continues to operate.

She has also researched methods to develop the “smart grid,” a term used to describe the next generation of transmission technology that will move energy more efficiently and effectively from where it is generated to where it is used.

In her Governor’s Chair position, Liu has the opportunity to further her research by taking advantage of the advanced resources and expertise available at both UT Knoxville and ORNL. The Laboratory’s Office of Technology Transfer and Development Program conducts about $270 million in research each year.

Liu has spent her entire postdoctoral career at Virginia Tech. She began as an assistant professor in the school’s department of electrical engineering in 1992, rising to the rank of full professor in 2001. Liu earned her master’s degree in electrical engineering from Xian Jiaotong University in Xian, China, in 1989.

In August 2009, Dr. Thomas Zawodzinski was named as the Governor’s Chair in Electrical Energy Storage. Zawodzinski is the third Governor’s Chair in the engineering college and the fifth for the university.

Zawodzinski received his Ph.D. in chemistry from State University of New York in Buffalo, N.Y. His thesis work, under the supervision of Robert E. Rundle, dealt with the physical and chemical studies of ambient liquid temperature ions.

Zawodzinski is an internationally recognized leader in the field of fuel cells, bridging fundamental and applied studies to drive innovation in materials and cell design. He has also carried out prior work on batteries, most notably on transport in materials for lithium batteries.

Zawodzinski was previously the F. Alex Nason Professor of Engineering, the Ohio Eminent Scholar for Fuel Cells and the Director of the Case Advanced Power Institute in the Department of Chemical Engineering and the Case Western Reserve University. During his tenure at Case, he led a highly successful multi-university, multi-institutional, multi-disciplinary program in the field of energy storage. Zawodzinski led efforts to build the Wright Fuel Cell Group, totaling a $20 million capital grant to establish a university-industry consortium in Ohio.

Zawodzinski will be based in the Department of Chemical and Biomolecular Engineering Department at UT Knoxville and in the Physical Chemistry and Materials group at ORNL. From this basis Zawodzinski will help to expand and develop multi-disciplinary programs in electrical energy storage, fuel cells and other relevant areas.

Other UT-ORNL Governor’s Chairs include:

Jeremy Smith, a computational biologist, who came to UT Knoxville and ORNL from the University of Heidelberg in Germany. He was appointed in 2006.

Aleksi Sokolov, a polymer scientist who came to UT Knoxville and ORNL from the University of Aachen. He was also appointed this year.
It wasn’t too long ago that Dr. Zhili Zhang, assistant professor in the Department of Mechanical, Aerospace and Biomedical Engineering (MABE), was at his father’s side as the older man worked on China’s railway system. The time spent at his father’s job piqued young Zhang’s interest in engineering.

“I would sit by the tracks and count how much cargo a train could take in a few hours,” Zhang said. “That experience led me to mechanical engineering.”

Zhang received his bachelor’s in mechanical engineering from Tsinghua University in 2000. He continued his education at Princeton University where he received both a master’s in 2002 and as a doctorate in 2005 with both degrees in aerospace engineering.

“Teaching is one of my favorite parts of being a faculty member,” he said. “Every time I enter the classroom, Zhang can be found jogging on the outdoor track located just across from the Student Union or reading a book in the library taking advantage of the campus’s many recreational and academic activities.”

Zhang’s current area of research concerns laser diagnostics. He uses lasers to measure different fluid phenomena, and a lot of times, he said, measurement is not the only goal.

“The great friction of the air around those high speed vehicles creates a thin layer in which some gases are ionized,” Zhang commented. “This causes the usual refractivity blackout. The project measures how fast the layer can be generated and how long it will last. With accurate measurement, the research will help make hyper sonic flight more plausible.”

Conducting research is but one facet of Zhang’s role. He is eager for new knowledge.

“In my graduate studies, I focused on the basic knowledge is the building block for any student, and without the understanding of those physics, students would forget what they have learned,” Zhang said. “I spend time with beginning students helping them to identify research problems and sharing my experiences,” he added. “As they progress, I leave open research problems and give them freedom to explore the field. I feel that I can help them learn, and they will in turn help the world.”

Zhang’s upcoming research thrust will provide even further insight into the reality of hypersonic flight.

“My next project examines the jet in the supersonic boundary layer,” he explained. “It will help our understanding of fuel injection in combustion to enhance fuel-air mixing, flow cooling to protect turbine blades or combustion liner and flow control to manipulate muscle motion or reduce aero -acoustic distortion, amongst other goals.”

Zhili Zhang (left) and Dr. Zhili Zhang (right)

Jialin Zhang

Dr. Zhili Zhang, Department of Mechanical, Aerospace and Biomedical Engineering

Department at UT where his research areas include fluid mechanics, aerodynamics, optics and lasers.

“MABE puts a lot of emphasis on and effort into building a leading aerospace engineering program in the United States,” he said. “I want to contribute to that effort.”

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Zhang is married to Meng Zhao, and they have a two-year-old son, Daniel. When not in the lab or classroom, Zhang can be found jogging on the Third Creek Greenway in Tyron Park near campus.

“It’s definitely worth trying for everybody—the surroundings are beautiful,” he said.

Zhang stated hypersonic vehicles in 2004, and many research questions remain open today. Zhang’s research could help the process of building hypersonic vehicles.

“I hope I can take a real hypersonic flight sometime in my life,” Zhang concluded.

Story by L. Ashley Susong

01/28/09

Penmanud Named as CEE Department Head

Dr. Zhili Zhang, Department of Mechanical, Aerospace and Biomedical Engineering

Dr. Dayan Penmanud has been named as the interim head of the University of Tennessee Department of Civil and Environmental Engineering (CEE) since 2007. He has been named as the permanent head and Fred M. Peakes Professor, effective immediately.

Penmanud received his Bachelor of Science degree from the Birla Institute of Technology and Science in Pilani, India, two Master of Science degrees, one from the University of Kentucky and the other from Purdue University, and his Ph.D. from the Georgia Institute of Technology, all in civil engineering.

Penmanud joined the College of Engineering faculty in 2001. He was previously on assistant professor at Clarkson University in Potsdam, N.Y.

Penmanud currently holds the Jia Xing Institute for Advanced Materials (JIAM) Chair of Excellence. He is also currently serving as the Principal Investigator for a Brain Beam Project Proposal at Oak Ridge National Laboratory. award was obtained from the Applied Science to the forensic reconstruction of fire scenes. Jie and DeHaan are two of the most experienced fire scientists in the U.S.

ECCS’s Boulet Named Faculty Senate President

Dr. Jeff Reinbolt has joined the Department of Mechanical, Aerospace and Biomedical Engineering (MABE) as an assistant professor. He received a Ph.D. in mechanical engineering from the University of Florida.

Prior to coming to the University of Tennessee, Reinbolt was an Engineering Research Associate at Stanford University at the Center for Magnetic Recording and the National Center for Bioinformatics, which is one of seven National Centers for Bioinformatics and Computational Biology.
The Path Least Taken: Reliability and Maintainability Ph.D. Student Jamie Coble

Coble received her bachelor’s degree from UT in May 2005 in nuclear engineering and mathematics with a minor in engineering communications and performance. Coble began working with Dr. Wes Hinshaw, professor of nuclear engineering and director of RME, shortly after beginning her graduate studies in the fall of 2005. Hinshaw’s research areas include online monitoring for fault detection, diagnostics and prognostics. The pair has been working together for nearly four years.

“I must Jamie to give lectures and presentations when I’m unavailable,” Hinshaw said. “She’s always willing to help, even with projects that don’t necessarily concern her research.”

Coble’s master’s research included various projects, including sensor calibration interval extension studies for the Nuclear Regulatory Commission, electronic prognostics for the Joint Strike Fighter, safeguards monitoring and prognostic method development. Her doctoral research focuses on identifying optimal prognostic parameters from data in an automated way.

“A great deal of the work I did, and the field of prognostics in general, is based on traditional reliability analysis, so the RME program was a natural fit for me,” Coble explained. “The courses I took to complete the degree have helped me understand the background of and the need for accurate and timely prognostic estimates.”

Coble has not spent all her time at UT conducting research. For four years, she worked with Dr. Bob Kromick, professor in UT’s College of Education, Health and Human Sciences, to promote full service school programs at low-income communities.

That program provided approximately 25 students in grades 3-5 with tutoring and homework help along with enrichment activities with the help of nearly 50 UT volunteers.

“Working with Dr. Kromick has certainly been one of the most rewarding parts of my college career,” Coble added.

Coble aims to continue her research after leaving UT, most likely at a national lab. Pacific Northwest National Lab, Idaho National Lab and NASA-Ames all conduct monitoring, diagnostics and prognostics research and therefore are possible future employers for Coble. Publishing work at conferences and in scholarly journals is an important facet of working at a national lab, and Coble already has a head start: her research has been published extensively with fourteen publications to date with additional articles pending.

“Eventually, I would like to return to academia to teach,” Coble said. She instructed a summer course in prognostics at UT to gain teaching experience and gauge her aptitude for the process.

The application of reliability and maintainability engineering burgeons across many sectors of industry, from private production to research all the way to government-funded military and energy industry, from private production to research all the way to government-funded military and energy industry. Coble’s primary goals is to monitor the effects of acid deposition on water quality. The acid comes primarily from coal-powered plants and automobile emissions to the west of the park. Schwartz and his team of researchers, in conjunction with nontechnology conservation group Trees Unlimited monitor streams in the park every two months. They also monitor rainwater, stream and soil water at Noland Divide, a long-term research station near Clingman’s Dome. Water samples are analyzed for chemical parameters in the department’s Water Quality Laboratory. The Noland Divide Research Station provides a unique area to analyze collected samples because monitoring has occurred since 1991.

“One of the remaining key questions is how much sediment in streams is bad for aquatic biota,” Schwartz commented. “We’re using a methodology to analyze in-stream sediment to determine biological impairment in a very quantifiable way. We’re coordinating this research with the U.S. Department of Agriculture’s National Sedimentation Laboratory, and recently completed a project in the Dakotas for the US EPA. Schwartz and his group are using Beaver Creek in Knox County as a test site for the study of sediment issues.

“Beaver Creek has become an area of concern due to urbanization and rapid development,” Schwartz added. “We’re working with the Tennessee Water Resources Research Center on the restoration project in the Halls area of Knox County right now.”

Overall, Schwartz hopes that his research will foster a greater understanding of how to mitigate damages to streams from water quality degradation, land use and hydrology changes, channel erosion and excessive instream sediment. “We’ve received a great deal of support for our work,” Schwartz said. “I’m hoping that we can continue to research ways to improve our environmental resources,” Schwartz said.

Story by Kim Cowart

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COE Commencement Speaker Kim Greene (left), Chancellor Jimmy Cheek (center) and COE Dean Wayne Dr. Wayne Davis, dean of UT-Knoxville campus at 11:30 a.m. place on Wednesday, May 6, with Engineering has been conferring Since 2004, the College of Energy (DOE) in Oak Ridge. It was during that time he pursued a masters degree in petroleum and Afghan National Army/Police. Mansel was the Navy’s Chief Engineer as a master’s degree in petroleum and mechanical engineering. His management; and Lisa Dawn Zachary, electrical engineering; and Kevin Boyd, electrical engineering; and Lisa Dawn Zachary, mechanical engineering. set up leaks fields and septic systems, along with communication systems for each FOB. All of this was done under extreme weather (up to 14°F in the summer) and dangerous combat conditions. “Many of the courses I took at UT dealt with project and program management along with acquisition management,” he said. “Those courses helped considerably at the Navy’s Chief Engineer in southern Afghanistan.” Mansel received a Bronze Star Medal and two Combat Action Ribbons while in Afghanistan. He has since returned, working at the DOE Headquarters in Washington, D.C. “My advice for all students is to look around and see what needs to be ‘fixed’ and make an effort to accomplish that task,” Mansel said. “Make sure you attain that degree and strive for a higher one, along with any additional certifications—you have to make yourself marketable because no one else will.” Mansel concluded. “I utilized the skills and management techniques attained at UT and was able to complete projects and see the results put them to good use.” Story by L. Ashley Savage.

Students celebrate the 2009 Spring Commencement

Flying High — Ron Turner

The old adage “some people don’t know when to quit” certainly applies to Ron Turner (BS/AF ’68). The former chairman, president and CEO of Ceridian Corporation isn’t ready to sit in a rocking chair during his retirement—he is currently an active pilot with his jet in a charter service located in Jacksonville, Fla. Turner flies flying duties with three other pilots. Turner grew up on the soil of Lauderdale County farmer in rural West Tennessee. His mother was the deputy court clerk. The road from Ripley, Tn, to the University of Tennessee Knoxville was a long one in the days before interstate travel, but Turner was determined to attend the university because of its successful engineering programs. I was always interested in aviation,” Turner said. “I was one of the first three graduates of the aerospace engineering program under Dr. Manchill Mulligan.” During Turner’s sophomore year, he received an Air Force ROTC scholarship. He eventually became the unit’s Wing Commander. After graduating with his bachelor’s degree in 1968, he was commissioned in the U.S. Air Force and served for over five years in the USAF Systems Command, where he was involved in fighter aircraft flight testing. He also managed the development of the lasers program and the missile and guidance concept that has evolved into what is now known as the global positioning system (GPS). Turner continued his education, receiving a master’s degree in aerospace engineering from the University of Florida in 1971 and a master’s in management from the Massachusetts Institute of Technology (MIT) in 1977, where he also was named as a Sloan Fellow, a select leadership program for business executives. In 1973, Turner accepted a position with Martin Marietta Corporation. He stayed with the company for over 34 years. He held numerous positions, including head of corporate strategic planning, president of a commercial division, general manager of the Electronic Systems Division and vice-president of Tactical Intervention Systems in the Orlando Aerospace Division. He also managed the development and manufacturing programs in the missile, guidance, communications and electronics disciplines. He managed the transition of the development and deployment of the PBIC nuclear ballistic missile system. From his association with the university, Turner knew the importance and capabilities of the Oak Ridge Complex and he led Martin Marietta’s decision to move to East Tennessee. "When Union Carbide opted out as lead contractor for the Department of Energy’s Oak Ridge complex, I initiated the proposal activities that brought the Martin Marietta to Tennessee," Turner commented. Turner accepted the position of President and Chief Executive Officer with General Electric Company-Marchant Systems, a company based in the United Kingdom, in 1987. After six years with GEC, he moved on to the Ceridian Corporation, an S&P 500 company (formerly known as Control Data Corporation). Turner retired from his role as chairman, president and CEO in June 2006.

Turner has served on numerous corporate boards. He also has been a member of the Business Roundtable, chairman of the Government Electronics and Information Technology Association and chairman of the Electronics Industries Alliance (EIA) that represented over 2,000 of the world’s electronics corporations with a combined value of almost one trillion dollars in revenue.

Turner is also a member of the UT Development Council and currently serves as the cochair of the College of Engineering’s Campaign Executive Committee, part of the university’s Campaign for Tennessee. I am absolutely loyal to UT,” Turner said. “I’m very impressed by the size of our alumni base and the support that is shown to the university. I had a great career, but now that I am retired, I’m glad that I have more time to support UT and the College of Engineering. The college is a national resource, especially in the energy and environmental disciplines, and it is getting stronger every year. Turner has recently designated a $1 million gift for the college from his personal estate. He also designated an equal amount for athletic scholarships.

“We are thrilled with the outstanding support that Ron has shown for the college and the university,” said Dorothy Byrnes, the COE’s Interior Senior Development Director. “He is an inspiration to all of us.”

Turner lives in Waynes, Minn. with his wife, Catherine. The Turners have four children. Story by Kim Cowart

COE Astronaut Visits UT Campus

Colonel Hank Hartfield Jr., who received his M.S. degree from the UT Space Institute, visited the university on Tuesday, September 15, 2009. Hartfield is a former NASA astronaut and U.S. Air Force Pilot. Hartfield served as pilot of the fourth and final test flight of the Columbia space shuttle, and in 1994 he was the commander of the initial voyage of Discovery and commanded the Challenger on the German D-3 Spaceflight Mission. Hartfield was a keynote speaker at the “Career Success for Engineers Kickoff” coordinated by UT Career Services and cosponsored by UT Alumni Affairs.

COE Commencement Speaker Kim Greene (left), Chancellor Jimmy Cheek (center) and COE Dean Wayne Davis call of duty: Wendell Mansel

It’s no secret that an education from UT’s College of Engineering will help prepare students for the successful life they can attest to. Before coming to UT, Mansel held two bachelor’s degrees in mechanical engineering and environmental sciences as well as a master’s degree in petroleum engineering. As an Engineering Duty Officer in the U.S. Navy Reserve (Commander, CV), he was also employed at the Department of Energy (DOE) in Oak Ridge. It was during that time he pursued a masters degree in petroleum and mechanical engineering. He received a Boeing Star Medal and two Combat Action Ribbons while in Afghanistan. He has since returned, working at the DOE Headquarters in Washington, D.C. "My advice for all students is to look around and see what needs to be ‘fixed’ and make an effort to accomplish that task,” Mansel said. “Make sure you attain that degree and strive for a higher one, along with any additional certifications—you have to make yourself marketable because no one else will.” Mansel concluded. “I utilized the skills and management techniques attained at UT and was able to complete projects and see the results put them to good use.” Story by L. Ashley Savage.

Students celebrate the 2009 Spring Commencement

Since 2004, the College of Engineering has been conferring diplomas during smaller, more individualized graduation events. The College of Engineering Spring 2009 graduation ceremony took place on Wednesday, May 6, with over 225 engineering graduates participating in the ceremony. A group of approximately 2,200 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 UT’s chancellor, provost and vice chancellor, associate dean, department heads and faculty representatives.

Ms. Kimberly Schriebe Greene, Chief Financial Officer, Chief Risk Officer and Vice President of Financial Services for the Tennessee Valley Authority was the commencement speaker. A native of Knoxville, Greene received her bachelor of science degree in engineering science from the University of Tennessee. In her address, Greene outlined lessons that she had learned from her own career path and advised students to be flexible, realize everything happens for a reason, keep a positive attitude, take advantage of opportunities, set a goal and check on their moral compass.

The college’s top students were also recognized. Christopher Patrick Boyd, electrical engineering; Kevin Lee McHale, industrial engineering; Seth Hunter Fanson, mechanical engineering; and Lisa Dawn Zachary, mechanical engineering.

The event featured a military ceremony, where Lt. Colonel Michael S. Angle, a professor of aerospace studies at UT, officially commissioned four COE students into the U.S. Air Force. The next second lieutenants are James Edward Browse, Heather Michele Higgin, Richard Douglas Shepherd and Jason Robert Stickney.

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Kevin Fullen, P.E., (BS/ME ’93) was named Region II director and regional chair of the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) at its 2009 Annual Conference held in Louisville, Ky. from June 20 – 24, 2009. Fullen is director of technical operations at E.K. Fox and Associates of Fairfax, Va. Fullen’s past services includes chair of the Membership Promotion Committee, assistant regional chair Region III and president of the National Capital Chapter.

William Witcher, P.E., (BS/ CE ’94) attained Professional Licensee as an Engineer in Tennessee on July 2, 2009. Witcher is a design engineer for Thompson & Lybrand in Bristol, Tenn. He is a member and current President of the American Society of Civil Engineers Holston Branch. Witcher is also a member of the East Tennessee Engineering Association (ETEAC) and the ETEAC Scholarship Committee.

Duff Zimmerman (BS/ CE ’92) was inducted as President of the Society of Exponents and Engineers of America (SEEAA) in April 2009. He is the operations manager with Cooper & Company Building Group, Bella Vista, Ark. Zimmerman also serves on the SEAA Safety & Education Committee. In addition, he holds a seat on the American Institute of Steel Construction (AISC) Safety Committee.

Check out the College of Engineering’s online newsletter

http://www.engr.utk.edu/tnengr/index.html

Memorials

Leonard Garfield Penland (BS/ME ’32) died August 15, 2009. He was in Winchester, N.C.


Col. Henry de Leon Soberland Jr. (BS/ CE ’43) died April 26, 2009. He lived in Mountain Brook, Ala.


William W. Boner (BS/CE ’43) died June 2, 2009. He lived in Providence, R.I.


Herold Boyd Scandlin (BS/EE ’47) died March 31, 2009. He lived in Rockwood, Tenn.

John Alfred Martin (BS/EE ’48) died June 15, 2009. He lived in Knoxville, Tenn.

Frank E. Vacaru (BS/EE ’48) died June 14, 2009. He lived in Hillsborough, N.J.

Roger Walden (BS/CE ’48) died March 7, 2009. He lived in Jacksonville, Fla.

Philip L. Bentley Sr. (BS/CE ’50) died September 22, 2008. He lived in Birmingham, Ala.

Edward “Earl” Dunn (BS/EE ’50) died June 11, 2009. He lived in Knoxville, Tenn.

Randall W. Littrell (BS/EE ’50) died April 23, 2009. He lived in Birmingham, Ala.

Willis Jones Page (BS/EE ’50) died June 3, 2009. He lived in Yanceyville, N.C.

Charles Lawson Greer Sr. (BS/EE ’52) died May 23, 2009. He lived in Huntsville, Ala.

William Earl Vaughn (BS/CE ’53) died February 3, 2009. He lived in Madisonville, Ky.


Randall W. Littrell (BS/EE ’50) died April 23, 2009. He lived in Huntsville, Ala.

John W. Fisher (BS/EE ’50) died March 7, 2009. He lived in Jacksonville, Fla.

Dr. W. Austin Alley (BS/EE ’60) died May 30, 2009. He lived in Alabaster, Ala.

Louis Phillip Stuart (BS/EE ’50) died January 5, 2009. He lived in Stantion, Tenn.

Clarence Ronald Simpkins (BS/CE ’59) died July 8, 2009. He lived in Austin, Texas.

Edward J. Ratter Jr. (BS/EE ’40) died April 26, 2009. He lived in Glen Burnie, Md.

Dr. W. Stoneking. E. Stoneking.

On Friday, September 11 and Saturday, September 12, 2009, the College of Engineering hosted the first ever reunion of Nathan W. Dougherty Award Recipients. The reunion included a walking tour of the college and a celebration dinner at Club LeConte on Friday, September 11. On Saturday, Chancellor Junion Cheek placed host to the recipients at the UCLATennessee football game, where they received an on- field recognition between the first and second half. The Nathan W. Dougherty Award, the COE’s highest honor, named in honor of UT football legend and Dean Emeritus, Nathan W. Dougherty, has been presented since 1957 in recognition of engineers who have brought honor and distinction to the college through their achievements and who have made significant contributions to the engineering profession in Tennessee through their professional activities. The recipients, however, had never been Zack to campus as a group before this event.

Dougherty Award recipients who attended the reunion included Dr. Everett Howell, retired director of the Metals and Ceramics Division at Oak Ridge National Laboratory; Donald Borne, retired president & CEO of Advanced Insorganics Chemicals; Dr. Don Brock, chairman & CEO of Avice Industries Inc; Howard Chambers, vice president and general manager of The Boeing Company; Nancy Cole, president of NCC Aerospace; Chad Holliday, CEO of Denark Construction Inc; Robert Hart, retired president of the Tennessee Eastman Company; Chad Holliday, chairman of DuPont; Ralph Jobran, CEO of Dermat Construction Inc; Dr. Ronald Nary, CEO of Advanced Biomarker Technologies; Richard Ray, retired Tennessee Operations Manager of ALCOM; Dr. Charles Scott, retired director of the Bioprocessing Research & Development Center at Oak Ridge National Laboratory; and Dr. William Snyder, Chancellor Emeritus at the University of Tennessee, Knoxville. Also in attendance was Kaye Stoneking, representing her late husband, former dean of the College of Engineering and 2002 Dougherty Award recipient, Dr. Jerry E. Stonelake.

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The Nathan W. Dougherty Award Recipients

1957 – Thomas Hampton Allen 1975 – Edward Monneath Dougherty
1961 – Campbell Allen Harlan 1979 – Jose Mack Tucker
1962 – Robert Clayton Matthews 1980 – Fred Neal Faulk
1969 – Aubrey J. Wagner 1987 – Michelle Kimberly Mitchell
1975 – Edward Moneath Dougherty 1992 – Rafael C. Gonzalez
1980 – Fred Neal Faulk 1997 – Ronald Nant
1988 – Donald V. Boro 2005 – Mark E. Dean

COE Hosts First Nathan W. Dougherty Award Recipients Reunion

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Mr. Chambers has a B.S. in mechanical engineering with a minor in aerospace engineering from the University of Tennessee, Knoxville. He is the recipient of the Silver Knight of Management, Executive of the Year and Gold Knight of Management awards from the National Management Association. He is an Associate Fellow of the American Institute of Aeronautics and Astronautics and was the 2002 Anemis Earth Day Award recipient for mentoring. Mr. Chambers is an active member of the UT College of Engineering’s Board of Advisors. College-wide faculty and staff awards presented at the event included: Outstanding Support Staff Awards (2 recipients): Annette Costar, Department of Civil and Environmental Engineering, and Jude Evans, Department of Electrical Engineering and Computer Science; Outstanding Faculty Advisor: Dr. Brian Edwards, Department of Chemical and Biomolecular Engineering; Allen & Hoshall Engineering Faculty Award: Dr. Lynne Parker, Department of Electrical Engineering and Computer Science; Moses E. and Maryne Brooks Distinguished Professor Award: Dr. Michael Berry, Department of Electrical Engineering and Computer Science; Leon and Nancy Cole Superior Teaching Award: Dr. Edwin Burdette, Department of Civil and Environmental Engineering; Charles Edward Ferris Faculty Award: Dr. John Schwartz, Department of Civil and Environmental Engineering, and College of Engineering 2009 Teaching Fellow Award: Dr. Paul Premier, Department of Chemical and Biomolecular Engineering, 2009 Research Fellow: Dr. Brian Edwards, Department of Chemical and Biomolecular Engineering; Dr. Basum Huang, Department of Civil and Environmental Engineering; Dr. Syed Islam, Department of Electrical Engineering and Computer Science; Dr. Veerle Keppens, Department of Materials Science and Engineering; Dr. Fangxing Li, Department of Electrical Engineering and Computer Science; Lawrence Miller, Department of Nuclear Engineering; Dr. Philip Rack, Department of Materials Science and Engineering; Dr. Arthur Ruggles, Department of Nuclear Engineering; Dr. Rupy Sawhney, Department of Industrial and Engineering; Dr. Jayne Wu, Department of Chemical and Biomolecular Engineering; Dr. Arthur Ruggles, Department of Nuclear Engineering; Dr. Lawrence Miller, Department of Nuclear Engineering and Computer Science; Dr. Philip Rack, Department of Materials Science and Engineering; Dr. Arthur Ruggles, Department of Nuclear Engineering; Dr. Rupy Sawhney, Department of Industrial and Engineering; Dr. Jayne Wu, Department of Chemical and Biomolecular Engineering.

Dr. Wayne Davis (left) presents the Dougherty Award to Howard Chambers (right) as Debbie Chambers (center) looks on.

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Making the most of difficult times has been a pattern for Erby “Roy” and Jean Nankivell. They have persevered through several economic recessions and hard work, networking and giving back.

Roy is a 1943 electrical engineering graduate from the University of Tennessee. Jean is the sister of Allen Bush and the late Condon Bush. Their parents were from Tennessee, and always knew they would go to the University of Tennessee. Roy grew up in Athens, Tenn., and started his post-secondary education at Tennessee Wesleyan College. Roy was attracted to UT for the Co-op program, which is still a successful and popular option for engineering students today. It provides an avenue for students to gain professional experience while making money working for a company during various parts of the year, while still pursuing their undergraduate degrees.

This was a great advantage for Roy, because he had to work through school in order to afford the classes. Although he worked half of the time and took classes half of the time, Roy took on a heavy course load each semester, so he had little time for socializing. Still, he persevered.

World War II fell in line, immediately after graduating from the College of Engineering Roy went on to serve in the U.S. Marine Corps. The military sent him back to school to Harvard and MIT—to learn the then-new technology known as RADAR. Meanwhile, Jean was working at a dietician internship at Massachusetts General Hospital.

The two met while they were in Boston, were married after their occupational assignments and together moved back to Tennessee.

“At that point, the war was over and jobs were scarce,” Nankivell recalled. “I landed a job through a personal connection with Athens Plow Company and managed to support my growing family despite the competitive job market.”

Eventually, his engineering background was put to use when his brother-in-law in the plastic injection business needed an engineer. It was not long before Roy started making his home in his new capacity. He developed and patented a new method of making saddle trees that revolutionized the plastic industry.

There are many words that describe the powerful effect created by gifts to the College of Engineering. Your support is a significant resource that is increasing, please important to our financial health. Annual gifts to unrestricted funds provide current dollars for immediate priorities. Major gifts through endowments and building funds provide support that promotes transformational progress.

Bequests and trusts are legacies that outlast us on campus. There are many names of donors given above.

We are profoundly grateful to all who give to the College of Engineering. Thank you.

Because a donor roll of honor has not been produced for several years, we are listing all donors through June 30, 2009, whose commitments are part of The Campaign for Tennessee. This important campaign began January 2005 and continues through December 2011 with strategic goals for each department and an overall dollar goal of $75 million for the college.

As we go to press, we have secured $44.9 million or 60%. For more information about how you can help advance Engineering education at the University of Tennessee through your giving, please contact Adlai Hurt, Annual Giving and Alumni Relations Coordinator, after34utk.edu, phone 865-974-2779.

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Endowment Legacy Created by Erby “Roy” and Jean Nankivell

The Office of Engineering Development is committed to advancing Engineering education at the University of Tennessee. With your help, we can continue to provide students with the best education possible. To learn more about how you can help advance Engineering education at the University of Tennessee through your giving, please contact Adlai Hurt, Annual Giving and Alumni Relations Coordinator, after34utk.edu, phone 865-974-2779.

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Calendar

Fall 2009
Fall Break....................................Oct 15-16
Thanksgiving..............................Nov 26-27
Classes End....................................Dec 1
Exams ........................................Dec 3-4, 7-10
Graduate Hooding ..................Dec 11
UT Commencement ..................Dec 13

Spring 2010
Classes Begin ................................Jan 13
MLK Holiday .................................Jan 18
1st Session Ends .......................Mar 3
2nd Session Begins ....................Mar 4
Spring Break ..............................Mar 8-12
Spring Recess ............................Apr 2
Classes End ..............................Apr 30
Exams ......................................May 4-7, 10-11
Commencement ...........................May 12-14

COE Homecoming 2009

The University of Tennessee College of Engineering invites you to “Homecoming 2009 – Rock ‘n’ Roll the Tigers” and the Annual COE Alumni Homecoming Barbeque on the Hill on Saturday, November 7th, 2009, 3 hours prior to game time.

Join us for a delicious barbeque lunch; exhibits and demonstrations; and reunions with former classmates and faculty!

If you haven’t attended the Homecoming Barbeque in a while—this year will be special! Don’t miss it, register today!

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

For more information, contact the Engineering Development Office at (865) 974-2779 or http://www.engr.utk.edu/homecoming-09.html to register by November 2, 2009.