

From the Dean's Desk



Dr Wayne Davis, Interim Dean of the College of Engineering

The best of times or the? As I write the dean's message to each of you—our faculty, staff, students, alumni and friends—I have many thoughts just a short time after one of the most tumultuous weeks in the global market. First, I became Interim Dean May 2008 upon the departure of Dean Way Kuo, who became President of City University of Hong Kong, and just days before a statewide budget reduction that was felt across the state. It has been a wonderful and challenging experience and I am proud to serve in this new capacity, even if for a short period of time, while we are conducting a national search.

Even with the economic uncertainties and the accompanying tightening budget scenarios that UT is experiencing along with other institutions across the country, I am optimistic for our College of Engineering. The college has progressed on many fronts during the last five years, including 34% and 77% increases in MS and PhD student enrollment, respectively; 63% and 100% increases in MS and PhD graduates, respectively; and an 89% increase in external gifts, grants and contracts which provided us the opportunity to enhance the quality of our programs and provide educational

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New COE Facilities Will Allow State-of-the-Art Training for Future Engineers

The College of Engineering is currently in the process of designing and constructing three new buildings. This unprecedented opportunity will allow the COE to expand research and classroom space and offer state-of-the-art training for future engineers.

Construction has already begun on the 150,000 square foot Min H. Kao Electrical Engineering and Computer Science Building. Groundbreaking for the facility took place on May 16, 2007. The building is being constructed at a total cost of \$37.5 million, \$12.5 of which was initially provided by Dr. Min H. Kao, CEO of Garmin and a University of Tennessee alumnus. Kao's total gift of \$17.5 million, the largest single gift toward one building in the university's history, served as the cornerstone of a public-private partnership with the State of Tennessee, which provided the additional \$25 million for the facility. The remaining \$5 million of Kao's donation was used in a dollar-for-dollar match with other private gifts to create a \$10 million endowment for the Min H. Kao Department of Electrical Engineering and Computer Science (EECS). The department was created through a merger between the Department of Electrical and Computer Engineering in the COE and the Department of Computer Science in the College of Arts and Sciences in July of 2007.

The department will be housed in the new building, which will feature classrooms, laboratories, a clean room and a 2,500 square foot auditorium. The facility will be the first on the UT-Knoxville campus to be built for Leadership in Energy and Environmental Design (LEED) certification, which requires using environmentally sound materials, positioning the building to make the best use of natural lighting and using indoor lighting that is both cost-and-energy-efficient.

Bullock, Smith and Partners and Lindsay and Maples Architects are the primary architects. Other participating companies include Ross Bryan Associates, Inc. (Nashville), IC Thomasson (Knoxville/Nashville) and Vreeland Engineers, Inc. (Knoxville), who are responsible for the structural engineering design and electrical engineering design, respectively. The building is scheduled for completion in August, 2010.

The college has also updated plans for the new Civil and Environmental Engineering Building. After the state provided \$16.5 million in funding for Estabrook Hall, the second-oldest building on campus, an architectural review showed that the facility had serious structural issues that would hamper reconstruction efforts. A new site has been selected behind Pasqua Hall on the current

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Construction has begun on the new Min H. Kao Electrical Engineering and Computer Science Building

site of the auto annex facing Neyland Drive, and the COE has received approval from the state to construct an entirely new building on this location. An anonymous donor has provided additional funding to include space for the Department of Industrial and Information Engineering, which has been housed in East Stadium Hall for over a decade. Plans are currently in the works to designate the new building as the Civil and Environmental Engineering and Industrial and Information Engineering Building, with both departments located in the facility.

The CEE/IIE building will have 90,000 square feet of classroom, laboratory and administrative office space. Groundbreaking is currently projected to take place in late spring of 2009.

The college is also involved in the design and construction of the new Joint Institute for Advanced Materials, a 100,000 square foot building that received \$20 million in federal funding in 2005 which was matched with \$10 million of state dollars. Slated to be the first facility built on the new Cherokee campus, the former site of the UT Dairy Farm on Alcoa

Highway along the banks of Fort Loudon Lake, JIAM will house multi-disciplinary research efforts in the transportation field. A date for the groundbreaking has not yet been set.

The three new buildings will have a tremendous impact on the college's space. In 2010, after completion of the Min H. Kao Building, the EECS department, excluding the Innovative Computer Laboratory (ICL) group now located in Claxton Hall, will move into the new facility. This will free up space in EECS' current location, Ferris Hall, for the Engage freshman engineering program, which will move out of its current location in Estabrook Hall, and the Department of Materials Science and Engineering.

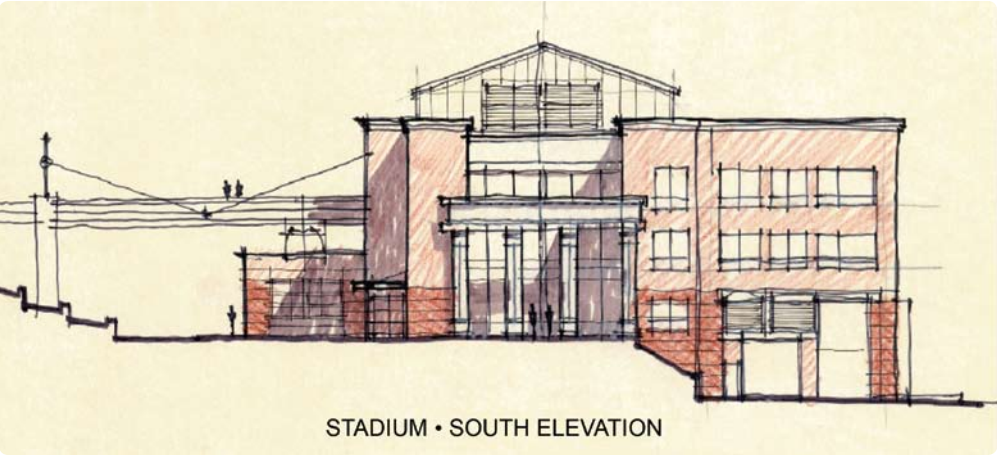
The completion of the CEE/IIE building will allow additional administrative and research center space in Perkins Hall. The Maintenance and Reliability Center and the Center for Materials Processing will move from East Stadium Hall into Perkins once the CEE

department is settled in the new building. The Engineering Advising Office and the Engineering Diversity Programs Office will also likely relocate to Perkins from Estabrook once the CEE move is completed.

The relocation of the MSE department will provide expansion room in Dougherty Hall for its other current occupants, the Department of Chemical and Biomolecular Engineering and the Department of Mechanical, Aerospace and Biomedical Engineering. Space will also be vacated in the Science and Engineering Research Facility (SERF) which will make room for new research activities in both the College of Engineering and the College of Arts and Sciences.

The COE currently has about \$85 million in construction activities going on right now with \$10-\$20 million in funding for equipment and scholarships.

—Story by Kim Cowart



Architects sketch of the new CEE/IIE building

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SAFELight Update



Ben Jordan and Tony Spezia

Rear-end collisions cause more property damage and, worse, more injuries (800,000 in 2005) than any other type of auto accident in the United States according to federal studies. Driven to address such dire safety and financial concerns, UT alumni Ben Jordan, Tony Spezia and Nathan Davis, with help from their engineering professor, the late Frank Speckhart, developed the promising SAFELight system to significantly decrease a driver's likelihood of being a victim in a rear-end collision. The team's SAFELight achieves this aim through its patented accelerometer technology. SAFELight's method has proven effective at increasing the reaction time of following drivers by emitting bright bursts of light to warn drivers of "emergency braking."

Jordan, Davis and Spezia developed this groundbreaking system as part of the University of Tennessee's MS-MBA dual-degree program. The three inventors have trademarked their device and are now distributing it directly to the public via www.safelightstore.com.

They give credit to the MS-MBA program for their current success.

"The program gives engineers the toolbox to stick their heads out of the engineering trenches," Jordan said. "What other program could offer students the opportunity to graduate with their name on a utility patent, a position on the board of directors of an incorporated company, and the potential of being at the helm of a very lucrative techno-preneurial company?"

Bill Hamel, head of the Department of Mechanical, Aerospace and Biomedical Engineering noted, "One of the goals of our dual degree program is to equip engineers with the tools they need to pursue new business ventures. We are very proud of the SAFELight team in this regard. They solved significant technical challenges and developed a sound business plan at the same time. Such synergy is essential for bringing new ideas to the marketplace."

For more information about SAFELight Inc. contact SAFELight at 865-531-0434 or view the website at www.safelightstore.com.

Chad Holiday, Volunteer of the Year



Chad & Ann Holiday

DuPont CEO and COE alumnus Chad Holliday Jr. (BS/IE '70) was honored with one of the university's most significant recognitions during the weekend of September 19-20, 2008. Holliday was named as the Volunteer of the Year—Distinguished Alumnus at that Friday night's Development Council Dinner and also was recognized at Saturday's UT-Florida game during halftime.

The Volunteer of the Year -- Distinguished Alumnus award is dedicated to the spirit of the volunteer and

is the university's top alumni award. Holliday was the first recipient of the recognition.

The distinction is reserved for alumni who have excelled at the national or international level in their profession, whose achievements have benefited their fellow citizens and have brought great credit to the University of Tennessee.

After graduating from UT, Holliday began working for DuPont in his hometown of Nashville. He advanced quickly through various manufacturing and supervisory assignments, which included product planning and marketing, and eventually executive assignments, including president and chairman of DuPont Asia Pacific.

In 1998, he was appointed DuPont's Chief Executive Officer. He became Chairman of the Board of Directors in 1999 and is the 18th executive to lead the company in its 206-year history.

Through Holliday's leadership, DuPont established a mission to achieve sustainable growth – increasing shareholder and societal value while decreasing the company's environmental footprint.

As a result, DuPont has moved from being a chemical company to a science-based products and services company. In 2007, DuPont reported revenues, of \$29.3 billion and employed more than 60,000 people around the world.

Last year, Holliday visited nearby Loudon, Tenn. in June for the official opening of the DuPont Tate and Lyle Bio Products Bio-PDO™ facility, one of the largest biomaterials processing facilities in the world and the only one of its kind.

Holliday was elected in 2004 as a member of the National Academy of Engineering and became chairman of the Business Roundtable's Task Force for Environment, Technology and Economy the same year. He received the Nathan W. Dougherty Award, the College of Engineering's most distinguished recognition, in 1999.

He is also past chairman of the World Business Council for Sustainable Development (WBCSD), The Business Council and the Society of Chemical Industry – American Section.

While chairman of the WBCSD, he co-authored a book "Walking the Talk" which details the business case for sustainable development and corporate responsibility.

Holliday is also currently serving as co-chair of the Campaign Leadership Committee for UT's College of Engineering.

In remarks at the Development Council dinner, Interm Chancellor Yan Simek said, "We credit Chad for helping to create a strong bond between DuPont and UT. The company has contributed almost \$4 million to UT over the years in support of programs in the College of Engineering and Institute of Agriculture."

—Story by Kim Cowart

Dr. Rupy Sawhney — Department of Industrial & Information Engineering

Dr. Rapinder “Rupy” Sawhney has come a long way from entering accounting data for his uncle’s food manufacturing company in Iran. After attending American schools in his native country, Sawhney made his way to the University of Tennessee (UT) where he spent 12 years earning his bachelor’s, master’s and doctoral degrees. While working on his Ph.D., he also married his wife, Nina, in India. Sawhney became a citizen of the United States seven years ago.

Sawhney is now a professor in the UT Department of Industrial and Information Engineering (IIE) where he spends his days training tomorrow’s industrial engineers. He also tries to help make them marketable in both foreign and domestic job markets.

Sawhney encourages students to achieve competitiveness by adhering to three components he has helped instill in the graduate program.

“They go through the course work and they have their own research, but the third thing we do that is unique is that every one of them ends up writing a proposal; every one of them gets a chance to practice what they have learned in their research and classes and they all go out to work in industry and implement some of their ideas,” Sawhney said. “Many of our students have found that they have an easy time getting a job and adjusting to the work place because, not only do they have the academic background, they have the research and the practical experience to go out into the real world.”



Dr. Rupy Sawhney (left) works with IIE student Mildred Louidor in one of the industrial engineering laboratories.

The majority of his students have in fact found it easy to land an engineering job, since all 2008 IIE graduate level students secured employment after graduation with annual starting salaries ranging from \$69,000-\$80,000 annually.

The implementation of Sawhney’s three-pronged approach also helps students to become more hands-on and involved in the IIE program and with companies such as Oak Ridge National Laboratory (ORNL), Halliburton and Eastman.

“We provide the students with projects based on real-life situations, exposure to research and opportunities to implement their ideas,” Sawhney said.

Sawhney has also encouraged diversification in the graduate program. Ten of the 15 graduate students in IIE are international students from countries all around the world.

“We are all a team here with a lot of diversity,” Sawhney said. “We have U.S., Chinese, Thailand, German, Yemen and Indian citizens in the program and we all support, work with and like each other.”

To Sawhney the development of the IIE program is more important than individual accolades.

“If I do well but our department doesn’t do well that isn’t a success,” Sawhney said. “However, if we all work together we can make this department excel, and we are doing that now.”

He was awarded the Alpha Phi Mu Teacher of the Year Award in 2008 and has also received other recognitions, including the Alcoa Faculty Development Award.

When he is not working with aspiring engineers, he likes to spend time with his wife Nina and his two sons Curren, 19, and Simrun, 12, in their vacation cottage in Sevierville.

“Work is hard, but I enjoy it and it is fun,” Sawhney said. “I don’t play golf or ski or anything. I just enjoy spending time with my family in my off hours.”

—Story by Eddie Jenkins

UT College of Engineering Announces New Appointments



Dr. Wesley Hines

Dr. Wesley Hines, professor in the Department of Nuclear Engineering, has been named Interim Associate Dean for Research and Technology for the University of Tennessee College of Engineering. He will be replacing Dr. Wayne Davis,

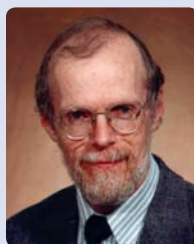
who previously held the position and who was designated to be the COE’s interim dean in May.

Hines received his B.S. in electrical engineering from The Ohio University, Athens, in 1985; his M.S. degree in nuclear engineering and an M.B.A. degree from The Ohio State University in 1992; and his Ph.D. in nuclear engineering from The Ohio State University in 1994. Hines also attended the Naval Nuclear Power School in Orlando, Fla., in 1986 and served as a U.S. Naval Officer on Naval nuclear submarines from 1987-1990.

Hines started his career at UT 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 received numerous recognitions from the COE, including the 2006 College of Engineering Research Fellow Award; the 2005 Brooks Distinguished Professor Award; the 2004 COE Teaching Fellow Award; the 2004 Leon and Nancy Cole Superior Teaching Award; and the 2001-2002 Allen and Hoshall Engineering Faculty Award.



Dr. Bruce Robinson

The COE has also named Dr. Bruce Robinson, an emeritus professor in the Department of Civil and Environmental Engineering, as Interim Head of the Department of Industrial and Information Engineering. Robinson’s last appointment was as the Armour T. Granger

Professor of Civil and Environmental Engineering. He was also the coordinator of the environmental

engineering program.

Robinson received his B.S., M.S. and Ph.D. in sanitary engineering from Iowa State University. His doctoral dissertation won the 1980 Nalco Award for Significant Chemical Research in Water and Wastewater Treatment presented in conjunction with the Association of Environmental Engineering Professors.

Robinson has worked with or performed research for several agencies and firms including Saturn Corporation, Martin-Marietta Energy Systems, Bechtel Environmental, FMC Corporation, Tennessee Eastman Corp., IT Corporation, City of Clinton Utilities, Spring City Dye and Finish, Value Line Textiles, General Filter Corporation, the Tennessee Department of Transportation, the Tennessee Department of Environment and Conservation, American Water Works Association Research Foundation, USEPA, Aqua-Dynamics and the Knoxville Utilities Board. He is a registered professional engineer in Tennessee and Iowa.

New Faculty Join the UT College of Engineering



Dr. Ramki Kalyanaraman

Dr. Ramki Kalyanaraman is a new joint associate professor in the Department of Chemical and Biomolecular Engineering and the Department of Materials Science and Engineering. Kalyanaraman was awarded a Ph.D. in materials science and engineering in 1998 from North Carolina State University, Raleigh, and received his M.Tech. and M.Sc. from the Indian Institute of Technology, Kanpur. Kalyanaraman’s current research interests include self-organization and pattern formation, non-equilibrium processing under fast laser-phase, nanomaterials for plasmonics and nanophotonics and nanocomposites for ultrafast and ultrahigh density optical information processing. Kalyanaraman was previously an assistant professor at Washington University in St. Louis.



Dr. Glenn Tootle

Dr. Glenn Tootle is the new assistant professor in the Department of Civil and Environmental Engineering. Tootle was awarded a Ph.D. in civil and environmental engineering in 2005 from the University of Nevada. He received his B.S. and M.S. in civil engineering

from the University of Florida in 1985 and 1987. His research involves long lead-time forecasting of U.S. steamflow using partial least squares regression, relationships between Pacific and Atlantic Ocean surface temperatures and steamflow, climate variability and water supply and drought in the upper Colorado River Basin. Tootle received the Mortar Board Top Professor Award in 2006 while working as an assistant professor at the University of Wyoming.



Dr. Joseph H. Wilck IV

The Department of Industrial and Information Engineering welcomes Dr. Joseph H. Wilck IV as a new assistant professor. Wilck graduated with a Ph.D. in engineering and operations research from Pennsylvania State University in 2008. He

received his B.S. and M.S. in industrial and systems engineering from Virginia Tech in 2004 and 2005. His current primary research interests are mathematical programming, optimization, facility layout, graph and network theory, supply chain management and logistics. Wilck was a recipient of the Spanco Incorporated Honor Scholarship in 2006.



Dr. Haitao Liao

Dr. Haitao Liao is a new joint assistant professor in the Department of Industrial and Information Engineering and the Department of Nuclear Engineering. Liao received his Ph.D. from in industrial systems engineering in 2004 and his M.S. degrees in industrial systems engineering and applied and mathematical statistics from Rutgers University. He received his B.S. in electrical engineering from the Beijing Institute of Technology. Liao’s current research involves reliability engineering, applied probability and statistics, risk analysis, applied operations research and instrumentation and signal processing. Liao was previously an assistant professor in the industrial and manufacturing engineering department at Wichita State University.



Dr. Gerd Duscher

Dr. Gerd Duscher is a new associate professor in the Department of Materials Science and Engineering. Duscher received his doctorate in Materials Science from the Max-Planck Institute in Germany. He was also awarded both his M.S. and

B.S. in physics from the University of Regensburg in Germany. He is a recipient of the 2004 Nano Technology Industrial Impact Award. Duscher has been awarded grants for a wide variety of research areas in materials science, including interface and materials defects, electromigrations of interconnects, dislocations structure, structure property relationship of semiconductor heterostructures and structure property relationships of quantum dots and quantum wells.



Dr. Zhili Zhang

Dr. Zhili Zhang has joined the mechanical aerospace and biomedical engineering faculty as an assistant professor. He received his M.A. and Ph.D. in mechanical and aerospace engineering from Princeton University in 2006 and 2008 and

received his B.E. in mechanical engineering from Tsinghua University in Beijing, China. Zhang’s research interests include reliability engineering, applied probability statistics, risk analysis, applied operations research and instrumentation signal processing. He received the Luigi Crocco Award for Teaching Excellence in 2006 while at Princeton University.



Dr. Kivanc Ekici

Dr. Kivanc Ekici is now a joint assistant professor in the Department of Mechanical, Aerospace and Biomedical Engineering and Nuclear Engineering. Ekici was awarded his Ph.D. in aeronautics and astronautics from Purdue University. He received his

M.S. and B.S. in aeronautical engineering from Middle East Technical University in Ankara, Turkey. Ekici’s current research interests are fluid dynamics, aerodynamics, unsteady aerodynamics, turbo machinery, fluid-structure interactions, gas turbine propulsion, clean and renewable energy, rotocraft aerodynamics, aerodynamic design and parallel and high performance computation. Ekici was previously a research associate at Duke University in the Department of Mechanical Engineering and Materials Science, where he developed fast and accurate numerical tools to investigate complex fluid phenomena in aerospace engineering.



Dr. Jason P. Hayward

Dr. Jason P. Hayward has joined the Department of Nuclear Engineering as an assistant professor. Hayward graduated with a Ph.D. and M.S.E. in nuclear engineering and radiological science from the University of Michigan. He also

received a B.S. in physics from Valparaiso University in Indiana. Hayward’s research interests involve high-purity germanium double-sided strip detectors. He was a NASA Graduate Student Research Program Fellow from 2005 to 2007.



Dr. Lawrence H. Heilbronn

Dr. Lawrence H. Heilbronn has joined the Department of Nuclear Engineering as an assistant professor. Heilbronn graduated with a Ph.D. in nuclear physics from Michigan State University, M.S. in physics from the University of

Illinois, Urbana, and a B.S. in physics from the University of Montana, Missoula. Heilbronn’s research interests include experimental nuclear physics based with an emphasis on applied fields detector development, space instrumentation and radiation protection. Heilbronn received his second Outstanding Performance Award from Lawrence Berkley National Laboratory in 2002.

Dr. Maldonado and Dr. Hayward to Lead Million Dollar Research Projects Funded by the U.S. Nuclear Regulatory Commission

Two professors in the COE Department of Nuclear Engineering (NE) are leading research projects with a total funding of over \$1 million from the U.S. Nuclear Regulatory Commission (NRC). Dr. Ivan Maldonado, an associate professor in the NE department, and Dr. Jason Hayward, an assistant professor, are involved in the effort, along with colleagues from Texas A & M University (TAMU).

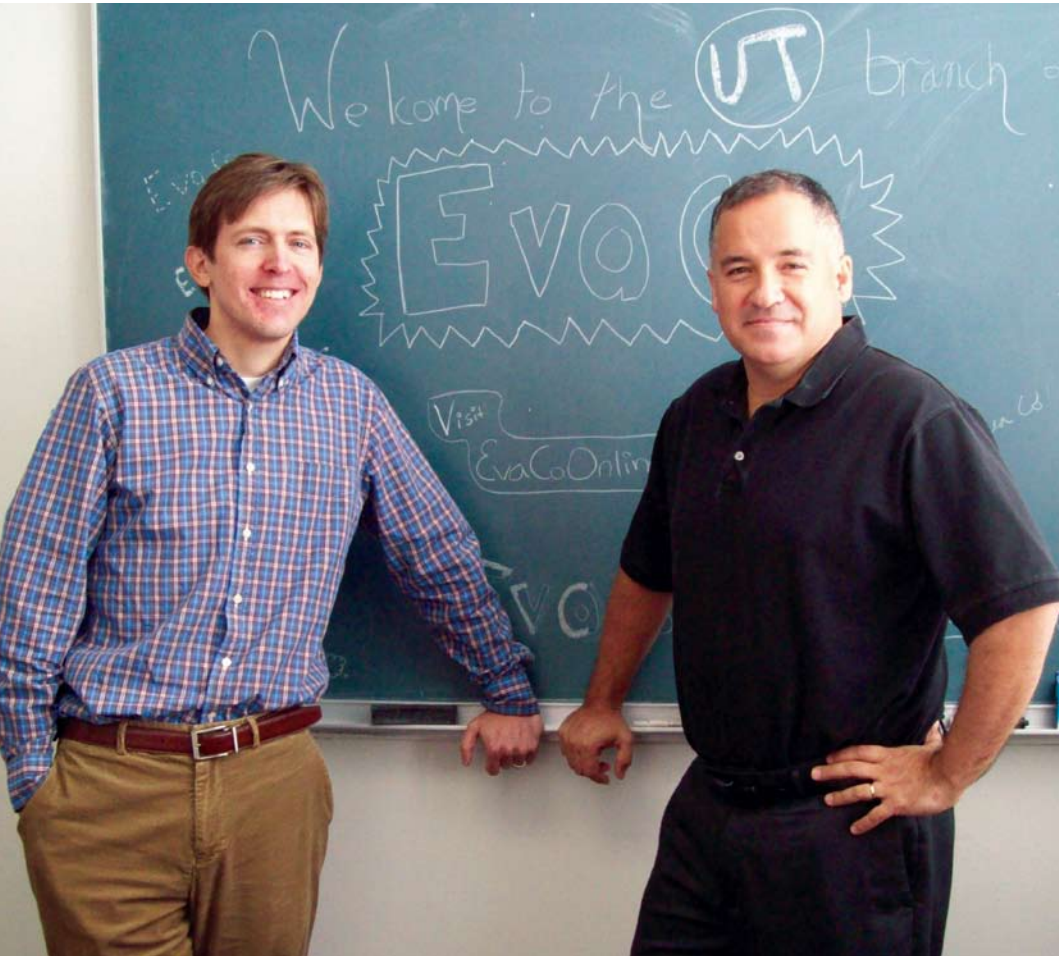
Maldonado is the principal investigator and program administrator for three of the projects, which include “Development of SCALE-based Educational Modules to Innovate Reactor Physics and Criticality Safety Curricula;” “U.S. NRC Undergraduate Scholarship Program for Excellence in Nuclear Education at the University of Tennessee;” and the “U.S. NRC Graduate Fellowship Program for Excellence at the University of Tennessee.” Hayward is the principal investigator for the “NRC Faculty Development Grant Program at the University of Tennessee” project.

According to Dr. Wes Hines, Interim Associate Dean for Research and Technology, the COE NE department won the funding over several larger universities with successful nuclear engineering programs because of the department’s adherence to the 14 areas of criteria.

“This is a larger number of criteria to meet with the NRC than normal,” Hines said. “We addressed them all and won the grant.” The SCALE-based project seeks to develop innovative educational modules based on the SCALE nuclear analysis system to supplement instruction in reactor physics and criticality safety courses in nuclear engineering programs. The program will “pilot launch” educational

modules at both UT and Texas A & M within courses in their respective curricula. If the modules are successful, the UT NE department will partner with the University of Puerto Rico at Mayaguez and TAMU will collaborate with Prairie view A & M University and Kingsville A & M University in order to distribute the educational materials to a wider and more diverse audience.

The undergraduate program will award up to 20 one-year scholarships for the study of nuclear engineering over the next two academic years.



COE Department of Nuclear Engineering (NE) Assistant Professor Dr. Jason Hayward and Associate Professor Dr. Ivan Maldonado

The scholarships will be reserved for students who are consistently outstanding performers on a semester-by-semester basis. The graduate program will provide up to 13 one-year graduate fellowships over the next four academic years. The fellowships will also be awarded to students with outstanding academic records and awardees will be periodically reviewed for continued satisfactory performance. “The U.S. NRC scholarships and fellowships are already having a direct impact upon our department’s ability to attract, recruit, and retain

the most talented undergraduate and graduate students,” Dr. Maldonado said. The faculty development grant will support two junior faculty members in the NE department. The budget, which is designated for a three-year period, includes support for new course development, developing proposals for research, equipment stipends, participation in professional society meetings, preparation of papers, travel and other startup costs. The goal of this program is to attract highly-qualified faculty members, develop these individuals’ skills in research and

teaching and retain them to enhance the department’s capabilities.

“Dr. Maldonado and Dr. Hayward obviously wrote excellent proposals for these awards, and they are to be commended for their efforts,” Dr. Lee Dodds, NE department head, said. “The UT nuclear engineering program is one of only four nuclear programs in the U.S. that were funded by all NRC solicitations to nuclear engineering programs during the past year, which clearly confirms the outstanding quality of proposals written by our faculty.”

“It is a thrill to be entering this profession at a time when the demand and support for nuclear engineering is

tremendous,” Hayward added. “Additionally, we are encouraged to have the NRC recognize that we are an institution they should heavily invest in to educate the next generation of nuclear engineers and scientists.” The COE NE department is ranked 10th in public universities with a doctorate program, according to U.S. News and World Report’s “America’s Best Colleges” designation.

–Story by Kim Cowart

College of Engineering Transitions

Several transitions have recently occurred in the College of Engineering’s academic support programs.



Dr. Roger Parsons

Dr. Roger Parsons, former director of the COE’s Engage Freshman Engineering Program, has been named director of the newly created COE Outreach Office. In this position, Parsons will be working with other units of the university and community to build programs that enhance leadership and intercultural and entrepreneurial opportunities for engineering students, as well as promoting the college’s visibility to the next generation of engineering students. Initial outreach projects include enhancing study abroad

options for engineering students and partnering with the Baker Center and the College of Education in a service learning initiative with Knox County Schools. Parsons is also continuing to teach in the honors first year program.

Parsons, a professor in the Department of Mechanical, Aerospace, and Biomedical Engineering (MABE) received his Ph.D. from North Carolina State University and has been at UT since 1979. In 1996, he was appointed to the Basic Engineering Renovation Team (BERT), formed by the late COE Dean Stoneking to redesign the first year experience in the engineering college. In 1997, he was appointed the founding director of the Engage program, which resulted from the BERT team’s efforts, and served in that capacity until August 2008.



Dr. Richard Bennett

Dr. Richard Bennett, a professor in the Department of Civil and Environmental Engineering (CEE), has been appointed as the new director of the Engage Program.

Bennett received his Ph.D. in civil engineering from the University of Illinois, Urbana-Champaign. Since then, he has been a member of the CEE faculty and served as the associate head during the last four years. Bennett has had a half-time appointment in the Engage program since 1999, primarily teaching the first freshman engineering physics course.

Bennett has won numerous teaching awards, including the University of Tennessee Alumni Association Outstanding Teaching Award, which he received in 2007. He is a registered professional engineer in the state of Tennessee.



Dr. Christopher D. Pionke

Dr. Christopher D. Pionke has been appointed to the position of director of the College of Engineering Honors Program. He will be responsible for the operation of the departmental common aspects for the college’s honors programs, including teaching of the college’s freshmen honors sequence Engineering Fundamentals (EF) 157 and 158. He will also work to expand and enhance the college’s honors offerings through development of new departmental and/or college courses as well as coordinating with the Chancellor’s Honors Program (CHP) and other

interested faculty to expand the CHP’s offerings of advanced honors courses specifically developed for engineering students.

Pionke has been a UT faculty member since 1993 and is currently an associate professor in the MABE department. In 1996, Pionke was also appointed to BERT. Pionke has been actively involved in teaching and the development of courses for the Engage program since its inception in 1997.

Pionke received a Ph.D. in Engineering Science and Mechanics from Georgia Tech. He also spent the 1980-81 academic year as an ISEP Scholar at the University of Stirling, in Stirling, Scotland. Pionke is a registered Professional Engineer (P.E.) in the State of Georgia.

Announcing
The College Fund for Engineering

THE CAMPAIGN FOR TENNESSEE

A S P I R I T • A V I S I O N • A P L A N

A call to all engineering alumni to give

Fall 2008 launches a new way to support the College of Engineering at the University of Tennessee through the College Fund for Engineering. While we continue to encourage donors to designate gifts to their areas of interest – departments, programs, scholarships or other specific funds – we also need unrestricted funding. Today, almost all of the philanthropic resources given to UT are precisely earmarked. These gifts for specifically defined uses cannot be applied to initiatives other than those designated by the contributor. The College Fund for Engineering will allow the dean and college leadership to move with agility, pivot with industry demands and respond to priorities in a strategic way.

This fall, we will be reaching out to every graduate of the College of Engineering to ask you to consider a gift to the College Fund in addition to other support you may be giving to a department or fund. We also request that you consider supporting the College Fund for Engineering at a leadership level (society levels are noted below). However you may choose to give, know that in doing so, you are not only making a positive impact on our college, you are setting a wonderful example for many friends and alumni of the university.

Leadership Annual Giving Society

Bronze:	\$1,000 - \$2,499
Silver:	\$2,500 - \$4,999
Gold:	\$5,000 - \$ 9,999
Platinum:	\$10,000 and above

We are grateful to each and every donor who provides support to the College of Engineering. Your philanthropy is a testament to the spirit and pride we share for this wonderful institution.

Please contact the Engineering Development Office for more information at (865) 974-0686 or engrdev@utk.edu.

Dorothy Bryson
Associate Vice Chancellor for Development/Interim Senior Engineering Development Director

Entrepreneurs and Company Owners turn to James Clardy for Advice



James H. Clardy

Fledgling entrepreneurs who are looking for an ego-stroking mentor had better steer clear of James H. Clardy.

The frank and outspoken UT College of Engineering graduate has become somewhat of a legend in the technology haven of Austin, Texas, known for his keen knowledge and no-nonsense business style.

Clardy grew up on a dairy farm in Clarksville, Tenn., but a summer job during his teenage years working with electricians influenced him toward an interest in electrical engineering.

After high school, he enrolled in Austin Peay University, which was located in his hometown. The small institution had a two-year pre-engineering course at the time, so Clardy decided to transfer to the University of Tennessee-Knoxville after his sophomore year.

"I am very happy with the choice that I made at that time," Clardy said. "I secured a job in the Department of Electrical Engineering working on government contracts, primarily doing research on antennas. Engineers today would not believe one of the tasks, which was to calculate antenna patterns using a mechanical calculator. Several of us were called 'student calculators,' and we had large notebooks to record the results. It was a perfect job for students because we could work any time that we wanted—all you had to do was just get a notebook and start calculating wherever the last person finished. Obviously, we did not have computers in those 'dark days.' Later, I worked as a technician on a test range that was located on an island in the river, working with Dr. T. Vaughn Blalock."

Clardy enjoyed his years at UT, and spent most of his time studying. However, he had three friends, also from Clarksville, who were, in Clardy's words, "introverted and nerdy."

"The big event each week was to have one beer and a pepper boiled egg at a bar," Clardy recalled. "I always like to think about those years at UT and how we enjoyed that Saturday night ritual."

Clardy also appreciated his classes under former COE Dean Charles Weaver, who he remembers as an outstanding and innovative teacher who loved his work.

After graduating from UT in 1957, Clardy began working at Arnold Engineering Development Center in Tullahoma, Tenn., designing instrumentation systems for jet and rocket engine testing. After two years, he was hired at Texas Instruments Inc., where he was initially assigned work as a design engineer.

"When I moved to Texas Instruments, the job was detail circuit designs, but because of my years at AEDC, I wanted to know the entire system and thus spent extra time learning everyone else's jobs. In the end, I always knew more about the system than most of the other engineers. As a result, I naturally evolved into managing the projects and the die was cast for me to go into management instead of design," he said.

Clardy spent 21 years at Texas Instruments, rising through the ranks until he was finally tapped to head the company's Latin American division.

After leaving Texas Instruments, Clardy became a major player in Austin's burgeoning technology scene, working with Crystal beginning in 1984 to bring in superstar engineers from other companies to create exciting new advances. Crystal became one of the world's leading suppliers of high-performance mixed signal integrated circuits with annual sales of \$250 million.

Clardy left Crystal in 1997, and shortly afterward was asked to become a partner with Austin Ventures. He is currently on the board of five Austin technology startups and has also served as interim CEO for Nanocoolers, Inc., Nascetric, Inc., D2Audio, Inc. and Cold Watt, Inc.

"The availability of capital for entrepreneurs to start high tech companies in Austin comes from having a premier venture capital firm such as Austin Ventures in our city," Clardy said. "It is the largest venture partnership in the state of Texas."

Entrepreneurs and company owners who turn to Clardy for advice had better be prepared for complete honesty and frank assessments of their situations.

"I believe that a straightforward style gets things done. It is the essence of any success that I have enjoyed," Clardy added. "The quicker people get focused on the issue to be resolved, the better all around. There is no gain to game playing or soft-peddling things."

Clardy believes that his education at UT was the starting point for his years of success.

"To my knowledge, I was the first person in my Clardy lineage to obtain a college education. It gave me the technical skills to compete in the high tech world and the opportunity to afford a quality education," Clardy said.

Although Clardy's knowledge and guidance is greatly in demand in high-tech circles, he also finds time for his large family, including his wife, Joanna; children Dean Clardy, Melanie Herd, Mary Beshero, Jami Hellman and Terri Potts; and his 11 grandchildren.

"It is hard work, dedication and unbounded belief in yourself combined with great ideas that make start-ups and people succeed," Clardy said.

—Story by Kim Cowart

From Iraq, Jeremiah Manning "Represents the Spirit of our Department"



Lt. Jeremiah Manning

After his workday has ended and his fellow soldiers take time to unwind or sleep, Manning continues his daily routine by logging on to a

Lt. Jeremiah Manning endures a grueling work schedule in 115-degree heat while serving the U.S. military as a construction engineer in Iraq.

civil engineering course offered via distance education at the University of Tennessee, Knoxville.

Manning expects to complete a Master of Science in Civil Engineering (with a concentration in construction engineering) degree this summer through UT's Department of Distance Education and Independent Study.

"It feels good to know that I will have been able to do this one thing for myself this year here in

Iraq," Manning says.

Dr. Dayakar Penumadu, professor and interim department head of UT's Civil and Environmental Engineering, says Jeremiah "represents the spirit of our department."

"Distance education is one of the tools that allowed his remote interaction with professors in the classroom and provides our faculty with a unique opportunity to bring some sense of normality back in the

life of student soldiers such as Lt. Manning," Penumadu says. "We are very appreciative of his dedication to his graduate studies and service to this great country."

Manning expects to complete a Master of Science in Civil Engineering (with a concentration in construction engineering) degree this summer through UT's Department of Distance Education and Independent Study.

—Story by Eddie Jenkins

Development Personnel

The Engineering Development Office has added three new staff members since the hiring of Dorothy Barkley Bryson as Interim Senior Director in February 2008.



Denis Tippo

Denis Tippo joined the Engineering Development Office on May 1, 2008, as Director of Development. Tippo was previously the Director of Major Gifts and Planned Giving at the National Parkinson Foundation in Miami, Fl. After moving to Monteagle, Tenn. in 1999, Tippo became the Associate Director of Development at the St. Andrew's-Sewanee School in Sewanee, Tenn., where he helped to run a capital campaign. From 2002 to 2006, Tippo formed his own independent consulting business providing fundraising services for non-profit organizations in and outside Tennessee, including churches, schools and colleges.

During his career, Tippo has served as an alumni relations director, annual fund director and

major gifts fundraiser at a variety of higher education institutions, including Yale University, the University of Massachusetts/Amherst and Warren Wilson College in North Carolina. He also has served as campaign director at the Norfolk Botanical Garden in Virginia.

Tippo received a B.A. in American and Asian History from Yale University and earned a Master's degree in Higher Education Administration from the University of Massachusetts/Amherst.



Tierney Bates

Tierney Bates joined the Engineering Development Office as Assistant Director on May 12, 2008. He has been at UT for three years, working in Minority Student Affairs.

Bates is from Cleveland, Ohio, and received his Bachelor of Arts in

Mass Media Communications with a minor in African-American History and his Master of Arts degree in Higher Education Administration from the University of Akron.

Bates is the president of the Knoxville Area Urban League Young Professionals, a board member of the Urban League, a member of Phi Beta Sigma Fraternity, Inc. and is a 2008 UT Chancellors Citation Award Recipient.



Christina Parsons

Advancement Specialist I **Christina Parsons** is also a new member of the Engineering Development Office staff. Parsons was previously with the COE's Academic Affairs Office. She joined the development office on July 1, 2008.

Originally from Delaware, Parsons came to Tennessee when her husband relocated through his job with Norfolk and Southern Railroad. She received her Bachelor of Science in General Studies from Wilmington University in Wilmington, Del.

For more information, contact the Engineering Development Office at (865) 974-2779 or at engrdev@utk.edu.

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(BS/NE '65, MS/NE '67, PhD/NE '71)
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Knoxville, Tenn.

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(BS/ME '84, MBA '00)
Director, Composite Manufacturing Center,
Boeing Fabrication
The Boeing Company
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Mr. Howard E. Chambers
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Knoxville, Tenn.

Mr. Andrew K. Phelps
Vice President
Bechtel Jacobs Company, LLC
British Columbia, Canada

Mr. James B. Porter Jr.
(BS/ChE '65)
Retired
Wilmington, Del.

Mr. Richard T. Snead
(BS/IE '73)
President and CEO
Carlson Restaurants Worldwide
Carrollton, Texas

Mr. Eric L. Zeanah
(BS/IE '84)
President/Owner
American Accessories
International Knoxville, Tenn.

1940s

Walter P. Bussart (BS/CE '42) retired as vice president of Eastman Chemical Product Inc. He lives in Kingsport, Tenn.

1970s

Hugh K. Wolfe (MS/EE '73) has written *Children of the Creative Force* based upon the readings of the American psychic Edgar Cayce and modern science. He lives in Huntsville, Ala.

1980s

Gerald Stump (BS/CE '82) was named a fellow of the American Council of Engineering Companies. He lives in Franklin, Tenn.

Michael W. Ellis (BS/ME '85) is a new John R. Jones Faculty Fellow in mechanical engineering at Virginia Tech. He lives in Blacksburg, Va.

1990s

Anita M. Katti (Ph.D./CE '90) is working on a \$62,000 grant from the Japanese technology-based company, Daiso Fine Chemicals, to advance technology that contributes to improved pharmaceutical products at Purdue University Calumet. She lives in Munster, Ind.

Raymond L. Wall (BS/EE '90) joined Barge Waggoner Sumner & Cannon Inc. as chief information officer. Wall earned a master's of business administration 2007 from the College of Business Administration. He lives in Louisville, Tenn.

Stefan M. Duma (BS/ME '95) was appointed a John R. Jones Faculty Fellow mechanical engineering by the Virginia Tech Board of Visitors. He lives in Blacksburg, Va.

2000s

David Wayne Wilhite (MS/CE '02) was promoted to lieutenant commander in the U.S. Naval Reserves. He lives in Waldorf, Md.

Laura Oller Jackson (BS/NE '06) joined ABS Consulting as a risk/reliability engineer. She lives in Piney Flats, Tenn.

Memorials

Robert L. Schroeder (BS/IE '52) died May 11, 2008. He lived in Boulder, Colo.

P.W. Hembree, Jr. (BS/ME '47) died June 2, 2008. He lived in Fountain City, Tenn.

Ravinder K. Sood (BS/ME '58 MS/ME '65) died May 16, 2008. He lived in Knoxville, Tenn.

James E. Willard, Jr. (BS/CE '53) died April 21, 2008. He lived in Knoxville, Tenn.

Aubrey L. Fly (BS/CE) died February 23, 2008. He lived in Nashville, Tenn.

Marteace Yvette George (BS/CE '93) died April 21, 2008. She lived in Huntsville, Ala.

Nealie Thomas (Andy) Anderson (BS/CE '55 MS/CE '56) died May 12, 2008. He lived in Fairfield Glade, Tenn.

James Franklin Liafsha (BS/ME '51) died May 7, 2008. He lived in Oak Ridge, Tenn.

Bill Ira Leinart (BS/EE '86) died June 16, 2008. He lived in Clinton, Tenn.

Karol P. Barrick (BS/EE '87) died June 3, 2008. She lived in Charlotte, NC.

Robert "Bob" C. Kelly (MS/IE '54) died June 7, 2008. He lived in Knoxville, Tenn.

Joseph Clyde Wilson (BS/E '40) died June 6, 2008. He lived in Dickson, Tenn.

Wesley Ennis Patton Jr. (BS/CE '33) died June 19, 2008. He lived in Florence, Tenn.

Clarence C. Walker Jr. (BS/EE '52) died June 19, 2008. He lived in Fountain City, Tenn.

Ronnie Spencer Roberts, PhD. (MS/CE '72 PHD/CE '76) died June 22, 2008. He lived in Pascagoula, Miss.

Billy Wayne "Bill" Strickland (BS/EE '62) died June 28, 2008. He lived in Powell, Tenn.

Former COE Employees are Remembered

The college recently lost two former employees.

Dr. John M. Holmes, former professor of chemical engineering in the University of Tennessee College of Engineering, died on Saturday, October 4, 2008. Holmes was a graduate of Clarkson University, NY with a bachelor's degree in chemical engineering, a graduate of the University of Delaware with a master's degree in chemical engineering, and a graduate of the University of Tennessee with a Ph.D. degree in chemical engineering. He worked for Union Carbide in Oak Ridge with the Department of Energy on coal research. After retiring from Union Carbide, he became a member of the faculty in the Department of Chemical Engineering at the University of Tennessee.

Mrs. Joyce Calloway Johnson died on Tuesday, June 24, 2008. Johnson was employed by the university for over 29 years, and spent 24 years of that time with the COE working in the Office of Professional Practice.

William James McClain (MS/EE '62 PHD/EE '69) died July 5, 2008. He lived in Asheville, NC.

Ronald J. "Hank" Thompson (BS/EE '62) died July 6, 2008. He lived in Hendersonville, Tenn.

Charles E. "Charlie" Rhodes (BS/E '65) died June 28, 2008. He lived in Franklin, Tenn.

Bennett A. Barr (BS/CE '62) died July 1, 2008. He lived in Knoxville, Tenn.

Dennis Arthur Reed (BA/CS '76, BA/MATH '80, BS/EE '81 and MS/EE '82) died July 11, 2008. He lived in Knoxville, Tenn.

Chester S. Meadors (BS/IE '62) died July 14, 2008. He lived in Farragut, Tenn.

Robert Joseph "Bobby Joe" Bowman (BS/CE '61) died July 27, 2008. He lived in Knoxville, Tenn.

Charles C. Padgett (BS/ME '72) died July 26, 2008. He lived in Huntsville, AL.

William A. (Bill) Fortune (BS/CE '49) died August 7, 2008. He lived in Knoxville, Tenn.

John D. Reddick Jr. (BS/ME '45) died July 31, 2008. He lived in Alexandria, Va.

Norman C. Stranber (BS/CE '56) died August 11, 2008. He lived in Forth Worth, Texas.

Thomas C. Dempster, Jr. (BS/ME '40) died August 11, 2008. He lived in Knoxville, Tenn.

Herbert M. "Bo" Scull, Jr. (BS/CE '62) died August 20, 2008. He lived in Oak Ridge, Tenn.

G.C. Davis (BS/ChE '47) died August 10, 2008. He lived in Honolulu, HI.

George Barnes Jr. (BS/EE '50) died September 13, 2008. He lived in Knoxville, Tenn.

Ralph Martin Pierce (BS/ME '50) died September 15, 2008. He lived in Athens, Tenn.

Joe Douglas "J.D." Wilkerson (BS/CE '59) died October 4, 2008. He lived in Asheville, NC.

John Macdougall Holmes (Ph.D./CE '70) died October 4, 2008. He lived in Huntsville, AL.

William Ernest Manrod III (MS/CE '76) died October 10, 2008. He lived in Knoxville, Tenn.

Reverend John Leon Oglesby, Jr (BS/CE '42) died October 23, 2008. He lived in Cordova, Tenn.

Check out the College of Engineering's online newsletter

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<http://www.engr.utk.edu/TNengr>

Diversity Office Hosts Awards Luncheon for TLSAMP



TLSAMP Award Winners

The COE's Engineering Diversity Programs Office (EDP) hosted an awards luncheon for its National Science Foundation-funded, Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP) Summer Bridge program on Friday, August 8, 2008, at Calhoun's on the River. The event theme was "Building Bridges-Building Futures" and the keynote speaker was Mr. Mark Burnett, Vice President for Student Affairs at Tennessee Technological University. Awards were presented to students in the TLSAMP Summer Bridge Program. EDP also celebrated the renewal of funding for both the TLSAMP program and the Department of Energy's Pipeline Engineering Diversity Program. Total funding received for both programs was \$826,780. James Pippin is the director of the college's diversity initiatives.

COE Alumnus Receives Distinguished Award from NASA



Robert D. Adams

Boeing engineer and COE alumnus **Robert D. Adams** (BS/Aero '90) has received the NASA Spaceflight Awareness Honoree for his research work, which led to the discovery of metal debris in moving parts on the International Space Station (ISS). This award is one of the highest recognitions presented to NASA and industry employees. Adams has been employed by Boeing since 1990 and played a lead role during investigations of technical difficulties on a space mission in 2007. Adams received the award on May

31, 2008 at an evening reception after the launch of the Space Shuttle "Discovery" at Kennedy Space Center in Florida.

CEE Professor Receives Power Award

COE Interim Dean **Wayne Davis** (left) presents the Ralph E. Power Junior Faculty Enhancement Award to **Dr. QiuHong Zhao**, an assistant professor in the Department of Civil and Environmental Engineering. The recognition provides seed money for research by junior faculty at Oak Ridge Associated Universities member institutions. The awards are intended to enrich the research and professional growth of young faculty and result in new funding opportunities. In 2008, ORAU received 107 applications and awarded 30 grants.



OPP Hosts Annual Welcome Back Cookout



OPP Cookout Line

The Office of Professional Practice welcomed over 1,000 College of Engineering students, faculty and staff to their annual cookout on Friday, September 12, 2008. The event, sponsored by Alcoa, Altec, Denso, Eastman, Lexmark, Shaw Industries and TVA, featured a delicious barbeque luncheon, displays and opportunities to network with representatives from the sponsoring organizations.

New Engineering Freshmen Enjoy Open House

Incoming freshmen engineering students were welcomed during an Open House on Sunday, August 17, 2008, at the Science and Engineering Research Facility. Over 180 students attended to enjoy information exhibits, conversation with department heads and faculty, and opportunities for prizes. The event was part of the university's "Passport to Success," which seeks to encourage student retention by acclimating freshmen to the UT-Knoxville campus prior to the beginning of the fall semester.



Freshmen at the COE Open House

MSE Department Head is Named Chancellor's Professor



Dr. George Pharr

Dr. George Pharr, professor and head, Department of Materials Science and Engineering, was recently named to the inaugural class of the University of Tennessee's Chancellor's Professors. This recognition is the highest honor that can be accorded a member of the faculty at the University of Tennessee-Knoxville, and recognizes extraordinary, nationally or internationally recognized scholarly attainment in an individual discipline or field as well as a record of excellence in teaching and service to the campus.

Pharr received his award at a ceremony that took place at the University Center on October 21, 2008.

MABE Student Competes in Olympic Trials



Michael Wolfe

Michael Wolfe, a senior majoring in mechanical engineering, competed in July at the U.S. Olympic Swim Team Trials in Omaha, Neb. Wolfe earned a top 12 spot in the men's 200 meter backstroke semifinals, and just missed out on making the finals, finishing 12th in the semis. He also competed in three other events, which included a 28th place finish out of over 70 swimmers in the 100 meter backstroke heats. Wolfe is due to graduate in December, 2008.

Calendar

2008

Homecoming	Nov. 8
Thanksgiving	Nov. 27-28
Classes End	Dec. 2
Fall Commencement	Dec. 13
Winter Holiday	Dec. 22-26
New Years Day	Jan. 1

2009

Classes Begin	Jan. 7
MLK Holiday	Jan. 19
Spring Break	Mar. 16-20
Spring Recess	Apr. 10
Classes End	Apr. 24
Commencement	May 8

Contact Information

Senior Administration

Dr. Wayne Davis, *Interim Dean of Engineering*
 Dr. Wes Hines, *Interim Dean for Research & Technology*
 Dr. Masood Parang, *Associate Dean for Academic & Student Affairs*
 Dr. Luther Wilhelm, *Associate Dean for Special Projects*

Departments

Chemical and 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 Research	974-8360
Engineering Student Affairs	974-2454
Finance & Admin. Affairs	974-5279
Office of Professional Practice	974-5323

Research Centers

Materials Processing	974-0816
Maintenance & Reliability	974-9625
Scintillation Materials	974-0267
Transportation Research	974-5255

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600 Students Enjoy Engineers Day 2008

Over 600 high school students from 30 schools across the region came to the UT-Knoxville campus on Thursday, October 16, 2008 for Engineers Day. The event is a College of Engineering tradition that has been observed since 1912. Visiting participants enjoy discussions, project demonstrations, exhibits and a great deal of fun with COE students and faculty. **Dr. Bert Ackermann**, a nuclear engineering graduate and a member of the college's Board of Advisors, was the keynote speaker at the opening ceremony. The event also included the Quiz Bowl, where teams of four compete in a written examination. Quiz Bowl competition winners for 1st and 2nd place for this year were two teams from Farragut High School and the third place winners were a team from Lenoir City High School. Class 1 winners in the exhibit competition included the American Society of Agricultural and Biological Engineers, the Materials Advantage Society, and the American Society of Civil Engineers student chapter.



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