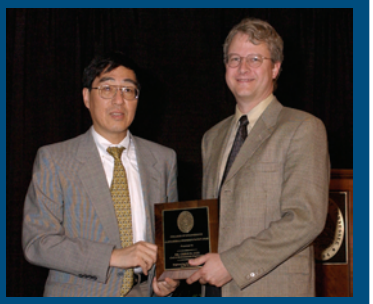
THE CORNERSTONE

News from the Department of Civil and Environmental Engineering at the University of Tennessee, Knoxville

Volume 3, Issue 1
November, 2005



Jane Taylor, Principal Secretary for the CEE department *(center)*, was presented the University's **Send Roses Award** for October 2005 by UT Knoxville Chancellor Loren Crabtree *(right)* and Executive Director of Human Resources Alan Chesney *(left)*. Jane's courteousness and positive work ethic inspired her nomination by co-workers. She will get her own reserved parking place for the month.



Dean Way Kuo *(left)* presents the Allen & Hoshall Engineering Faculty Award to Dr. Chris Cox *(right)* at the COE Honors Banquet on April 12th, 2005.

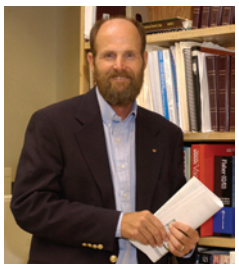
Good Things

▲ The National ASCE Committee on Student Activities awarded a Certificate of Commendation to the UT ASCE Student Chapter based on the chapter's 2004 activities. The certificate is awarded to the top 10% of the student chapters.

▲ The Steel Bridge Team competed against 44 other schools at Nationals on May 27 and 28 in Orlando. Congratulations for a 2nd place finish in construction speed, and a 3rd place finish in economy.

THE UNIVERSITY of TENNESSEE
College of Engineering

A Message from the Interim Department Head



Dr. Eric Drumm

This is a dynamic time in the Department of Civil and Environmental Engineering (CEE), with two new buildings in the early design phase, the arrival of three new faculty members, and a strong performance by our students, faculty and staff, all accompanied by a temporary change in department leadership. As a result of his effective leadership for many years as the department head of CEE, Greg Reed was asked by University Chancellor Loren Crabtree to assume the position of Interim Dean of the College of Communication and Information Sciences. Until Greg's return on July 1, 2006, we have continuity provided by Associate Department Head Dick Bennett and the departmental staff, and I will serve as the Interim Department Head.

We are excited about the arrival of three new faculty members this fall (see page 2 for profiles), with doctorates from the University of Illinois–Urbana-Champaign, University of Nebraska–Lincoln and University of California–Berkeley.

The department faculty continued their strong record of funded research and scholarship. The Center for Transportation Research, where CEE is responsible for about 35% of the approximately $9 million in research funding last year, was recently incorporated into the organization of the College of Engineering. Other new research activity includes the formation of the Southeastern Water Resources Conservation Center.

Our students are performing exceptionally well. They consistently exceed the national average on the FE exam (see chart below), the ASCE student chapter has been recognized both regionally and nationally, and our graduates continue to be in demand by employers around the country. We are attracting increasing competitive classes of incoming freshmen to the college, with average ACT scores increasing from 25.8 in 2003 to 26.3 in 2004 to over 28 in 2005.

2004-2005 Departmental Profile	
Number of Faculty Positions	21
Number of Undergraduate Students	250
Number of Graduate Students	140
Research Funding per Faculty	$300,656
Refereed Publications per Faculty	2.8
Percent of Passing FE Exam	95%



The updated Estabrook will keep its classic facade while having its interior replaced with state-of-the-art classrooms, research labs and offices.

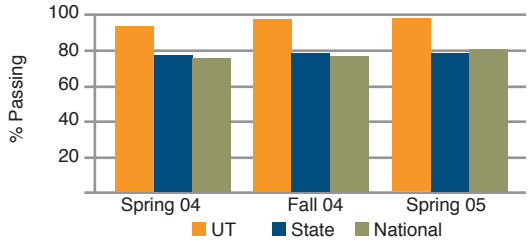
The reconstruction of Estabrook Hall, which was initially constructed in 1889 and is the second oldest building on campus, received approval for $16.6 million dollars in funding from the state legislature. The new facility will provide about 48,000 square feet of classroom, laboratory and office space. When complete in about three years, the Department of Civil and Environmental Engineering will be the sole occupant of the state-of-the-art building.

A second new building impacting the department will be the Joint Institute for Advanced Materials (JIAM). The JIAM is a new joint research center with Oak Ridge National Lab (ORNL), and will focus on advanced multidisciplinary materials research, including transportation materials. This research center, to be located on the UT campus, recently received $20 million in federal funding secured through efforts of Tennessee Senators Bill Frist and Lamar Alexander. Additional funding is anticipated from the state of Tennessee to assist with construction and research equipment. This facility will be used by materials researchers from UT and ORNL, and several CEE faculty members are expected to have research space and equipment in the new building.

Although there are a number of changes underway in the department, we anticipate that we will continue with another productive year during the 2005-2006 academic year.

—Eric C. Drumm, P.E., Ph.D.
CEE Interim Department Head

FE Performance



CEE Department Welcomes Three New Faculty


Dr. Agnihotri

Dr. Sandeep Agnihotri joined the faculty of the Department of Civil and Environmental Engineering at the University of Tennessee in August 2005. He received his Ph.D. degree in environmental engineering from the University of Illinois–Urbana in 2005.

His research areas include characterizing nanostructured adsorbents for air pollution control, determining environmental impacts of nanocarbons, nanosensors for air pollutants and air pollution mitigation and control.


Dr. Ma

Dr. John Ma also joined the faculty of the CEE Department at the University of Tennessee in August 2005. He received his Ph.D. from the University of Nebraska–Lincoln in 1998. Prior to his current position, he was a faculty member at the University of Alaska in Fairbanks for six years. He is a registered professional engineer in Nebraska.

His research areas include the behavior and design of prestressed concrete bridges; mechanics and applications of high performance concrete and fiber reinforced polymer composites; and accelerated construction in highway bridges.


Dr. Zhao

Dr. Qiuhong Zhao joined the faculty of the CEE Department at the University of Tennessee in October 2005. She received her Ph.D. degree in structural engineering from the University of California–Berkeley in 2005. She earned her M.S. and B.S. degrees in structural engineering from Tianjin University, China, in 1999 and 1996, and her B.A. degree in English from Tianjin University, China, in 1996.

Her research is focused on behavior of steel and composite structures, with an emphasis on design issues for earthquake engineering, blast and impact resistance. She works on application of large-scale experimental studies and advanced finite element analytical studies to the performance-based design of steel and composite structures.

UT Students Shine at ASCE Section Meeting

At the recent ASCE Tennessee Section meeting in Smyrna, Tenn., a statewide student competition was held with the team of **Paul Karakashian, Stephanie Hargrove, Renee Frei and Wes MacDonald** taking first place and winning $500 for the Student Chapter of ASCE. The UT students defeated nine other teams including Vanderbilt University, the University of Memphis, and Tennessee Technological University. **Wes MacDonald** also received the Tennessee Section *Outstanding Student Award.*

CEE Department Honors and Awards

▲ CEE Interim Department Head and Professor **Dr. Eric Drumm** received the *Peter C. Hoadley Award for Outstanding Engineering Educator* at the 18th Annual Meeting of the Tennessee Section of the American Society of Civil Engineers (ASCE). This is the highest honor presented by the ASCE Tennessee Section Award committee. Professor Drumm is the first UT faculty member to receive this prestigious award.

▲ **Dr. Dayakar Penumadu** was selected as winner of the Best Paper Award for "Characterization of Rheological Properties of Lost Foam Casting Coating Slurries" by the American Foundry Society (Div. 11) for 2005 in recognition of outstanding contributions to the advancement of the lost foam casting process.

▲ **Dr. Greg Reed** has been appointed to the ABET Engineering Accreditation Commission. He also received the Distinguished Service Award from the Tennessee Society of Professional Engineers at the organization's annual meeting in Memphis, Tenn., on June 17.

▲ **Scott Beaird**, an M.S. student under Dr. Tom Urbanik who graduated this past spring, won first place in the 2004-2005 TSITE Student Paper Competition for his paper entitled "Signal Timing at Diamond Interchanges; A State of Practice." He received $250.

▲ **Amit Prashant**, Ph.D. student under Dr. Dayakar Penumadu, was awarded the Young Researcher Fellowship from MIT.

▲ **Chris Carroll** was presented the "Award of Excellence" at the Annual GT STRUDL User's Group Meeting based on his master's thesis work, which he completed in spring 2005 under the direction of Dr. Ed Burdette.

▲ The UT student chapter of **Institute of Transportation Engineers** (ITE) won the "Jeopardy-Based Traffic Bowl" at the Southern District of the Institute of Transportation Engineers (SDITE) conference held April 10-13 in Savannah, Georgia. The winning group was awarded $3,000 toward a scholarship for the university's ITE chapter.



CEE honorees at the 2004–2005 COE Honors Banquet included *(left to right)*: **Michael Massey** and **Joseph Barbeauld**, John Callaway Academic Achievement Awards; **Dr. Randy Gentry**, Teaching Recognition Award; **Dr. Chris Cox**, Scholar Recognition Award; **Dr. Terry Miller**, Research Recognition Award; **Dr. Lee Han**, Service Recognition Award; **Dr. Richard Bennett**, Outstanding Teaching Award; **Jane Taylor**, Staff Recognition Award; and presenter **Dr. Greg Reed**.

Civil & Environmental Engineering Department Contributors

The society and club memberships are based on a donor's lifetime giving to the University of Tennessee. Those listed as CEE donors made gifts or pledges from October 1, 2004 to October 31, 2005.

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(continued on next page)

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Making a Difference Through Giving

The philanthropy of alumni, friends and corporate partners makes a significant difference to the CEE Department. Through the years, as the department's allocation from the state budget has stayed level or, as in last year, declined, it becomes more difficult for us to strengthen our educational program so that we can best prepare our students to compete when they graduate. Private support from individuals, businesses and foundations is critical for giving us the resources necessary to open these doors of opportunity for our students.

The CEE Department appreciates the many annual gifts made by our alumni. Sometimes, donors consider making larger commitments through outright, stock or planned/estate gifts that will have an even longer lasting impact on the department. Currently, we have several areas of particular need for funding:

- Undergraduate Scholarships
- Graduate Fellowships
- Laboratory Teaching Equipment
- Named Faculty Professorships

These gift opportunities can all dramatically improve the department's efforts to recruit outstanding students, provide students with state-of-the-art practice equipment and attract highly qualified faculty to teach our students and conduct research.

If you are interested in learning more about these philanthropic options, please contact Patty Shea, Interim Director of Engineering Development, at (865) 974-2779 or pwshea@utk.edu.

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Husband and Wife Share 2005 Outstanding CEE Alumnus Award

For the first time the Civil and Environmental Engineering Department had co-winners of the annual Outstanding Alumnus Award, Ronald A. Cook and Kathy J. Caldwell, husband and wife. Ron received B.S. and M.S. degrees in civil engineering in 1975 and 1981, respectively, and Kathy received her B.S. in civil engineering in 1985. Both of them have gone forward to highly successful careers, Ron in academe and Kathy as an engineer/project manager.

After several years at TVA and five years as an individual consultant, Ron went to Austin, Texas, in 1986 to begin doctoral work. He and Kathy were married at that time, and Kathy went from her position as a structural engineer with Lockwood Greene Engineers in Oak Ridge to a position as project manager with Parkhill, Smith and Cooper in Austin. Three years later, Ron received his Ph.D. and accepted a position as Assistant Professor of Civil Engineering at the University of Florida in Gainesville. Kathy left her position with Parkhill, Smith and Cooper to accept a position as Vice President and Project Manager with Jones, Edmunds and Associates in Gainesville.

Since 1989, Ron has gone on to become Associate Professor and then Professor at the University of Florida. He has been extremely active in the area of anchorage to concrete, serving as chairman of ACI Committee 355 as a member of that sub-committee of ACI Committee 318, which deals with anchorage to concrete. He has published numerous technical papers and is recognized internationally as an authority in the field of anchorage to concrete.

Kathy, meanwhile, has had a variety of successful experiences as project engineer and manager for a number of multi-million dollar projects with Jones, Edmunds and Associates and JEA Construction Engineering Services, Inc. In 1999, Kathy was named president of JEA Construction Services, Inc., the position that she currently holds. When she was a senior in civil engineering at Tennessee, Kathy was president of ASCE. She has continued to contribute to undergraduate education in civil engineering by working closely with the ASCE Student Chapter at the University of Florida.



Dr. Ronald Cook and his wife Kathy Caldwell *(center)* accept their 2005 Outstanding CEE Alumnus Awards from Dr. Ed Burdette *(left)* and Dr. Greg Reed *(right)*.

Both of the co-winners of this year's Outstanding Alumnus Award have had exemplary careers in civil engineering, careers that reflect positively on our own department of civil engineering. We are pleased and proud to recognize the husband and wife team of Ron Cook and Kathy Caldwell as this year's co-recipients of our annual award.

CEE Scholarships Awarded for 2005–2006

Tennessee Road Builders Scholarship Awardees
Patrick Combs
Edwin Deyton
Renee Frei
Stephanie Hargrove
Wesley MacDonald
Candice Owen
William Ragland
Kyle Scoble
David Spinks
Kelli Taylor
Andrew Tinsley
Tyler Williams

C. Bryan Blalock Memorial Scholarship
Ross Shaver

J. W. Lonas Memorial Scholarship
Michael Quarles

Jere B. Ford Scholarship
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Jeremy Nafziger
Stephen Riley

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James Hawkins
Rebecca Lind

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Brian Haas

John Milton Snoderly Scholarship
Samuel Moore
Jacquelyn McCurry

CEE Alumni Scholarship
Kevin Crumley
Stephen Horne
Kacie Flynn
David Marcum
David McMackin
Matthew Parker
Adam Ritter
Frank Smith
Jonathan Watson

ASCE Student Chapter Wins Southeast Regional Conference

In April, 39 CEE students traveled to Tuscaloosa, Ala. where they participated in the ASCE Southeast Regional Student Conference. The group completed against over 800 other civil engineering students from 22 other schools across the southeast. The UT student chapter placed first overall, and also placed in one of the top three positions in eight of the 12 events in the competition. The students won first place in four events: "Balsa Wood Tower," "Environmental Engineering," "Plan Reading" and "Surveying." They placed second in "Geotechnical Engineering" and in "Technical Paper" and won third place in "Concrete Cylinders" and in the "Steel Bridge" competition. Other events included the "Concrete Canoe," "T-shirt Design," "Visual Display" and "Concrete Horseshoes." The third place finish in the "Steel Bridge" event qualified the team for the national competition, which was held May in Orlando, Fla. Forty-four universities from the US and Canada competed for the national title. UT placed 2nd in construction speed, and 3rd in economy and 17th overall. Representing UT at the national competition were Andy Garrett (team captain), Sarah Janney, Michael Quarles, David Spinks, Geremy Billingsley and Paul Karakashian.



Six students represented UT at the Region 2 ASCE Workshop for Student Chapter Leaders (WSCL) in Orlando, Fla, Jan 21 - Jan 24. *(Left to right)* **Mary Griffey, Reggie Regenold, Wes MacDonald, Rebecca Lind, Joseph Hull** and **Rachel Henry** attended the workshop which was held in conjunction with the Region 2 ASCE Meeting, where they received leadership training, information about the ASCE and tips on operating a more effective Student Chapter.

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CEE Calendar of Events 2005 / 2006

2005

Classes End.....Dec. 6
Fall Commencement.....Dec. 17

2006

Classes Begin.....Jan. 11
Spring Break.....Mar. 20-24
ASCE Student Conference.....Mar. 29-Apr. 1
Spring Honors Banquet.....Apr. 28
Classes End.....Apr. 28
Spring Commencement.....May 12
ASCE Golf Tournament.....July

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UT does not discriminate on the basis of sex or handicap in its educational programs and activities pursuant to requirements of Title IX of the Education Amendments of 1972, Public Law 92-318; and Section 504 of the Rehabilitation Act of 1973, Public Law 93-112; and the Americans with Disabilities Act of 1990, Public Law 101-336, respectively. This policy extends to both employment by and admission to the university.

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