USC Hosts Carolinas Conference

USC’s Walter E. Rowe chapter of the American Society of Civil Engineers hosted the Carolinas Conference this April. The schools that participated in the conference were: The Citadel, Clemson University, Duke University, Georgia Institute of Technology, North Carolina State University, North Carolina A & T State University, South Carolina State University, Trident Technical College, and the University of North Carolina at Charlotte.

Not only did our students do an excellent job organizing the event, but they also placed third overall in the competitions and received the following awards in these areas:

- Quiz Bowl - 1st Place
- Geotechnical (Reinforced Earth Wall) - 2nd Place
- T-Shirt - 2nd Place
- Tug-O-War - 2nd Place
- Technical Paper - 3rd Place
- Water Fountain Fun - 3rd Place (tie)
- Canoe Co-ed Sprint - 3rd Place

Also, Conference Chair Beth Kelly received the Caroliniana Award for her outstanding work in organizing the Carolinas Conference. This award recognizes seniors who have shown tremendous leadership in a student organization.

Endowed Scholarship Established in Dr. Bradburn’s Name

The Dr. J. Hugh Bradburn Endowed Scholarship Fund has been established, thanks to the generosity of Mr. and Mrs. Hamilton Lott. The scholarship, from a $100,000 endowment, will be available to USC Civil Engineering students beginning in 2006.

Mr. Lott, a 1972 USC graduate, is the Executive Vice President of Nucor Corporation in Charlotte, NC. “I was privileged to have Dr. Bradburn as my teacher. He was a very inspiring professor,” stated Mr. Lott.

The new scholarship is a fitting tribute to Dr. Bradburn’s career, especially in light of his upcoming retirement in June. For more information, see the story on page 3.

Departmental Design Studio

Undergraduate students taking design courses have a new studio to call home. It will provide individual work space for design teams, as well as storage for their work products.

There will be a resource library with up-to-date building codes and reference materials, a practice room for presentations, computers with design software, and a plotter.

Utilizing external resources, our faculty, staff, and students have worked hard to bring it all together.

We would like to give special thanks to the LPA Group for providing architectural services for preparing the layout drawing and to our Advisory Board Member Chip Stehmeyer for his time and efforts in making the studio a reality.

Advisory board members,
Message from the Chair

It is my pleasure to report that our undergraduate class size has been growing steadily from a low of 120 in 1996 to 222 this fall, in spite of national trends where the undergraduate enrollments at a number of top schools dropped by as much as 30 percent. The average SAT score of the freshman class has also increased and about 10% of our freshmen this year are honors students. All of our graduates are getting job offers at competitive salaries.

Our ASCE student chapter hosted the Carolinas Conference this year. Nine engineering schools from the southeast region attended and participated in various competitions. Our students were recipients of several awards, as listed on the front page.

Mr. Hamilton Lott (1972 graduate) and his wife are setting up an endowed scholarship in honor of Dr. Hugh Bradburn, who will be retiring next June. Dr. Dickerson will also be retiring at the end of this academic year. Both have been in the department for more than 30 years and the faculty, staff, and students will miss them for their availability, advice, and dedicated service to the department. We wish them happy days ahead during their retirement!

In order to strengthen and intensify design experience, the department has established a design studio with external help and resources. This will provide unique opportunities for each group of students to design their projects.

Our total research grants and contracts total about 4.6 million dollars with grants and contracts from various federal, state and other organizations. The number of full-time graduate students has grown in recent years and we graduated three doctoral and nine MS students last year. Two of our doctoral students are joining as faculty members this year.

As always, please write or e-mail your comments and please visit us if you happen to be in the area.

M. Hanif Chaudhry
Mr. & Mrs. Irwin B. Kahn Professor and Chairman

Faculty Awards

Dr. Steve McAnally received the College of Engineering & Information Technology Samuel Litman Award for Outstanding Teaching and Service for the 2004-2005 academic year.

Dr. McAnally has been serving as Undergraduate Director and was the coordinator of the recent ABET visit, for the accreditation of our Civil Engineering Program.

Dr. Charles Pierce received the University’s annual Mortarboard Excellence in Teaching Award and was also named Outstanding Referee for 2005 by Waste Management Magazine for technical paper review.

Dr. Pierce is the faculty advisor for our ASCE chapter and helped coordinate our recent Carolinas Conference.
Dr. Hugh Brandburn, will be retiring in June 2006 after 35 years as a professor at USC, including 9 years as Chairman of the CEE Department. Dr. Bradburn attended the Citadel where he obtained his B.S. in Civil Engineering and then received his M.S. and Ph.D. from North Carolina State University.

Dr. Bradburn’s professional interests include nonlinear analysis, finite element analysis, computer-aided design, cable structures data acquisition, and computer graphics in the area of structures.

Recently, Dr. Bradburn was nominated by his students for membership in Tau Beta Pi, the Engineering Honor Society which recognizes integrity and excellence in engineering. In recognition of his contributions to the field of engineering, he was honored as an Eminent Engineer.

After 30 years of teaching at USC, Dr. John Dickerson will be retiring at the end of this coming Spring semester. Before settling in Columbia, Dr. Dickerson taught at the University of Texas and Georgia Institute of Technology. He obtained both his M.S. and Ph.D. in Applied Mechanics at California Institute of Technology.

Dr. Dickerson has provided consulting services for firms such as Tamper, Kline Iron & Steel, and Tracor, Inc. and participated in a Faculty Fellowship with NASA.

He is well known for providing unique solutions to complex problems ranging from analytical studies to laboratory facilities and experimental setups and research. Both former and current students say they enjoy his offbeat analogies to help them remember complex dynamic equations!

 Tau Beta Pi Initiation

Four CEE faculty members were recently inducted into the engineering honor society Tau Beta Pi. As part of the induction ceremony, the professors were required to polish the TBP “Bent” located outside of Swearingen Engineering Center as shown in the picture.

From clockwise they are Drs. Jasim Imran, Richard Ray, Liv Haselbach, and Hugh Bradburn.
Graduate Student Wins Award

Ahmed Abd El Sattar was awarded first place at the Graduate Student Day in the Information and Technology Category, winning $1,000.

Ahmed is the fourth Civil & Environmental Engineering student in five years to win first place at the Graduate Student Day. The title of his presentation was “The Detection of Stenosis in Cardiovascular System Using the Frequency Response.”

Ahmed is working under Dr. Hanif Chaudhry for his dissertation and Dr. John Dickerson has been providing technical advice and assistance for building the laboratory set-up.

In addition to working hard in the labs, Ahmed also became a devoted father this year. He and his wife, Yousra, welcomed a beautiful baby girl, Malak, in March. They are natives of Egypt and he is shown in the photograph wearing the traditional crown of the pharaohs.

Undergraduate Student Spotlight

Matt Hodge, a December 2004 Civil & Environmental Engineering graduate, was awarded a National Science Foundation Graduate Research Fellowship. He also won the Department of Homeland Security Graduate Fellowship and the Tau Beta Pi Undergraduate Scholarship during his sophomore year. In addition, Matt was a finalist for the Truman Fellowship and the Paul and Daisy Soros Fellowship for New Americans, the first USC student to receive that honor.

Matt is currently a graduate student at MIT in the Technology and Policy Program within the Engineering Systems Division, where he is working with Dr. John Ochsendorf. Their department “…focuses on many of the engineering elements that contribute to sustainability of built environment,” says Matt.

Enrollment Trends
Student News & Awards

NSF Graduate Research Fellowship
Matt Hodge
Graduate Student Day Presentation Winner, Info & Technology Category
Ahmed Abd El Sattar
Outstanding Graduate Student
Ed Stehmeyer
CEE Outstanding Senior Award
Ty Anthony Stokes
Caroliniana Award
Beth Kelly
Paul & Daisy Soros Fellowship Finalist
Matt Hodge
Russell B. Maxey Scholarship
Jeffrey Barwick
Sean Burns
Gilbert H. Rowe Scholarship
Hannah R. Berry
Jared T. Bramblett
Charles William Deep
Eric T. Fox
Robert Freeman
Alvin Talbot "Tab" Henderson
Lindsey Ann Larocque
Wilbur Smith Associates Scholarship
Robert Lee Drummond
Justin Waring
Richard B. Pool Scholarship
Jason Edwards
Phillip A. Grainger
Jack Price Scholarship
Jack W. Heron, Jr.
Nicholas Redmond
Walter Rowe Scholarship
Samantha M. Kinard
Addison "Bryant" Potter
J. Carroll Johnson Scholarship
Graham Rambo
Bobbie Wilder
WPCA of SC Scholarship
Hannah R. Berry
Walter William Rogan, Jr.
Chao Structural Engr. Scholarship
Jared T. Bramblett
Theodoros Deligiannidis
Mr. & Mrs. Edward McCrady Henderson Scholarship
Keith B. Cannon, Jr.
Tyler Patrick Goff
Maille Bert Storey Scholarship
Jonathan Paul Edwards
Lebby-Ellis Scholarship
Steven J. Hall
Carson Williams Scholarship
Tristan J. Rackow
James Boyce Malone Sr. and Jr. Scholarship
Walter William Rogan, Jr.
Water Environment Association Scholarship
Keith Utheim

2005-2006 ASCE Officers
Jared Bramblett, President
Nicholas Redmond, Vice President
Tyler Goff, Secretary
Tab Henderson, Treasurer
Our ASCE chapter received an Honorable Mention from the National Headquarters this year!

2005-2006 Chi Epsilon Officers
Tyler Goff, President
Nicholas Redmond, Vice President
Amanda Hawkins, Secretary
Phillip Grainger, Treasurer
Hannah Berry, Editor
Paul Edwards, Marshall

2004-2005 Graduates

PhD Students
Ryan McCormick, ME
John Aidoo, PhD
Alvin Morrow, ME
Mohamed Elhakeem, PhD
Calvin Morrow, ME
Saiying Zhou, PhD
Edward Owens, MS
Marcie Timmons, ME
MS/ME Students
Srinivas Valavala, MS
Ayoade Adeyefa, MS
Huiying Zhu, MS
Richard Eckstrom, MS
Chad Enders, ME
Preston Felkel, MS
Robert Allgood, Jr., BS
Sourima Ghosh, MS
Christopher Bates, BS
Chetana Kommireddi, MS
Ted C. Bottomley, BS
Laura Maliszewski, MS
Scott Cline, BS
Undergraduate Students
Keith Coogler, BS
PhD Students
Matthew Hodge, BS
Christian Jones, BS
Beth Kelly, BS
Theo Deligiannidis, BS
Enoch Langston, BS
David McSweeney, BS
Shanna Neill, BS
Ross Oakley, BS
Ryan Oliver, BS
Kevin Pulis, BS
Michael Ray, BS
W. William Rogan, Jr., BS
Stephen Ross, BS
Phillip Sexton, BS

Congratulations, Graduates!
Alumni Information

Please complete and mail or fax back to the Department of Civil & Environmental Engineering
300 South Main Street Columbia, SC 29208
Fax: (803) 777-0670 Phone: (803) 777-9482

Name: ____________________________________________
Address: ____________________________________________
__________________________________________________________
Phone: __________________________ Email: __________________________
Degree and Year of Graduation: _______________________________________
Job Title: __________________________________________
Employer: __________________________________________

Financial support for the education of future engineers is an important key to the success of the department. If you would like to make a tax deductible contribution or would like additional information on funding opportunities, please check below.

Please make all checks payable to the USC Educational Foundation.

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[ ] CEE Equipment Fund

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Email: ______________________________
Phone: __________________________ Email: __________________________