

The Bulletin

ASCE / North Carolina Section

Volume 44 No. 5

May / June 2008

Mark your Calendar:

Sept. 10

NC Section 2008-09
Planning Session
Marriott Executive Park
Charlotte

Sept. 11-12

Joint NC / SC Section
Annual Meeting and
Golf Tournament
Marriott Executive Park
Charlotte

Nov. 6-8

138th Annual ASCE
Conference
Pittsburgh

PRESIDENT'S ADDRESS

Jeffrey Coonse, PE



Record high gas prices, foreclosure notices up, weakening dollar.....it's a lot of financial news to take on a daily basis. So what's an engineer to do? How will we continue to do well?

We'll do what we've always done: (1) uphold the safety, health, and welfare of the public, (2) perform with competence, (3) truthfulness, (4) faithfulness, (5) compete fairly, (6) act with integrity, and (7) develop professionally. These are our cannons.

Our collective experience and expertise are required at home where the demands on our aging infrastructure are ever increasing and abroad as a developing world seeks a better quality of life. We will continue to succeed by serving the public.

EWeek Report Jason Philbin, PE, Barrier Geotechnical Contractors

Sure, summer is here, but we can't forget about what took place during Eweek back in February. We must thank our North Carolina members for their efforts. A huge "THANK YOU" goes out to all those who volunteered this year. The list is too lengthy to include here. I have to say that our section members again stepped up to the plate to reach out to kids in elementary, middle and high schools throughout the state with class visits and career fairs.

Eweek outreach efforts mostly consisted of class visits by ASCE volunteers, typically done by one or two volunteers. Members lead engineering activities such as gum drop dome, engineering jeopardy, penny bridges and the human suspension bridge, to name a few. The section and branches each financially contributed towards purchasing Eweek supplies providing volunteers with giveaways for the kids. In fact, kids in Charlotte are beginning to associate the Southern Branch with the always popular giveaway, the bright colored slinkies. Over 200 slinkies were distributed this year to Southern Branch members thanks to the generous financial support from the Southern Branch and NC Section! Each branch was provided with up to \$500 for Eweek supplies. Eweek branch coordinators were responsible for using this money effectively in their areas. A special thanks to this year's branch coordinators, **Monica Loughlin** (Coastal), **Schweta Chervu** (Eastern), **Jessica Montgomery** (Northern), **Jason Philbin** (Southern), and **Matt Fogelman** (Western).

Continued on Page 3

Inside this issue:

Problem Corner	2
Member Achievement	4
Career Opportunity	4
Branch News	5
Member Profile	6
Corporate News	7
Important Notice	7

PROBLEM CORNER

An exactly 30-pound, 3' x 1' x 1' block of wood is carved into a statue weighing 20 pounds. Payment is for every cubic foot of wood cut away.

The artist states that 1/3 or 1 cubic foot was carved away. The owner states that the heart of the wood may be heavier by weight, or perhaps lighter than the outside. What is the simplest method to solve the problem?

Send your answers to Keith Rines, MBP Construction Engineering, 3101 Poplarwood Court Suite 301, Raleigh, NC 27604 or to krines@mbpce.com



Editor: RD Odell, PE
 421 Fayetteville St., Suite 1303
 Raleigh, NC 27601
 Email: nc.asce.bulletin@earthlink.net
 Section Website: <http://nc.asce.org>

SECTION OFFICERS

President: Jeffrey Coonse, PE
Past President: Jason Reeves, PE
President-Elect: Joe Moore, PE
Vice President: Yolande Stover, PE
Treasurer: Michael E. Dozzi, PE
Secretary: Lori Hoffman, PE
 Terracon
 5240 Green's Dairy Road
 Raleigh, NC 27616
 Voice 919.873.2211
 Fax 919.873.9555
 Email loffman@terracon.com

STANDING COMMITTEE CHAIRS

Annual Meeting
 Yolande Stover, PE 704.752.0610
 Bulletin
 RD Odell, PE 919.755.0583.x327
 Engineering Management
 J. Reid Bailey, PE
 Nominating
 Jason Reeves, PE 704.523.4726
 Scholarship
 Jason Reeves, PE 704.523.4726

DIRECTORS

Legislative Affairs
 TBD (contact Joe Moore if interested)
Auditing
 Stuart Matthis, PE 704.372.1885
Webmaster
 Laurie Vandiford Hobbs

TECHNICAL GROUP CHAIRS

Construction Materials
 Kevin Lugo, PE 919.875.0124
Geotechnical
 Doug Carr, PE 919.678.1070
Structural
 David Hawkins, PE 919.678.1070
Transportation
 Josh Hurst, PE 919.828.1876
Water Resources
 Monica Tiburzi 704.329.0073

SCHOLARSHIP BOARD OF TRUSTEES

Chair
 Richard C. Wells, PE 336.668.0093
Member at Large
 RD Odell, PE 919.755.0583.x327
Member at Large
 TBD (contact Joe Moore if interested)
Member
 Jason Reeves, PE 704.523.4726
Member
 Michael Dozzi, PE 704.522.7275

The Bulletin is issued bimonthly by the NC Section of ASCE (issuing office 421 Fayetteville St., Suite 1303, Raleigh, NC 27601) to all assigned members of the Section. Articles and graphics are not copyrighted and may be reprinted with due credit. Information to be considered for publication should arrive by the dates shown in the Calendar .



Michael W. Johnson, P.E.
 Region Manager
 4917 Waters Edge Drive, Suite 271
 Raleigh, NC 27606
 Email: johnsonmw@contechbridge.com

Ph: (919) 858-7820
 Fax: (919) 858-8961

Provider of:



FINALLY A GEOTECHNICAL CONTRACTOR THAT UNDERSTANDS YOUR SOLUTIONS. AND EXCEEDS YOUR EXPECTATIONS.



New Construction

- Ground Improvement
- Earth Retention & Retaining Systems
- Deep Foundations

Existing Structures

- Concrete & Earthen Dam Rehabilitation
- Foundation Retrofit & Repair
- Concrete Floor Slab Retrofit, Renovation/Repair
- Structural Repair
- Earth Retention and Retaining Systems Repair



BARRIER GEOTECHNICAL CONTRACTORS
www.barriergeocon.com
704.599.0862

BRANCH BOARDS OF DIRECTORS**COASTAL BRANCH**<http://coastalnc.asce.org>*President:* Phil Bevilacqua, Jr., PE*President-Elect:* Mark T. Arcuri, PE*Representative:* Barry D. Mitchell, PE*Representative:* Jesse Jordan, PE*Secretary-Treasurer:*

Steve Kelly, PE

Residential Foundation Testing Services, PLLC

1305 3A Carolina Beach Ave. N

Carolina Beach, NC 28428

Voice 910.395.0872

Fax 910.458.5261

Email skelly@ec.rr.com**EASTERN BRANCH**<http://easternnc.asce.org>*President:* Kathryn Benson, PE*Past President:* Steve Cook, PE*President-Elect:* Gabe Lang, PE*Representative:* Tim Coggins, PE*Representative:* Andy Batts, PE*Secretary-Treasurer:*

Natasha Rodevick, PE

HNTB North Carolina, PC

343 E. Six Forks Road, Suite 200

Raleigh, NC 27609

Voice 919.424.0468

Fax 919.546.9421

Email nrodevick@hntb.com**NORTHERN BRANCH**<http://northernnc.asce.org>*President:* Jessica Montgomery, PE*Vice President:* Nathan Huynh*Representative:* Steven W. Lacz, PE*Newsletter Editor:* Betty Farr, PE*Secretary-Treasurer:*

Rebecca Cramer

ARCADIS G&M of North Carolina

1 Centerview Drive, Suite 208

Greensboro, NC 27407

Voice 336.292.2271

Fax 336.855.5648

Email rcramer@arcadis-us.com**SOUTHERN BRANCH**<http://southernnc.asce.org>*President:* Steve Kiser, PE*Past President:* Matt Magnasco, PE*President-Elect:* Eric Rysdon, PE*Vice President:* Thomas Vick, PE*Representative:* Toby Harris, PE*Representative:* Bryan Metzler, PE*Newsletter Editor:* Dan Miller, PE*Secretary-Treasurer:*

Ajay Joshi, PE

MACTEC Engineering & Consulting, Inc.

2801 Yorkmont Road, Suite 100

Charlotte, NC 28208

Voice 704.357.8600

Fax 704.357.8639

Email ajjoshi@mactec.com**WESTERN BRANCH**<http://westernnc.asce.org>*President:* Matt Fogleman, PE*President-Elect:* Jesse Jacobson, PE*Representative:* Courtney King, EI*Secretary-Treasurer:*

John Garner, PE

Schnabel Engineering

15-E Glen Bridge Road

Arden, NC 28704

Voice 828.684.9804

Fax 828.684.7334

Email jgarner@schnabel-eng.com**EWeek Report (Continued)**

The Eweek outreach efforts expanded this year to include participation in a handful of career fair days at middle schools. Momentum is building within our section as we prepare ourselves for 2010 where ASCE will again become the chair for Engineers Week. Eweek is an ideal way for ASCE members to engage in fun and exciting ways to promote our profession to the future engineers of our country. Make no mistake about it; the kids we touched this year are the ones who will be following in our footsteps.



ASCE member Bill Hoyt made some friends at Marion Middle School



Eweek Coordinator, Jason Philbin (Barrier Geotechnical Contractors) explains engineering concepts of compression and tension to 5th graders at McAlpine Elementary

RAM JACK
FOUNDATION SOLUTIONS

- New Construction Piers • Foundation Underpinning • Helical Wall Tie Back
- Interior Floor Support • Coastal Timber Support • Basement Wall Support

888-309-9727 • WWW.RAMJACKUSA.COM

Member Achievement

Mr. Donnie Barrier, C.E.O. of **Barrier Geotechnical Contractors** is pleased to announce that **Mr. Jason Philbin** recently joined the firm as Director of Preconstruction Services.



Mr. Philbin now manages and leads our preconstruction engineering team whose mission is to support the geotechnical engineering consultant community. His goal is to be a resource for his colleagues who are designing foundation, earth retaining, slope stabilization and ground improvement solutions. Mr. Philbin's career began 15 years ago as staff engineer with CON/SPAN Bridge Systems and ultimately earned his way to managing the regional engineering office in Charlotte for CONTECH Bridge Solutions. Mr. Philbin is a registered engineer in North Carolina, South Carolina, Virginia, and Ohio and holds both a Bachelors Degree and Masters Degree in Civil Engineering from the University of Kentucky.

Volunteers Needed!

This is the time of year when the Section and Branches are searching for volunteers. Members are needed to fill Board and Committee positions all over the state. If you want to be more involved, and more informed about what YOUR Society is doing, contact a member of the Section Board or your Branch Board and find out what positions need to be filled. Whether you can give a one-time 2-hour commitment or volunteer for an hour every week, there's a job you can fill.

Career Opportunity

Bridge Engineers

T.Y. Lin International, the premier bridge design firm is expanding! Our projects keep growing and we are seeking exceptional bridge designers, bridge engineers, and project managers to work in our Richmond VA, Alexandria VA or Raleigh NC offices.

Requirements: BSCE, P.E., 4 – 10 years of experience, proficient in layout and design of bridge structures and DOT experience. EOE. If interested, email resume (include 2351VA in subject line) to: recruiting@tylin.com.



civil engineering central.com
building teams . engineering careers

Your central location for career resources,
exclusively serving the civil engineering community.

Sub
surface

Subsurface Construction Company, LLC

Raleigh, North Carolina

919.857.4609 / www.subsurfaceconstruction.com

- Micropiles
- Soil Nail Walls
- Soldier Pile Walls
- Anchors

Professional service
from conception
through construction...
you'll want to use
us again.



"We wish all subcontractors were as professional and cooperative as your team has been." Dwayne Rakestraw, New Atlantic Contracting

The Joint NC / SC Section Annual Meeting

planned for September 11 and 12, 2008 promises to be filled with exciting technical presentations, new and innovative vendor displays and demonstrations, field trips for members and shopping/tourist trips for guests, spouses and family members, a competitive golf tournament which raises money for the Scholarship Fund, and a chance to see the nightlife in Charlotte from a Younger Member's perspective.

Mark your calendar now, and watch for details in upcoming issues of The Bulletin as well as on the Section and Branch websites.

Contact Yolande Stover, PE, to get involved in the planning stages to ensure all the activities YOU would like to see get included in the agenda. Don't miss this important opportunity to help lead the Section to new engineering marvels.

Branch News

The **Northern Branch** planning meeting was held on April 18th at Triad Park in Kernersville, NC. Topics discussed included the newsletter, scholarships, officer elections and NC A&T Scholarships.

The Northern Branch would like to congratulate the winners of the 2008 Northern Branch NC A&T University Scholarships, Sean Allen, Stephen Dodson, Jason Pontieri and Tacara Williams. All students were required to be in good standing and enrolled in a civil engineering curriculum. Four \$750 scholarships were awarded for their essay submissions on how civil engineers can effectively communicate the issues with our overburdened infrastructure to the public and media.

Northern Branch member Jerry Scott attained the grade of Life Member recently. Thanks to Jerry for his support of our profession for so many years!

The upcoming meeting topics for the 2008 year include structural health monitoring, Winston-Salem stadium project, liens, wetlands and green-sustainable buildings. More details will be available in upcoming Northern Branch newsletters.

The **Southern Branch** has had an active spring so far, and look forward to a fun summer. We recently held our April meeting as a joint meeting with the student chapter of UNC Charlotte. This year, the Southern Branch assisted with induction of new student officers, scholarships and awards were handed out, and Southern Branch Life Members were honored. Mr. Jim Hester, a new Life Member, was kind enough to share a few words about his career and ASCE involvement.

We also recently participated in our Little Sugar Creek clean-up service project. In the fall of 2007, the Branch was officially installed as "parents" of the newly-adopted Little Sugar Creek greenway. Eleven people graciously gave their time on a Saturday morning to assist with the cleanup.

Looking ahead, the Southern Branch will host a June meeting, at a date and time to be determined. The annual golf tournament was scheduled for May 9 at Birkdale Golf Course. In addition, the much-anticipated sequel of the afternoon meeting at the US National Whitewater Center will be held on July 25. This will be a lunch meeting and presentation, followed by rafting for those interested. Not a bad way to earn a PDH by spending it on the rapids!

We are also currently looking for volunteers to run for officer positions for the Southern Branch for the 2008-09 year. Volunteers are also still needed for the 2008 Section annual meeting, to be held in Charlotte on September 11 and 12, 2008. Interested parties can contact any Southern Branch board member for more details.

The April **Eastern Branch** lunch meeting was held on April 17th at the NC State University Club in Raleigh. The speaker was Dr. Wayne J. Seiler, P.E. – All About Pavements, Inc. His presentation was entitled “Nondestructive Testing of Roadway and Airfield Pavements.” One PDH was awarded.

Our May Eastern Branch lunch meeting was held on May 15th at the NC State University Club in Raleigh. The speakers were Jeff Adkins and Adam Sharpe with CH2M Hill. Their topic was “*Town of Cary’s Integrated Water Resources Management Plan (IWRMP)*.” One PDH was awarded. A food drive for the Food Bank of Central NC was also held in conjunction with the meeting.

The Eastern Branch Board met on March 18th at the HNTB Raleigh office and on April 8th at the Kimley-Horn Cary office. Our most recent meeting was on May 13th at the CH2M Hill Raleigh office.

On Friday, May 9th, the Younger Members sponsored a social outing for ASCE members and their families to a Durham Bulls baseball game. Tickets were available to the first 60 reservations.

The 2008 ASCE Eastern Branch Golf Tournament was held on Wednesday, April 9th. It was played at Eagle Ridge Golf Club. The net proceeds from the tournament will be designated to the scholarship fund.

On April 7th, three of the Eastern Branch Board members, Kathryn Benson, Natasha Rodevick, and Steve Cook, participated in a Career Planning Roundtable at NCSU. The participants fielded questions from the students ranging from course recommendations to employment opportunities.

One Eastern Branch member, Vish Chervu, attended the Legislative Fly-In in Washington, D.C. during March 4th and 5th. He met with the offices of North Carolina’s two Senators and the offices of two of North Carolina’s Congressmen.

If you are interested in volunteering time to work for the promotion of your profession in civil engineering, please contact one of the Eastern Branch board members. Our contact information is in this issue on page 3 of The Bulletin and on our website.

MOVING YOU FORWARD

Airports	Public Transportation	
Civil/Site	Railway	Raleigh, NC
Design Build	Surveying	919.755.0583
Economics	Toll Roads	
Environmental Engineering	Traffic & Parking	High Point, NC
Feasibility Studies	Transit	336.819.4200
Highway/Bridges	Transportation Planning	
Hydraulics	Urban & Regional Planning	
Local Government Services		

www.WilburSmith.com

WilburSmith
ASSOCIATES

Member Profile

Submitted by Matt Fogleman, PE, ECS Limited

Ronald W. Brass, Colonel – US Army Corps of Engineers (Retired)

Mr. Ron Brass is a Life Member of ASCE and a distinguished local member of the NC Section, Western Branch. Ron has had a lengthy and notable career in the engineering profession serving in the US Army Corps of Engineers with tours of duty in Germany and Vietnam, as well as numerous military assignments and ventures in both private consulting and academia.

Ronald Brass grew up in Long Island, NY and graduated as the valedictorian of his high school class in 1955. He joined the United States Military Academy at West Point class of 1959, and was then commissioned into the Corps of Engineers and attended both Airborne and Flight training. Ron's first tour of duty was in Germany as Aviation Officer and Assistant S-3 for the 521st Engineering Group and Commissioned Officer, A Company, 168th Combat Engineering Battalion. Upon his return, he attended the University of Illinois and earned his MSCE. Following graduate school, Ron was assigned to Vietnam (1966-1967) as Senior Engineer Advisor to the 9th Infantry Division and its Combat Engineering Battalion. In 1967, he returned to the US Military Academy as assistant professor in the Department of Civil Engineering. From 1970 to 1971, he went to Korea as Special Assistant to the United Nations Commanding Engineer and then as Deputy Commander of the reinforced 44th Construction Battalion. From 1971 to 1973, he served at Fort Hood, TX as Assistant Division Engineer in the 2nd Armored Division. In the Fall of 1973, Ron was assigned to Headquarters Strategic Air Command as the Corps of Engineers' first exchange officer to the Air Force Engineering Program. As the only Army officer on the Strategic Air Command staff, he served as Chief of both the Consulting Engineering and Construction Management Branches. Ron then returned to Korea as Deputy and then Commander of the Corps' Far East Engineer District. In August 1978, Ron returned to Washington DC and served in the Office of the Assistant Chief of Engineers where he participated in hearings before the Senate/House Armed Services and Appropriations Committees. Ron's last active duty assignment was in Atlanta from 1981-1984 as Deputy Commander of the Corp's South Atlantic Division where he oversaw design and construction programs throughout the Southeast, Caribbean, and Central America.

Ron and his wife Opal moved to Asheville in 1991, where Ron continued his association with Mercer University for two more years. In 1997, Ron agreed to assist the School of Engineering Technology at Asheville-Buncombe Technical Community College, where he developed and taught five engineering courses until his final retirement in 2004.

Now that Ron and his wife are fully retired, their focus has turned to their 4 children and 9 grandchildren. Ron and Opal enjoy traveling around the globe, hiking, golf, and landscaping their wooded property in south Asheville. In addition to ASCE, Ron is an active member of the National Society of Professional Engineers (NSPE) and the Society of American Military Engineers (SAME). In 2007, Ron was awarded Life Member status from ASCE due to his continued and active membership and his sustained commitment to the engineering profession.



Designer / Installer of:

Geopier® and Impact Pier™ Ground Improvement Systems
 Micropile Foundations • Soil Nailing • Tieback Walls
 Earthtec™ MSE Wall Systems: Steel or Geosynthetic Reinforcement

Nyle Hothem, PE • Derek Harwood, PE
 523 Keisler Drive, Suite 204
 Cary, NC 27518

Ph 919.859.5535
 Fax 919.859.5536
www.geostructures.com

Want to place an ad in the next issue of *The Bulletin*?

Simply contact the editor and staff at
nc.asce.bulletin@earthlink.net

Rates are posted on the website at
<http://nc.asce.org>.

Deadlines for submissions are listed in the calendar on the back cover.

HNTB Corporation Adds to Charlotte Office

The firm welcomes three new team members



Robert Moser, PE

HNTB Corporation has welcomed three new team members to its Charlotte office: Robert Moser, PE; Padam Singh, AICP; and Kevin Walsh.

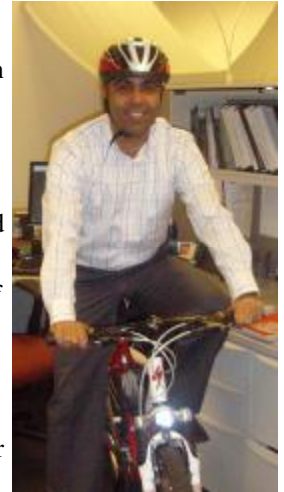
Moser has joined the firm as Civil Design Group Leader and Senior Civil Engineer, bringing more than 25 years of experience with management, civil and environmental engineering, design, project management, consulting, and education. In his new role, Moser will lead the Charlotte office's engineering group as project manager with HNTB public- and private-sector clients. He also will be responsible for civil site engineering, transportation hydrology and hydraulics. Before joining HNTB, Moser served as Vice President and President for Civil & Land Resources, Inc. and Civil & Land Resources of NC, PA. He is the Vice President of the Pee Dee Chapter of the South Carolina Society of Professional Engineers and a member of the American Society of Civil Engineers.

Singh has joined HNTB Corporation as Senior Planner, bringing more than eight years of experience with urban planning and design. In his new role, Singh will be project manager responsible for comprehensive planning and land use planning with HNTB public-sector clients. He also will be responsible for small area plans, downtown plans, corridor studies, transit studies and market studies. Before joining HNTB, Singh served as a project manager for LandDesign. Singh is a certified planner with the American Institute of Certified Planners and a member of the American Planning Association.

Walsh has joined the firm as Project Manager, bringing more than eight years of experience with urban planning and design. In his new role, Walsh will be project manager responsible for pedestrian and bicycle comprehensive planning, and comprehensive planning with HNTB public-sector clients. He also will be responsible for land use plans, small area plans, downtown plans, corridor studies and transit studies. Before joining HNTB, Walsh served as a project manager for HadenStanziale. Walsh is a member of the American Planning Association and the Mecklenburg County Greenway/Trail Advisory Council.



Kevin Walsh



Padam Singh, AICP

HNTB Corporation is a national, employee-owned infrastructure firm serving federal, state, municipal and private clients. More than 3,000 professionals in over 60 offices nationwide provide award-winning planning, design, program management and construction management services for highway, toll road, bridge, airport, rail and water projects. For more information about HNTB Corporation, visit www.hntb.com.

Important Notice to all Members: Changes are coming to *The Bulletin*

The Section Board of Directors has voted to change the method of delivering *The Bulletin* to members of the NC Section. Beginning with the Sept/Oct 2008 issue, most members will receive *The Bulletin* via the Section website (<http://nc.asce.org>) in the form of a pdf file. Members will be notified by their Branch Secretary when a new issue is available. You will be able to read the issue online, or download and print the pdf as a hardcopy.

Advantages to the electronic version?

- Most ads are in color, which isn't available with the current mailed version.
- Issues will be available immediately upon release. We won't be dependent on the Post Office to deliver them.
- The Section will save an average of \$2,000 per issue, which can be used for programs to benefit the membership.
- Less paper waste, less clutter in your inbox.

If the all-electronic version will cause a hardship to you, please contact *The Bulletin* staff or your Branch Secretary or President. A limited number of hard copies of each issue will be produced and mailed via regular mail to those members who do not have access to the internet. We want all members to receive each issue of *The Bulletin*. If you need to receive a hard copy by mail, please inform the editorial staff or your Branch Secretary by September 1, 2008.



421 Fayetteville St., Suite 1303
 Raleigh, NC 27601
 Email: nc.asce.bulletin@earthlink.net

Section / Branch Calendar

Year	2007			2008								
Month	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Section BOD		8		10	13							
Coastal				8			8	13	10			9
Eastern	18	15		17	21	20	17	15		17		18
Northern		15		23								
Southern	16	26	17									
Western	18	29	20	24								
Bulletin Deadline	31		31		29		30		30		31	