

# The Bulletin

ASCE / North Carolina Section

Volume 44 No. 6

July / August 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



ASCE has determined that \$1.6 trillion are required over the next 5 years to address all of America's infrastructure needs. While we spend 2% of our GDP on infrastructure, China and India invest 9% and 5% respectively. After increasing its share of infrastructure spending from 17% in 1956 to 40% in 1977, the federal government has since cut back its contribution. These cuts squeeze state and local governments who now bear 75% of public infrastructure outlays.

We begin our State Public Affairs Grant (SPAG) this month, running newspaper ads statewide between now and the November election. I will be calling on volunteers to write their local newspapers and government officials to call for increased infrastructure funding as a part of our SPAG campaign. Increased infrastructure funding will stimulate our economy, create on shore jobs, and leave us with national and local assets for continued growth.

### Jackson Circle Parking Deck *A Case Study on Parking Deck Sustainability*

*Matt Bolin, PE, LEED AP Kimley-Horn and Associates, Inc.*

At first glance, "parking decks" and "sustainable design" may not seem to go hand in hand. That's because the potential sustainable elements of parking structures often are overlooked. But as our industry strives to incorporate environmentally sustainable design features in our projects, it is important to seek innovative ways to embrace these principles.

A recent project that was slightly ahead of its time in incorporating environmentally sustainable practices was the Jackson Circle Parking Deck at the University of North Carolina at Chapel Hill. Located adjacent to a medical office building and student housing, this parking facility serves approximately 700 University/hospital employees and 100 commuting students.

As a subconsultant to Pearce Brinkley Cease + Lee Architects, Kimley-Horn and Associates, Inc. had to deal with a site that presented significant constraints—ranging from topographic, height, depth, and stormwater restrictions to coordination with ongoing and planned projects on adjacent properties. Design requirements included a minimum of 800 parking spaces; multiple vehicular access points; a courtyard between the deck and a proposed building; a 40-foot buffer along the adjacent University housing; and pedestrian walkways.

A concerted effort was made to minimize the impact of the parking structure on the site and the campus. For example, a reinforced grass paving system was used for the fire-lane access aisles to reduce impervious asphalt paving and permit onsite infiltration of surface water.

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**PROBLEM CORNER**

The best answer to the last problem is to build a box of the original dimensions then fill and compact around the statue with a fine dry sand. There were three very close answers to submerge in water and measure the displacement, which could work, but there could be some absorption of water by the wood:

John MacKay, PE, CCM; MBP, Dave Clark, PE; Town of Nags Head  
Matthew Payne, PE; Moffatt & Nichol

**NEW PROBLEM:**

There are nine holes at the ASCE golf course, 250, 375, 300, 325, 275, 350, 225, 200, and 400 yards respectively. You have two special clubs that can always hit the ball in a perfectly straight line at an exact distance. For example, a driver at 200 yards and a wedge at 50 yards, so the first hole can be done in two strokes: 1 drive and 1 approach. What are the distances you would assign for the two clubs that yield the fewest strokes possible?

Send your answers to Keith Rines, MBP, 3101 Poplarwood Court, Suite 301, Raleigh, NC 27604 or to [krines@mbpce.com](mailto:krines@mbpce.com).



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Jason Reeves, PE 704.523.4726

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Email [jgarner@schnabel-eng.com](mailto:jgarner@schnabel-eng.com)**Jackson Circle Parking Deck (Continued)**

Within the deck itself, multiple sloping parking bays were designed to fit the project within the site, minimize excavation of rock, maximize patron wayfinding, facilitate efficient travel of vehicles vertically within the deck, and meet street grades for vehicular entrances at different elevations. A chamfered corner maximized use of the site while maintaining the proper setback to adjacent housing.

The deck's facade incorporated the predominant stone/concrete materials present in the nearby medical offices as well as the brick elements of the University buildings, allowing the deck to function as a transitional component between the two areas of the campus.

User friendliness for deck patrons was a high priority during design. To enhance safety and security, long-span post-tensioned concrete construction was used to allow for increased lighting and daylighting functionality, improved visibility, and a more open feel. Maximized openings around the deck's perimeter allowed for improved air circulation and natural ventilation. Entry and exit lanes were designed to minimize vehicular queuing to reduce emissions from idling cars. Pedestrian access and campus connectivity through and around the parking deck were maintained with carefully planned pedestrian paths and bus stops.

The stormwater management system was another sustainable aspect of this project. A cast-in-place concrete vault for stormwater treatment, retention, and detention was contained completely on-site and below grade. The vault was designed to collect, retain, and



treat all of the project's stormwater, thus limiting the amount of runoff from the site to pre-development levels for all design storms. Moreover, retained stormwater is reused in the site's landscaping drip irrigation system, with capacity for future expansion.

By the time this project was constructed in 2006, the PBCL/Kimley-Horn team had met the University's parking capacity requirements, dealt successfully with a myriad of site restrictions, and minimized the facility's environmental, social, and economic impacts. The resulting facility is not only functional, but also accommodating to patrons, pedestrians, and the environment.

This parking facility incorporated sustainable features before sustainability became prevalent in design discussions. So the next time you hear someone say parking decks are not environmentally friendly, be sure to mention the Jackson Circle deck at UNC Chapel Hill.

*For more information about this project or parking deck sustainable design, contact [matt.bolin@kimley-horn.com](mailto:matt.bolin@kimley-horn.com).*

## Career Opportunity

### Land Development Project Manager

Mecklenburg County is seeking a Professional Engineer to review land development plans. The position is responsible for evaluating whether design plans meet local and state regulations by checking the design and engineering calculations for proposed roads, driveways, storm drainage, water quality and erosion control. The successful candidate will work with designers, and town planners to resolve problems encountered with the design plans.

Position reports to the North Satellite Office in Cornelius, NC and will primarily serve the towns of Huntersville, Cornelius and Davidson. Pay range is \$59,784-\$78,466. To apply, go to

<http://www.charmeck.org/Departments/Human+Resources+County/Apply+Online.htm>

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

Simply contact the editor and staff at  
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Rates are posted on the website at  
<http://nc.asce.org>.

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

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### 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.

The following article is offered to the membership of ASCE NC to thank you for your generosity to the Davidson International Baccalaureate (IB) Middle School Future City Design Team.

### ASCE and PENC Help the North Carolina Future City Design Team Winners Make It to Nationals

Earlier this year, the Future City Design Team from Davidson International Baccalaureate (IB) Middle School triumphed over ten other middle school teams from North Carolina and Virginia in the Future City Competition, qualifying them to move on to the national competition in Washington, DC. While the Future City Competition organization did provide a stipend for three of the winners to travel to our nation's capital, the team was comprised of nine students. With less than a month to raise \$2000 needed to keep the Team together, their mentor, Dane Horna, PE, of S&ME turned to the North Carolina Section and Southern Branch of the American Society of Civil Engineers (ASCE), the Professional Engineers of North Carolina (PENC), and his own company for funds. Within a few days each group donated \$500, allowing the whole team to attend the national competition.

The Davidson IB Team was one of 37 teams from across the United States representing the cream of the crop among the more than 1,100 schools and 30,000 students who competed on the local level. When they arrived in Washington, the Team was immersed in a flood of activities and events, in addition to their presentations for the competition. Their first breakfast featured a welcoming speech from Dr. Charles M. Vest, President of the National Academy of Engineers and MIT President Emeritus. Later in the week during a live webcast from the Future City Competition, Dr. Vest was moderator of a panel of prizewinning engineers who were assembled for a question and answer program for the competitors. Several of the Davidson IB Team members posed their questions to the distinguished panel and in front of the national audience. The Team also took part in a tour of one of the Smithsonian air and space exhibits at Washington's Dulles Airport. All who attended agreed that the sponsors of the Future City Competition had created a truly unique experience for the Teams.



The Future City Competition helps students understand practical applications of mathematical and scientific principles within deadlines and budgets. Sponsored by the Engineer's Week Foundation, the competition offers an opportunity to learn about engineering by dealing with how cities of the future can successfully address many city characteristics and challenges. Students prepare a project plan, a computer model and a scale model of a section of their city. They also write a narrative about design features, make a verbal presentation and answer questions from engineer judges. Costs for all model materials may not exceed \$100 (cash or in-kind). Use of recycled materials is encouraged.

The Davidson IB Middle School team designed their futuristic city, *Exhibeo*, to be built in the Atacma desert in South America. As envisioned by the Davidson students, *Exhibeo* controls its pollution; harnesses wind, solar and tidal energy to generate power; and processes ocean water to create purified water and salt. This year's challenge required that the students incorporate nanotechnology – the engineering of functional systems at the molecular

scale – to monitor the cities and keep them healthy in their design. *Exhibeo* incorporates various sustainability features and was designed to produce a surplus of electrical energy to broker. The abundance of power enables operation of an ambitious desalination system.

Separating fanciful design features from those with a strong technical basis was a characteristic that (Continued on Page 6).....

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**Future City Design Team (Continued from Page 5)**

seemed to distinguish the Davidson IB team from the other state competitors, according to Dane Horna. When asked what the students learned about engineering projects, Horna noted that working together as a team for a common goal was probably an important lesson not typically learned in the classroom. "I think there are definitely some future engineers on the team," said Dane.

Winning the state contest and competing on the national level was an extraordinary experience for the Davidson IB Middle School Team, an experience made possible through the philanthropy of ASCE, PENC and others in our engineering profession. The seventh graders on the team are already recruiting other students for next year's competition.



**Important Notice to all Members: Changes have occurred at *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 May/June 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 as soon as possible.

**MOVING YOU FORWARD**

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**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.

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## NC/SC Joint Annual Meeting Agenda

The NC and SC Sections of ASCE will have a joint Fall Meeting **September 11-12, 2008**, at the Marriott-Charlotte Executive Park in Charlotte, NC. This event will provide seminars, a field trip, plus lunch on Friday, September 12. Participants may earn a maximum of 10.5 PDHs, including 3 PDHs during field trip.

Register online at [www.regonline.com/63352\\_642241J](http://www.regonline.com/63352_642241J) or you may use the registration forms provided on the Section website <http://nc.asce.org>. (If you use the registration forms on the website, please send completed forms and payment to Charlene Cassidy.)

Costs (includes lunch on Friday):

**Early Registration** (postmarked by **Aug. 20, 2008**)

ASCE Members: \$180

Non-ASCE Members: \$220

ASCE Life Members and Student Members: \$50

**Late Registration** (postmarked after **Aug. 20, 2008** and on-site)

ASCE Members: \$210

Non-ASCE Members: \$250

ASCE Life Members and Student Members: \$50

Speakers: Free

Hotel reservations can be made by calling the Marriott - Charlotte Executive Park at 704-527-9650 or toll free at 1-800-359-7961. When calling, please request the ASCE-NC Section room rate or provide the code ASV. For online reservations, please go to [www.marriott.com/cltnc](http://www.marriott.com/cltnc) and use the group code AVASVA. The group rate for this event is \$159 per night; reservations must be made by **August 20** to receive this rate.

**AGENDA** (subject to change)

### THURSDAY, SEPTEMBER 11, 2008

8:00	Registration opens
9:00 - 10:15	Technical Session #1
10:30 - 11:45	Technical Session #2
11:45 - 1:00	Lunch (box lunch provided on request at time of registration)
1:00 - TBD	Golf Tournament
1:00 - 4:30	Field Trip
5:30 - 7:00	Happy Hour
7:00 - TBD	Hospitality Suite open
7:00	Dinner (on your own)

### FRIDAY, SEPTEMBER 12, 2008

7:30 - 9:00	Breakfast of Champions
8:00	Registration
9:00 - 10:15	Technical Session #3
10:30 - 11:45	Technical Session #4
11:45 - 1:45	Lunch (to include installation of Section Officers, awards presentations)
2:00 - 3:15	Technical Session #5
3:30 - 4:45	Technical Session #6

Information regarding seminar topics will be provided on the Section website. If you have any questions or need additional information, please contact Yolande Stover at 704-372-1885, ext. 1074, or at [yolande.stover@stvinc.com](mailto:yolande.stover@stvinc.com).

## NC Section Officer Candidates

The offices of President-Elect, Vice President, and Secretary for the year 2008-09 are up for election this year. The biographical sketches are offered to help you know them a little better.



### President-Elect

Yolande Stover, PE, is currently serving as the Section Vice President, and is assigned the task of organizing the Joint NC/SC Annual Meeting coming up in September. Yolande previously served two terms as the Section Secretary (2005-07). She graduated from Georgia Institute of Technology (Georgia Tech) with a BSCE in 1993. Yolande also belongs to ASHE and WTS, and is a member of Faith Memorial Baptist Church, where she sings in the choir and serves as an adult literacy tutor. Her hobbies include reading, site-seeing, and trying new cuisines. Yolande told the Bulletin editorial staff, "Fewer people are entering into the civil engineering profession. I would like the Section to continue to increase the awareness of the role of the Civil Engineer so that more people may be encouraged to consider, and perhaps pursue, our career field."

Yolande works for STV/Ralph Whitehead Associates in Charlotte.



### Vice President

Stephen W. Lacz, PE, is a Senior Professional with Trigon/Kleinfelder, Inc, in Greensboro, where he has worked since moving to North Carolina in 2003. Steve has been a member of ASCE since 1995, and has served as the Northern Branch Representative to the Section since 2005. He also helped with the Curious George "Let's Build" program. Steve received a BSCE from Bucknell University in 1997 and completed some graduate studies there as well. Steve is a member of the Deep Foundations Institute, and is also a member of Guilford Park Presbyterian Church. He also volunteers by serving breakfast at Greensboro Urban Ministry. Steve is married, with a 7-yr. old daughter and a 5-yr. old son. He enjoys hiking, soccer, tennis, golf, hockey, and cookouts with family and friends. Steve informs us, "My goal for this year is to provide our members with a memorable and technically sound experience at the Spring Technical Session and Annual Fall Meeting, and to encourage participation of the profession, faculty, students, and public."



### Secretary

Lori C. Hoffman, PE, has been nominated to serve a second consecutive term as Section Secretary. She has also served ASCE as the Eastern Branch Representative to the Section (2205-07) and as the Eastern Branch Younger Member Rep from 2004 to 2007. Lori is currently the Environmental Department Manager at Terracon in Raleigh. Lori received a BSEE from NC State in 1999. Her hobbies include, "Running with my yellow lab, Charlie," skiing, fishing, and biking. She is also active in NAIOP, ACEC, and NCEDA.



### President

Joe Moore, PE, will be the next President of the NC Section. Joe was elected last year to the President-Elect post, and will continue in the 3-year rotation of presidential offices. We have included his picture here so you can introduce yourself to him at the Annual Meeting and (Hopefully!) volunteer for one of the many activities he has planned for the next year. Good luck to Joe, Yolande, Steve, and Lori, as well as to returning officers Jeffrey Coonse, PE (Past-President) and Michael E. Dozzi, PE (Treasurer).

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**OFFICIAL BALLOT**  
**ASCE NORTH CAROLINA SECTION**  
**2008-09 BOARD OF DIRECTION**

Please mark one selection for each of the following offices:

---

President-Elect	Yolande Stover, PE	<input type="checkbox"/>
Write-In Candidate	_____	<input type="checkbox"/>

---

Vice President	Stephen W. Lacz, PE	<input type="checkbox"/>
Write-In Candidate	_____	<input type="checkbox"/>

---

Secretary	Lori C. Hoffman, PE	<input type="checkbox"/>
Write-In Candidate	_____	<input type="checkbox"/>

---

The following members will continue to serve the terms to which they were previously elected:

Joe Moore, PE, President (2nd year of 3-year Presidential Officer term), Jeffrey W. Coonse, PE, Past-President (3rd year of 3-year Presidential Officer term), and Michael Dozzi, PE, Treasurer (2nd year of 2-year term).

Please vote by mail, or copy and pdf this file by email, or type your ballot choices and email them. Ballots should be sent in time to be received no later than Friday, Sept. 5, 2008.

Mail completed ballots to: NC ASCE Bulletin  
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-OR- email completed ballots to: [nc.asce.vote@earthlink.net](mailto:nc.asce.vote@earthlink.net)



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## 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	