President’s Message
Jennifer Bihl, P.E.

Happy fall SCSITE!

College football season is in full swing and it is starting to get cooler.

We have had a strong year this year with all sorts of activities for our members and friends.

Our summer meeting featured elected officials from the Charleston (Elliott Summey) and Greenville (our very own Gaye Sprague) areas and Howard Chapman who discussed best practices on working with elected officials on our everyday projects. Thanks to the Citadel for providing meeting space on your beautiful campus.

A number of us also attended Engineers Day at the Ball Park at Joseph P. Riley Stadium where the Charleston Riverdogs hosted the Augusta GreenJackets. Engineers Day is a joint event with ASCE/SAME Charleston Post/Civil Engineers Club of Charleston. It was a hot Charleston evening but the baseball was great! We plan to continue to participate in the years to come so mark your summer calendars for next year’s event.

Most recently we had our scholarship golf tournament at Northwoods Golf Club and it was a blast. Before the golf began, we learned about the new superstreet planned at US 17 and Main Road in Charleston. Thanks again to everyone who participated and made this a successful event. Thanks to Mike Ridgeway for organizing!

As the year comes to a close, we will have our annual Christmas party in December in Columbia (detailed info in the newsletter). We look forward seeing everyone there to celebrate our successful year!
2012 GOLF TOURNAMENT SUMMARY

Mike Ridgeway, P.E.

This year’s scholarship golf tournament was held on Thursday September 5th at Northwoods. We enjoyed a presentation prior to the tournament by Bret Gillis of Stantec regarding the Charleston Superstreet Project. The turnout was once again amazing with 17 teams and the weather was beautiful. We played our tournament this year in loving memory of Casey Hale. Casey was a long time supporter of our golf tournament and the SC section. Casey was a great guy that will be greatly missed by all that knew him.

We had a very competitive tournament this year with 3 teams tying for the low score. We then had to go by score on the lowest handicap holes which yielded:

1st Place: Chris Pierson, Mike Love, Rob Arthur, & Matt Uhl

2nd Place: Don Turner, Tim Inglis, Joey Riddle, & Joey Rhodes

3rd Place: Byron Hood, Matt Short, Mark Short & Rob Walsh

Congrats to Jeff Ingham on winning the long drive competition.

I would like to give a final shout out to our sponsors, who helped us raise almost $6,000 for the scholarship program. We could not do this without the overwhelming support from our sponsors. I would also like to thank all of the people that help me every year make this event possible, with a special shout out to Don Turner, Jae Mattox, Susan Ruinen, Renee Tison, Jennifer Bihl, Dipak Patel, Byron Hood, Brenda Farren, Joe Sturm, and Valerie Holmes. I look forward to seeing everyone at the Christmas Party.

The winter crew will be hitting a local course prior to the party, so let me know if you are interested.
CHRISTMAS PARTY!!

Where: Sheraton Columbia Downtown Hotel: 1400 Main Street, Columbia, SC 29201, (803) 988-1400
When: Thursday, December 5th - 6:00 to 8:00 pm
Cost: Members: $20
       Government: $10
       Spouse: $10
       Students: $5

It’s getting to be that time of year again! Please make plans to join your friends and colleagues for food, drinks, fellowship, and fun to celebrate another great year of SCS ITE. We will be presenting awards and scholarships to those well-deserving recipients, as well as introducing our new officers for the year! For those who fancy themselves as chefs, we will also have a dessert contest. Bring your best recipe to be judged, and may the best confection win!

Please R.S.V.P. to Valerie Holmes by November 30th at vholmes@greenvillesc.gov.

SUMMER MEETING RECAP

On June 13th, we held our summer meeting on the Citadel campus. Howard Chapman kicked us off with some best practices and stories from his illustrious career. Gaye Sprague presented the Southern District ITE module “Working with Elected Officials.” Elliott Summey, Charleston County Council Chairman and Gaye Sprague, City of Greenville Councilwoman participated in a panel discussion and answered questions from the audience on their experiences and how as engineers we can help inform elected officials on project opportunities and concerns. Thanks to all that attended!

After the meeting some of our members attended Engineers Day at the Ball Park which is hosted by ASCE/SAME Charleston Post/Civil Engineers Club of Charleston. It was a great event with fellowship, food, and fun! I encourage everyone to try and attend next year.
On July 2, 2013, Mayor Joseph P. Riley, Jr. and members of City Council dedicated the Visitor Center Transit Mall in honor of Howard R. Chapman. City Council voted in favor of a resolution dedicating the transit mall in honor of Howard Chapman on August 16, 2011, after he announced his retirement as the executive director of CARTA, after 42 years of public service.

Mayor Joseph P. Riley, Jr. said, “Howard’s service to the city has been extraordinary. He was very much involved in the Visitor Reception and Transportation Center planning, funding and development. He helped create the DASH system, which the city developed and operated before CARTA was formed. The DASH system and the Visitor Center have been of extraordinary benefit to the city and our community. Howard also was very much involved in hurricane preparation and recovery. His work during Hurricane Hugo in 1989 was of extraordinary value.”

Howard Chapman is a Registered Professional Engineer and has served the Charleston Area in a multitude of transportation roles where he has overseen the changeover of Charleston’s Transit System from SCE&G to CARTA. On July 1, 1999, he became the Executive Director of the Charleston Area Regional Transportation Authority/CARTA after serving as the Interim Executive Director for the agency since its 1997 inception. He was the Director of the Department of Traffic and Transportation in Charleston from 1971 to 1999. He also served as Chairman of the Charleston County Transportation Committee from 1999 to 2006. He currently serves as a member of that Committee and is currently also a member of the Mount Pleasant Planning Commission.

Congrats Howard, it is well deserved!!
TREASURER’S REPORT
Valerie Holmes

As of 09/30/2013, we have $11,926.61 in our section’s checking account. This amount is on track to meet the goals that we have established for the year. Without these funds, we would not be able to offer the educational and networking opportunities that are beneficial to us all.

Soon, our section will be making its annual contribution to our scholarship funds. Until then, the scholarship balances, as of 02/28/13, are as follows:

Rowe - $29,344.68
Stafford Clark - $32,226.99

Our PayPal account, which we can draw from at any time, has a balance of $152.96 as of 09/30/2013, which is the result of some section members paying annual dues through the website. If you have not yet paid dues for 2013, you may do so in a few ways: send your payment to me at the address below, pay me at an upcoming section meeting, or through PayPal. Thank you so much for your continued support of the section!

Valerie Holmes, P.E.
City of Greenville
P.O. Box 2207
Greenville, SC 29602

PayPal

SCSITE SHIRTS & VISORS FOR SALE!
Please contact Joe Sturm for an ITE Logo Shirt and Jennifer Bihl for an ITE Logo Visor!
2014 South Carolina Future Cities Competition

This year’s theme: Tomorrow’s Transit: Design a way to move people in and around your city

This year SCS-ITE will be sponsoring a new event for us that is for South Carolina middle school children - the 2014 South Carolina Regional Future City Competition will be held at the University of South Carolina Aiken on January 25, 2014. This year is fitting for us to begin sponsorship as the theme is transit.

Future City is a national competition for middle school students and is sponsored by National Engineers Week. The students are challenged to imagine, design, and build cities of the future with input from a teacher and an engineer mentor. The first place regional team will travel to Washington DC during National Engineers Week in February to compete against the other regional winners for a chance to win the top prize of a trip to U.S. Space Camp in Huntsville, Alabama.

The competition is broken into 3 components, developing a vision or theme for their city, building the city in the SimCity software program and then building a model of their City for competition day.

We will be presenting a SCSITE specific award at the competition that is still in development. The organizational committee is always looking for judges for the papers, SimCity models and for competition day, the first two which can be done remotely. I know everyone’s time is precious but this is another great opportunity to give back to young future engineers! Email (jennifer@bihl-engineering.com) or call (843-637-9187) Jennifer Bihl if you are interested in helping in any way.

Schools that have participated in the past include:

Aiken Area Home Educators | Alcorn Middle School | Ashley Hall |
Barnwell Elementary | Carver-Edisto Middle School | Dent Middle School |
E.L. Wright Middle School | Edgewood Middle School |
Felton Laboratory School | Ft. Johnson Middle School |
Jefferson Davis Elementary School | Kennedy Middle School |
Langley Bath Clearwater Middle School | North Augusta Middle School |
Palmetto Middle School | Paul Knox Middle School | St. Mary on the Hill |
W.A. Perry Middle School | Westview Middle School
**Legislative Update**

**Gaye Sprague, P.E.**

With the South Carolina legislature out of session and with this being the second year of a two-year session, there is not likely to be a lot of new legislation introduced this fall for consideration in January. There is still a texting while driving bill active, but interest has been expressed to look into all forms of distracted driving. Several cities and counties across the state are beginning to adopt texting while driving bans.

Please call me if you have thoughts about this, 864-242-3106, or e-mail at gayesprague@cs.com
NEWS FROM THE CITADEL STUDENT ITE CHAPTER
WILLIAM J. DAVIS, PH.D., P.E.

SC ITE Section Summer Meeting. Citadel students and faculty hosted the SC Summer Section meeting held June 13, 2013 on campus in Bond Hall. The meeting program, “How Engineers Should Communicate with Elected Officials,” was based on curriculum from the Southern District Leadership Program. Mr. Howard Chapman, Charleston Area Regional Transit Authority, Ms. Gaye Sprague, Greenville City Council, and Mr. Elliott Summey, Charleston County Council, provided informative and entertaining examples from their wealth of experience on how engineers should interact with elected officials, and with the public, to help transportation and development projects effectively move through the public approval process towards successful implementation. In addition, Southern District ITE President, Martin Bretherton, Jr., attended the meeting and provided an update on District ITE activities. 20 people attended the meeting including six Citadel civil engineering students and Dr. Ron W. Welch, Dean of Citadel School of Engineering. Afterwards a joint meet and greet social was held with engineers and guests from Eastern Branch ASCE, Charleston Post SAME, and Charleston CE Club at the Charleston Riverdogs minor league baseball game.

Student Summer Employment. Citadel students came back to campus this fall with fantastic summer work experience in transportation related engineering and construction positions. Many thanks to the companies and organizations who provided these great learning opportunities for our students, which included:

<table>
<thead>
<tr>
<th>Student</th>
<th>Company</th>
<th>Location</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel McCullough</td>
<td>Alliance Consulting Engineers</td>
<td>Greenville, SC</td>
<td>Land development</td>
</tr>
<tr>
<td>Trent Butler</td>
<td>ESP Associates</td>
<td>Charlotte, NC</td>
<td>Lidar, surveying for NC DOT projects</td>
</tr>
<tr>
<td>Kyle Smiley</td>
<td>Bihl Engineering</td>
<td>Charleston, SC</td>
<td>Traffic engineering studies</td>
</tr>
<tr>
<td>Zac Carter</td>
<td>R. Joe Harris &amp; Associates</td>
<td>Fort Mill, SC</td>
<td>Surveying, land development</td>
</tr>
<tr>
<td>John Duane</td>
<td>AEI Consultants</td>
<td>Ashville, NC</td>
<td>Erosion control, geotech testing</td>
</tr>
<tr>
<td>Taylor Hart</td>
<td>GEL Engineering</td>
<td>Charleston, SC</td>
<td>Surveying, port construction project</td>
</tr>
<tr>
<td>Ian McMillan</td>
<td>NS State Univ.</td>
<td>Raleigh, NC</td>
<td>Bridge scour research intern</td>
</tr>
<tr>
<td>Jake Dopson</td>
<td>Volkmar Consulting Services</td>
<td>Goose Creek, SC</td>
<td>Soil and material testing</td>
</tr>
<tr>
<td>Josh Funderburk</td>
<td>Banks Construction</td>
<td>N. Charleston, SC</td>
<td>Road construction</td>
</tr>
<tr>
<td>William Parker</td>
<td>Banks Construction</td>
<td>N. Charleston, SC</td>
<td>SC 61/Bees Ferry Ferry Rd. construction</td>
</tr>
<tr>
<td>Garrett Dorn</td>
<td>Hussey, Gay, Bell &amp; Deyoung</td>
<td>Mt. Pleasant, SC</td>
<td>Land development design</td>
</tr>
<tr>
<td>William Livingston</td>
<td>Hussey, Gay, Bell &amp; Deyoung</td>
<td>Mt. Pleasant, SC</td>
<td>Land development, surveying</td>
</tr>
<tr>
<td>Adam Huskins</td>
<td>Triplet-King/KCI</td>
<td>Rock Hill, SC</td>
<td>Roadway design, field inspection</td>
</tr>
<tr>
<td>Louis Guess</td>
<td>SC DOT, Dist. 6</td>
<td>Bamberg, SC</td>
<td>Road construction inspection</td>
</tr>
<tr>
<td>Christopher Miller</td>
<td>SC DOT, RPG 1</td>
<td>Columbia, SC</td>
<td>Geotech and materials testing</td>
</tr>
<tr>
<td>Grayson Gasque</td>
<td>SC DOT, Dist. 5</td>
<td>Marion, SC</td>
<td>Road construction inspection</td>
</tr>
<tr>
<td>William Waldrop</td>
<td>NC DOT, Dist. 5</td>
<td>Raleigh, NC</td>
<td>Concrete testing, field inspection</td>
</tr>
<tr>
<td>Mason Ackerman</td>
<td>Charleston, Public Works</td>
<td>Charleston, SC</td>
<td>Storm water design, field inspection</td>
</tr>
<tr>
<td>Henry Mills</td>
<td>Venture Engineering</td>
<td>Conway, SC</td>
<td>Parking lot design, land development</td>
</tr>
</tbody>
</table>
USC ITE had a strong presence at the College of Engineering’s New Student Day on August 18th. Dozens of new civil engineering students came by and many expressed potential interest in the transportation field. Those interested gave their contact information for news about upcoming meetings and other events. In addition to the new students, we plan on speaking to other transportation engineering classes before the first meeting to encourage upperclassmen to check out ITE.

USC ITE has yet to hold a meeting, but the first meeting of the semester is tentatively scheduled for Wednesday, October 9th. We are expecting to have Mike Barbee, P.E. speak at the meeting. Mr. Barbee is a Regional Production Engineer in Regional Production Group 2 at the SCDOT headquarters in Columbia. He was a member of ITE at NC State where he earned his undergraduate degree and he is interested in helping even more in the future. His presentation will include the real-world applications for the information we are learning in our engineering classes and will detail the steps needed to complete a transportation engineering project.

This summer, chapter members participated in a variety of activities. Ms. Candyce Brown who is now the chapter President had the honor to participate in the Washington Center’s Summer Transportation Internship for Diverse Groups (STIPDG). During her STIPDG summer internship, she reviewed stewardship agreements for Planning and Environment and gained experience in the planning oversight process through participating in the Baltimore Regional Transportation Council.

SCSU ITE chapter members participated in the STEM day that was held at Felton Laboratory School. The kids were welcomed in and asked to select a shiny sticker and mechanical pencil of their choice. The stickers were all transportation related (stop signs, caution signs, trucks, motorcycles, bicycles, cars, SUVs, helicopters, airplanes, hot air balloons, and many fun others.) After they entered, we passed out a scrambled word puzzle and a word search. Each word was related to transportation. The children were asked what the selected mode was and how is it used. At the end of the session, after it was certain that each of them could now define transportation, a low-calorie candy treat was given to them for marvelous participation.

Two chapter members presented their research papers at the 2013 Mid-Continent Transportation Research Symposium, Ames, Iowa. Mr. Jamario White presented a paper entitled “Distracted Biking: A Review of Current State of Knowledge”. Ms. Chandani Malla presented a paper entitled “An Investigation on Guidance of the Trip Generation Model Transferability between MPO’s in the US”. 
NEWS FROM THE CLEMSON STUDENT ITE CHAPTER
WAYNE SARASUA, PH.D., P.E. & JENNIFER OGLE, PH.D.

The Clemson University Student Chapter of the Institute of Transportation Engineers continues to make strides after a successful 2012-2013 academic year. The past year was highlighted with winning the best student chapter in the ITE Southern District. We look forward to defending our crown! The chapter currently has roughly 25 members with a majority being graduate students.

Earlier this fall the chapter elected new officers to carry the mantle and build on the good work of the immediate past officers. The current executive board consists of: President – Vijay Bendigeri; Vice President – Katelyn Love; Secretary - Elizabeth O’Sell; Treasurer – Andrew Stokes; and Communications Chair – Adika Mammadrahimli. The new officers have hit the ground running.

The chapter is continuing its road safety awareness campaign through the distribution of wrist bands with the text ‘Stay Alive - Don’t Text &Drive’. For more information on the safety campaign and the opportunity to support our cause to raise awareness on the dangers of texting while driving, please visit our website http://www.clemsonite.org and take a pledge not to text and drive.

The chapter continues to have weekly meetings featuring guest speakers with loads of real-world experience in the transportation engineering field. These seminars provide student members many opportunities in professional development. Recent speakers include Clemson campus planner Tanya DeOliveira, South Carolina Section member Wil Ravenhorst, and Georgia Section member (and recent Clemson graduate), Graham Malone.

The chapter participated in a number of service activities this semester. Several students did data collection for a bike and pedestrian study on Clemson University’s campus. In this study, bike and pedestrian counts were conducted by members during the morning and afternoon peak class times at selected locations on Clemson’s campus.

In September, 2013 members of our chapter had the opportunity to give back to our community by participating in Clemson Habitat for Humanity Homecoming Build. Many of our members participated in this event by helping to put up roof trusses for the home built on Bowman Field during the week of homecoming. This year’s project attracted many volunteers and the house was built faster than expected. ITE students were happy to be part of such a life-changing housing project.

The chapter is gearing up for our big fall fundraiser, a tailgate social on the day of the Clemson—Citadel football game. A number of Clemson transportation alumni will be returning to their alma mater to watch the football game and participate in tailgate festivities put on by our student chapter. We’re looking forward to a great game. Go Tigers!
BRAINTEASER!

Joe Sturm

When designing a safe horizontal curve, which of the following criteria applies?

- a. Curve Radius
- b. Passenger Comfort
- c. Sight Distance
- d. Shoulder Width
- e. Speed-Limit Posting
- f. Super-elevation Rate
- g. Traffic Volume
- h. Weather Conditions

Be the first to answer correctly to be recognized in the next issue and receive a $5 discount at the next meeting. Email your answer to sturmjp@scdot.org

LAST ISSUE’S BRAINTEASER ANSWERS

Josh Johnson of Stantec was the first to answer, 12.0000

QUESTION: What is the value of x to 4 decimal places?

\[ x = \frac{3 \times 6 - 5 + 3}{6 \times 2^3 / 7} \times \left( \frac{10^4}{2} - 5 \times 2^2 \times (12 \times 3 - 2) \right) + 10 \]
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RAI Products is a manufacturer and distributor of Traffic Control Equipment and Intelligent Transportation Solutions (ITS) covering both North and South Carolina. We represent some of the leading manufactures in the traffic industry: Econolite, SafeTran, EDI, Intuicom, Pelco, GE Lighting, Eltec, Campbell Corporation, Hubbell and many others.

Founded in 1954, we are known for offering quality products and outstanding customer service. We stock thousands of items in our Charlotte warehouse and ship most orders the same day they are received. Whether you need just a roll of stainless steel banding, a wireless site survey performed or equipment and materials to build a complete signalized intersection (or multiple intersections), we have it "on the shelf".

RAI Products, 60 years in the traffic business and still going strong!
ABOUT ITE
The Institute of Transportation Engineers is an international educational and scientific association of transportation professionals who are responsible for meeting mobility and safety needs. ITE facilitates the application of technology and scientific principles to research, planning, functional design, implementation, operation, policy development and management for any mode of transportation. Through its products and services, ITE promotes professional development of its members, supports and encourages education, stimulates research, develops public awareness programs and serves as a conduit for the exchange of professional information.

FIND SCS-ITE ONLINE
ON THE WEB AT: www.SCS-ITE.org
ON FACEBOOK: Search “South Carolina Institute of Transportation Engineers”

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Newsletter: Rick Reiff — Stantec, rick.reiff@stantec.com
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DRIVER is the official publication of the South Carolina Section Institute of Transportation Engineers, the professional society for transportation engineers in South Carolina. It is affiliated with Southern District 5 ITE and International ITE.

Please submit any news on members, the section, or the profession to Rick Reiff at rick.reiff@stantec.com