

VOLUME VII  
ISSUE II  
SUMMER 2013

# ite DRIVER

## SOUTH CAROLINA SECTION

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## 2013 SCSITE BOARD



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## PRESIDENT'S MESSAGE

### Jennifer Bihl, P.E.

What a busy Spring and start to the Summer we have had! First off, congratulations to Wayne Sarasua, who at the Southern District ITE Annual Meeting in Charlotte on April 9th was presented with the 2012 Excellence in Transportation Engineering Education Award!! With so many worthy candidates throughout the Southern District, this award is a testament to the impact that Wayne has had and continues to have on so many folks in South Carolina and beyond. Wayne was blown away with this great honor and was for once speechless! Congrats again Wayne!

Also at the meeting, the Clemson University student chapter won Outstanding Student Chapter and our section won Runner-up for Outstanding Small Section. The South Carolina Section and its membership were very well represented throughout the entire SDITE Annual Meeting, great job South Carolina!

Also, congratulations to the Citadel, who placed 1<sup>st</sup> in the Transportation Engineering Competition and winning the 2013 ASCE Conference Championship in Columbia on April 4<sup>th</sup> through 6<sup>th</sup>!!

The Chapter has been very busy in the first part of the year, with the Spring Meeting, Leadership Training, Southern District Meeting, and Vendor Day all be held in March, April and May. Thanks to everyone who participated, all of the events have had great turnout from our section.

Our summer activities have just started with the Summer meeting, Engineers Day at the Ballpark, and the Scholarship Golf Tournament.

The SCSITE Annual Scholarship Golf Tournament will be held on September 5<sup>th</sup> at Northwoods Country Club in Columbia. Please contact Mike Ridgeway to for sponsorship opportunities and reserve your spot in the tournament! We are looking forward to an afternoon of fun and competition.

Thank you to everyone who has been involved with the events so far and here's to looking towards a strong finish to the year!



*Jennifer*



## SPRING MEETING RECAP

### Joe Sturm



We had an excellent spring meeting at the Colonial Center in Downtown Columbia on March 13, 2013 that included three presentations and a traffic bowl. The meeting, which was attended by 26 members, began with the presentations, two of which were presented by student members of Clemson University's ITE chapter. The two Clemson students presented their own research related to improved parking management on the Clemson campus and dynamic traffic modeling for following vehicles. A number of other student members from Clemson University's ITE chapter also attended and participated in the meeting. Dipak Patel, from the SCDOT planning office, then presented on the INRIX traffic data our state now uses. This data gives planners a revolutionary way to see how traffic responds to congestion, work zones, and collisions in a quick manner while also showing how the entire system reacts to localized improvements.

After a break for a catered lunch, three teams were formed for the traffic bowl. Clemson students formed one team, the ITE board formed another team, and other ITE members formed the third team. Each team performed well, but your SCSITE board won with strong performances by members Rick Reiff, Valerie Holmes, and Joe Sturm. A good time was had by all!



## VENDOR DAY RECAP

### LIZ CARPENTER



Vendor Day 2013 was a great success! We had **130** folks from all over the state attend the event at Brookland Baptist in Columbia to view the **19** safety equipment, signs and markings, work zones, signals and ITS equipment and Software Vendor displays. The Vendors graciously sponsored a **FREE** lunch for all attendees and provided door prizes. In between Vendor display time, technical presentations were held. SCSITE would like to thank the following professionals for speaking during Vendor Day:

**Mr. Sunny Nandagiri, P.E., P.M.P.** and **Mr. Ryan Eckenrode, P.E., P.T.O.E.** (AECOM):  
SCDOT-Safety and Operations Study at 15 High Crash Locations

**Mr. Colin Kinton, P.E.** (Beaufort Co.): Traffic Responsive Wireless Detection in Beaufort Co.

**Mr. Mark Sullivant** (Rhythm Engineering), **Mr. Matthew Schindler** (Quickkurb), and  
**Mr. Bobby McGraw** (Control Technologies): Vendor Presentations

**Mr. Kenn Fink, P.E.** and **Mr. Andy King, P.E.** (Kimley-Horn): Regional Traffic Operations

**Mrs. Carol Jones, P.E.** (SCDOT): SCDOT Traffic Signal Updates and Funding

# SOUTHERN DISTRICT LEADERSHIP TRAINING RECAP

Rick Reiff

On Friday, April 26th and Saturday, April 27th, seven folks from SCS-ITE gathered at the Bonnie Doone Plantation near Walterboro for Southern District ITE's Leadership program. Those attending included Jennifer Bihl, Lori Elliott, Rick Day, Rick Reiff, Michael Ulmer, Chad Bobrowski, and Aaron Livingston.

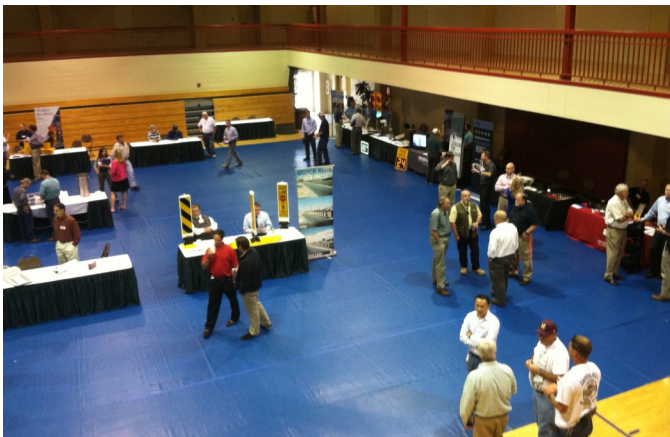
The program has been developed over the past few years by an SDITE committee, which includes Dan Turner of the University of Alabama, Richard Atkins, and former SDITE president Jim Westmoreland of the City of Greensboro. It is specific to transportation professionals and has been implemented to great success to other sections within the District. Dan, Richard, and Jim facilitated the program for South Carolina, and for the first time condensed the program into an intensive day and half. Modules included Having a Positive Influence, Creating a Shared Vision, Developing Leaders, Creating Positive Change, Demonstrating Character, Conducting Effective Meetings, Dealing with Difficult People, Effective Leader Communications, Mentoring Employees, Developing Vision and Action Plans, and Identifying and Engaging Stakeholders.

The folks attending received an important toolbox for developing as a leader and the lessons gathered over the course of the program were very powerful. They gave us tools to not only look at ourselves but how to be an inspiration to others around us. This program will be an important piece of grooming the next generation of leaders in the transportation profession. Dan, Richard, and Jim have engaged other Districts and International ITE about how to spread the program throughout ITE.

Thank you to Jennifer and Lori for coordinating the details, and Dan, Richard, and Jim for taking time out of their busy schedules to come to South Carolina.



## VENDOR DAY RECAP CONTINUED



A special thanks to our Vendor Day team that helped make the event so successful: Mrs. Liz Carpenter, Mrs. Susan Ruinen, Mrs. Patty Langland, Mrs. Jennifer Bihl, Ms. Lori Elliott, Mr. Joseph Sturm and Mr. Rick Reiff.

SCSITE would also like to thank Clemson Transportation Technology Transfer Service for co-hosting the event. They took care of the online registration, nametags, and audio visual equipment during the event. Thank you Clemson T3!



## PAY YOUR DUES ONLINE WITH PAYPAL

Now you can conveniently pay your Section Dues online through PayPal using your credit card!

If you have not yet paid your section dues for 2013, please visit the section's website at [www.SCS-ITE.org](http://www.SCS-ITE.org), click on the PayPal link, and follow the simple on-screen instructions. The entire process is quick and easy to follow. If you are unsure if your section dues are current, please send Valerie Holmes an email at [vholmes@greenville.org](mailto:vholmes@greenville.org) and she will let you know your status.



## JOIN SCS-ITE TODAY!

Membership forms are available at:

[www.SCS-ITE.org](http://www.SCS-ITE.org)

Dues are only \$20 annually!



city of  
**greenville**

## TREASURER'S REPORT

### Valerie Holmes

As of 06/24/2013, we have **\$7,548.18** 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.

The scholarship balances, as of 06/24/13, 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 **\$133.84** as of 06/24/2013, 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



## SCSITE WELCOMES NEW MEMBER LEE TUPPER!

Lee Tupper recently joined HDR's Rock Hill office where he has begun working on intersection improvements, design builds, signing, and roadway widening projects. Lee completed his Bachelors, Masters and PhD at Clemson where he worked on SCDOT sponsored research projects in areas including safety, ITS, tort liability, project/contract management, and training development. He is looking forward to applying his research and educational experiences to the industry and gaining experience on a wide range of transportation projects.



Lee was an active member of the Clemson ITE student chapter where he served as President and participated in the Traffic Bowl. He is excited to join ITE as a professional. Lee was recently married in May and enjoys sailing, fishing, tinkering, Clemson football games, and spending time at Edisto.



## SCSITE WELCOMES NEW MEMBER MICHAEL ULMER!

Michael Ulmer was born in Charleston, South Carolina. He earned a BA in English from Furman University in 1987 and a BS and MS in Civil Engineering from Clemson University in 1994 and 1995. He currently works for S&ME, Inc. in their Mt Pleasant, South Carolina, office where he is a senior engineer and project manager. While primarily a geotechnical engineer by training and practice, Michael has several years' experience in the transportation engineering field doing hydrologic and hydraulic design as well as geometric roadway design. As a geotechnical engineer, he now supports bridge and roadway design projects. Michael and his wife Andrea have two daughters, and he enjoys fishing and traveling in his time off.



## NEWSLETTER EDITOR

**RICK REIFF, P.E., PTOE**

Thank you again to everyone who has contributed to this month's issue! Please let me know if you have any project news, member announcements, job opportunities, or anything else you would like to contribute to the next newsletter! Anyone can submit material!

Please send any news, questions, or comments to my attention at [rick.reiff@stantec.com](mailto:rick.reiff@stantec.com)

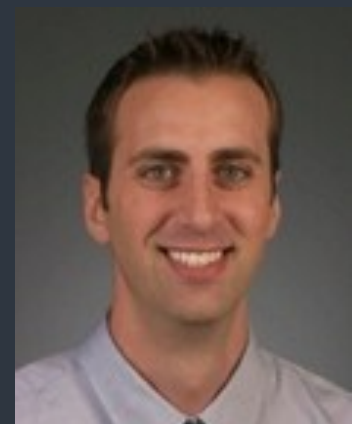


## LEGISLATIVE UPDATE Gaye Sprague, P.E.

Although the texting while driving bill had previously received a favorable report from the House Education and Public Works Transportation Subcommittee, it is likely stalled for the year in the House. The Senate bill may move to the full Judiciary committee (as of April 26), but the best that can be hoped for at this point is that it just doesn't have to start from the beginning of the process next year.

As of today, several bills regarding transportation funding are being considered. For instance, Senator Harvey Peeler has a plan that calls for transferring half of vehicle sales taxes to the State Highway Fund and half to the State Infrastructure Bank as well as using 20 percent of General Fund growth from the previous year for bridge maintenance. The legislation also moves the State Infrastructure Bank to the South Carolina Department of Transportation (SCDOT). Stay tuned!

If you have questions or want to discuss, give me a call at 864/242-3106.



*"With a stop light, green means 'go' and yellow means 'slow down'. With a banana, however, it is quite the opposite. Yellow means 'go', green means 'whoa, slow down', and red means 'where the heck did you get that banana?'"*

*- Mitch Hedberg*

*Sprague & Sprague*  
CONSULTING ENGINEERS

## WAYNE SARASUA WINS SDITE'S 2012 EXCELLENCE IN TRANSPORTATION ENGINEERING EDUCATION AWARD!!

The Excellence in Transportation Engineering Education Award recognizes an individual who contributed in an outstanding way to the education of future leaders in the transportation engineering field and to their local Section or the Southern District ITE.

The recipient of this year's award exemplifies Excellence in Transportation Engineering Education in so many ways. As an educator, instilling a passion for engineering is just as important, if not more so, as transferring knowledge of engineering practices and principles. This year's recipient is second to none in passion for engineering and mentoring of students.

In response to an informal call for letters of recommendation, his former students responded by writing glowing letters and also contacting their former classmates for their recommendations. In all, SDITE received **14** letters of recommendations from his current students, colleagues and former students from Georgia, North Carolina, South Carolina and Florida!! In reading the impact he has had on their careers, it is clear that his impact on the Southern District will be felt for years to come. Here are a few excerpts from the recommendation letters we received:

"...he is the "pied piper" of teachers. He attracts the best students and makes them better. He inspires them and makes them leaders. He mentors them and gives them the confidence they need to succeed. How do I know this? He did it for me and he has done it for all of the students I have recruited to my firm..."

"...during my years at school, I had many teachers, but there is one in particular that has shaped me into the traffic engineer I am today. In 2002, I was presented with the opportunity to accompany the ITE student chapter to New Orleans, LA for the 50th Annual Southern District ITE meeting. I had very limited knowledge of traffic engineering at the time, but after riding in a van for over 20 hours and being surrounded with transportation graduate students, my interest in the profession peaked. The passion he exhibited for the profession was definitely felt through his students and me. I came back from that Southern District ITE meeting with a career path and a mentor..."

"...his zest for life and the transportation practice is as contagious as it is inspiring, and he helped mold me into the transportation engineer that I am today. And he continues to make me a better person and engineer even today..."

"...he brings an excitement and passion to education that is very rare in higher education. His commitment to his students is evident through the extensive extracurricular activities that he pushes through the Transportation Systems graduate program as well as the ITE Student Chapter. In addition, his heart for people and community was demonstrated when he led a group of students to Gulf Shores Alabama to perform Hurricane Katrina relief..."

"...he has transitioned from a professor, to an advisor, to a mentor and friend. He has been a part of my life for over a decade. He is not an educator that you just have for one class and move on, he becomes part of your life and professional career..."

As the advisor of the Clemson University Student ITE chapter for the past 15 years and the Georgia Tech advisor prior to that, his student chapter has been honored as the Southern District Best Student Chapter 6 times and runner-up multiple times. They have also won the Southern District Traffic Bowl and had several students recognized for outstanding research papers.

***Congratulations Wayne, it is well deserved!!***



# SDITE ANNUAL MEETING NEWS

Lori Elliott

In addition to Wayne winning the 2012 Excellence in Transportation Engineering Education award, the South Carolina Section was well represented in other awards at the South District Annual Meeting in Charlotte on April 9th.

## BEST STUDENT CHAPTER AWARD – Clemson University

In addition to representing the South Carolina Section in the District Traffic Bowl competition, the Clemson University Chapter also took chapter honors!



## 2012 OUTSTANDING SECTION RUNNER-UP AWARD (GROUP 2) – South Carolina Section

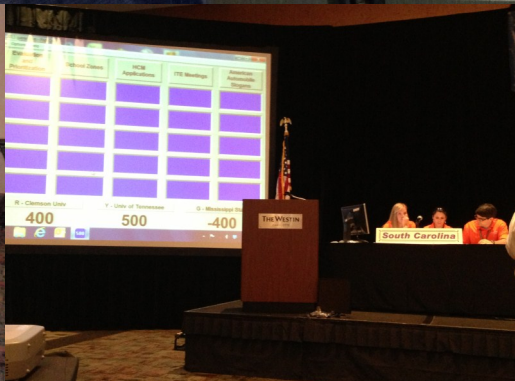
The Southern District has divided the eight Sections into two groups based on size for the Section Award competition. Group 1 is comprised of Alabama, Deep South, Kentucky and South Carolina. Group 2 is comprised of Georgia, North Carolina, Tennessee and Virginia. Our section was recognized as runner-up for Group 2!



## 2014 SDITE OFFICER ELECTIONS

Election results for 2014 SDITE Officers were announced at the Annual Business Meeting in Charlotte. The results of the election were as follows:

- President – Kirsten Tynch (Virginia)
- Vice President – Bill Seymour (Kentucky)
- Secretary/Treasurer – Hollis Loveday (Tennessee)





## Candidates for ITE 2014 International Vice President

**JEFF AREY, P.E. (F)** | Vice President, Reynolds, Smith and Hills, Inc., Jacksonville, FL USA

ITE has an opportunity over the next several years to enhance its image in the transportation industry and increase its membership with value-added services. Individuals working in the transportation profession have choices to make in spending their membership dollars. ITE must earn these dollars by providing current and relevant information that individuals need to do their jobs in public agencies, as consultants or in academia. I want to be a part of this effort and ask for YOUR SUPPORT to allow me to participate.

### ITE

- The organization needs a branding around which the membership can rally and on which the staff can focus.

### MEETINGS

- Opportunities for a joint or combined mid-year meeting with other organizations or ITE districts should be investigated.

### MEMBERSHIP

- Rebuilding ITE membership in major cities in the U. S. and Canada is essential for the future growth of the organization.

### LEADERSHIP INSTITUTE

- The ITE Leadership Institute will add value to ITE membership as it will provide training that is vital for career advancement and to develop future leaders of ITE and the Transportation profession.

### TRANSPORTATION FUNDING

- ITE must become recognized as a player in the reauthorization process. ITE members must be energized at the local level and provided with information to discuss reauthorization with their representatives.

### WHY JEFF?

**Involvement** - joined as a student Member in 1965 at North Carolina State University; chaired and served on numerous ITE committees at all levels; ITE International Director for the Florida/Puerto Rico District from 2008–2010.

**Leader** - served on the Board of Governors of NSPE; President of 3 State Engineering Societies; Vice-chair of Florida Engineering Management Corporation; VP of 3 major transportation companies; recognized by peers by being selected Engineer of the Year in both Northeast Florida and Florida.

**Understands** - that volunteers make ITE function; the need to listen to the members; the need to act; the time commitment needed to work with the members, the Board and staff to make ITE the Transportation Organization of choice.



**John J. Kennedy, P.E., PTOE (F)** | Senior Principal, Vanasse Hangen Brustlin, Inc., Watertown, MA USA

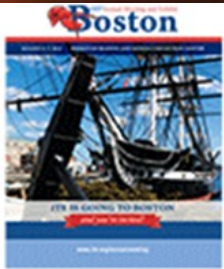
Understanding the needs of our members is integral to guiding ITE's growth. My extensive background and passion for the profession and Institute provide me with a unique perspective, and what I believe to be a true understanding of our memberships' needs. My priority is to serve ITE's primary membership base—practicing engineers and planners and educators—by providing the tools we need to do our jobs in an evolving and rapidly changing environment. One of the many components of this will be to provide better connections between practitioners and the research and products of our university colleagues, and the students they are training as our future replacements. I also believe that we must remind ourselves of our roots, which will allow us to better understand and question the output of the models that we rely so heavily on, and to think about the application of standards and guidelines we use in design. And, we must do this in a cost-effective manner, recognizing the Institute's revenue and expense streams. I am ready to take this on.

My traffic engineering career spans more than 40 years and I'm still very active on the technical side. I'm a registered Professional Engineer and I've been a PTOE since the program started in 1999. A 38-year member of ITE, I've held technical and elected positions at the District, Section, and Chapter levels, and served on the International Board of Direction and Coordinating Council. I'm a co-founder of Vanasse Hangen Brustlin, Inc. (VHB), a 900-person transportation, land engineering, environmental, and energy firm established in 1979. I believe that my diverse experience will enable me to effectively lead ITE and I look forward to continuing to make a positive impact on the organization.

Balloting starts July 1 and I would appreciate your support. Regardless, ITE is your organization—please participate in electing the leadership that will help guide its future.

If you'd like to get to know me better and learn about my vision for ITE, review my brochure and campaign statement at [www.ite.org](http://www.ite.org).



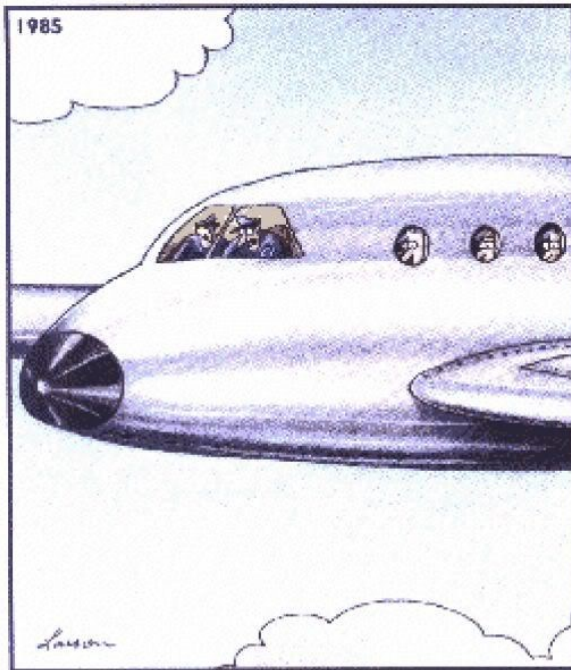


# ite Annual Meeting and Exhibit Boston August 4-7, 2013

## 2013 IMPORTANT DATES

**GOLF TOURNAMENT**  
September 5, 2013  
(Thursday)  
Northwoods Golf Club,  
Columbia

**CHRISTMAS PARTY**  
December 5, 2013  
(Thursday)  
Sheraton Downtown  
Hotel, Columbia



"The fuel light's on, Frank! We're all going to die!  
... We're all going to die! ... Wait, wait. ... Oh,  
my mistake—that's the intercom light."

## SCSITE SHIRTS & VISORS FOR SALE!

Please contact Joe Sturm or Jennifer Bihl for an ITE Logo Shirt or an ITE Logo Visor!



## 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 (ITE) continues to provide opportunities for its members in professional development, technical research, fund-raising, community service, and social activities.

Members of the chapter attended the 61st Southern District ITE (SDITE) Annual Meeting held in Charlotte, NC from April 7-10. The theme of the conference this year was "Partnerships for Vibrant Communities". Members of the chapter represented South Carolina in this year's traffic bowl competition with a team made up of graduate students Meredith Ladue, Brian Maleck and Laura Rowe. The team competed fiercely but was ousted in the first round by the eventual winner of the competition, the University of Tennessee. We recognize the tireless efforts of our traffic bowl team. Kudos! Also at the annual meeting awards banquet, the Clemson chapter was recognized as this year's best student chapter in the Southern District. This accomplishment was made possible through the invaluable guidance given by our advisors Drs. Sarasua and Ogle and the active participation of our members in chapter activities. Overall, the annual meeting was a huge success with thought provoking technical sessions and many networking opportunities for our members.



One service and community involvement project undertaken by the Chapter this year was volunteering at the Clemson Elementary School's International Festival held on March 2. The chapter helped sponsor four tables (Bangladesh, Ghana, India and Ukraine). Each table had a poster showing the common modes of transportation in that country, as well as samples of their country's native delicacies sold by ITE members to raise money for the school's PTA. This is the eighth consecutive year that the Chapter has sponsored at least one table at this event and this year, the Chapter managed to raise over \$200 for the school's PTA. Other chapter activities this spring included: a trip to the Transportation Research Board (TRB) Annual Meeting in Washington, DC in January and volunteering at the Piedmont Chapter Mathcounts Competition in February.



The chapter's weekly meeting schedule continues this spring with a majority of the meetings thus far being dedicated to preparing the traffic bowl team for the SDITE annual traffic bowl competition. Earlier in the semester on March 8, the chapter was privileged to welcome Tanya DeOliveira from Clemson University Planning and Design. Tanya shared the latest in bicycle planning and design and the steps Clemson is taking to layout and implement a 10 year bike plan on campus and the neighboring towns. Also, on April 24, Joshua Hurst – a traffic engineer from Clark Nexsen – shared some of the transportation planning and traffic impact analysis done by the design team of the planned Douthit Hills development here at Clemson.

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# NEWS FROM THE SOUTH CAROLINA STATE STUDENT ITE CHAPTER - JUDITH MWAKALONGE, PH.D.



Spring semester was very productive for SCSU ITE chapter. On May 10, 2013, the President, Vice President, and secretary of SCSU ITE student chapter graduated from South Carolina State University. The president will be working for Federal Highway Administration (FHWA). Apart from the chapter leaders, three more chapter members graduated the same day. The SCSU ITE chapter appreciates their membership and service and wishes them all the best in their future endeavor. New leaders were elected with Ms. Candyce Brown serving as the president, Ms. Chandani Malla as the Vice President, and Mr. Jamario White as the secretary.



Three students presented their research papers at the 54<sup>th</sup> Transportation Research Forum Annual Meeting in Annapolis, Maryland, lifesavers conference in Denver, Colorado, and the 2013 SDITE Annual Meeting in Charlotte, North Carolina. Mr. Jamario White presented a paper entitled “**Distracted Walking: A Review of Policies and Data Needs**”. Ms. Ashley Graham presented a paper entitled “**Mobile Devices Applications (Apps) for Speed Data Collection**”.

Ms. Fariba Tyebanian presented a paper entitled “**A Simulation Approach to Modeling Biomass and Biofuel Logistics Network: Case Study**”.



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Through our “STAY ALIVE – DON’T TEXT & DRIVE” safety campaign, the chapter continues to passionately spread the word on the dangers of texting while driving. In addition to the distribution of wrist bands with this slogan, the chapter has started a pledge on its website to further discourage texting while driving. Currently, 154 pledges have been taken and the chapter foresees this number increasing as the campaign reaches more high schools and middle schools this year. Also, the chapter has received requests for wrist bands over the past year, the most recent being an order for 500 wrist bands by Thomas Brahms, the executive director and chief executive officer of ITE and Transportation Professional Certification Board Inc (TPCB). As a chapter, Clemson ITE hopes to continue to grow this program with the support of the Clemson and ITE communities. Through continued education and awareness of the dangers of texting and driving, hopefully this program will benefit the lives of all of those involved. 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.



**Lastly and most importantly, members of the chapter would like to congratulate Dr. Wayne Sarasua for receiving the Excellence in Transportation Engineering Education Award at the 61st Southern District ITE (SDITE) Annual Meeting. We are all very proud of you Dr. Sarasua!!**

# NEWS FROM THE CITADEL STUDENT ITE CHAPTER

## WILLIAM J. DAVIS, PH.D., P.E.



### **CITADEL PLACES 1ST IN TRANSPORTATION ENGINEERING COMPETITION, WINS 2013 ASCE CONFERENCE CHAMPIONSHIP!**

Citadel civil engineering students recently competed in the 2013 ASCE Carolinas Conference hosted by University of South Carolina, April 4-6. The Citadel participated in all 12 competitions including: Concrete Canoe, Steel Bridge, Transportation, ASCE Mead Paper, Environmental, Quiz Bowl, Surveying, Hydraulics/Fluids, Geotechnical, Freshmore Challenge, T-Shirt, and Tug-of-War.

Citadel students placed 1st in the transportation completion. Teams of four undergraduate students were asked to conduct 1.) traffic signal warrant analysis, 2.) evaluate left turn phasing, 3.) determine pedestrian and vehicular clearance timing and 4.) develop an overall signalized intersection layout plan. Teams were provided materials and given two hours to complete their submittals. Event coordinators and SC ITE members, Mike Ridgway and Nathan Huynh, organized an outstanding event that challenged students to learn principles of signalized intersection design and criteria for plan preparation.

The Citadel transportation team included:

The Citadel transportation team included:

1. OC Michael Wissehr, Capt. (2013 SC ITE Gilbert Rowe Scholarship recipient)
2. Richard Westheimer, Capt.
3. Kyle Smiley
4. Cody Baird
5. Mason Ackerman (alternate)

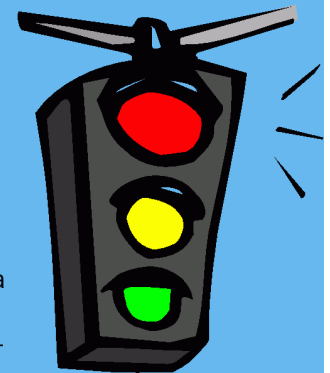
**Mike Ridgway**, Head Judge, said "I recently helped organize a transportation competition for the 2013 ASCE Conference hosted by USC. Teams from 9 colleges/universities participated in a transportation competition involving signal warrant

analysis and preparation of a signalized intersection design in accordance with SCDOT guidelines including, charts, loops, clearance times, etc. I was impressed with the knowledge demonstrated by these students, and the way they worked together. After evaluating their submittals, The Citadel edged Georgia Tech and N.C. State for the best design."

Key preparations for Citadel students included a highly informative session held with SC ITE member **Brian Webb**, Sr. Transportation Engineer with Davis & Floyd. Brian did a terrific job explaining use of technical resources, signal design methods, phase conventions, equipment tables and intersection drawing format. Way beyond sharing his knowledge, Brian made all of the technical requirements seem straightforward and students were able to readily understand what they need to do to be successful in the competition.

Additionally, Roger Bourroughs of Walker Brothers, Inc., and Greg Freel with Trafficware, Inc., demonstrated soon-to-be-installed traffic signal equipment in class. They showed students interconnected cabinet equipment, considerations in controller programming, and signal displays. They also highlighted constructability issues contractors face when installing signal equipment in the field.

These were great learning experiences for Citadel students. 1st place results in the Transportation Competition helped The Citadel win the overall ASCE Carolinas Conference Championship. 2013 marks the 4th time The Citadel has achieved this milestone, previously winning in 2010, 2007 and 1999.





# NEWS FROM THE SOUTH CAROLINA STUDENT ITE CHAPTER

## NATHAN HUYNH, PH.D.



USC ITE finished up the semester by participating in a joint meeting with the University of South Carolina's chapter of AREMA, the American Railway Engineering and Maintenance - of - Way Association. The speaker, Dr. Pelin Pekgun, shared an interesting lecture on the pricing structures of various transportation industries, with a focus on rail and air. The meeting had a strong turnout, as 22 undergraduate and graduate students came to hear Dr. Pekgun's lecture.

USC ITE is sad to see all three of its current officers leave, as Will, Kenny, and Spencer all graduate in May. Kenny has accepted a job with DRMP in Irmo, and Spencer has accepted a job with G. Ben Turnipseed Engineers in Atlanta, GA. USC ITE held elections to replace the graduating seniors, and we are excited to welcome the new officers to our chapter's leadership. Undergraduate students Alex Morgan and

Brigette Shumpert have accepted the role of president and vice-president respectively. USC ITE is excited about the new leadership, and we believe that the chapter is in very capable hands! Spencer, Kenny and Will would like to thank the University of South Carolina and Dr. Nathan Huynh for providing us the opportunity to lead the chapter and we look forward to hearing about its future growth!



### TRIVIA!

#### Joe Sturm



You've gotta be quick as I'm sure I'll get a lot of responses on this one. Do you really know the correct mathematical order of operations? What is the value of x to 4 decimal places?

$$x = \frac{3*6-5+3}{6*2^3!/7} * \left( \frac{10^4}{2} - 5 * 2^2 * (12 * 3 - 2) \right) + 10$$

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](mailto:sturmjp@scdot.org)



### LAST ISSUE'S TRIVIA ANSWERS

Banner issue for Wayne Sarasua, as he was the first to answer correctly the riddle!! Only a few people attempted this question, perhaps because it couldn't be googled easily...

**QUESTION:** What are the numerical values of A, B, C, D, and E below, and why?

A=9, B=15, C=8, D=4, E=2.

16	3	E	13
5	10	11	C
A	6	7	12
D	B	14	1

It's a magic square. All numbers 1 through 16 are used only once. Each row, column, and long diagonal sums to the same value. This particular magic square also has each quadrant add to the same value as the rows, columns, and long diagonals. It's a clever invention. You may have recognized this as Albrecht Durer's magic square. I read about it in Dan Brown's book, *The Lost Symbol*. It's a great read by the way.



## 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.

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