

VOLUME VIII

ISSUE I

SPRING 2014

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SOUTH CAROLINA SECTION

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2014 SCSITE BOARD

Based upon the November elections, your 2014 board members are...

PRESIDENT

Joe Sturm, P.E.
SCDOT Traffic Engineering

VICE

PRESIDENT Valerie Holmes, P.E.
City of Greenville

SECRETARY/ TREASURER

Rick Reiff, P.E., PTOE
Stantec

PAST PRESIDENT Jennifer Bihl, P.E.
Bihl Engineering, LLC

AFFILIATE DIRECTOR

Jae Mattox, P.E.
SCDOT Program Manager

SDITE SECTION REPRESENTATIVE Lori Elliot, P.E., PTOE
SCDOT Traffic Signals

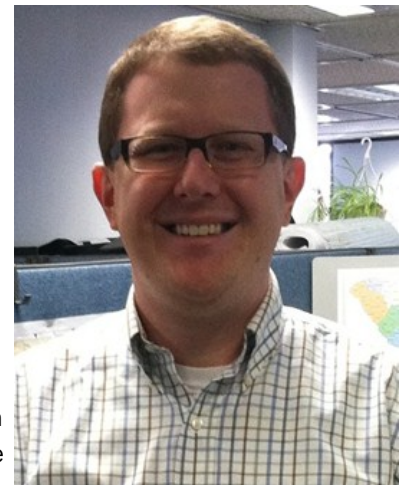


PRESIDENT'S MESSAGE

Joe Sturm, P.E.

As another year passes by, we are reminded of the fleeting nature of time. It's a time to look back at the accomplishments and the failures, a time to consider what lies ahead of us, a time for setting goals, and a time to take action so that progress can continue. Even though that progress often happens slower than we would prefer, the changes are often very significant when observed from a wider lens. Take for instance the increasing prevalence of personal phones, social media, and a "connected" world. Time magazine even reported in 2013 that there are more people without access to a toilet than there are people without access to a cell phone. Or take for instance the changing landscape of our transportation system. Many of us use personal vehicles for our mobility and probably consider the daily commute as a steady, unchanging factor in the daily routine. But think of the developments over the past generation that have improved efficiency even though demand is steadily increasing. We now see signal systems routinely coordinated to optimize throughput, we now utilize many alternative intersection designs that are tailored to the unique conditions of each site, and we now employ many technological advances that monitor traffic conditions and provide for many services in real time. All of these advances and more have and are leading to the next big shift that will shape our world and seem ho-hum to us from a daily perspective once it is implemented. Just imagine the last time you met a friend at a crowded place without using technology (is that even possible?), or imagine what your commute would look like if the roadways did not utilize the available technology that increasingly allows transportation professionals to do more with less.

As we all do our part in progressing the state of the art in our given field, let's not forget to enjoy the process. We are all working toward something, but what personally gives you the motivation to push on towards something better? Whatever your answer to the question is, there is something in all of us that desires to see improvement where something lacks. In applying this truth to our careers, let's focus ourselves to improve our world and achieve balance in our lives. Please stay active with our section and enjoy the benefits of a top-notch professional organization for a very cheap price. We have great value in our local section, and I will strive to keep it affordable for all. In closing, if I can personally be of service with anything you need, please let me know and I will be glad to assist. All the best, JOE





city of
greenville

2013 CHRISTMAS PARTY RECAP!

Valerie Holmes, P.E.

I would like to thank everyone who attended the Christmas Party this past December. We returned to the same venue, and I think it is a great place! Everyone seemed to enjoy the cozy atmosphere, and there was plenty of food. The party was well-attended, with approximately 40 or so members and guests.

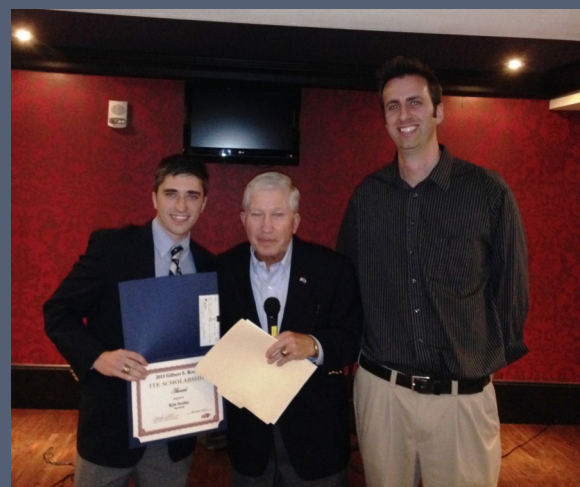
While the ballot count was not official at the time, we may now welcome Rick Reiff as our 2014 Secretary/Treasurer. Joe Sturm has moved to the role of President, and Valerie Holmes is now Vice-President. We also awarded our annual scholarships to three deserving recipients, as detailed below. Gaye Sprague was also awarded the President's Award.

If you were unable to make it in 2013, I hope to see you in 2014! It is always a great time!

SCSITE 2013 SCHOLARSHIP & MEMBER AWARDS!



< SCSITE Stafford-Clark Scholarship
Melissa Gende,
Clemson University



SCSITE Gilbert Rowe Scholarship >
Kyle Smiley, The Citadel



< SCSITE Scholarship
Dennis Burgess, South Carolina State University



Presidents Award >
Gaye Sprague, for her countless contributions to SCSITE through the years!!



SPRING MEETING RECAP

Joe Sturm, P.E.

On March 5th, forty members of the South Carolina section met at the new Amazon distribution center near I-77 and I-26 for the section's spring meeting. The meeting consisted of two primary parts: a tour of the massive distribution warehouse and presentations on *Unique Solutions for Flashing Yellow Arrows*.

First, our members toured the massive facility in two groups with knowledgeable Amazon employees leading the way. An interesting fact I picked up from the tour is that the facility is large enough to house every football stadium in the SEC and still have room for the Gamecock baseball stadium. WOW! There was no mention if the stadiums from the ACC would fit!! The entire process of ordering almost anything that a person can want is being automatized to lessen the wait time between a consumer's order and a package's delivery. Even though this facility is less than a year old, we saw areas during the tour that were being updated to make room for added efficiency. Each step in their process is designed to give their employees a simple task that is easy to follow. As most people can imagine, efficiency is a primary goal for a distribution facility, and they have many more ideas on the horizon to further improve their methods. Almost everyone in attendance was interested if drones were ready to be utilized at this facility; however, we found that they are not far off from being implemented. One employee told us that the technology is already available and that the idea of delivery trucks with human drivers will seem very outdated to the general public in the not-so-distant future.

The second half of the spring meeting consisted of two wonderful presentations on Flashing Yellow Arrows. Sean Coleman, of Kimley-Horn and Associates, Inc., presented on his experiences with the technology. He shared a unique perspective covering ways to set up the signal cabinet as well as useful tips for designing signal phases. We learned that the flashing yellow arrow has one of the highest rates of driver comprehension when compared to other methods of unprotected signalized left turns. This higher comprehension bodes well for the safety of these movements. Lastly, Alan Davis, the State Signal Engineer for GDOT, presented on Georgia's rush to the scene on implementing flashing yellow arrows. Only recently, Georgia's stance shifted to readily implementing the technology. Alan showed examples where GDOT has installed flashing yellow arrows and informed us that more are coming. Georgia's experience has evolved from an academic knowledge of the technology to a front-runner in its implementation.



**2014
SAVE THE
DATES**

SUMMER MEETING
June 26, 2014
(Thursday)
ICAR, Greenville

GOLF TOURNAMENT
September 4, 2013
(Thursday)
Northwoods Golf Club,
Columbia

CHRISTMAS PARTY
December 4, 2014
(Thursday)
Sheraton Downtown
Hotel, Columbia

**JOIN SCS-ITE
TODAY!**

Membership forms
are available at:

www.SCS-ITE.org

Dues are only \$20
annually!

SOUTHERN DISTRICT MEETING RECAP

SCSITE ITE put on a great showing at the Southern District ITE (SDITE) Annual Meeting in April, with many accolades received!

2015 SDITE SECRETARY/TREASURER – Jennifer Bihl (SC)

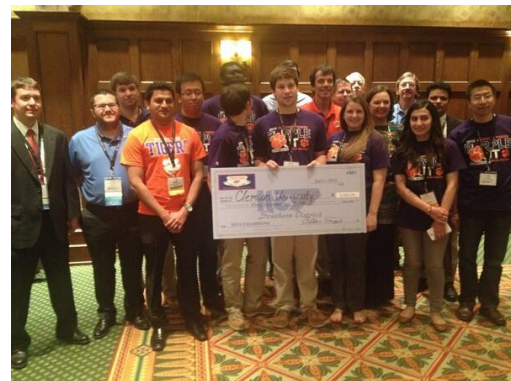
Thank you to everyone for voting and Congrats Jennifer!! The rest of the 2015 SDITE officers are:

- President: Bill Seymour (KY)
- Vice-President: Hollis Loveday (TN)
- Secretary/Treasurer: Jennifer Bihl (SC)
- International Director: Bob Murphy (TN)



TRAFFIC BOWL WINNERS – Clemson University

Congratulations to Clemson University for winning the 2014 William Temple Scholarship Challenge Traffic Bowl!! Clemson will represent SDITE at the International Traffic Bowl competition in August at the ITE Annual Meeting (Seattle).



BEST STUDENT CHAPTER AWARD – Clemson University

For the 2nd Year in a row!!



2013 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!





TREASURER'S REPORT

Rick Reiff, P.E., PTOE

As of 06/05/2014, we have **\$11,927.65** 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.

Scholarship balances, as of last year, 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 **\$191.20** as of 06/05/2014, which is the result of section members paying annual dues through the website.



2014 MEMBER DUES ARE DUE NOW!

If you have not yet paid dues for 2014, 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!



Rick Reiff c/o Stantec
4969 Centre Pointe Drive, Suite 200
North Charleston, SC 29418

PAY YOUR DUES ONLINE WITH PAYPAL

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

Please visit the section's website at 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 contact Rick at rick.reiff@stantec.com and he will let you know your status.

SCSITE SHIRTS & VISORS FOR SALE!

Please contact Joe Sturm for an SCSITE Logo Shirt or SCSITE Logo Hat and Jennifer Bihl for an SCSITE Logo Visor!



PROJECT MANAGEMENT CORNER

Five Stages of Project Team Development

Sreekanth (Sunny) Nandagiri, P.E., PMP-Associate Vice-President, AECOM

Project Team is a group of individuals assembled to perform activities that contribute toward achieving a common goal. Creating an interdisciplinary team with the right mix of skills is vital to the smooth and successful execution of any project. Team members may be able to cover multiple roles or there may be a sub-team focused on a particular area (task). Resource allocation depends on the level of expertise team members have, the scope of the project, and budget.

Every project team typically goes through the five stages of team development:

Stage 1: Forming | Stage 2: Storming | Stage 3: Norming | Stage 4: Performing | Stage 5: Adjourning

Stage 1: Forming: This is the polite, opening, get acquainted, ice breaking stage of group formation. Team members learn about the project they will be working on, discuss the project's objectives/goals and start to think about what role they will play on the project team. They are not yet working on the project. They are, effectively, "feeling each other out" and finding their way around how they might work together. During this initial stage of team growth, it is important for the team leader to be very clear about team goals and provide clear direction regarding the project. The team leader should ensure that all of the members are involved in determining team roles and responsibilities and should work with the team to help them establish how they will work together. The team is dependent on the team leader to guide them.

Stage 2: Storming: This stage introduces conflict and competition into the formerly safe and pleasant environment. In this stage, the team members compete with each other for status and for acceptance of their ideas. They have different opinions on what should be done and how it should be done - which causes conflict within the team. As they go progress through this stage, with the guidance of the team leader, they learn how to solve problems together, function both independently and together as a team, and settle into roles and responsibilities on the team. For team members who do not like conflict, this is a difficult stage to go through.

The team leader needs to be adept at facilitating the team through this stage - ensuring the team members learn to listen to each other and respect their differences and ideas. This stage will come to a closure when the team becomes more accepting of each other and learns how to work together for the good of the project. At this point, the team leader should start transitioning some decision making to the team to allow them more independence, but still stay involved to resolve any conflicts as quickly as possible. Some teams, however, do not move beyond this stage and the entire project is spent in conflict and low morale and motivation, making it difficult to get the project completed. Usually teams comprised of members who are professionally immature will have a difficult time getting past this stage.

Stage 3: Norming: This stage is typically a welcome breath of fresh air after the storming stage. Team members are no longer focused on their individual goals, but rather are focused on developing a way of working together (processes and procedures). In this stage, the team has agreed on their team rules for working together, how they will share information and resolve team conflict, and what tools and processes they will use to get the job done. The team members begin to trust each other and actively seek each other out for assistance and input. Rather than compete against each other, they are now helping each other to work toward a common goal. The team members also start to make significant progress on the project as they begin working together more effectively.

In this stage, the team leader should demonstrate support. The team has greater self-direction and is able to resolve issues and conflict as a group. On occasion, however, the team leader may step in to move things along if the team gets stuck. The team leader should always ensure that the team members are working collaboratively and may begin to function as a coach to the members of the team.

Stage 4: Performing: This stage provides a feeling of unity, group identity, interdependence, and independence. The focus is on reaching the goal as a group. Not every team makes it to this level of team growth; some teams stop at Stage 3: Norming. The team is highly motivated to get the job done. They can make decisions and problem solve quickly and effectively. When they disagree, the team members can work through it and come to consensus without interrupting the project's progress. If there needs to be a change in team processes - the team will come to agreement on changing processes on their own without reliance on the team leader.

Leadership in this stage comes in the form of delegation. The team leader will serve as the gateway when decisions need to be reached at a higher level within the organization. Even in this stage, there is a possibility that the team may revert back to another stage. For example, it is possible for the team to revert back to the "storming" stage if one of the members starts working independently. Or, the team could revert back to the "forming" stage if a new member joins the team. If there are significant changes that throw a wrench into the works, it is possible for the team to revert back to an earlier stage until they are able to manage through the change.

Stage 5: Adjourning: In this stage, the project is coming to an end and the team members are moving off into different directions. This stage looks at the team from the perspective of the well-being of the team rather than from the perspective of managing a team through the original four stages of team growth. The team leader should ensure that there is time for the team to celebrate the success of the project and capture best practices for future use. (Or, if it was not a successful project - to evaluate what happened and capture lessons learned for future projects). This also provides the team the opportunity to say good-bye to each other and wish each other luck as they pursue their next endeavor. It is likely that any group that reached Stage 4: Performing will keep in touch with each other as they have become a very close knit group and there will be sadness at separating and moving on to other projects independently.

Sources for this Article: *Project Management Institute's "Project Management Body of Knowledge" (PMBOK), 2000 and 2007 Editions, AECOM's Project Management's internal training material, Business Dictionary at <http://www.businessdictionary.com/definition/project-team.html>, <http://www.usability.gov/how-to-and-tools/methods/project-team.html>, and The Project Management Hut at <http://www.pmhut.com/the-five-stages-of-project-team-development> (Accessed in March 2014).*




Mr. Nandagiri is a licensed Professional Engineer in Four States (including South Carolina) and is also a certified "Project Management Professional" (PMP). He is an active member of the South Carolina Section of ITE (SC-ITE) and is currently serving as a Technical Committee chair for the SC-ITE. Mr. Nandagiri works for AECOM as their Associate Vice President.

Ryan Eckenrode wins the ASCE 2014 “Outstanding Young Engineer in the Private Sector” award.

This award is given by the American Society of Civil Engineers (ASCE) each year to an engineer under the age of 35 based on education, professional registration and development, involvement in ASCE and non ASCE activities, civic & humanitarian activities, and overall engineering achievements in the past 3 years. The ASCE Upstate Branch nominated Ryan for this award who currently works in AECOM’s Greenville, SC office.

Ryan is a traffic engineer graduate from Clemson University, licensed in six states (SC, NC, GA, AL, VA, and LA), and also has a Professional Traffic Operations Engineer (PTOE) certification. Over the past 3 years, Ryan has obtained nearly 100 professional development hours and has given over 20 presentations to multiple professional organizations and universities. Ryan is an active participant in ITE (including SC Section of ITE), ASCE, and ACEC. Ryan is currently the ASCE Young Member Group Chair for the Upstate Branch who organizes events to encouraging younger members to become active in the organization. Outside of AECOM, Ryan participates in his neighborhood association, church, and enjoys being the primary care-taker of his 2 year old little girl as his wife is currently in residency training to become a surgeon. One of Ryan’s most significant engineering achievements was the analysis and design of a roundabout in Camp Lejeune, NC that he was involved with from start to finish. It was a challenging project with traffic control issues and acceptance by the Base.



Ryan also has significant experience in analyzing innovative intersections including DDIs, SPUIs, Quadrant Lefts, Michigan Lefts, Continuous “T” intersections and others. The president-elect of ASCE, Bob Stevens, presented Ryan the award at the Eastern Regional Young Member Council Conference in Indianapolis, Indiana on Feb 8th. Ryan was pleasantly surprised and humbled to win the award after meeting other outstanding candidates from larger populated cities such as Philadelphia, and many others.



Ryan shaking hands with President-Elect Bob Stevens

Congrats Ryan!

LEGISLATIVE UPDATE Gaye Sprague, P.E.



Sprague & Sprague
CONSULTING ENGINEERS

Early in February, Senator Peeler introduced legislation to allocate, annually, \$100 million to the S.C. State Infrastructure Bank for bonding projects such as interstate improvements and bridge replacement. Representative Skelton sponsored a bill (H.4563) that would increase the motor fuel user fee by five cents each year for the next three years and adjust the fee twice a year based on the change in the wholesale price of motor fuel. This bill has a lot of other language about tax credits and use of the proceeds.

Several other representatives have introduced H.4600 that would allow transportation improvement projects to be funded with sales tax revenue provided that the local government approves the percentage of sales tax revenue to be dedicated, specifies use for excess funds, and creates a system for developing and executing a transportation improvement plan.

And, Senator Peeler also introduced S.912 which would allow local governments to spend hospitality tax revenue on roads and bridges “that provide access to destinations contributing to tourist activities”.

Texting while driving is still on the radar but weakly. Meantime, municipalities across the state are adopting ordinances addressing cell phone use while driving. The City of Greenville recently passed an ordinance allowing only hands free use of cell phones.

As always, if you have questions or want to discuss, give me a call at 864/242-3106. Gaye Sprague



CANDIDATE FOR ITE INTERNATIONAL VICE PRESIDENT

Paula F. Benway, FITE

Associate, Transportation, Stantec Consulting, Inc., Rochester, NY USA

paulaforitevp@gmail.com

Follow me on Twitter @paula_benway, Facebook, or LinkedIn



My Vision for ITE

We are living in an era of transformation! Led by forces like technological advancement; funding policies and sustainability; economic, societal, and environmental trend. This provides us with an immense opportunity to transform alongside our industry. Our organization must be at the forefront of a positive movement, using the power of our networks to collaborate with others in creating new solutions to the challenges before us.

Visibility

We must promote and enhance ITE's role as a respected transportation authority while being an advocate for our members' needs, goals, and capabilities. Transportation professionals need an institute that helps them address the issues facing our communities. Collaborating with other organizations to address community needs and working with policymakers at all levels of government elevates our position as leaders in the industry.

Accessibility

To make ITE the premier organization, we need to be more accessible to our members. We can do this by providing platforms that expand our use of the digital technology of today and tomorrow to educate the next generation. We need to provide useful tools that allow our members to draw on realistic assessments and forecasts of cities, economies, and the environment. In addition to technical expertise, diversified professionals with strong skills in facilitation to engage the public, advocacy to influence policymakers, and collaboration to engage partners are critical to our success. We must bridge the knowledge, wisdom and experience of current and past generations to guide and propel the success of the next generation.

Affordability

We must provide cost-effective professional development opportunities such as webinars and briefings, and improve our annual meetings. Our annual meetings offer an invaluable opportunity by providing technical knowledge, workforce development, global information exchange, and networking. We must explore the use of technology to expand the reach of the meeting and make it more affordable to the majority of members who rarely have the opportunity to attend.



CANDIDATE FOR ITE INTERNATIONAL VICE PRESIDENT

Raymond E. Davis, III, P.E., PTOE, FITE

Vice President, TrafficDuco Inc., San Francisco, CA USA

www.ite.org/Ray4ITE | Ray4ITE@gmail.com

Follow me on Twitter @ray4ite, Facebook, or LinkedIn

MAKING ITE WORK FOR YOU

I celebrate 40 years of active involvement in ITE in 2014. The return on my investment has exceeded my expectations every step of the way, for the public and for me, professionally and personally. I'm a better professional because of ITE and being a better professional made my career advancements possible. Now, I want to make sure you have the same opportunities to grow that I did, tailored to meet your needs.

We all have competing activities that make it a challenge to be active in ITE. We need to increase opportunities to participate and access information and remove barriers to involvement. We need to make sure that ITE publications, conferences, and training are relevant to dealing with today's issues in a cost effective manner.

My vision for **Making ITE Work for you:**

- Leverage Technology and Social Media to better serve our members.

- Continued support of *LeadershipITE*.

- Expand our electronic library to enable instant access to all of our publications.

- Define our global role to identify how we can support transportation professionals worldwide, especially in Asia.

Implementing this vision will allow you to become a better professional, and that will enhance our profession as a whole.

I have been very fortunate to serve at all levels of ITE leadership (21 years at elected or appointed positions). I was co-founder and President of a Student Chapter, Section President of two sections, Western District President and a Director on the International Board. I have served on the Executive Committees of three ITE Councils and chaired the Public Sector Council as well as serving on numerous technical committees. This combined with my experience in the public sector as a City Traffic Engineer and Public Works Director and in the private sector in senior management positions has enabled me to listen and recognize the needs of our members at all levels of ITE.

My passion, experience, vision, and time available to commit to ITE will make sure that with your support I will Make ITE Work for You.



NEWS FROM THE CITADEL STUDENT ITE CHAPTER

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

New Transportation Engineering Faculty, The Citadel is very pleased to introduce a new transportation engineering faculty member, Dr. Dimitra Michalaka. She is originally from Greece and arrived in Charleston by way of the Civil and Coastal Engineering Department at University of Florida, where she served as an Adjunct Professor and worked as Post Doctoral Researcher. While at UF Dimitra taught graduate and undergraduate courses, conducted research on traffic operations, and presented COR-SIM simulation of managed freeway lane seminars. She received her undergraduate degree in civil engineering from the National Technical University of Athens in 2006, obtained a Master's of Science in 2009 and earned a Ph.D. in 2012, both from UF. Her research interests are focused on traffic operations, congestion pricing, and traffic simulation. Dimitra is involved with a number of professional organizations including: International Road Federation (IRF), Transportation Research Board (TRB), Institute of Transportation Engineers (ITE), and Women's Transportation Seminar (WTS), in which she has frequently assumed leadership positions.

2014 ASCE Carolinas Conference, Citadel Transportation Team, This year's ASCE Carolinas Conference is being hosted by The Citadel, March 6-8, and includes the following competitions: Concrete Canoe, Steel Bridge, ASCE Daniel Mead Paper, Balsawood Bridge, Concrete Frisbee, Freshmore Challenge, Quiz Bowl, Surveying, Transportation Design, Geotechnical Design, T-Shirt Design, and Overall Conference Championship.

After last year's traffic signal design event organized by Head Judge Mike Ridgway, hosted by Univ. of South Carolina, the 2014 Transportation Design Competition is a mystery event. Judges will assign a problem and student teams will have a few hours to develop a solution and prepare a brief presentation describing their designs. The Citadel's transportation competition team includes: Evening Students Chris Cook and Luke Hunt, Cadets Logan Hester and Kyle Smiley, and Dr. Dimitra Michalaka serving as faculty adviser.

Students are enthusiastically preparing for the transportation competition. Cadet Kyle Smiley, 2013 SCITE Gilbert Rowe Scholarship recipient, says "I am very interest in transportation engineering and enjoy opportunities like the Carolina's Conference to put the knowledge and teamwork skills I developed at The Citadel up against students from other colleges/universities. Upon graduation this May, I am planning to begin my career in transportation engineering." Evening student Chris Cook says, "I am interested in transportation engineering because of the wide range of design considerations required for successful projects. I look forward to participating in the transportation competition to gain more insight and experience in developing effective solutions for transportation engineering projects."



NEWS FROM THE SOUTH CAROLINA STATE STUDENT ITE CHAPTER

JUDITH MWAKALONGE, PH.D.



We bring you greetings from the SCSU ITE chapter. Fall semester was successful and productive. One member of the SCSU ITE Chapter namely Ms. Candyce Brown graduated in December 2013. The SCSUITE Chapter wishes her the best in his future endeavors. Four MST students had their abstract accepted for presentation at the 55th Annual Transportation Research Forum. Additionally, one MST students will be presenting their research at the Southern District Institute of Transportation Engineers Annual Meeting in Greensboro, GA, March 30 – April 2, 2014.

TRB Trip: Five MST students traveled to attend the 2014 Transportation Research Board Annual meeting in Washington D.C. Two undergraduate students supported by the Dwight David Eisenhower Transportation Fellowship Program also attended this conference and presented their research. Mr. Jamario White, a 2013-2014 TRB Minority Fellow, presented his research at a poster session entitled, “Distracted Walking: What We Know and Data Needs.” Ms. Chandani Malla presented her research titled “The Influence of Horizontal Distance on the Quality of Vehicle Speed Data Collected Using Mobile Devices Applications (Apps)” at a lecture session.



NEWS FROM THE CLEMSON STUDENT ITE CHAPTER WAYNE SARASUA, PH.D., P.E. & JENNIFER OGLE, PH.D.

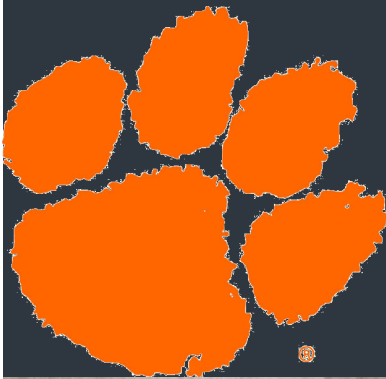
On November 23rd, Clemson ITE sponsored a tailgate and football game ticket package for the Clemson vs. Citadel football game. The Chapter invited Clemson transportation alumni, family, and friends. This event served as a fundraiser for our chapter. The tailgate was organized on the deck of Clemson Fike Recreation pool located right across from Death Valley Football Stadium. The venue provided a beautiful view of game day atmosphere around Howard's Rock. The event included a before and after tailgate.

A total of \$860 was raised through this event, making a net profit of \$466. Several transportation alumni attended and enjoyed this event which also provided a wonderful opportunity for students to network. Extensive participation and hard work of students and faculty members made this event an incredibly successful tailgate for our alumni and we are planning to host one again during the next football season.

In January, 13 of our members and 2 faculty advisors attended the Transportation Research Board 93rd Annual Meeting in Washington D.C. Our students took advantage of the opportunity to hear numerous presentations and network with transportation professionals. Four student members presented their research at the conference in the form of seminars and poster presentations. One of the highlights of our trip was the ITE student reception at the Global ITE headquarters where we heard from International President (and SDITE member) Hibbett Neel. He emphasized the value budding transportation engineers can bring to the organization and the influence in shaping the future of transportation. After the info session, students interacted with various dignitaries and professionals of International ITE.

On February 21st, Clemson ITE students made a field trip to visit the Boeing South Carolina facility located in North Charleston. This trip was jointly organized by Clemson ITE and Society of Hispanic Professional Engineers. The site is a major manufacturing, assembly and delivery site for Boeing commercial aircraft in the eastern United States. Currently it serves as one of two final assembly and delivery points for the Boeing 787 Dreamliner.

The Boeing South Carolina DreamLearners Tour program, which included experts working in different departments, walked us through the process of assembling a 787 Dreamliner. At the end of the tour students got the chance to network with engineers and professionals and explore career opportunities with Boeing.





BRAINTEASER!
Joe Sturm, P.E.

If you arrive late to a Cannibals-only dinner party, what will the host likely do?

Best answer wins!

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



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!

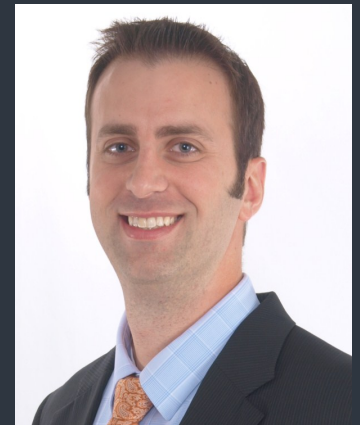
Please send any news, questions, or comments to my attention at rick.reiff@stantec.com

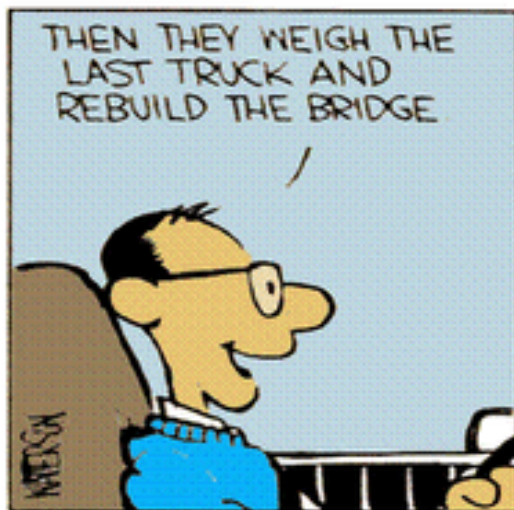
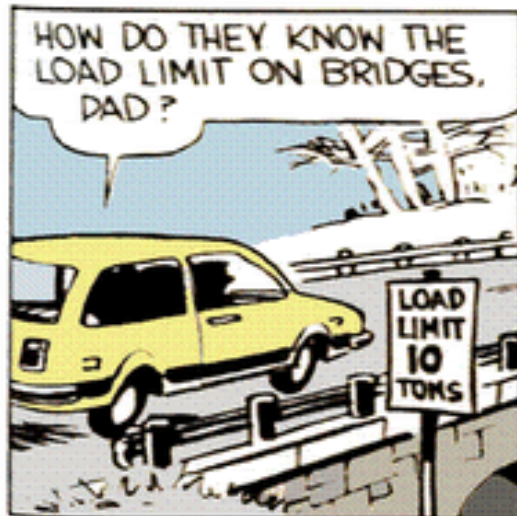
LAST ISSUE'S BRAINTEASER ANSWERS

Wayne Sarasua and Freddy Kicklighter win. They both provided good arguments for how shoulder width could affect the design of a horizontal curve.

QUESTION: WHEN DESIGNING A SAFE HORIZONTAL CURVE, WHICH OF THE FOLLOWING CRITERIA APPLIES?

- a. Curve radius applies! Larger curves can be more easily navigated at higher speeds.
- b. Passenger comfort applies! This is necessary to maintain control of the vehicle.
- c. Sight Distance applies! Duh!
- d. Shoulder width applies! Wide shoulders can slow the super-elevation transition, and, for small radius curves, a wider shoulder may be considered for truck tracking.
- e. Speed-limit posting does not apply! Speed limit postings can be subject to local regulations and do not necessarily reflect the design speed of the roadway. They can, however, be used as a minimum design speed for a reconstructed highway.
- f. Super-elevation applies! Duh!
- g. Traffic Volume does not apply! Although high volumes can affect safety by exposure, traffic volume is not considered when designing a horizontal curve.
- h. Weather conditions apply! Rain and snow events can affect the friction between the tire and the road which can impact the vehicle staying on the roadway.







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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