



DRIVER

Message from our President

In 2006, I moved from Greensboro, North Carolina to my hometown in Lexington, South Carolina. I was a former member of the North Carolina Section of ITE. I joined the South Carolina Section of ITE in the fall of 2006.



Liz Carpenter, PE
AECOM

The South Carolina Section of ITE members were busy planning the Southern District meeting in Charleston and quickly pulled me in to help. It all started with planning the ABD event (the party) for the Southern District meeting, which I ended up missing because my 2nd son Tyler was born. I heard it was a great meeting and really fun party. Next, Carol Jones had the great idea of our 1st Vendor Day so those plans began and led to a now biennial SCSITE event. In 2009, I came on board as Secretary/Treasurer, then Vice-President, and now President. I really could not be more honored to be a part of such a fun group of professionals.

In January, we had our annual board meeting where we set some exciting new goals and installed a great group of board members ready to help us accomplish the following goals:

- New Leadership Program for Members
- New Membership Representative and Motivator
- Attending our Student Chapter meetings around the state
- Updated website with new member directory and PayPal account for paying dues online

I encourage everyone to get involved, learn something new, and have some fun this year! I am so blessed to serve such a great group of people. I would like to thank you for allowing me to be your President this year.

Liz

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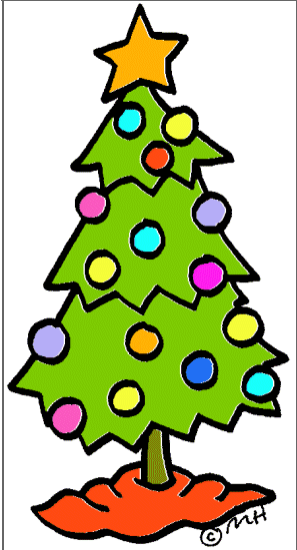
**2011 dues
are now
due.
Please
pay
Joe
Sturm
ASAP.**

SCSITE 2011 CHRISTMAS PARTY RE-CAP

The South Carolina Section of ITE held its annual Christmas party December 1, 2011 in Columbia's Vista District at The Tin Roof. The buffet style appetizers were great and everyone enjoyed the Christmas fellowship. We had a great crowd of approximately 72 folks including several students and spouses. The weather was perfect earlier in the day, and a golf outing was held at The Windermere Club.

Prior to receiving the gavel from outgoing President Jeff Ingham, new President Liz Carpenter also won the second annual dessert contest with her Derby Pie. Many thanks to Jeff for all of his hard work over his tenure. Liz is already working hard to ensure that this will be one of our best year's ever. Let's also welcome Joe Sturm, our newly elected Secretary/Treasurer.

One of the highlights of the Christmas Party every year is the scholarship awards. This year we were very fortunate to award scholarships to three very deserving students. Awards were as follows:



Gilbert S. Rowe Scholarship – Brett McCutchan

Brett is a senior at the University of South Carolina pursuing a bachelor's degree in civil engineering after receiving a BS in 2004 in electromechanical engineering from Murray State University where he played baseball. He had a career in professional baseball and is now focusing on his work with SCDOT and becoming a P.E. He works full time at SCDOT while finishing his degree at USC, and District One Traffic Administrator T. Berry Mattox says, "His work ethic, reliability, and enthusiasm make him a vital asset to the Department and the transportation community at large. Through his persistence in trying to earn his P.E. it is clear that Brett will continue to pursue a career in transportation engineering."

Stafford-Clark Scholarship – Laura Rowe

Laura is a senior at Clemson University where she has earned a 4.0 GPR in civil engineering and the Calhoun Honors College. She is a leader in several campus organizations including Chi Epsilon Honor Society and Alpha Omega Epsilon Sorority and participates in club ultimate frisbee. She is also active in her community through Newspring Church and FCS, and she has conducted undergraduate research in pavement preservation. Dr. Wayne Sarasua says that Laura has set a standard that few students can match.

South Carolina Section ITE Scholarship – Elizabeth O'Sell

Elizabeth is a senior at Clemson University where she has a 3.55 GPA in civil engineering and the Calhoun Honors College. She has participated in Clemson's co-op program and is involved in many campus organizations including the equestrian team. Currently, she is working on a team to produce the first Transportation YOU Youth Summit sponsored by USDOT and WTS to attract high school aged females to the transportation industry. Elizabeth also became an entrepreneur by starting a summer day camp for pre-school through elementary age children several years ago. Dr. Jennifer Ogle believes that "there is nothing Elizabeth can't do if she puts her mind to it."

Many thanks to the scholarship committee (Howard Chapman, Colin Kinton & Gaye Sprague) for their hard work every year. I would also again like to thank everyone for their support of the Scholarship Golf Tournament each and every year. It is nice to see our efforts benefit these deserving students.

Scholarship Golf Tournament and Christmas Party—Planning for 2012

Go ahead and mark your calendars for Thursday, September 6, 2012 for the 2012 Scholarship Tournament at Northwood's in Columbia. We have a very special guest that has tentatively committed to speak to us that day; details will be forthcoming in upcoming newsletters.

The social committee has already begun planning this year's Christmas Party which will be held at the Sheraton on Main Street in downtown Columbia.

I look forward to seeing you all soon.....Mike Ridgeway

Spring Meeting to be Held in the Lowcountry

The 2012 Spring Meeting has been set. We hope that you will be able to join us for a fun and informative day in North Charleston, SC. Come see how the former Navy Base in North Charleston is becoming a sustainable, mixed-use urban hub and a place where you can live, work, and play. It's a great example of land-use planning.

Lunch and learn - Noisette North Charleston

March 20th 11 am- 1pm

Members \$15

Non-Member \$20

Government Employee \$5

Student Free



A brief history of the Navy Yard has been provided in the Transportation Planning Section of this newsletter on page 12.

Joe Sturm Named Secretary/Treasurer for 2012

Joe Sturm is the new Secretary/Treasurer for the South Carolina Section of ITE for 2012. He is an associate engineer in the highway safety improvement office in SCDOT's traffic engineering division, and he has been with the department since 2008. Joe graduated with degrees in civil engineering from Clemson University in 2006 (B.S.) and 2007 (M.S.). His primary professional responsibilities are assisting with the management of the department's safety projects and maintaining the safety project database.

Joe recently married his best friend and the love of his life, the former Danielle Cannon, on December 30, 2011. The wedding ceremony was held in Charleston, SC at St. Luke's Chapel on a surprisingly warm afternoon. The couple plans on honeymooning somewhere warm in May. Until then, they'll settle on the friendly area of Lexington where they call home. Danielle is a registered nurse working in the nesting place at Palmetto Health Baptist Hospital. She enjoys working with babies, but she and Joe plan on taking some time before having any of their own. Joe and Danielle attend the Airport Church of Christ and enjoy spending as much time as possible on vacation. When that's not possible, they enjoy playing competitive sports, trying interesting food, quoting horrible movies, sharing their opinions, and watching college football in their spare time.



Joe Sturm



Treasurer's Report



Joe Sturm



As of 2/14/12, the section's checking account weighs in at **\$17,345.45**.

The 2011 SCSITE Scholarships have not been drawn from this account, and we are depositing a significant portion of this total to our scholarship funds at ITE HQ for the year 2011.

The scholarship balances, as of 2/10/12, are as follows:

Rowe **\$23,803.45**
 Stafford Clark **\$26,685.77**

If you have not paid dues for 2011 or would like to pay dues for 2012, please mail your payment to Joe at the following address:

Joe Sturm
SCDOT Traffic Engineering
 955 Park Street, Room 526
 Columbia, SC 29202

Legislative Update *Gaye Sprague*

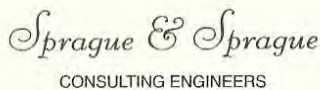
The South Carolina Legislative session began in January. Because this is the second year of the two-year session, any proposed legislation that does not pass this year is null and void and has to start over in the long process to become law. List below are the transportation-related bills that I have found along with the bill number (H = House; S = Senate) and the committee two which they have been referred. The transportation-related bills propose that:

- Two-wheel motorized vehicle drivers must wear helmets – S.1046 – Transportation
- Drivers cannot use cell phones while driving through school zones – S. 1047 – Transportation
- The laws regarding golf carts also apply to all-terrain vehicles – H.4441 – Education and Public Works
- Drivers cannot use electronic communication devices under certain circumstances – H.4451 – Education and Public Works
- Municipalities may restrict electronic communication by drivers to hands-free devices – S.1091 – Transportation
- The DOT Commission and the Infrastructure Board are eliminated and the DOT is run by the Secretary of Transportation – S.1022 – Transportation and H.4625 - Judiciary
- Drivers with beginner's licenses and restricted licenses cannot use a cell phone or text. – S.1071 – Transportation
- DOT must make maintenance of the existing system first priority – S.1090 – Transportation
- The gas tax will be reduced by 10 percent – H.4507 – Ways and Means

If you think it would be helpful for our organization to send information to the legislature regarding any of these subjects, let me know, and I will pass it on to the SCSITE Board. (We can't lobby, but we can educate.) As always, please call your legislator if you have any input on these potential laws. They really do want your input! Gaye Sprague – gaye-sprague@cs.com



Gaye Sprague, PE



SCSITE Board Appoints Eckenrode as Membership Committee Chair

We are pleased to announce that Ryan Eckenrode will serve as the SCSITE Membership Committee Chair and New Member Representative. Ryan and others will be reaching out to local government agencies and inviting them to our local meetings. Ryan is excited about his new position and hopes to grow the chapter this year. If anyone has any questions or knows someone who would like to join SCSITE, please have them contact Ryan at 864-234-8931 or ryan.eckenrode@aecom.com.



R. Eckenrode, PE, PTOE

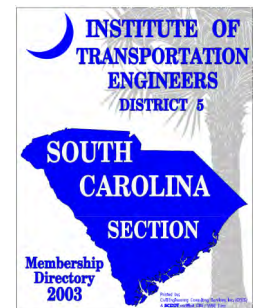


SCSITE DIRECTORY—UPDATE

The directory is complete and will be posted on the new website when it is up and running.

If your information has changed recently please email Jennifer and she'll update it.

jennifer.bihl@kimley-horn.com



SCSITE SHIRTS FOR SALE

Please contact Joe Sturm if you are interested in ordering an ITE Logo Shirt



SDITE Annual Meeting - Lexington, KY – April 15-18

Registration is now open for the [SDITE / GLDITE 2012 Joint Annual Meeting](#) in Lexington. All of the meeting information is located on the meeting website, however here are a few items to keep in mind as you plan your trip:

Registration: Early Bird Registration Ends on March 1, 2012

Hotel and Technical program information is available on the meeting website

Spouse Program: The agenda for the spouse program has been set. Bring your spouse or significant other along so he/she can get a sample of the offerings of Central Kentucky.

Keeneland Race Track (before the meeting): Join us Saturday, April 14th to kick off the festivities in Lexington at Keeneland Race Track for the Bluegrass Stakes. One of the premier live Thoroughbred racing venues in the country, Keeneland is a must-see. The KY Section will host an informal tailgate starting at 10:30 AM at the track. The first post time is 1:15 PM.



Lori Mahany, PE, PTOE



Stantec

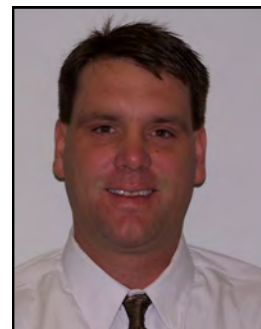


Bryan Webb Nominated for Southern District Secretary-Treasurer

Bryan Webb, PE, PTOE has been nominated for Southern District Secretary-Treasurer. As most of you know, Bryan has been a very active member of the South Carolina Section, most recently serving as Section President. Instructions for voting will be sent to all Southern District voting members via email in March. Please support Bryan as he represents our Section.

Below is a full listing of candidates for Southern District office:

President:	Martin Bretherton, P.E.
Vice-President:	Kirsten Tynch, P.E.
Secretary-Treasurer:	Bill Seymour, P.E. Bryan Webb, P.E., PTOE



DAVIS & FLOYD

Brian Webb, PE, PTOE



Join your peers August 12–15 in Atlanta, GA for the ITE 2012 Annual Meeting and Exhibit. The conference is designed to share knowledge, expertise and ideas on multifaceted approaches to addressing transportation issues and to exploring emerging trends in the industry. The meeting content will include sessions in a mix of presentation and training formats focused on state-of-the practice, advancement of the profession and emerging issues designed to benefit transportation professionals in the public and private sector and students.

Atlanta began as a transportation mecca. It still is, but with a 21st-century global approach. **Hartsfield-Jackson Atlanta International Airport** is the busiest airport in the world. Atlanta is America's most accessible city with direct, non-stop service to more than 155 US destinations – 80 percent of those within a two-hour flight. It's also the second busiest for international flights. And with the MARTA trains, visitors can roll into town without a car. Visit such hot spots as Centennial Olympic Park, the World of Coca-Cola and the fabulous Fox Theatre while soaking in Atlanta's number one attraction—its southern hospitality.

2013 Candidates for International Office

Below are the 2013 Candidates for International Office. Both candidates are running unopposed, with Hibbett Neel representing the Southern District.

For International Vice President
W. Hibbett Neel, Jr. , P.E., FITE
President
Neel-Schaffer, Inc.
Jackson, Mississippi

For International President
Zaki Mustafa, P.E., FITE
Bureau Chief
City of Los Angeles
Department of Transportation
Los Angeles, California



Sunny Nandagiri, PE, PMP



Nandagiri Promoted to Associate Vice President

AECOM is pleased to announce the promotion of Mr. Sreekanth (Sunny) Nandagiri, P.E., PMP to the Associate Vice President’s position in the firm’s Transportation Group. In his new position, he will manage and coordinate Southern States Traffic Engineering and ITS group/projects. Mr. Nandagiri will continue to lead traffic, ITS, tolling and pavement management programs and help grow AECOM’s transportation engineering business.

Mr. Nandagiri is southeast regional traffic engineering and ITS expert for AECOM and has 17 years of experience in traffic, transportation engineering and ITS fields. Mr. Nandagiri is associated with AECOM since 2002. Before joining AECOM, Mr. Nandagiri worked for the City of High Point, NC for eight years, initially as Signal Systems Engineer and later as Operations Manager.

Mr. Nandagiri received his Bachelors of Science degree in Civil Engineering from the Nagarjuna University, India; Masters of Civil Engineering from Clemson University, SC; and a Masters in Business Administration from the University of North Carolina at Greensboro, NC. He is a licensed Professional Engineer in Eight states including South Carolina and is also a certified Project Management Professional (PMP). Mr. Nandagiri lives in Raleigh with his wife Pavani and their eight year old son Vibhav and enjoys spending time with his family and friends, playing Tennis, watching Clemson sports, NFL, NBA, Tennis, Cricket and traveling.

Mr. Nandagiri’s promotion reaffirms AECOM’s commitment of encouraging talent and leadership within AECOM and providing the best quality transportation engineering services to our clients.

With 45,000 people in more than 100 countries, **AECOM, a fortune 500 company**, is a leader in all of the key markets that it serves. Our highly capable team provides a blend of global reach, local knowledge, innovation and technical excellence in delivering solutions that enhance and sustain the world’s built, natural and social environments. **AECOM is ranked as the #1 Transportation firm by Engineering News-Record (ENR) magazine for ten consecutive years.**



Meet Lokesh Patel—New Member of SCSITE

My name is Lokesh Patel. I was born and grew up in North Carolina. I graduated from North Carolina State in 2007 in civil engineering. I worked for a year at LandDesign, a private land development company, and then moved to Columbia, SC. I've been working for SCDOT since 2009 in road design. My professional interests include program management and ITS. Currently, I am evaluating AutoCAD for use at DOT as well as cross training for program management. My personal interests include sports, technology, and hanging out, however, most of my time now is going "talking" to our newborn baby to figure out what she wants.



Lokesh Patel



Meet Joey Riddle—New Member of SCSITE

Joey Riddle is the Safety Program Engineer for SCDOT's Traffic Safety Office. Joey graduated with a Bachelor of Science in Civil Engineering from Clemson University in 1993 and is a registered Professional Engineer in the state of SC. Joey has been with the Department since 1994 and has worked in several offices from Saluda Construction to multiple offices in Traffic Engineering including Intersection Improvement, Operations and Special Projects and Traffic Safety. Joey's primary responsibility includes managing the Highway Safety Improvement Program and analyzing the statewide safety database.

Joey is married to Kimberly Riddle and they have a five year old son, Ryan. The Riddles attend East Lake Community Church and enjoy spending time with family and friends. Hobbies include hunting, fishing, watching college football, street luge, and golf – although this last hobby is not one he's necessarily good at or enjoys all the time.



Joey Riddle, P.E.

Carrie Mussman Joins AECOM

AECOM is pleased to announce that Carrie Mussman, PE joined AECOM as an ITS Engineer in November 2011. She is currently working in Raleigh, NC as part of the Southern States Traffic Engineering Group. She has been a member of SCSITE for the last few years and was previously Clerk for the GAITE Board. She was an active member of ITSGA while working at ARCADIS in Atlanta, GA. Carrie is a graduate of Auburn University and has over six years of experience. She has been fortunate to work on a wide variety of engineering projects including land development design, construction management, signal design, ITS design, signal timing and traffic studies. Carrie is married to Paul Mussman who works as an architect. They enjoy spending time with friends and family, traveling, and college football.



Andrew Covington Joins AECOM

AECOM is pleased to announce that Andrew Covington, EI joined the Raleigh, NC office as a Traffic Engineer I in January 2012. Andrew is a graduate from Clemson University with a Bachelors and Masters of Science in Civil Engineering. While attending Clemson, Andrew was active in the student chapter of ITE and was awarded the Stafford-Clark Scholarship from SCSITE. He enjoys spending time with his family and friends, watching Clemson sports, and traveling.

Effective Meetings *Sreekanth Nandagiri, P.E., PMP*



Sunny Nandagiri, PE, PMP



Ever attended a meeting with no agenda? Ever wonder what was the purpose of the meeting you were attending? Did the meeting chair repeat the information for the latecomers? Did you ever wonder what was accomplished in that meeting when the chair was already planning for a next meeting? Did your meetings go beyond the scheduled time? Did people start leaving the meeting while the meeting was in progress (as the meetings went over the scheduled time)? Most of us have attended meetings when one of the above is probably true.

According to Southern District ITE (SDITE), Transportation professionals spend a large portion of their time in meetings; however, all too few of us holding a leadership position have been formally trained to conduct an effective meeting. Meetings are the event by which an organization's achievement and effectiveness is determined and are also the event for which most employees gain ownership and direction of the organization as result of seeing their ideas considered, participating in decisions which impact them; thereby becoming motivated and committed to action. Let us understand a thing or two about meetings.

According to the SDITE, Three Primary Reasons for a Meeting:

Present information / get feedback.

Make decisions / take action.

Build relationships.

The following article is intended for Project and Operations Meetings for any organization.

HOW TO CONDUCT A MEANINGFUL MEETING:

Once a leader/project manager decides that a meeting is needed, the following actions are recommended in planning, conducting, and monitoring decisions made and / or action taken at the meeting:

BEFORE the MEETING

Action #1: Develop an agenda (send a preliminary agenda and refine it later, if needed)

Action #2: Develop an invitation list (If using Microsoft Calendar-develop required and optional attendee List)

Action #3: Invite the participants-distribute the agenda (at least a day before the meeting)

Action #4: Establish meeting logistics (place, meeting room, lunch-if applicable, conference phone number and others)

Project Management



DURING the MEETING

All organizations should adopt guidelines (or ground rules) which minimize the impact of conflict during meetings. The following are some general ground rules which might be used as a resource:

- Review previous meetings minutes/action items (If applicable)
- Start and end on time (do not wait for latecomers).
- Everyone participates, no one dominates.
- Everyone treated with respect, don't interrupt.
- No side bar conversations, no "chasing rabbits." (use "parking lot" for issues not pertinent to that meeting).
- Agreement on how decisions are to be made. (leader/voting/consensus)
- Strive for closure on agenda items.
- No cell phones/Blackberrys.
- Chair should ensure that meeting minutes are taken (for important meetings, tape the minutes)

- Action #1:** Start and end meeting on time
- Action #2:** Remind participants of purpose
- Action #3:** Review meeting ground rules and any "housekeeping" items.
- Action #4:** Work through agenda items
- Action #5:** Determine next steps needed
- Action #6:** Briefly summarize the discussions at the end
- Action #7:** Conduct a brief meeting evaluation (if possible)



AFTER the MEETING

- Action #1:** Get notes / minutes out ASAP (within 2 working days, if possible; If needed, send out rough notes in a day and the detailed meeting minutes in a week).
- Action #2:** Monitor and communicate progress.

Author of this article is a licensed Professional Engineer in Eight 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.

Sources for this Article: Southern District ITE's Leadership Program-2011, Project Management Institute's "Project Management Body of Knowledge" (PMBOK), 2000 and 2007 Editions, and the AECOM's Project Management's internal training material.



A Brief History of the Navy Yard at Noisette

The Navy Yard at Noisette encompasses a 398-acre area consisting of the northern tip of the former 1450-acre Charleston Naval Base Complex. The former base, which began taking shape in 1901, stretches along the banks of the Cooper River, in North Charleston, SC. The naval base was home to one of the most prolific shipbuilding facilities in the Navy’s portfolio, producing over 200 landing craft during World War II. Eventually the facility became a home port for the Trident class of submarines during the Cold War. Despite this fact, employment at the base—and its overall importance to the Navy—dwindled through the 80’s. The closing of the base was announced in the Base Realignment and Closure Act of 1993. The facility officially closed on April 1, 1996.

Since that time, redevelopment efforts have taken place to reposition the facility for new forms of economic development. The main development efforts include the Navy Yard at Noisette development, a private ship repair facility, the Federal Enclave, Clemson University Restoration Institute and a new container terminal facility for the State Ports Authority. In all, daytime employment is close to 8,500 people for the former base footprint.

The Noisette Company became involved with the The Navy Yard at Noisette in 2001 through a unique public-private partnership with the City of North Charleston. Property acquisition occurred through 6 transfers of land between 2003 and 2006. The Navy Yard is comprised mainly of non-industrial naval facilities including the officers’ housing district, historic hospital district and administrative areas. The property contains a variety of building types, many of which are historic and appropriate for adaptive reuse. A public Riverfront Park was constructed on the banks of the Cooper River in 2005. Today, 2,500 daytime employees and over 100 residents call the Navy Yard at Noisette home.



Information from Jeff Baxter, Director of Development for The Noisette Company, LLC

MAXIMIZING TRAFFIC CAPACITY ALONG US 17 CORRIDOR

In an effort to optimize the traffic signal timings and maximize the traffic capacity along a heavily traveled and congested corridor in the Town of Mount Pleasant, the Town has incorporated the use of InSync, an Adaptive Traffic Control System (ATCS), through a portion of the US 17 corridor. The installation of an ATCS was the first of its kind in the State of South Carolina and this project was chosen to be a Pilot Study for SCDOT. The Pilot Study was used to determine the effectiveness of the InSync brand Adaptive Traffic Control System, comparing the before and after traffic speeds and delays through the corridor, and to provide justification for the implementation of this system in other areas of the Town and State.

The Town retained HDR Engineering, Inc. of the Carolinas (HDR) to provide the expertise, planning, and design services to prepare the construction plans and specifications for the implementation of the InSync System. In addition, HDR performed the Pilot Study to document the results of the installation.

“The results indicate time and fuel savings and emissions reductions that yield tremendous savings for our citizens and the environment..” said Town of Mount Pleasant Director of Transportation, Brad Morrison.

The pilot project involved seven intersections along the US 17 Corridor and on Hungryneck Boulevard, which were the following intersections:

- ◆ **US 17 @ Ira Road**
- ◆ **US 17 @ I-526/Hungryneck Boulevard**
- ◆ **US 17 @ Mathis Ferry Road/Venning Road**
- ◆ **US 17 @ James Nelson Road/Market Centre Boulevard**
- ◆ **US 17 @ Montclair Drive/Belk Drive**
- ◆ **US 17 @ Greystone Boulevard/SC-517 (Isle of Palms Connector)**
- ◆ **Hungryneck Boulevard @ Venning Road**



The InSync System is comprised of digital cameras to monitor traffic queues, connected to an InSync Processor placed inside the existing traffic equipment cabinet at each intersection and connects to the existing signal controller. Once Ethernet communication is installed between intersections, InSync can be configured, monitored, and managed through a user friendly web page using a standard web browser. This provides a relatively easy plug-and-play upgrade for traffic signal owners. As an added benefit, the Town is able to monitor the video feeds through this webpage in real time and monitor traffic conditions.

Through the preparation of the Pilot Study, HDR was able to validate the positive results obtained through the conversion of existing set timed/phased signalized intersections to adaptive traffic control systems. The successful completion and results of this Project encourages the widespread use of this technology by the Town and SCDOT. The InSync System was proven to reduce the travel time through the corridor, as well as increase the average speed through the corridor. These systems have been endorsed by the FHWA, and now the Town of Mount Pleasant and SCDOT have also embraced this new technology and significant more installations are being planned.



Left to right: Mark Nesbit (SCDOT), Luigi Casinelli (HDR), Rick Fauteux (HDR), Brad Morrison (Town of Mt. Pleasant), Tim McKeon (Rhythm Engineering - InSync)

Project was awarded the 2012 ACEC-SC Engineering Excellence Award for Transportation (Less than \$500,000 Project) and was also awarded the 2012 ACEC-SC Palmetto Award for the top project.

SCSU ITE Student Chapter News *Judith Mwakalonge*

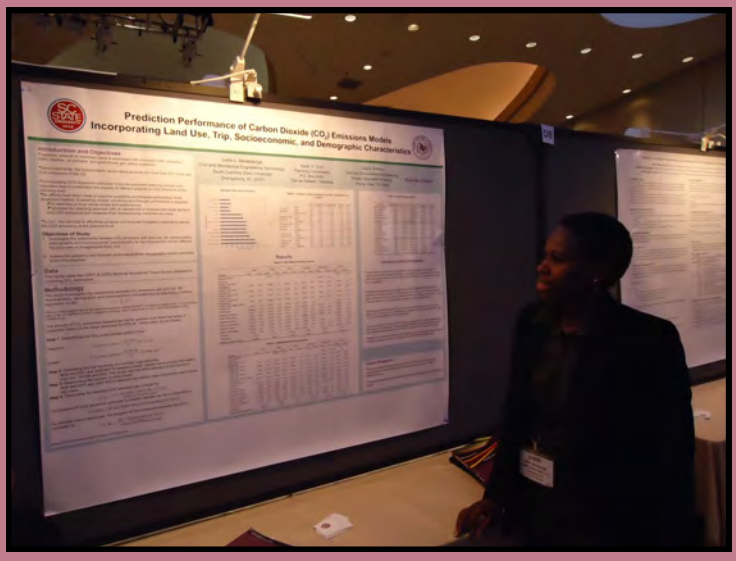


Judith Mwakalonge, PhD
SCSU ITE Student Chapter Advisor

Three of the SCSU ITE Chapter members graduated namely Mr. Feludu, Mr. Ifepe, and Mr. Ngemegwai the past chapter president. The SCSU ITE Chapter will miss them and wish them the best in their future endeavors. Three MST students had their abstract accepted for presentation at the 53rd Annual Transportation Research Forum. Additionally Ms. Tebyanian, an MST student at SCSU will be presenting her paper at Southern District/Great Lakes District Institute of Transportation Engineers (SDITE/GLDITE) Joint Annual Meeting in Lexington, KY, April 15-18, 2012.



TRB Trip: Eight MST students traveled with Dr. Mwakalonge to attend the 2012 Transportation Research Board annual meeting in Washington D.C. Five undergraduate students supported by the Dwight David Eisenhower Transportation Fellowship Program also attend this conference and presented their research. Curtis Bradley an MST student was featured as Minority Student Fellow and presented his paper entitled “A Revisit of the Feasibility of the High-Speed Rail in the Southeast Corridor” during the conference.



Dr. Mwakalonge Presenting in the Poster Session at the TRB Annual Meeting in Washington, DC



News from the Citadel ITE Student Chapter *W. Jeff Davis*

Battery 2 Beach - Students completed their Battery 2 Beach Service Learning project. This Battery 2 Beach is 33-mile bicycle and pedestrian facility that will improve non-motorized transportation in the Charleston area. Citadel ASCE Student Chapter partnered with Charleston Moves, College of Charleston, and other organizations to conduct a benefit-cost study of the B2B route that will link Charleston's Battery with Sullivan's Island, Isle of Palms and Folly Beach. Twenty-five students collected data along the proposed route, analyzed traffic operations, developed proposed improvements and developed preliminary cost estimates. Completion of the benefit cost study required over 1,500 hours of service from ASCE student members and involved professional presentations and publicity of project findings through a variety of public forums.

Professional Presentations and Public Relations

Feb. 28, 2011, Coastal Conservation League, preliminary findings of US 17 Ashley River Bridge Traffic Analysis for Creation of Bike/Ped Lane, two students presented analysis methods and findings to Executive Director Dana Beach and non-profit organization staff.

April 27, 2011, Charleston Moves Board of Directors, overview of B2B route and status of evaluation, four students presented findings to board members and responded to comments, questions and feedback.

Aug. 31, 2011, City of Charleston Mayor's Committee on Bicycles and Pedestrians, seven student leaders presented preliminary B2B findings to committee members and general public and responded to questions from the audience.

Sept. 7, 2011, Bike Friendly Charleston Event: Keynote Speaker and Reception, students participated in a professional event highlighted by a presentation by national bicycling expert Mia Burke and including Mayor Joseph P. Riley.

Sept. 8, 2011, Bike Friendly Charleston Event: Workshop Forum, students presented Battery 2 Beach Cost Benefit Study findings and led group discussions to provide further direction for project development and implementation. The event was attended by 50 politicians, community leaders, engineers, planners and local press.

Sept. 8, 2011, Bike Friendly Charleston Event: Workshop Forum, students participated in a community event celebrating diversity of bicycling in Charleston and including a bicycle fashion show in which two Citadel cadets participated.

Sept. 22, 2011, Clips of Faith: Charleston Moves Non Profit Organization Fund Raiser and Community Awareness Event, students staffed a display booth explaining Battery 2 Beach project to the public at a community event and bike festival.

Provided technical data and interviews for article by Robert Behre "Bike Path Would Cost \$20M," Post and Courier Newspaper, Charleston, SC, Sept. 10, 2011.

Provided technical data and facility graphics for article by Sandy Lang "A Bike-Friendly City?" *Charleston Magazine*, Oct. 2011.

Engineering Career Fair—2012 Professional Activities Event

Citadel civil engineering students organized a career fair in conjunction with electrical engineering. A number of engineering consulting firms who conduct work in the transportation field were on hand to speak with students including the following companies:

- ◆ Stantec Inc.
- ◆ Terracon Consulting Engineers & Scientists
- ◆ Davis & Floyd Inc.
- ◆ Fluor Corporation
- ◆ S&ME Inc.
- ◆ Dewberry Architects-Engineers-Consultants
- ◆ Volkmar Consulting Services LLC
- ◆ The Shaw Group Inc.
- ◆ Cranston Engineering Group PC



**William J. Davis, PE,
PhD
Citadel ITE Student**



Dist. 5 ITE International Director, Rick Day of Stantec talks to students during 2012 PAE.

News from the Student Chapter *Daniel Baker*



Nathan Huynh, PhD
Student Chapter Advisor



The University of South Carolina student chapter of ITE is looking forward to the leadership of its new officers. The officers are Spencer Senerman (President), Stetson Rowles (Vice-President), and Kenny Martin (Secretary). All three students are juniors within the College of Civil and Environmental Engineering at USC. The student chapter is looking forward to its first meeting of the year, which will be sponsored by CDM Smith. Bill Huffstetler, Vice President and Sr. Project Manager of CDM Smith, will be presenting on the design aspects of a major Gulf Coast bridge, Louisiana's LA I Bridge, now named the "Gateway to the Gulf".



ITE at USC is planning on having another meeting this semester in mid-April in which further transportation topics will be discussed. As officers, we are excited about the future of ITE at the University of South Carolina, and we are working to expand our chapter's presence here at USC. Therefore, we welcome all ITE professionals in the Columbia area to join us at our next meeting on April 17, 2012.



From Left to Right: Kenny Martin, Spencer Senerman, Stetson Rowles



Update from Tiger Town *Jennifer Johnson*

The Clemson Chapter of the Institute of Transportation Engineers continues to be an active and influential student chapter both on campus and in the community. For the spring semester, the Clemson Chapter is looking forward to beginning one of its largest safety campaigns to date. The group is also excited to have the opportunity of fellowshipping with SDITE members at the upcoming Annual Meeting in Lexington, Kentucky, later this April! And as always, the Traffic Bowl Team is hard at work in hopes of winning the annual William H. Temple Scholarship Challenge.

Professional Development

Clemson ITE has hosted several seminars and workshops for its members this year. Some recent meetings include a SDITE informational webinar given by Mr. John Funny as well as a workshop given by Clemson's Office of Teaching Effectiveness & Innovation to teach students methods of becoming more successful researchers, publishers, and teaching assistants.



SCSITE Christmas Party

Technical Projects & Conferences

Once again, the Chapter started the spring semester by attending the 91st Transportation Research Board Annual Meeting in Washington, DC. This year, several ITE members had the opportunity of presenting in both technical and poster sessions, and all members were able to attend the ITE Student Reception at ITE National Headquarters. Several members are looking forward in helping at the 2012 IEEE International Electric Vehicle Conference this March at Clemson's International Center for Automotive Research campus. In addition, Clemson ITE has participated in several recent transportation studies for the Clemson community, including a traffic count study at a local high school and a parking lot refurbishment project for a local church.

Service Projects

This spring, the Chapter is beginning a safety campaign that encourages no texting while driving. The Chapter has ordered over 11,000 bracelets promoting "Stay Alive – Don't Text & Drive" and has also created a website (www.clemsonITE.org) where people can sign the Text Free Pledge. With ASCE's annual Carolina's Conference being hosted at Clemson University late this March, the Chapter is looking forward to being volunteer judges for the numerous competitions such as steel bridge and concrete canoe. In addition, the Chapter will help at the annual International Festival at Clemson Elementary School, where several international ITE student members will have booths highlighting their native countries.



Wayne Sarasua, PhD, PE
Student Chapter Advisor



Jennifer Ogle, PhD
Student Chapter Advisor



ITE National Headquarter Student Reception

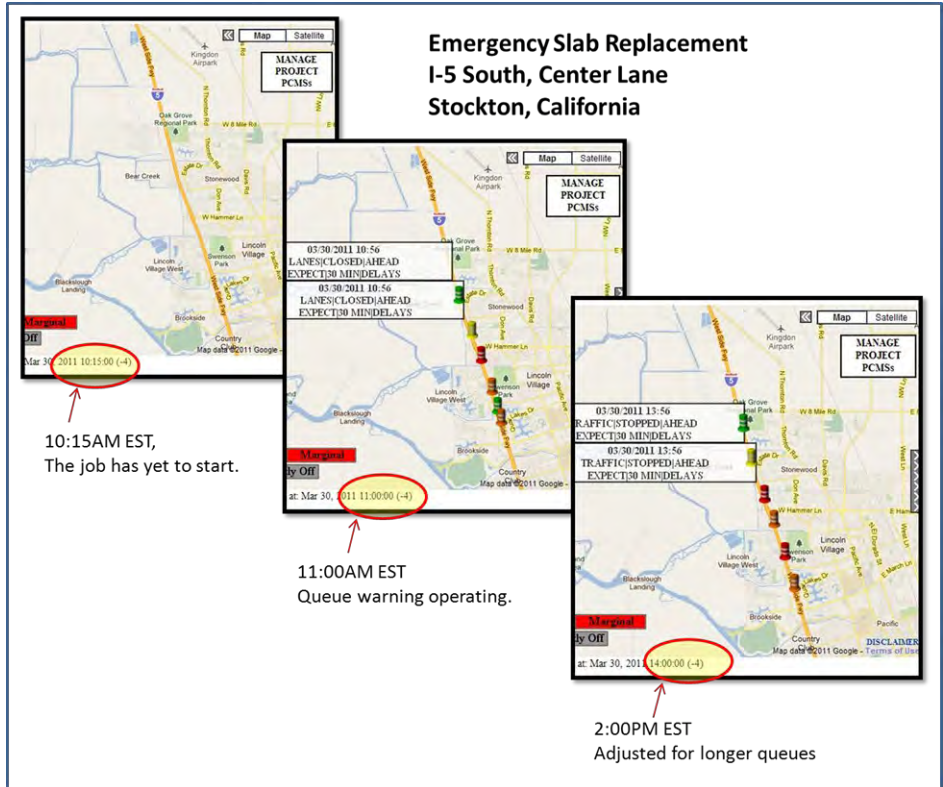
Moving Smart Work-Zones to the Every-Day

The traffic engineering community appears to be reaching the conclusion that traffic monitoring and real-time traveler information in our work-zones results in safer and more efficient highway construction projects. Smart work-zone systems that warn travelers of delays and stoppages ahead prevent rear-end collisions and tend to calm motorists and reduce out-breaks of roadrage. These are results that we can all embrace, but to-date there has always been a catch, these Smart Work-Zones have always been expensive and complicated taking weeks or months to implement.

Well, there has been a change. A few years back New York State joined a number of others in moving to requiring extensive speed monitoring and speed enforcement in work-zones to protect both workers and motorists. The legislative action lead NYSDOT to commission the development of the iCone®, a very flexible, portable, and economical solution to networked data collection in work-zones. The iCone® looks like an everyday traffic drum and as such meets both MUTCD and NCHRP requirements, but the drum houses an autonomous radar station gathering data and transferring it back to a server center for real-time monitoring. The intention is to push the limits of simplicity. Drop the iCone® drum on the side of the road, point it generally toward the road, and flip a switch. The iCone® takes care of the rest. There is no training, no technician, and the parties using the data don't need to dial up a modem or travel to the device to download data.

Whether iCones® are spec'd into a job or maintenance workers are just instructed to set one or two out when they get to the job site, engineers, TMC operators, and law enforcement professionals will all have the traffic data for that project pop up on their account on the iConeTraffic.com website. Add a few message boards and the matching message logic to the spec and a smart work-zone emerges. When the complexity and cost of collecting data is removed there are a host of possibilities for traffic engineers. One exciting application is 'on-demand' service for queue warning systems which is now being offered by iCone dealers. A recent example is an emergency slab replacement job performed in Stockton California.

The center lane (of a 3 lane section) of I-5 southbound needed a section repaired in the very near term. The realities on the ground dictated that two of three lanes of the highway be closed for twelve hours in the middle of the day. Concerned about the dangers of the back-up that was certain to occur, the district engineer called for an iCone® queue warning system to be deployed before the job started. With only a couple of days notice, Road-Tech Safety Services was able to deploy an iCone® based queue warning system with two message boards in less than one hour. The system was set-up to cover a potential four miles of queuing but within an hour or two the back-up had extended beyond that. The Road-Tech worker went back to the site and pulled one of the downstream iCones® and moved it up stream to extend the coverage to five miles which proved adequate for the job. The repair was completed in under twelve hours and the iCone® system was removed overnight.



The iCone® system provided safety to the motorists and situational awareness to the engineers on the sort of job that was too fast and too small for traditional smart work-zones at a cost that was within the district engineer's discretionary spending level. For more information on iCones go to www.iConeProducts.com



Lead Bridge Engineer & Roadway Design Engineer—PB, Columbia, SC

HDR is seeking a lead Bridge Engineer and mid-level roadway design engineer in Columbia, SC

Read the detailed job descriptions and apply online at <http://www.pbworld.com/>



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F&H is seeking a Construction Project Manager, CE&I Project Manager, and Civil Engineer in Greenville

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Stantec is seeking two structural engineers for their Charleston office.

Read the detailed job description and apply online at <http://www.stantec.com>



Stantec

Roadway and Bridge Engineers —Greenville & Fort Mill, SC

URS is seeking two engineers in South Carolina

Read the detailed job description and apply online at www.urs.com



State Government
careers
www.jobs.sc.gov

Question 1:

A frog sits on a lily pad in the precise middle of a circular pond with a radius of 6 meters. He jumps straight towards the edge of the pond a distance of 3 meters but this tires him and every subsequent jump is precisely half the distance of the jump before it (ie, 1.5 meters, 75 centimeters, etc.).



How many jumps does it take him to reach the edge of the pond?

Question 2:

Sue Sugar had a toothache. She went to the only dentist office in town where she was greeted by Dr. Molar and Dr. Bicuspid, the partners. She noticed that whereas Dr. Molar had a wonderful set of teeth, his partner's teeth seemed in urgent need of attention.



With which partner should she book her appointment?

Be the first to answer the questions correctly and you will be recognized in the next newsletter and receive a \$5 discount at the next meeting. Email your answer to davisas@scdot.org.



Alan S. Davis, PE



Last Issue's Challenge

Tom Dodds was the winner of the last issue's challenge. Tom is the Bike and Pedestrian Engineer with the SCDOT.



Tom Dodds, P.E.



Solutions

Question 1:



Dave and Anne moved into their new home and then went to the hardware store to make an important purchase. "How much is one?" asked Dave. "\$3," came the reply. "What about 20?" "That'll cost you \$6." "OK, well we need 2042."

What were Dave and Anne buying and how much did it cost them?

A: Address numbers for their house. Four at \$3 each cost \$12.

Question 2:

In the early 18th century Mrs. Abigail Eischrank of Cambridge, Massachusetts, gave birth to thirteen children. Exactly half of them were girls.

Explain.



A: So were the other half.



2012 Section Officers

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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.

JOIN SCSITE TODAY!!

Membership forms are available on our website. Dues are \$20.00 yearly.

FIND US ON FACEBOOK

Search Facebook for South Carolina Institute of Transportation Engineers.

The Facebook logo, consisting of the word "facebook" in white lowercase letters on a dark blue rectangular background.

We are on the web at
www.scs-ite.org

Newsletter Information

“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, as well as the International ITE.

Any suggestions on format or content are welcome. News on members, the section, or the profession should be submitted to Jae Mattox at mattoxjh@scdot.org.