



South Carolina Section Report

District 5 ITE Board Meeting

November 18, 2010

South Carolina Section ITE has a membership of 165 (30% increase), including 79 voting members and 86 students. Through our Section Board's leadership, we have had a great year in 2010 that included activities to serve members, enhance our profession, support students, and benefit the traveling public of the Palmetto State. An overview of 2010 SC Section activities is as follows:

I. Current Officers and Committee Chairs

President	Bryan D. Webb, PE, PTOE
Vice President	Jeffrey J. Ingham, PE, PTOE
Secretary/ Treasurer	Elizabeth Carpenter, PE
Technical Chair	Sunny Nandagiri, PE, PMP
Membership Chair	V. Carol Jones, PE
Student Chapter Coordinator	Wayne A. Sarasua, PhD, PE

Others:

Past President:	Jae H. Mattox, III, PE
Community & Outreach Chair:	Mike Ridgeway, PE
Section Representative:	William J. Davis, PhD, PE
Affiliate Director:	Jennifer Bihl, PE
Nominations/Awards:	Hesha Gamble, PE, PTOE
Scholarship:	Gaye Sprague, PE
Social/Golf:	Don Turner, PE & Mike Ridgeway, PE
Newsletter Editor:	Jae H. Mattox, III, EIT
Website:	Berry Mattox, EI - refer to www.scs-ite.org

II. Treasurer's Report – Elizabeth Carpenter

Checking Account:	\$14,203
Stafford/Clark Scholarship Fund:	\$27,289
Rowe Scholarship Fund:	\$24,031

III. Fall Section Meeting – Greenville SC, October 28th

The Fall Section meeting was held in Greenville at Tommy's Country Ham House on October 28th. The meeting included a catered luncheon and a technical presentation. The technical program was presented by the SCDOT's Traffic Engineering Division and included a review of the updated Signal Design Guidelines, Traffic Signal Specification updates, and SCDOT funding for Signals and Signal Systems. There was great participation during the meeting as the additional funding and updates will affect our profession and engineering practices. SCSITE awarded 1.5 PDH's at the conclusion of the seminar to interested participants. . A special thanks to Carol Jones and Liz Carpenter both from the South Carolina Department of Transportation Signals and Systems Traffic Engineering Division, who spoke on the Updated Signal Design Guidelines, Traffic Signal Specification updates and SCDOT Signals & Systems Funding.

IV. Fall Meeting - Scholarship Golf Tournament, September 9th

Mike Ridgeway and Don Turner, with help/support from Section members and local companies, organized this year's SC ITE Section Scholarship Golf Tournament. The tournament was held at the Northwoods Country Club in Columbia on September 9, 2010 and by any account this year's scholarships tournament was a huge success. SCDOT's Deputy Secretary for Engineering, John Walsh, PE was the keynote speaker during the event luncheon. 36 sponsors helped support the event and fundraising activities, which raised \$7,000 for the scholarship fund. There were a total of 22 teams of golf participants along with other ITE member volunteers. Organizers can't thank everyone enough for their generosity and contributions in countless ways. First Place Winners of the Tournament was the team of Hisham Abdelaziz, Phil Okey, Danny Jones, and Chuck Chorak. Their names will be engraved on the Don Turner Championship Jug. Don has served as tournament Co-Chair and contributed in countless ways to making the tournament and SC ITE activities a success. Don has recently retired after 38 years of service with SCDOT.

V. Summer Meeting – SC State Port Authority, June 9

The SCITE Summer meeting included a Tour of the South Carolina State Port Authority's (SPA) Wando Welch terminal in Mount Pleasant. 55 ITE members turned out to tour the Port's facilities. David Smith, the Chief Engineer, and David Hoffman, the Operations Engineer for the Wando Terminal, gave presentations about the Port facilities, its current operations, and its plans for expansion. We then took a guided bus tour of the facilities, including all dockside and portside operation. This unique opportunity gave all that attended a new perspective on the shipping and trucking industry and exposed ITE members to a vital element of our transportation system that we typically do not see. Thanks again to those that attended and everyone that helped in planning.

VI. Spring Meeting – University of South Carolina, March 25

The Spring Section meeting was held in Columbia at the civil engineering building on the University of South Carolina campus. Dr. Nathan Huynh and USC students Adam Payne and Greg Moore were a big help in organizing the meeting. A special thanks to Dan Hinton from the South Carolina Division of the Federal Highway Administration (FHWA), he gave a 2-hour open discussion seminar on the revisions to the MUTCD. There was great participation during the meeting as the 2009 MUTCD updates are going to affect our profession and engineering practices. Carolina Café catered the meeting and 52 members and guests were in attendance. SCSITE awarded 2 PDH's at the conclusion of the seminar to interested participants

VII. ITE Southern District (5) Annual Meeting – Portsmouth, VA

Highlights from the 57th Annual Southern District (5) meeting held in Portsmouth, VA included great representation of SC ITE, with a 20-member delegation. SC-ITE received runner-up Group II Section Award and the Clemson University ITE Student Chapter received runner-up for the Southern District (5) Outstanding Student Chapter Award. Several of the SC ITE members gave presentations as part of the conference program. These presentations included:

- Dr. Wayne Sarasua, Clemson Univ. – “Automated Traffic Data Collection Using Pan-Tilt-Zoom Cameras.”
- Ms. Priyanka Alluri, Clemson University, “ Safety Analyst: The Georgia Experience.”
- Mr. Eric Tripi, Iteris, Inc., “Independent Impact Fee Studies, Berkeley County, SC; Two Case Studies.”

VIII. Student Chapter Activities

Institution	Advisor	Major activities
Clemson Univ.	Dr. Wayne Sarasua	service projects & meetings
Univ. of South Carolina	Dr. Nathan Huynh	meetings & forums
South Carolina State Univ.	Dr. Yuanchang Xie	seminars & field trips
Citadel (student members)	Dr. William J. Davis	traffic service projects

Clemson Univ., ITE Student Chapter - The Clemson Student Chapter focused on a number of service projects, professional development, and lots of fun on the following projects:

- Last semester, four ITE members (Sherry Kang, Tahera Anjumen, Vijay Bendigeri, Sudhakar Pandurangan) graduated with their Master's degree. In addition, we also added one new member to the chapter who started his PhD in January.
- In January the chapter started the semester with a trip to the annual Transportation Research Board Meeting in Washington, D.C. This trip gave students the opportunity to tour our nation's capital for the first time as well as experience the conference. 3 ITE members represented Clemson by participating in poster sessions and making presentations.
- During February the chapter participated in several community activities, which have become annual events. Several members were in charge of representing their countries at Clemson Elementary School's International festival. The Chapter also helped conduct cleanup of the Clemson Elementary School nature trail.
- Dr. Jennifer Ogle and ITE Chapter members Johnatan Dillon, Yan Zhou, Sara Familian, Priyanka Alluri, Katerina Bartman, Lee Tupper and Vijay Bendigeri held a World Thinking Day event for Girl Scouts in Service Unit 632. The Chapter developed, organized, and held the event in the Palmetto Ballroom on the Clemson University campus. The theme of the event was "Together We Can End World Hunger". Over 125 scouts and leaders participated in the 2-hour event. ITE members ran booths with information on Chinese weddings, the ecological diversity of Ecuador, the Taj Mahal in India, traditional belly dancing in Iran, and typical customs in Ukraine. All of the girls went home with a bag full of souvenirs from their World Thinking Day experience and the event was a great success for the ITE members. The event was a huge undertaking for the chapter requiring countless hours of volunteer time over several months. The entire event was funded by chapter funds.
- The Clemson ITE chapter, along with members of the Clemson ASCE chapter had the opportunity to visit a rehabilitation project for a 15-mile segment of interstate 385 in South Carolina. Leaders of the project including SCDOT pavement expert, Andy Johnson, met with the students and advisors and spoke about the design of the new road as well as the decision to close the interstate completely for eight months, a first in SC, while construction takes place. Touring this type of project in SC was truly a once in a lifetime experience since SCDOT employees claimed it was "a perfect storm type project" for a highway closure.
- The Chapter recently completed a pedestrian study at 4 downtown intersections in Greenville. This is the third year that our chapter has participated in this study. The study helps the City of Greenville's Planning Department to monitor fluctuations in downtown pedestrian activity annually as well as during different days of the week. The study was conducted over 3 different days (weekday, Saturday, and Sunday).
- The annual highlight of our year has usually been the Southern District ITE Annual Meeting. This year, Clemson sent 9 students to Portsmouth Virginia to participate in the meeting. Among the many meeting highlights, Clemson ITE chapter member Priyanka Alluri received

runner-up award in the student paper competition for her paper “Comparison of traditional and advanced methods in identifying roadway sections for improving safety.” Priyanka Alluri also gave a well-received presentation “Safety Analyst: The Georgia Experience”. The Clemson Chapter also won the Outstanding Student Chapter Runner-Up award.

- Several students made a visit to the Greenville TMC where the technology used for their traffic management operations were previewed thanks to Dan Campbell at the SCDOT. A group also made it to CUICAR in Greenville where we received a tour of a state-of-the-art lab featuring research sponsored by BMW.
- At our July 30 summer meeting, Dr. Robert Awuah-Baffour spoke about the challenges facing higher education in his home country of Ghana and his plan to help its development. After being on the faculty at 3 different universities in the United States, Dr. Awuah-Baffour is now the Vice-President of the Ghana Telecom University. Dr. Awuah-Baffour.
- The student chapter kicked off the school year with its annual fall social, hosted by Dr. Wayne Sarasua. The social featured foods from nationalities represented in chapter and an evening of fun swimming and tubing in Lake Hartwell. Attendance at the social was the highest it has been in years as the number of active members has doubled this year.
- The student chapter elected officers for the 2010-2011 school year including: Katerina Bartman - President, Jennifer Johnson - Vice President, Priyanka Alluri - Secretary and Caitlyn Davis-McDaniel - Treasurer. Past-President Lee Tupper and co-Faculty advisors, Dr. Sarasua and Dr. Jennifer Ogle, round out the board of directors. In addition, the chapter welcomes several new undergraduate members and over a dozen graduate students.
- The student chapter took to the water in September for its annual Adopt-A-River. This year, ITE members partnered with students/faculty from the Agricultural Economics program to collect trash and recyclables along the Saluda River between SC 123 and SC 81. Clemson ITE had a total of 18 people travel the river in 8 canoes picking up trash along the way.
- The student chapter sponsored a lecture series including as Hesha Gamble, Traffic Engineer for Greenville County, Jae Mattox, Program Manager for SCDOT, and Tony Chapman, Former SCDOT Deputy Secretary of Engineering, who presented perspectives and career paths that transportation professionals can pursue and excel in.
- The student chapter is working with Darrohn Engineering on a technical project to help develop a Bicycle Master Plan for the city of Greenville. Students were trained on safety aspects of working on a roadway and how to collect measurements. Lane widths, shoulder widths, and gutter widths were collected along roads such as Pleasantburg Dr. and Augusta Rd. to determine which roadways would be best suited for installation of bicycle lanes.
- A dozen students attended the Fall SCSITE meeting in Greenville, SC in which Elizabeth Carpenter and Carol Jones spoke about the changes to the South Carolina Signal Design Guidelines. The students found the explanation of the guidelines very interesting and will soon find it helpful as signal timing projects are assigned in the design classes.
- The chapter participated in the SDITE webinar to learn about what being of member of ITE was truly about and what opportunities exist through ITE.

South Carolina State Univ., ITE Student Chapter - The SCSUITE student chapter members have had a busy year including the following activities:

- South Carolina State University recently received a 6-year and \$3 Million grant to enhance its Master of Science in Transportation (MST) program. This grant will provide generous assistantships to 8 students in the MST program every year from 2009 to 2015.

- SCSUITE members had two field trips during the past few months. The first trip was to a UPS distribution center located in Orangeburg. Ms. Marissa Droze showed students around the UPS center and demonstrated use of advanced information technologies (e.g., GPS, GIS) for scheduling UPS trucks. The other field trip was to a weigh station on Interstate 26 between Orangeburg and Charleston. Officers at the weigh station explained to the students how the station screens overloaded trucks and protect the freeway infrastructure. Various detectors installed at the weigh station can accurately measure the weight of each truck axle. They can also catch trucks transporting radioactive materials.
- 4 students in the MST program (Edward Starks, Shaun Hemingway, Lydia Edwards, Taurean Marshall) traveled to Washington DC in January and attended the 89th TRB Annual Meeting.
- On January 20th, SCSUITE held its first general meeting in 2010 and elected five new officers: Carlos Bonfim (President), Andre Prescod (Vice-President), Joseph Mackey (Treasurer), Everett Davis (Public Relations Director), and Willyce Davis (Secretary).
- On April 21, 2010, Ms. Jennifer Humphreys from Wilbur Smith Associates and Mr. Michael Dennis from SCDOT visited South Carolina State University. They conducted a presentation on "Travel Demand Modeling in South Carolina". During the presentation, Mr. Michael also demonstrated TransCAD with real-world data collected in South Carolina. The presentation was very instructive and interesting and provided students with valuable information on travel demand-modeling practice in South Carolina and applications of TransCAD.
- On May 17, 2010, a group of SCSUITE members and faculty visited the Welch Wando Terminal (WWT) at the Port of Charleston. The WWT was opened in 1982. It now has 4 container berths, 10 container cranes (6 are Super post-Panamax and 4 are post-Panamax), and nearly 242 acres of container storage space. It is the largest terminal at the Port of Charleston and has received worldwide recognition for its innovative design and overall terminal productivity. The WWT tour was guided by Ms. Suzan E. Carroll-Ramsey.
- Guests from ODOT: Mr. Blake Dye and Ms. Jennie Caudle from Oregon Department of Transportation (ODOT) visited South Carolina State University on October 11. They met with members of SCSUITE Student Chapter and students in our Master of Science in Transportation program, and introduced ODOT's Graduate Engineering Program and College Internship Program, which are designed specifically for developing recent engineering graduates and facilitating the transition from students to full-time engineers.

Univ. of South Carolina, ITE Student Chapter - Hosted The Spring Section meeting on June 25 at the University of South Carolina's Swearingen Engineering Center in Columbia, South Carolina. The meeting included a catered luncheon and a technical presentation.

- The University of South Carolina ITE student chapter joined up with USC's ASCE Chapter to hold combined meetings about transportation issues.
- In the Spring, our chapter hosted the SCITE Spring Meeting. Mr. Dan Hinton from the Federal Highway Administration (FHWA) discussed changes and new guidelines added to the latest edition of the MUTCD.
- The Student Chapter is looking forward to an exciting new academic year with new officers. These officers are Greg Moore (president), Beth Quattlebaum (vicepresident), Codee Buckler (secretary), and Thaer Faraj (treasurer).
- The Chapter sponsored a "Networking Panel Discussion" for the students in the College of Engineering and Computing the day before the Science Engineering and Technology Fair was held. This event was a huge success with assistance of Helen Fields, the Director of the Career Center for the CEC. There were approximately 40 students in attendance, along with three panelists.

The Citadel, ITE Student Members – Student activities in 2010 have included the following:

- 10 ITE student members attended the ITE Technical Conference and Exhibit in Savannah on March 16, 2010. The conference theme was “Meeting Transportation’s 21st Century Challenges”. Over 300 engineers and planners from around the globe were in attendance to discuss the latest traffic and transportation issues. Sessions focused on innovative solutions to today’s transportation issues including sustainability, policies to reduce green house gases, and evolving vehicle-to-vehicle and vehicle-to-infrastructure technology. The exhibit hall offered hands on interaction and one-on-one discussions with the companies and engineers who are working to implement technological solutions to today’s mobility needs. Students were able to see demonstrations and even participate in driving simulations. Displays offered a preview of where the future of transportation engineering is headed.
- 3 students Citadel ITE members, BK Aton, Joe Robertson and Aaron Lee, attended the SC ITE Summer Meeting, June 9 in Mt. Pleasant, which was a tour of the SC State Port Authority’s Wando Welch terminal. It was a great opportunity for students to network with SC ITE members and to see first hand, transportation facilities that they learned about in class.
- The Citadel was awarded a national community service award, Richard J. Scranton Outstanding Community Service Award by ASCE, due in large part to their ITE/ASCE service learning project on the Isle of Palms Marina Traffic Study. Student’s collected data, analyzed traffic flow patterns, developed alternative site layouts and presented findings to the mayor and city council. In winning this prestigious service award, Citadel students were singled out for recognition from among more than 270 ASCE student chapters at colleges and universities across the United States and from 11 countries.
- I-526 Public Meeting – 50 students attended a public hearing on Sept. 8, 2010, for the extension of The Mark Clark Expressway (I-526) across James and Johns Islands. There were approximately 400 meeting attendees and students were able to learn about highway design process being used to develop the preferred alternative for the proposed project. In addition, students developed a better understanding of how transportation officials interact with the public to address controversial issues and engineering-related perceptions on an array of aspects involved with a large-scale project
- Battery 2 Beach Route Analysis – 20 Citadel ITE students are working on evaluation of route improvements and cost estimates for a 25-mile long bike/ped. facility that will link White Point Gardens with Sullivan’s Island, Isle of Palms and Folly Beach. The proposed facility is being promoted by a non-profit organization, Charleston Moves. A cost benefit study is being conducted in conjunction with the College of Charleston. So far students have collected traffic and cross-section data needed to perform a Bicycle LOS and Pedestrian LOS evaluation of the individual route segments.
- Patriots Point Traffic Study - 15 Citadel ITE students are working to evaluating parking and traffic circulation issues at Patriots Point Naval & Maritime Museum home of the USS Yorktown. Students are collecting data to evaluate parking occupancy, developing preliminary parking layouts and analyzing traffic flow data from special events. Results will be used by the Director of Operations to evaluate possible transportation improvements.