



DRIVER

Message from our President

I'd like to take this opportunity to first of all thank all of you for your support and encouragement in allowing me to serve the South Carolina Section as President in 2011. Secondly, I'd like to introduce myself to those of you I don't know all that well. One of my goals as President is to hopefully get to know every member of the South Carolina Section, and encourage each of you to do the same.



Jeff Ingham, PE, PTOE



It looks like 2011 will be another great year for South Carolina ITE. We're planning a number of activities, many of which are outlined in this newsletter. In March, we will have Martin Bretherton from HNTB give a presentation on the new Highway Safety Manual. In April, the Southern District meeting will take place in Louisiana. In May, we'll have the semi-annual Vendor Day in Columbia. In June or July, we'll have our summer meeting at a yet to be determined outing (we're looking to do a "field trip" type meeting similar to our port tour last year). Of course, September brings the annual golf tournament. A fall meeting in October/November and the Christmas party will round out the year. All in all, there will be plenty of opportunities for you participate and get involved in ITE.

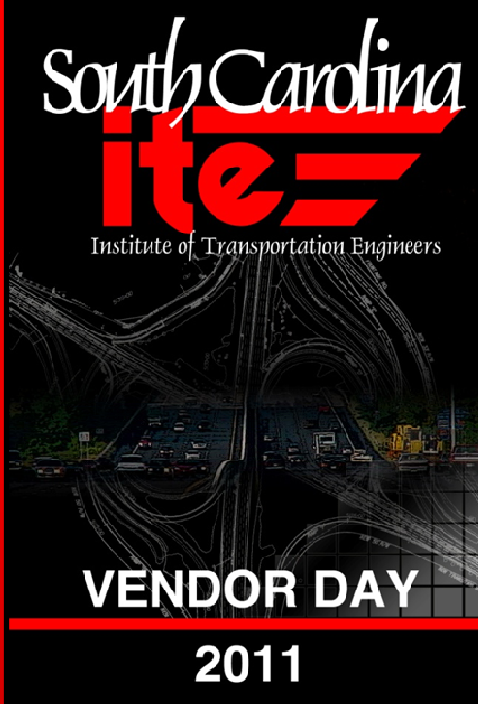
Your participation is what makes ITE what it is! I look forward to seeing you all this year.

Jeff

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**2011 Dues
are now
being
collected.
Please
pay
Jennifer
Bihl
ASAP.**



VENDOR DAY 2011

Invitation

Safety Equipment

Signs & Marking

Work Zones

Signals / ITS Equipment and Software

Great opportunity for field personnel to see what equipment is available and ask vendors questions!

Registration & Lunch Free

Register Online: www.clemson.edu/t3s/ite

ON | May 3rd, 9 AM to 3 PM

AT | Seawell's Banquet & Reception Center
Columbia, SC (www.seawellscatering.com)

Contact: Liz Carpenter (Elizabeth.carpenter@aecom.com)

Date Set for Spring Meeting—3/22/11

The date for our spring meeting has been set for Tuesday, March 22nd. The meeting will be held in Blythewood at the Highway Patrol/DMV office building (10311 Wilson Blvd, Blythewood, South Carolina). Once you enter the gate, you will need to tell the guard you are there for the ITE meeting and he will let you through to park, there is plenty of parking available. The meeting will begin at 11:30 am in room CG52. Martin Bretherton from HNTB will give a seminar on the revisions to the Highway Safety Manual. Joey Riddle from SCDOT will give a brief overview on the current and future direction for SCDOT Safety projects.

Martin has over 33 years experience in Traffic Engineering in the state of Georgia. He has published and presented many papers for ITE and other technical organizations. He is a past president of the Georgia Section and currently serves as Secretary/Treasurer for the Southern District.

Spring Meeting

March 22, 2011

DMV Office Blythewood-10311 Wilson Blvd-Room CG52, 11:30 AM-2:00 PM

COST (includes box lunch from Carolina Deli)

Member - \$15, Member (Gov't Employee) - \$10, Non-Member - \$25, Non-Member (Gov't Employee) - \$20

RSVP TO LIZ CARPENTER BY MARCH 18, 2011

Elizabeth.carpenter@aecom.com or (803)629-9523

TRANSIMS Traffic Modeling and Simulation Training

South Carolina State University is very happy to host a 2-day TRANSIMS training on **April 14 and 15 (Thursday and Friday)** in the James E. Clyburn University Transportation Center Training Room. Experts from Argonne National Laboratory will give an overview of TRANSIMS and provide hands-on experience of how to use this start-of-the-art tool for transportation planning and large-scale simulation studies. More on TRANSIMS can be found at http://www.anl.gov/TRACC/Computing_Resources/transims.html

If you are interested in attending, please email Ms. Margie Grove (mgrove@scsu.edu) by **March 25th** with the following brief information. The registration is **FREE**.

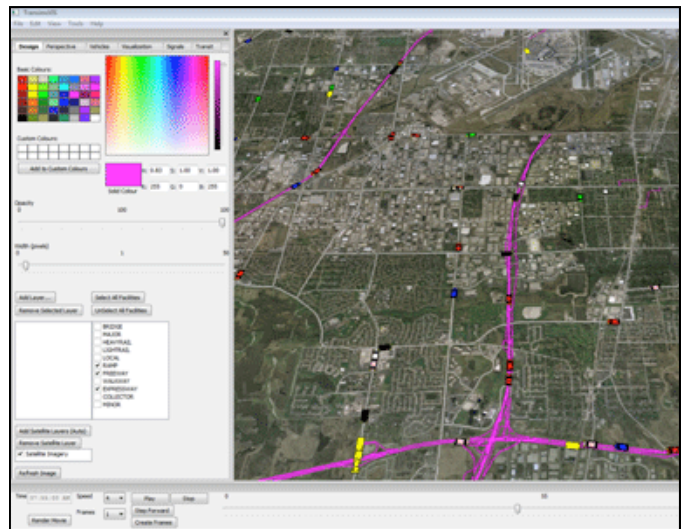
First Name:

Last Name:

Affiliation (e.g., Civil and Mech. Eng. Tech., SCSU):

Any Special Dietary Requirement (If Yes, please specify):

Register for 2 days? (If not, please specify):



 SCSU
ite
student chapter

RECORD CROWD AT CHRISTMAS PARTY

The South Carolina Section of ITE held its annual Christmas party December 6, 2010 at The Sly Fox in the Vista area of downtown Columbia. We had a record crowd of around 60 people including a large number of students. The Sly Fox did a great job with the food and beverage service and a great time was had by all.

We held a desert competition this year and approximately 12 desserts were entered for judging. Our esteemed judges (Liz Carpenter, Byron Hood, Roy Tolson, Jennifer Bihl, & Mikki Crocker) spent a lot of time evaluating the desserts. The judges were unanimous in awarding Susan Ruinen top prize for her Poppy Seed Cake. Dick Jenkins and Mary Ann Ridgeway came in second and third respectively with a Heath Bar dessert and Oreo Balls. I would like to thank all who participated; everyone enjoyed the desserts. Many thanks to Susan for donating her winnings (\$50) back to the scholarship fund and for sharing the recipe for the winning dessert. The recipe is provided at the end of this article.

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 – Mikki Crocker

Mikki is a senior at The Citadel where she is President of the Society of Women Engineers, secretary of ASCE, and a student member of ITE. She is co-owner and operator of Palmetto Striping of Charleston where she does everything from operating the striping machine to recruiting new clients. She has a 3.63 GPA, and Dr. Jeff Davis says that she is “a self-motivated, conscientious, and extremely capable student who exhibits high ethical and moral character and leads by example.” Dr. Davis says that Mikki is committed to pursuing a career in transportation engineering.

Stafford-Clark Scholarship – Jennifer Johnson

Jennifer is a senior at Clemson University where she has earned a 4.0 GPA. She is an officer in many campus organizations and has many honors and achievements including the 2010 Herbert W. Busching Outstanding Junior Award in Civil Engineering. She was the Daniel High School Varsity Girls Assistant Basketball coach, and she has conducted undergraduate research in Intelligent Transportation Systems. Dr. Wayne Sarasua says that Jennifer sets a very high standard that few students can match.

South Carolina Section ITE Scholarship–Kevin Baumann

Kevin is a senior at Clemson where he has a 4.0 GPA and is the recipient of several prestigious scholarships. He has worked with the University’s Transportation Technology Transfer Center and is active in campus activities such as Central Spirit. Dr. Jennifer Ogle says that she has been impressed with Kevin’s “commitment to his school work, his involvement with student groups in the University, and his excitement about becoming a transportation engineer.”

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.

Congratulations to Jeff Ingham, our new President who ceremoniously received the gavel from outgoing President Bryan Webb at the party. Jeff has been working hard already to make sure this will be another great year for SCSITE. Many thanks to Bryan Webb for all he has contributed to the success of our organization. The Vice President this year will be Liz Carpenter. I would like to welcome Jennifer Bihl as our newly elected Secretary/Treasurer and Lori Mahany our new Southern District Representative.

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





Susan's Award Winning Poppy Seed Cake

- 1 Duncan Hines Golden Butter Cake Mix
- 1/2 c sugar + extra to coat pan
- 4 eggs
- 3/4 c oil
- 1/4 c poppy seeds
- 8 oz sour cream

Preheat oven to 350. Mix all ingredients except eggs. Add eggs one at a time, beating between additions. Spray Bundt or tube pan with cooking spray. Coat pan with extra sugar. Bake 45-55 minutes. Cool before dumping.

2011 SCSITE Board Meeting Re-Cap *Jeff Ingham*

The SC Section held its annual board meeting on February 2, 2011 to discuss goals and objectives for the upcoming year. All board members felt that despite the economic challenges, 2010 was a successful year for SCSITE. As we look to build on past successes, we hope to offer interesting activities, provide plenty of opportunity for increased participation, and continue our service to the transportation profession.

Other items we're working on include a new membership directory. If you haven't provided a picture or bio information to Jennifer Bihl, please do so soon so you can be included. We plan to set up a Facebook page for the SCSITE, so look for that soon as well.

We feel that ITE offers a great value for a relatively low registration and meeting cost. We look to continue to make ITE an affordable option for Professional Development Hours. Our budget should allow us to continue offering 3 scholarships for seniors attending South Carolina Universities.



Jeff Ingham, PE, PTOE



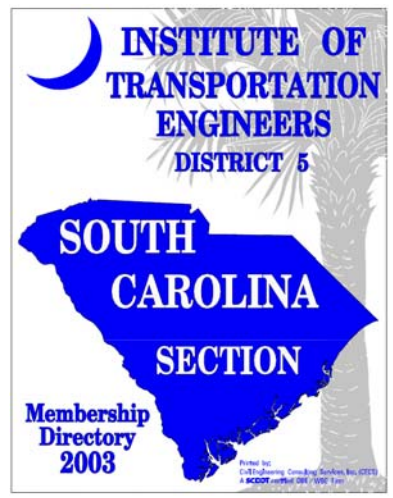
Thanks to all the current and past board members that attended and helped outline the coming year. We are very hopeful and excited about the opportunities we plan to offer, please take advantage of them!

SCSITE DIRECTORY—UPDATE

We know this is long awaited and want to make it most usable for our membership. Expect an electronic copy sent to our 2010 and 2011 members in the upcoming months.

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

jennifer.bihl@kimley-horn.com



**FIND US ON
FACEBOOK**

Search Facebook for South Carolina Institute of Transportation Engineers.

Jennifer Bihl elected Secretary/Treasurer for 2011

Jennifer Bihl, PE, LEED AP is our new Section Secretary/Treasurer. Jennifer received her B.S. and M.S from Clemson University in 1999 and 2000, respectively. Jennifer has worked for Kimley-Horn and Associates, Inc. since graduating and runs their Beaufort, SC office. She is licensed in South Carolina, Georgia, Florida, Alabama, and Mississippi. Jennifer lives in Beaufort with her husband, two dogs and two cats.



Jennifer Bihl, PE

Checking Account:	\$11,300.00
Stafford/Clark Scholarship Fund:	\$26,631.27
Rowe Scholarship Fund:	\$23,767.45

Our National and Affiliated Government Agency Members check has arrived and is in the bank. These funds go towards scholarship opportunities for future transportation professionals and promoting our profession.



Kimley-Horn
and Associates, Inc.

It's dues time again. If you haven't already paid your section dues through International ITE or if you just belong to our section, feel free to bring your \$20 2011 dues to our Spring Meeting in Columbia. Who can beat \$20 for being a member of such a great ITE section! If you would like to mail in your dues, please send them to:

Jennifer Bihl, PE
Kimley-Horn and Associates, Inc.
 710 Boundary Street, Suite 1D
 Beaufort, SC 29902

Legislative Update *Gaye Sprague*

With their hands full with budget, health care, and education issues, the House and Senate are not spending a lot of time on transportation. I have only seen one bill so far. It is S225 and prohibits texting while driving. It has been introduced, and the Senate Judiciary Committee has met, but no action has been taken. The City of Columbia is considering a texting while driving ban of its own.

If you know of any transportation related bills that we should be following, please let me know. gayesprague@cs.com



Gaye Sprague, PE

Sprague & Sprague
CONSULTING ENGINEERS

Dear Southern District Members and Friends,

On behalf of the 2011 SDITE Local Arrangements Committee, it is a great pleasure to invite you to the 59th Annual Meeting of the Southern District ITE from April 10-13, 2011, in the Heart of Cajun Country, Lafayette, Louisiana.



Lori Mahany, PE, PTOE



Stantec

The Southern District ITE has a tradition of bringing together transportation professionals from academia, government and private practice. It is a place where we meet to learn and to exchange practical ideas and experiences while socializing with colleagues, mentors, friends and family.

As always, the conference will provide a variety of sessions led by our fellow transportation professionals. Our theme - "Back to the Basics: Safety, Convenience and Efficiency" - will be interwoven throughout the presentations and events.

The Hilton Lafayette will host our event filled conference on the Vermilion River or Bayou Vermilion. The Lafayette Visitors Center can also be accessed at <http://www.lafayettetravel.com>.

The SDITE 2011 Annual meeting continues new events this year. First, for those non golfers, please join us at 8 am on Sunday, April 10th for a 5K Fun Run/Walk through the residential area of Bendel Gardens adjacent to the hotel.

In your spare moments, Lafayette awaits - offering strolls through Downtown Lafayette or River Ranch. Excellent restaurants are located throughout the city. The Children's Museum, Lafayette Science Museum, and Acadiana Center for the Arts are downtown. The University Art Museum is on UL Lafayette's beautiful campus.

The SDITE Annual Meeting is always a great opportunity for transportation professionals to come together. We look forward to seeing you in Lafayette in 2011.

Rick Day, Candidate for Southern District ITE Representative to International Board

Every three years, the membership of the Southern District ITE (AL, GA, KY, LA, MS, NC, TN, SC and VA) elects a representative to ITE's International Board of Directors. This individual meets three times a year with the International ITE leadership to help determine the direction of the organization. Recently, I have been asked to offer my name as a candidate to serve ITE in this position. This is indeed an honor for me. It is my understanding Gaye Sprague is the only SCSITE member to have served in this position.



If you are a member of the Southern District and International ITE, I would like to ask for your support. I have been active in ITE since I was a student member and have served in numerous committees and councils at the section, district and international levels. I have had the pleasure of serving as Secretary/Treasurer, Vice President and President for SCSITE from 1983-1985 and the Secretary/Treasurer, Vice President and President of the Southern District from 2002-2004. Therefore, I feel like I am familiar with the issues facing ITE and the local sections.



Stantec

Southern District ITE members will receive an email ballot sometime during the month of March or early April for this election. I would certainly appreciate your support.



ITE 2011 Technical Conference and Exhibit

April 3–6, 2011
Walt Disney World Swan
Lake Buena Vista, Florida, USA

ITE 2011 Annual Meeting and Exhibit

August 13–16, 2011
America's Center
St. Louis, Missouri, USA



New Publications

Now Available for Presale! **Highway Capacity Manual 2010**

The fifth edition of the Highway Capacity Manual (HCM2010) incorporates more than \$5 million of funded research that has occurred since publication of the HCM2000. This latest edition will significantly update how engineers and planners assess the traffic and environmental effects of highway projects.



Candidates for ITE International Vice President

ZAKI MUSTAFA, P.E. (F)

Bureau Chief, City of Los Angeles Department of Transportation, Los Angeles, CA, USA

TOGETHER WE ARE THE BEST



I truly believe that we can accomplish more goals in more meaningful ways when we work together with each other. In preparing my vision statement for this campaign, I contacted all ITE presidents and many past presidents to learn about the issues our leaders are facing throughout the world. I found that there are common themes in all regions and generations of the ITE family: We need to work together to make ITE more **accessible, visible, and affordable**.

My experience gained from more than 30 years of ITE involvement has provided me with a valuable tool: I can recognize the needs and expectations of our members in the many different levels of our organization, and I know how our organization can meet these needs.

I have worked for the City of Los Angeles, Department of Transportation for the last 27 years. As the Chief of Field Operations, I am responsible for crews that install and maintain all traffic control devices for the City. I manage more than 280 employees with a budget of approximately \$30 million.

I have been very fortunate to serve at all levels of ITE leadership: as a Student Chapter President, Section President, District President, and recently as a member of the International Board. This experience has allowed me to contribute my ideas, programs, and enthusiasm throughout the full spectrum of the ITE organization. My ITE career highlights include:

International Director: 2008, 2009, 2010

Western District President: 2005

Initiated the Presidential Proclamation award program

WesternITE newsletter editor

WesternITE web-site manager

LAC Chair Anaheim Annual Meeting: 2008

Traffic Bowl Committee Member

I established the District's Student Endowment Fund and helped establish my local Section's Student Scholarship fund. I also established eight new student chapters throughout the Western U.S.

Please vote for me!

RAY DAVIS, P.E., PTOE (F)

President, RED3Consulting, Emeryville, CA, USA



"ITE is a multi-million dollar, multi-faceted, volunteer based professional organization. During these fiscally challenging times we need to make sure that the leadership of ITE has a thorough understanding on how ITE operates, and how it impacts our private and public sector members.

We are all affected by fiscal, time, and travel constraints. We need to develop and implement strategic actions to make ITE more accessible to all of our members and to keep them engaged in our professional organization."

My Vision for Bringing ITE to You:

Use of existing technology for all ITE Committees, Councils, and Task Forces to enable all members to participate without having to travel. This will increase participation and enable ITE's use of smaller meeting venues and save on meeting costs.

Create a Subscription Based On-Demand Electronic Library of ITE's technical publications, compendiums, best practices, recommended practices, and web training that will provide transportation engineers and planners worldwide to

have immediate access to the best information to assist them in developing solutions to the issues with which they are dealing.

Implement Professional Development and Mentoring Programs that will provide members with leadership training that will help them in both their ITE and professional careers.

Enhanced Advocacy for Roadway Safety to achieve ITE's goal of zero deaths on our highways. Advocate for stronger legislation to reduce driver distractions.

Promoting Sustainable Transportation and making sure sustainable transportation, including pedestrian and bicycle facilities, transit, complete streets, incident management, and ITS, are an integral part of our transportation system.

Why Elect Ray Davis?

My vision, passion, commitment, 37 years of active involvement (21 years in elected or appointed leadership positions) at all levels of ITE, strong management and budget skills, and the time to commit, will help ensure that **We will bring ITE to you.**

Please visit www.ite.org/candidates/raydavis

Midlands Leaders See Benefit in Columbia-Charlotte Rail Line

Nik Bramblett

Columbia, SC leaders will travel to Charlotte on March 7 to investigate the possibilities of a long-needed rail connector between the two cities. Meanwhile, Rick Scott, much like other tea party-backed governors in the US (Scott Walker in WI, Chris Christie in NJ, Nikki Haley in SC, John Kasich in OH, etc.) claims that the proposed high-speed commuter rail there, first to connect Tampa and Orlando, and much touted by former governors Jeb Bush and Charlie Crist with strong bipartisan support from representatives as diverse as Bill Nelson and John Mica, is a huge waste of money (\$2.4 Billion from the federal government alone) and is a "loser" from a business standpoint, since the farebox does not more than cover its operating expenses. A Florida court has ruled that indeed he has authority to reject federal funds for it and to effectively kill the project once and for all.



Never mind that there is strong consensus among political leaders and business leaders alike of the rail line's sure promotion of economic development among local economies particularly hard-hit by 2009's economic collapse, and never mind that the very future competitiveness of Florida's efforts to create a commerce base that goes beyond tourism, or that tourism itself will predictably see a real boon of increased in-state consumer spending due to the line's creation; nevermind that Tampa and Orlando are two of the three largest cities in the country without any rail access; never mind that refusing to move forward with the rail service is an obvious deliberate slap in the face to the President's recently-voiced concerns about the nation's infrastructure; never mind that there isn't a single model worldwide to evidence the governor's claim of the line's likely failure. It's clearly much more important to more than double the budget for the governor's executive office than to invest in Florida's future.

Here in Metrolina, Columbia, SC city leaders are travelling to Charlotte on Monday to investigate how a Charlotte-Columbia inter-urban rail project could add the South Carolina Midlands to the regions benefiting by the larger planned rail corridor connecting Washington, Richmond, Raleigh, Charlotte, Greenville, and Atlanta. There's clearly no economic advantage to that. At long last, perhaps, there will be access to both Columbia and Charlotte from Rock Hill, SC, which today has not even so much as a Greyhound bus stop.

SCDOT is studying the broader possibility of establishing a commuter rail system within the state, connecting the metro areas of Charleston, Columbia, and of course SC's world-famous Grand Strand, with Charlotte, NC and Greenville-Spartanburg, already included in the broader regional Southeast High-Speed Rail Corridor plan. Opponents (mostly the rental car industry) say that such a system would not enjoy sufficient ridership. There's no model for that anywhere in the world, by the way, and here in Metrolina, the CATS system has been so popular in its initial development that suburban areas throughout the region are fighting over "next."

The Columbia, SC, Amtrak station, reports the National Association of Railroad Passengers, enjoyed a 12% annual increase in ridership in 2008, the last year for which figures are available. The clear shunning of public transportation by the American people makes it quite obvious that it's true what the anti-tax, anti-progressive folks say about commuter rail: "nobody will ride it."

In Florida, of course, the rail line that Scott, with little public support, just killed, would connect to that same Southeast High Speed Rail Corridor in Jacksonville, adding Orlando, Tampa, Miami-Dade, and Melbourne metro areas to the locations that would reap the corridor's clear economic benefits. Scott's ill-thought-out, flippant pronouncement is just another example of how the tea party mentality is advocating "burning seed corn."

Source: www.examiner.com

Meet Michael Hood

Michael currently works as a Project Engineer at Davis & Floyd's Columbia, SC office. Michael is a registered Professional Engineer in the state of South Carolina. In addition to serving the ASCE Midlands Branch as Vice President, Michael is also the Past President of the SCSPE Columbia Chapter. Michael won the 2010 Young Engineer of the Year Award for the Columbia Chapter of SCSPE as well as the SCSPE State Young Engineer of the Year.

Michael actively serves his community through many organizations, is an active member of his church, and is a member of the Board of Directors for Stepping Stones Ministry, Inc.- a 501(c)(3) non-profit organization that includes halfway houses, Bible studies, a mentoring program for transitional housing participants, a food pantry for the Columbia area, and two thrift stores that employ transitional housing participants and provide proceeds to fund the ministry. Michael is engaged to be married to his fiancée Jessica in June 2011. In his free time, Michael enjoys lifting weights, hunting, fishing, golfing, traveling, watching college football, archery, watching movies, and playing the drums.

Meet Radha Krishna Swayampakala

Radha Krishna Swayampakala has been working with RS&H in Charlotte, NC for over eight years. Radha graduated with Bachelors in Civil Engineering from India in 2000 and with Masters in Civil Engineering from University of North Carolina at Charlotte in 2003. He is a registered transportation engineer in NC, SC, and GA. Since his college days at UNC Charlotte, Radha has been an active member of NCSITE and currently serves NCSITE as Vice President. He is also very active in various committees in SDITE and International ITE.

During the day he can be found performing traffic operations analysis, dealing with travel demand models or preparing NEPA related planning reports at RS&H; and during other times, he likes doing community activities, reading books or watching movies. Radha and his wife Bhavana are expecting their first baby in June, 2011.

Meet John Catoe

John Catoe is a Project Manager for Seamon, Whiteside, and Associates, Inc. in Greenville. He graduated from Presbyterian College with a Bachelor of Science in Mathematics and Georgia Institute of Technology with a Bachelor of Science in Civil Engineering. John worked in site civil engineering in both Florida and Georgia before moving to South Carolina. In August 2008 he joined SW+A as a site civil project coordinator. As a project manager he currently works on a number of projects across the Upstate.

John married Paige Ellisor in 2007. Paige currently teaches at Anderson University while completing her PhD in English literature from the University of Georgia. Together they enjoy taking their boxer, Athena, to the dog-park. Outside of the office, John enjoys involvement with Rotary International, hiking, and home-brewing.



Michael Hood, PE



Radha K. Swayampakala, PE



John Catoe, PE, LEED AP



Ryan Eckenrode Obtains PTOE Certification

Driven to excel in the industry, Ryan T. Eckenrode, PE, PTOE was recently certified as a Professional Traffic Operations Engineer. Certification as a Professional Traffic Operations Engineer™ (PTOE) is a powerful demonstration of requisite knowledge, skill, and ability in the areas of Traffic Operations Analysis, Operational Effects of Geometric Designs, Traffic Safety, Traffic Control Devices, Traffic Engineering Studies, and Social, Environmental and Institutional Issues. Ryan thanks the Clemson University Transportation Graduate Program for teaching him the basic principles in each of these areas.

As a licensed engineer at AECOM, Ryan has been fortunate to work on a wide variety of civil engineering projects, including stormwater design, pavement design, construction management and inspection services, transportation safety, transportation planning, signal warrant analysis, intelligent transportation systems, signal design, traffic corridor analysis, and access management in several states throughout the southeast. Ryan obtained his professional license in 2009 in North Carolina and has also received reciprocal licenses in South Carolina, Georgia, Louisiana, Alabama, and Tennessee.



R. Eckenrode, PE, PTOE



Lori Mahany Obtains PTOE Certification

Lori Mahany obtained her Professional Traffic Operations Engineer certification in October 2010. Lori obtained her Bachelors of Science in Civil and Environmental Engineering from the University of Alabama at Birmingham in 2002. After graduating Lori worked for the North Carolina Department of Transportation in the Signals and Geometrics and Congestion Management Sections. Lori joined Stantec as a Traffic Engineer in 2005, relocating to Stantec's Charleston office in 2008.

Lori specializes in traffic operations projects, including signal design and electrical details, traffic modeling and operations, and pavement marking and signage. She is also experienced in designing various ITS components, such as fiber optic cable routing and wireless communication systems.

Lori is actively involved with ITE, currently serving as the SC Section Representative to the ITE Southern District (5) Board. She lives in North Charleston with her two-year-old twin girls, Reily and Samantha.



Lori Mahany, PE, PTOE



Berry Mattox Obtains PE Certification

Berry Mattox earned his Professional Engineering License in October 2010. He obtained his Bachelors of Science in Civil and Environmental Engineering from The Citadel and a Masters of Science in Transportation Systems from the Georgia Institute of Technology. While at Georgia Tech, Berry was a contributing author and researcher to the National Cooperative Highway Research Program Report 612 "Safe and Aesthetic Design of Urban Roadside Treatments". In addition, he studied at the National University for Advanced Transportation Technology at the University of Idaho and the Center for Transportation Research at the University of Texas at Austin.

Currently, Berry is the Assistant District Traffic Engineer for the South Carolina Department of Transportation District I which includes Kershaw, Lee, Lexington, Richland and Sumter Counties. His responsibilities include evaluation of public concerns regarding traffic safety and efficiency on SCDOT maintained roadways and the review of encroachment permit applications.

Berry is actively involved with SCSITE and is serving as the Chapter's webmaster. He currently balances his time between Columbia and shredding the gnar in the hills.



T. Berry Mattox, PE



Liz Carpenter Joins AECOM

Liz Carpenter has moved over to the consulting world and is pleased to announce that she will be working as an ITS Engineer for AECOM in Columbia, SC as part of the Southern States Traffic Engineering Group. She has been a member of SCSITE since 2007 and is currently Vice President of SCSITE. She was a member of NCSITE for 4 years while working for the City of Greensboro, NC as a Traffic Engineer.

Liz worked for the SCDOT in the Traffic Engineering Department as a Signals & Systems Engineer and Congestion Management Engineer. She has 9 years experience in Traffic Engineering. She has experience in Intelligent Transportation Systems, Congestion Management, Traffic Engineering Studies, Intersection improvement projects, and Signal System design & review.

Liz is a 2001 graduate of Clemson University. She lives in Lexington with her husband, John and their two boys, Thomas & Tyler. It gives her great joy to be an active member of Saxe Gotha Presbyterian Church in Lexington, SC. She enjoys Clemson Football games, spending time with her family and friends, traveling, and reading.



Liz Carpenter, PE



SCSITE SHIRTS FOR SALE

**Please contact Liz if you are interested
in ordering an ITE Logo Shirt**



Gilbert Rowe Scholarship

My name is Mikki Crocker and I am a senior engineering student at The Citadel. I am graduating in May 2011 with a B.S. in Civil Engineering and plan on immediately putting my recent E.I.T. certification to use with a local transportation engineering firm.

I was born in Charleston, SC and raised in Rock Hill, SC. I have always excelled in mathematics and earned my first bachelor's degree in Mathematics at the College of Charleston. After a year of working, I decided that I wanted to pursue a more practical application of mathematics and enrolled in the 2 + 2 Civil Engineering program between Trident Tech and The Citadel. After graduation I hope to find a job in the transportation field here in the Lowcountry, where I can take advantage of the great resources and relationships I have developed at The Citadel.

I am very grateful to the South Carolina Institute of Transportation Engineers for honoring me with the Gilbert Rowe Award. I look forward to joining the SCSITE as a professional in the future.



Mikki Crocker



Jennifer Johnson

Stafford-Clark Scholarship

My name is Jennifer Johnson, and I am a senior civil engineering student at Clemson University. In May 2011, I plan on graduating with a B.S. in CE and will immediately begin pursuing my PhD in Transportation Engineering. My doctoral research will focus on Vehicle-Infrastructure Integration (VII) in alternative fuel vehicles in efforts of creating a more sustainable, intelligent mobility.

I was born and raised in Hilton Head Island, SC, and am proud to say that I will soon accomplish my goal of becoming a first-generation college graduate in my family. I am a driven leader on campus as I am Vice President of the ITE Student Chapter and President of Tau Beta Pi Engineering Honor Society at Clemson as well as in the community as I volunteer assistant coach Varsity Girls Basketball at Daniel High School.

I am greatly humbled and appreciative to have received the 2010 Stafford-Clark Scholarship from the South Carolina Section of ITE. This financial support has enabled me to spend more of my time on professional development and educational opportunities related to a career in transportation, and I look forward to fostering relationships with other professionals in the transportation industry!



SCSITE Scholarship

My name is Kevin Baumann, and I am originally from Alpharetta, GA. I am currently a senior at Clemson University and will be graduating in May 2011 with a B.S. in Civil Engineering. The classes and experiences that I have had at Clemson and with ITE have truly strengthened my interest in transportation engineering and its various applications. I am sincerely appreciative of the opportunity that the South Carolina Institute of Transportation Engineers has given me with the 2010 SCSITE Scholarship.

Looking towards the future, I have plans to attend graduate school at Clemson to pursue a master's degree. I am looking forward to exploring the ways in which I can positively affect transportation engineering, and I hope that I will eventually have the opportunity to participate in SCSITE activities as a professional.



Kevin

Congratulations Students!



SCSU ITE Student Chapter News *Yuanchang Xie*



Yuanchang Xie, PhD
SCSU ITE Student
Chapter Advisor

TRB Trip: Seven graduate students from South Carolina State University attended the 90th Transportation Research Board (TRB) Annual Meeting on January 23-27, 2011 in Washington D.C. Mr. Jason Reed, a graduate student in the MST program and also a recipient of the Dwight E. Eisenhower Transportation Fellowship, presented his research titled “Analysis of Accurate Findings of Vehicle CO₂ Emissions in the United States as Major Contributors of Global Warming” during the 2011 TRB Eisenhower Poster Session. Mr. Reed’s presentation was very well received. At the conclusion of the conference, He received the **Dwight David Eisenhower Transportation Fellowship Program Achievement Award** for his outstanding research. “I was elated to have had the privilege of representing and showcasing South Carolina State University. I would like to thank Dr. G. Dale Wesson, Executive Director, and the Staff of The James E. Clyburn University Transportation Center for their part in helping to make this possible”, said Mr. Reed. Other MST students also found this TRB trip very productive and inspiring. Mr. James Burgess, another MST student and SCSUITE member, was invited at the TRB meeting to be a member of the Young Professional Sub-Committee of the TRB Military Transportation Committee.

MST Students: Mr. Rodney Austin, an MST student graduating in May 2011, has been offered a position with Norfolk Southern in Knoxville, TN. He will go through a 15-month training program including technical training, management training, and field experiences that prepare him for the role as an operations supervisor. Congratulations Rodney!

TRANSIMS Training: South Carolina State University is planning to host a TRANSIMS training course in mid-April of this year. During this 2-day training, experts from Argonne National Laboratory will demonstrate how to use TRANSIMS and apply this state-of-the-art modeling tool to transportation planning and large-scale transportation network simulation. This training is available to the public. If you are interested, please contact Dr. Yuanchang Xie at yxie@scsu.edu by March 25th.

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scsu ite
student chapter

College Corner

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

Citadel ITE student members have been logging many hours on a service learning project being conducted in conjunction with a non profit organization, Charleston Moves. The project is entitled Battery to Beach (B2B) and involves an evaluation of route improvements and cost estimates for a 25-mile long bike/pedestrian facility that will link White Point Gardens with Sullivan's Island, Isle of Palms and Folly Beach. Here is a summary of recent activities conducted by students working on the project:

- Conducting pedestrian LOS and bicycle LOS analysis for each of the 100 route segments along the B2B.
- Creating a detailed route maps summarizing analysis findings along with a photo inventory and of the entire 25-mile long route.
- Developing cost estimates for improvements including bike lanes, sidewalks, ADA ramps, crosswalk pavement markings, pedestrian push buttons, signage and other requirements to provide the desired facility.
- Conducting traffic analysis.
- Working with other project partners including the Coastal Conservation League, Charleston County Parks & Recreation, and Coastal Cyclist Club.
- Conducting a traffic operations analysis of the US 17 Ashley River Bridge to determine if it is feasible to reduce the number of lanes from 4 to 3, allowing a lane for use by pedestrians and bicycles.
- Developing a list of planned and future projects along the proposed route that could be adapted to accommodate the B2B route.
- Riding portions of the route by bicycle with a video camera to document existing traffic and roadway conditions.

Included on the team is a College of Charleston, Environmental Studies graduate student, Tiffany Norton, who is working on methods to estimate the economic and environmental benefits of the proposed project. The project should be completed by May 2011 and students intend to present their results in a variety of public forums including the Charleston County Parks & Recreation Board, local government and special interest groups. This project has provided an excellent opportunity for students to apply what they have learned in their transportation courses to help address real-world urban mobility problems and serve the Charleston community.



William J. Davis, PE, PhD
Citadel ITE Student Chapter Advisor





Nathan Huynh, PhD
University of South Carolina
ITE Student Chapter
Advisor



News from the Student Chapter *Greg Moore*

The student chapter of ITE at USC has certainly gotten up and running this Spring. We had our first meeting of the semester on January 26th. TPM sponsored the meeting and presented on Autodesk Civil 3D and the current BIM movement taking place within the “engineering design world”. Shortly after this meeting, on February 4th, ITE co-sponsored the second Networking Panel Discussion this academic year with the Engineering College Career Center, the Civil Engineering Department and Baker Concrete Construction. Last semester the discussion and Q/A were focused around preparing the students for the upcoming S.E.T. fair that was to take place the next day. This semester, we are focused on discussing how to follow up with companies that were just met at the S.E.T. fair, two days prior, and how to continue building these relationships. Both of these events were very enlightening and educational for the students in attendance. We are getting ready to begin the process of setting up leadership for next year. Much excitement has been built up within the student members of the chapter. They desire to make themselves more knowledgeable in the world of current technology. Students have already stepped forward saying that they are interested in taking on a leading role in the chapter for next year, which is AMAZING! Great things are to come!!



U N I V E R S I T Y O F
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Update from Tiger Town *Kat Bartman and Priyanka Alluri*

Clemson ITE has been extremely busy. In the last 3 months, we've had numerous meetings, activities, and speakers. Here are some of the highlights.

SCSITE 2010 Christmas Meeting, December 2, 2010, Columbia, SC: The South Carolina Section of ITE held its annual Christmas Meeting in downtown Columbia, SC. Our student members were able to meet and mingle with many of the practicing professionals in the state to further enhance their professional networks as they prepare to graduate. It was also here that undergraduate members Jennifer Johnson and Kevin Baumann received scholarships from the SC ITE Section. Students also had the chance to meet other ITE students from The Citadel that were there to receive awards.

Adopt-A-Child for Christmas / Pre-Graduation Party: For Christmas, ITE adopted four children through a local charity and collected \$203 toward gifts. Dr. Jennifer Ogle and her children picked out gifts for the kids based on their wishes. About a dozen ITE members gathered at Dr. Ogle's house on Friday, December 10th to wrap up the gifts. One of our Chapter members Priyanka Alluri also took the opportunity to give a pre-graduation party to all the ITE members. She, along with her mom, cooked and served an authentic Indian dinner at Dr. Ogle's house prior to wrapping gifts. The ITE family had a wonderful evening.



Wayne Sarasua, PhD, PE
Student Chapter Advisor

TRB Annual Meeting and ITE International Student Chapter Reception at ITE Headquarters: In January, the Chapter started the Spring semester by supporting a trip to the annual Transportation Research Board Meeting in Washington, D.C. with 22 student members and three professors in attendance. Several members presented during poster sessions. Our Chapter also sponsored a social at a local Mexican restaurant. About 150 resume books consisting of all the chapter members resumes were distributed to potential employers in an effort to show the industry what Clemson students have to offer.

While attending the TRB Annual Meeting, our chapter participated in a student member reception at the new ITE Headquarters in downtown Washington, D.C. Our members were able to network with fellow ITE students and prominent ITE members, while enjoying food and refreshments in a festive environment. This year our Clemson Chapter made the largest showing of all chapters in attendance with 19 students in attendance.

Clemson Elementary School International Festival: For the seventh consecutive year, Clemson ITE Student Chapter members participated in Clemson Elementary School's International Festival sponsoring five tables (Bangladesh, India, Iran, Ukraine, and the Republic of Trinidad and Tobago) by cooking and serving delicious foods and desserts from their native countries. The food was sold to attendees as a way to raise money for the school's PTA. Additionally, with a motto of introducing various means of transportation to the Clemson Elementary school children, ITE members also prepared posters representing the unique transportation system in each country.

Engineering and Science EXPO - ITE booth: The Chapter, for the first time, volunteered a booth at the Engineering and Science expo week. ITE student members prepared an eye-catching ITE poster for the second grade children attending the booths during the expo week. "Red, Yellow, and Green Light", a spin on the popular "Red light Green light" game, was played to teach the children the significance of the three colors. The school children along with the ITE members enjoyed a lot.

Gaye Sprague, Sprague and Sprague Consulting - Finding the Right Job: Mrs. Sprague, an SDITE Past-President and International Director, was enthusiastic in explaining the various options available in the field of Transportation Engineering. She encouraged involvement in professional organizations after college. She also discussed work/life balance and her inherent passion toward the transportation field. She also stressed the importance for students to take the FE and PE in order to continue to be successful in our profession.

SARIS 5th grade bicycle poster competition: The Chapter volunteered to coordinate a state-wide poster competition with the theme "Bicycling is fun... and healthy too". For this event, the chapter is responsible for identifying and contacting all elementary schools in South Carolina along with managing the collection of poster entries and the selection of the state winners. If anyone is interested in helping to market this competition or serving as a judge please contact the chapter at ite@clemson.edu

CLEMSON
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Project Management Process Groups *Sunny Nandagiri*



Sunny Nandagiri, PE, PMP



A process is a set of interrelated actions and activities that are performed to achieve a pre-specified set of products, results, or services. The project processes are performed by the project team, and generally fall into one of two major categories:

- Project management processes
- Product-oriented processes

Project management is an integrative undertaking. Project management integration requires each project and product phase to be appropriately aligned and connected with other processes to facilitate their coordination. Project management processes are aggregated into five groups, defined as the Project Management Process Groups: Initiating Process Group, Planning Process Group, Executing Process Group, Monitoring and Controlling Process Group and Closing Process Group.

Initiating Process Group: This process group defines and authorizes the project or a project phase. Actions under this group could include:

- Identifying Business Needs
- Creating a Feasibility Study
- Creating a Product Description
- Creating a Project Charter
- Selecting the Project Manager

Planning Process Group: This process group defines and refines objectives, and plans the course of action required to attain the objectives and scope that the project was undertaken to address. In lot of instances, it is an iterative process. Actions under this group could include:

- | | |
|---|--|
| <ul style="list-style-type: none"> • Creating a Scope Statement • Recruiting the Project Team • Creating the Work Breakdown Structure • Completing the Initial Risk Assessment • Creating the Network Diagram • Completing Estimates • Discovering the Critical Path • Creating the Project Schedule • Completing the Project Budget | <ul style="list-style-type: none"> • Completing Risk Assessment • Completing Risk Response Planning • Creating a Quality Management Plan • Completing Stakeholder Analysis • Creating a Change Control Plan • Creating an Organizational Plan • Creating a Communications Plan • Completing the Project Plan • Officially Launching the Project |
|---|--|

Executing Process Group: This process group integrates people and other resources to carry out the project management plan for that project. Actions under this group could include:

- Authorizing the Project Work
- Beginning Vendor Solicitation
- Determining Vendor Source
- Administering Contracts
- Mapping to Quality Assurance
- Dispersing Project Information
- Ensuring Team Development

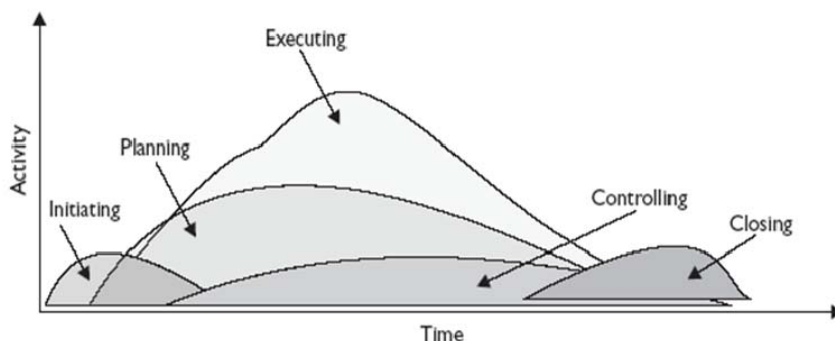
Monitoring and Controlling Process Group: This process group regularly measures and monitors progress to identify variances from the project management plan so that corrective action can be taken when necessary to meet project objectives. Actions under this group could include:

- Ensuring Quality Control
- Providing Scope Verification
- Determining Vendor Source
- Leading Configuration Management
- Overseeing Change Control
- Managing Cost Control
- Enforcing Schedule Control
- Monitoring Risk Response
- Ensuring Performance Reporting

Closing Process Group: This process group formalizes acceptance of the product, service or result and brings the project or a project phase to an orderly end. Actions under this group could include:

- Auditing Procurement Documents
- Completing Scope Verification
- Closing Vendor Contracts
- Closing Administrative Duties
- Submitting Final Reports
- Archiving Project Records
- Reassigning the Project Team Members
- Celebrating!

These project processes groups often interact as depicted below:



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 Program Director.



Sources for this Article: Project Management Institute's "Project Management Body of Knowledge" (PMBOK), 2007 Edition, PMP Study Guide, Joseph Phillips, Certification Press and the AECOM's Project Management's internal training material.

**H.264 AND HDTV:
COMBINING TECHNOLOGIES FOR VIDEO SURVEILLANCE**

In the 21st century, the rapid increase in microprocessor power and efficiency has constantly delivered powerful new products for end users and managers. At the same time, high definition displays have become the standard in most homes, businesses, and government facilities. Until recently, high definition video performed poorly over most network infrastructures. Today, the combination of H.264 compression technology and faster network infrastructure has decreased the negative impact on bandwidth that video over IP has traditionally faced. H.264 compression and HDTV standards are quickly becoming the most widely used standards and products; they can be found in nearly every new video product in the market today.



As organizations consider the move towards new technology and these two standards it will be important for them to understand what product benefits will provide the most value. This whitepaper will briefly describe the H.264 and HDTV standards and will describe how the two will inevitably be used in the future.

WHAT IS HDTV?

HDTV is a video compliance standard. Arriving in the United States in the early 1990's, the HDTV standard was first launched publicly in 1998 and has since had widespread adoption in the television industry. The latest televisions on the market hype their use of 1080p and 720p resolutions which are HDTV standards-compliant, while digital video cameras hype their high resolution products by talking about "megapixels" or the number of pixels in the image produced. Finally, in the security / surveillance industries D1 resolution has typically been the standard resolution used over IP. Without considering compression, high resolution video over an IP network would require about 3 times the bandwidth as standard D1 resolution would. This high bandwidth requirement is the reason that H.264 is integral to the use of High Definition video over IP.



WHAT IS H.264?

Created by the International Telecommunications Union (ITU), H.264 is the name for a standard of video compression completed in May 2003 by the ITU's Video Coding Expert Group. Compression is used to reduce the bandwidth requirements for the transmission and storage of video over IP networks. For all intents and purposes, H.264 is equivalent to MPEG-4 Part 10. However, MPEG-4 Part 2 is the previous generation of compression and should not be confused with MPEG-4 Part 10 or H.264. H.264's popularity is derived from its potential bandwidth savings and ability to improve image quality within the same amount of bandwidth for both standard and high definition video. H.264 compatibility has become necessary to transmit high resolution video over IP networks. Today, innovative new products will fulfill the end-users demand for high resolution video over IP by utilizing H.264.

H.264 BENEFITS

H.264 drastically decreases bandwidth requirements for standard definition video. It allows standard resolution video to be transmitted over existing network infrastructure using up to ½ of the bandwidth of MPEG-4 (part 2) and ¼ of the bandwidth of MPEG-2. High Definition Video can be used with a reasonable to low amount of bandwidth. In the past, 1280 x 720p resolution could only run at a maximum of about 8 fps using MPEG-4 (part 2) compression; but using H.264, 1280 x 720p video at 30 frames per second (fps) can be transmitted using a comparable amount of bandwidth as a standard definition camera using MPEG-4 (part 2) compression.

Because H.264 compression is more efficient, storage requirements for H.264 compressed video are drastically reduced. Correspondingly, cost per hour of recording time decreases using H.264.

COHU'S NEW 3960HD HIGH DEFINITION & H.264 CAMERA SYSTEM

The wait for the marriage of high resolution and low bandwidth cameras is over. Cohu has merged the HDTV and H.264 standards into a versatile, powerful, and limitless new product, the 3960 HD Helios Camera system. Based on the successful and revolutionary 3960 camera positioner, the 3960HD combines a rugged, reliable, and accurate 3960 PTZ positioner with a powerful new HD camera and H.264 compression.



Jan Seigler

jseigler@cohu.com

Emerald Triangle Uptown Development Master Plan

Bryan Webb

Davis and Floyd, Inc. have been awarded its seventh streetscape project for the City of Greenwood. As part of the ‘Emerald Triangle’ Uptown Development Master Plan, this phase will upgrade the physical features of the Central Business District to promote an increase in safety, access, and beauty along the main corridor leading to The Greenwood County Courthouse and City Hall.



One of the main objectives of the design is to make pedestrian access to the Municipal Complex safer. By adding crosswalks and ramps, the potential for pedestrian and vehicular conflicts will be decreased. Another design element related to safety is the addition of decorative street lamps that are proposed on both sides of the road to increase visibility at night. This will provide a real and perceived sense of security along the entire route. To further address safety concerns, the design involves upgrading existing concrete sidewalks and driveways as well as upgrading the asphalt roadway.

The design also calls for replacing steel street sign posts with decorative street signs that match the street lamp posts and constructing new landscape planter bump outs with trees and shrubs. These improvement upgrades will result in a more inviting, pleasing urban atmosphere by creating shade and breaking the expanse of uninterrupted concrete and asphalt. This will give the view into the heart of the municipal area a more intimate, leisurely and relaxed feeling.

The project is funded by a South Carolina Department of Commerce CDGB grant and City of Greenwood funds. Yancey Robertson, in the Davis & Floyd Greenwood office, is the project manager for this project.





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Construction Project Manager/ Site Civil Engineer —Greenville, SC

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

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<http://www.flohut.com/index.php/careers>



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Question 1:

High Speed Rail has changed the world, and a train runs along the East Coast from Miami to Toronto.

One day, the train suffers a terrible accident EXACTLY on the border of the United States and Canada. According to international law, in which country should the survivors be buried?



Question 2:

Which letter can complete this series?

A H I M O U V W X Y

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



Alan S. Davis, EIT



Last Issue's Challenge

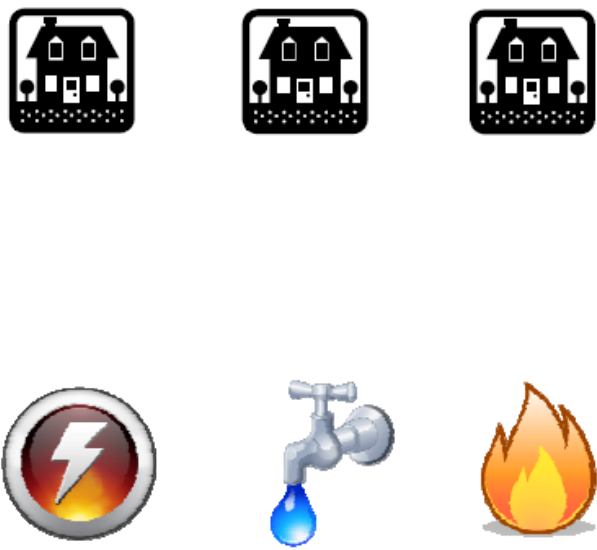
Congratulations to Melissa Edmonds for solving the puzzle. Melissa works in the Traffic Signals and Systems Group within SCDOT Traffic Engineering.



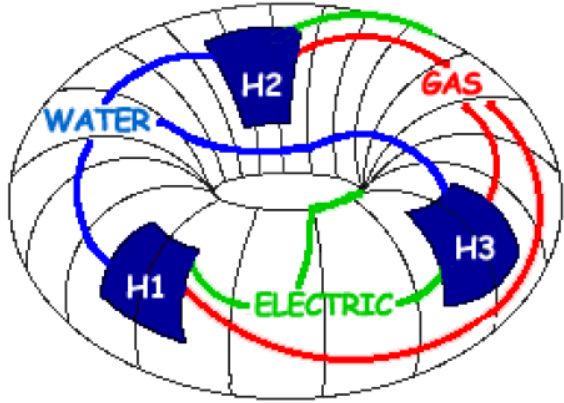
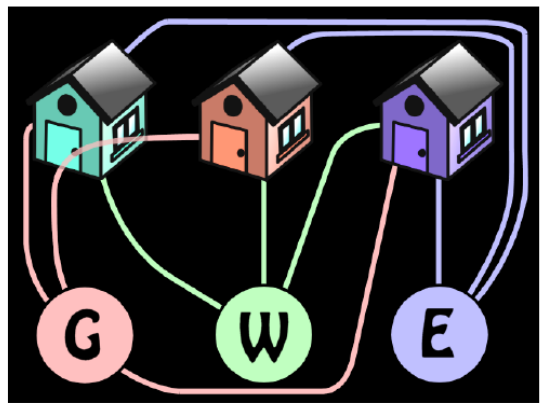
Melissa Edmonds, PE



Each of these houses needs Gas, Water and Electricity lines ran to it from each source. You must draw a line from each house to each utility, without the lines ever crossing. Can you connect the houses to the utilities?



Solution (Two Possible)





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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.

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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.