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2011 Annual Meeting
Memphis, TN
September 28-30, 2011
Dear Friends, Colleagues, and Industry Partners:

On behalf of the Board of Directors of the ITS Tennessee Chapter of ITS America, I welcome you to our fifth annual meeting in Memphis. I am pleased to see participants from Tennessee and surrounding states joining us this year.

As roadway construction costs rise and the availability of funds to construct highways decreases, many state and local agencies across the United States are developing programs to manage their infrastructure through ITS technologies. Tennessee is proud of its accomplishments over the past ten years, including the cutting-edge technology of the traffic management centers (TMC) located in all four major cities.

Please take the time to tour the exhibit area to learn more about ITS technologies, applications, and services. Additional highlights this year include the annual golf event, several valuable sessions in our technical program, a tour of the Tennessee Department of Transportation’s Memphis TMC location, and a tour of the Memphis Traffic Signal Shop. Hopefully we will also see you at our social outing, a riverboat dinner cruise on the Mississippi.

I would like to extend my gratitude to this year’s speakers for sharing their time and ITS knowledge with all of us. A very special thanks to all of our sponsors and vendor exhibitors for their support in making the 2011 Annual Meeting a success.

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I hope this 2011 meeting provides you with an opportunity to learn more about the ITS in place across our great state. Welcome back to ITS Tennessee!

Best regards,

Ali Farhangi, PE
President, ITS Tennessee

Special Thanks...

Once again this year, the Consortium for ITS Training and Education donated a door prize.

Introducing... the Exhibitors

Cohu
Control Technologies
Daktronics
Flir Systems, Security and Surveillance
Gulf Industries, Inc.
Intelligent Transportation Services
Quality Traffic
Ruggedcom
Southern Lighting and Traffic Systems
Temple
TransCore
Utilicom Supply

As a founding member of ITS Tennessee, Stansell Electric Co. is proud to be a leader in the installation and maintenance of ITS systems for TDOT as well as many cities across the state. We currently hold the maintenance contracts for Nashville and Chattanooga.

Hotel Layout

Schedule at a Glance

Wednesday, September 28

11:00 — 2:00 — Technical Tour (Open House Style) — TDOT Region 4 Traffic Management Center

11:30 — 5:00 — Golf Event at The Links at Galloway (Lunch at 11:30; tee times begin at 1:00)

12:00 — 6:00 — Registration Open (Ballroom Foyer)

3:00 — 6:00 — Exhibitor Set-up (Pyramid Ballroom)

3:00 — 5:00 — Technical Program — Emerging Technologies (Pyramid Ballroom)

6:00 — 7:30 — Welcome Reception (Salon E, F, G, H)

Thursday, September 29

7:00 — 8:00 — Continental Breakfast (Salon E, F, G, H)

7:00 — 5:00 — Registration Open (Ballroom Foyer)

8:00 — 8:30 — Welcome Session (Salon E, F, G, H)

8:30 — 10:00 — Technical Program — Performance Measures Roundtable (Salon E, F, G, H)

10:00 — 10:30 — Break in Exhibit Hall (Pyramid Ballroom)

10:30 — 12:00 — Technical Program — Adaptive Transportation Systems (Salon E, F, G, H)

12:00 — 1:45 — Keynote Luncheon (Salon D)

1:45 — 3:15 — Technical Program — Innovation Beyond State Lines (Salon E, F, G, H)

3:15 — 4:00 — Break in Exhibit Hall (Pyramid Ballroom)

4:30 — 8:00 — Social Event (Memphis Riverboat)

Friday, September 30

7:00 — 8:00 — Continental Breakfast (Salon E, F, G, H)

6:00 — 12:00 — Exhibit Hall Open (Pyramid Ballroom)

8:30 — 10:00 — Technical Program — ITS Programs, Tools & Techniques (Salon E, F, G, H)

10:00 — 10:30 — Break in Exhibit Hall (Pyramid Ballroom)

10:30 — 12:00 — Closing Session (Salon D)

12:30 — 2:00 — Technical Tour — City of Memphis Traffic Signal Shop
About the Extras...

**TDOT Region 4 Traffic Management Center Tour**
When: Wednesday, September 28
11:00 - 2:00 p.m.
See firsthand the epicenter of this multimillion dollar transportation management center. The TDOT Memphis Smartway System covers over 80 miles of centerline interstate and includes 42 dynamic message signs, 115 closed-circuit television cameras, 16 highway advisory radio transmitters along with 41 HAR beacons, and over 350 radar detection units. All of these ITS devices communicate directly with this 16,000 square foot transportation management center located on TDOT’s Region 4 Boswell Campus, which serves as the focal point for traffic management operations and communications for the Memphis region. The transportation management center has 16 offices, 2 large conference rooms, 6 operator workstations, and two HELP dispatcher workstations.

**Memphis Riverboat**
When: Thursday, September 29
4:30 - 8:00 p.m. (Transportation provided)
Join us for a privately-chartered cruise down the Mighty Mississippi on the island Queen Riverboat. This cruise is included with your ITS Tennessee Annual Meeting registration, and it includes dinner and a cash bar with one complimentary drink.

The Island Queen has three decks. The first deck will have enclosed dining, the cash bar and a bow stage. The second deck is open-air with some covered outdoor dining. The third deck opens to a moonlit sky with a forward area sheltered under the enclosed dining, the cash bar, and a bow stage. The second deck includes operator workstations, and two HELP dispatcher workstations.

City of Memphis Traffic Signal Shop
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12:30 - 2:00 p.m.
This complimentary tour of Memphis’s Traffic Signal Shop will take 15 attendees on a tour of the facility, which may include a presentation or a Q&A with the facility director. Transportation will be provided.

Telvent SmartMobility™ Suite
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Game Changing Technology
Sensys Networks VDS240 wireless vehicle detection is revolutionizing traffic management with a flexible, cost-effective Universal Platform for all vehicle detection applications.

- Arterial solutions
- Freeway solutions
- Intersection solutions
- Adaptive control
- Congestion pricing
- Ramp metering
- Integrated Corridor Management (ICM)

At the core of our award-winning solutions is a rugged, wireless in-ground sensor, with an unprecedented 10-year battery life.

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Meet the Featured Speakers

What: Welcome Session
When: Thursday, September 28, 8:00 - 8:30 a.m.
Where: Salon E. F. G. H

Ali Farhangi, ITS Tennessean
Ali Farhangi is the Traffic and ITS Manager for the Tennessee Department of Transportation (TDOT). He has been with TDOT for 30 years. In March 2000, he took the lead in ITS for TDOT. He has a Bachelor of Science in Civil Engineering and is a registered Professional Engineer. Ali is the TDOT representative in the National Transportation Management Center Pool Fund Study and president of the ITS Tennessee Chapter.

Bill Moore, Gresham Smith & Partners
Bill Moore joined Gresham Smith & Partners in 2004 after a 36-year tenure with the TDOT. As chief engineer with TDOT, he was responsible for the planning, design, maintenance, and operation of TDOT’s statewide transportation system. In this position, Bill directed the activities of eight divisions and four regional offices. Notable projects completed under his stewardship include the construction of I-26 from Johnson City, Tennessee, to North Carolina, the Nashville Intelligent Transportation “Smartway” System, and the Freeway High Occupancy Vehicle (HOV) Lanes in Nashville and Memphis. In recognition of Bill’s many years of service, the Tennessee General Assembly designated the administrative building in the Jackson complex as the Bill Moore Office Building.

Mayor Mark H. Luttrell, Shelby County
Mayor Mark H. Luttrell, Jr. took office as Shelby County Mayor on September 1, 2010. He received a Bachelor of Arts degree from Union University and a Masters in Public Administration from the London School of Economics. Mayor Luttrell has been in office for more than three years. As mayor, he has focused on improving highway system performance and the effectiveness of both capital improvements and systems operations strategies as well as developing comparative performance measurement approaches for state DOTs in collaboration with AASHTO and FHWA.

Daniela Bremmer, Washington State DOT
Daniela Bremmer is the Director of WSDOT’s Strategic Assessment Office, where she is responsible for an $800 million federal-aid program and the operation of WSDOT’s statewide operations center. Daniela has oversight and support for all technical programs, performance management and system performance analysis, and, most recently, ARRA Stimulus reporting functions. Over the past years, much of her work has been focused on measuring highway system performance and the effectiveness of both capital improvements and systems operations strategies as well as developing comparative performance measurement approaches for state DOTs in collaboration with AASHTO and FHWA.

Pam Kordenbrock, FHWA Tennessee Division
Pam Kordenbrock became the Division Administrator for the FHWA Tennessee Division in February 2010. Pam Kordenbrock has been a member of the FHWA family for 19 years and serves the agency in a variety of capacities. Pam has a Bachelor of Science degree in Civil Engineering and a Masters degree in Transportation Engineering from the University of Virginia.
September 30
8:30 - 10:00 a.m.

Emerging Technologies
Moderator: Joe Warren (TDOT, retired)

Jan Seigler (Cahu)
Advancement of CCTV Technology and the Principles of Encoding Video
This presentation focuses on the advancements in CCTV technology and the principles of encoding video.

Paul Misticawii (Blue Toad)
Bluetooth Travel-Time System
This presentation will discuss what Bluetooth is and how this standard allows travel-time and speed calculations. The different form factors in the Bluetooth travel-time market and challenges that exist with this technology will also be discussed. Existing customer data will be shared live to better understand the type of information that can be attained from a Bluetooth travel-time system.

Chris Copeland (Filr)
Thermal Imaging
This presentation focuses on advanced technologies in thermal imaging.

Craig Franklin (Trichord)
Work Zone Monitoring Systems
Lessons learned in deployment and operations of portable work zone monitoring systems will be discussed in this presentation—beginning with an overview of available work zone monitoring systems. Technical and functional specifications used by various states in procuring and deploying these systems and present lessons learned from deployments in Virginia, Delaware, New York, New Hampshire, and Illinois will also be discussed.

Performance Measures Roundtable
Moderator: Charles Lattimer (Atkins)
Speakers: Terry Glaadden (TDOT), Tommy Wallace (MATA), Thomas Fowler (Kimley-Horn), Frank Horne (TDOT)

Intelligent transportation systems generate tremendous data archives that have the potential to be mined and transformed into treasures of information. Join us for a roundtable discussion with a diverse panel of guests to share their perspectives on performance measures.

Adaptive Transportation Systems
Moderator: Mark Washing (GS&P)

Eddie Curtis (FHWA)
Systems Engineering as Applied to Adaptive Traffic Signal Control
This presentation will provide an overview of FHWA’s Every Day Counts Technology and Innovation Initiative for Adaptive Signal Control Technology (ASCT).

Jay Calhoun (Gannett Fleming)
Using ITS for Safety: I-75/Alligator Alley
A discussion of the 75-mile rural segment of I-75 in South Florida, which connects the metropolitan Miami/Ft. Lauderdale area.

Tom McKeon (Rhythm Engineering)
Real-Time Artificial Intelligence Delivering Real-World Results
This presentation illustrates the iSync adaptive traffic control system using artificial intelligence to optimize traffic signals at individual intersections and coordinate signals along arterial corridors to reduce traffic congestion.

Ashlyn Morgan (Atkins)
Nashville Signal Timing Optimization
This presentation includes the development and implementation of coordinated signal timing plans for over 300 traffic signals in eight networks.

Innovation Beyond State Lines
Moderator: Dowell Hoskins (GS&P)

Gary Millsaps (Delcan Corporation)
STIX: Southern Transportation Incident Exchange Program
This presentation looks at the strides states and local jurisdictions have made in developing and deploying ITS programs in recent years.

Mike Stokes (MDOT)
MDOT Digital Video Migration
A look at MDOT’s statewide transportation communications network.

Pete Salgado and Zia Yusuf
We Park: Technology is Redefining the Way We Park
This presentation reveals how sensor technology, ultra low-power wireless mesh networks, and smart mobile apps are making smart parking a reality across the country.

Craig Franklin (Trichord)
Cost Effective Implementation of the new Real-Time System Management Information Program
This presentation discusses how states and metropolitan areas can leverage work being done in the private sector to cost effectively meet the goals of the Real-Time System Management Information Program.

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**Where:** Salon E, F, G, H

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Ali Farhangi is the Traffic and ITS Manager for Tennessee Department of Transportation (TDOT). He has been with TDOT for 30 years. In March 2000, he took the lead in ITS for TDOT. He has a Bachelor of Science in Civil Engineering and is a registered Professional Engineer. Ali is the TDOT representative in the National Transportation Management Center Pooled Fund Study and president of the ITS Tennessee Chapter.

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Bill Moore joined Gresham Smith & Partners in 2004 after a 36-year tenure with the TDOT as chief engineer with TDOT, he was responsible for the planning design, maintenance, and operation of TDOT’s statewide transportation system. In this position, Bill directed the activities of eight divisions and four regional offices. Notable projects completed under his stewardship include the construction of I-26 from Johnson City, Tennessee to North Carolina, the Nashville Intelligent Transportation “Smartway” System and the Freeway High Occupancy Vehicle (HOV) Lanes in Nashville and Memphis. In recognition of Bill’s many years of service, the Tennessee General Assembly designated the administrative building in the Jackson complex as the Bill Moore Office Building.

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Mayor Mark H. Luttrell, Jr. took office as Shelby County Mayor on September 1, 2010. He received a Bachelor of Arts degree from Union University and a Masters in Public Administration from the London School of Economics, and attended Oxford University where he did graduate work in the Department of Politics.

**Daniela Bremmer, Washington State DOT**  
Daniela Bremmer is the Director of WSDOT’s Strategic Assessment Office, where she is responsible for the agency’s strategic planning, performance management and system performance analysis, and, most recently, ARRA Stimulus reporting functions. Over the past years, much of her work has been focused on measuring highway system performance and the effectiveness of both capital improvements and systems operations strategies as well as developing comparative performance measurement approaches for safe DOTs in collaboration with AASHTO and FHWA.

**Pam Kordenbrock, USDOT, FHWA**  
In February 2010, Pam Kordenbrock became the Associate Administrator for Safety from the Federal Highway Administration (FHWA). He directs a staff responsible for development and delivery of FHWA policies and programs designed to reduce congestion and improve highway operations. Immediately prior to this appointment, she served as the Associate Administrator for Safety from 2006-2008. Mr. Lindley is a civil engineering graduate of Virginia Tech and received his Master’s degree in Transportation Engineering from the University of Maryland.

**Jeffrey A. Lindley, USDOT, FHWA**  
In August 2008, Jeffrey A. Lindley was named Associate Administrator for Operations for the Federal Highway Administration (FHWA). He directs a staff responsible for development and delivery of FHWA policies and programs designed to reduce congestion and improve highway operations. Immediately prior to this appointment, he served as the Associate Administrator for Safety from 2006-2008. Mr. Lindley is a civil engineering graduate of Virginia Tech and received his Master’s degree in Transportation Engineering from the University of Maryland.

**Tom Kern, ITS America**  
As Executive Vice President, Tom Kern provides oversight and support for all technical programs, business development activities, legislative initiatives, meeting planning, member sales and service, and communications. Prior to joining ITS America, Tom was a senior associate at the Annie E. Casey Foundation, overseeing knowledge management and organizational learning. He holds a BA in Government and Economics from Georgetown University earned his MPA from the London School of Economics and attended Oxford University where he did graduate work in the Department of Politics.

**Closing Session**  
**What:** Closing Session  
**When:** Friday, September 30, 10:30 a.m. - 12:00 p.m.  
**Where:** Salon D

**Jeffrey A. Lindley, USDOT, FHWA**

**Tom Kern, ITS America**

**Daniela Bremmer, Washington State DOT**

**Pam Kordenbrock, FHWA Tennessee Division**

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**Tom Kern, ITS America**

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**Transportation Engineering from the University of Virginia**
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- Preact
- Green Wave
- Smarter Cities
- Traffic Management
- Ramp monitoring
- Integrated Corridor Management (ICM)

At the core of our award-winning solutions is a rugged, wireless in-ground sensor, with an unprecedented 13-year battery life.

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- Improves to all weather conditions
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- Campbell Pushbuttons
- Dialight Signals and Street Lighting
- Southern Manufacturing
- Renon A&E
- FLIR
- High Sierra RWIS
- Autoscope Video Detection
- Cabinets/Controllers
- Electronic Components
- Advanced Transportation Management Systems
- Centrac ATMS
- ACU-Lite (Adaptive Control System)
- DCMS 2.1 (Data Collection System)
- Signals
- Real Time Travel Times
- Pedestrian Safety Equipment
- Concrete / Decorative Poles
- Illuminated Street Signs
- Blank Out Signs

In-state warehouse with traffic signal equipment and controller/inventory Providing local pole engineering services, field support / training and installation assistance
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Please take the time to tour the exhibit area to learn more about ITS technologies, applications, and services. Additional highlights this year include the annual golf event, several valuable sessions in our technical program, a tour of the Tennessee Department of Transportation’s Memphis TMC location, and a tour of the Memphis Traffic Signal Shop. Hopefully we will also see you at our social outing, a riverboat dinner cruise on the Mississippi.

I would like to extend my gratitude to this year’s speakers for sharing their time and ITS knowledge with all of us. A very special thanks to all of our sponsors and vendor exhibitors for their support in making the 2011 Annual Meeting a success.

Finally, I would like to express my sincere gratitude to the meeting planning committee chaired by Mr. Gerald Bolden. The outstanding program is a result of many hours of hard work by an excellent group of volunteers.

I hope this 2011 meeting provides you with an opportunity to learn more about the ITS in place across our great state. Welcome back to ITS Tennessee!

Best regards,

Ali Farhangi, PE
President, ITS Tennessee

As a founding member of ITS Tennessee, Stansell Electric Co. is proud to be a leader in the installation and maintenance of ITS systems for TDOT as well as many cities across the state. We currently hold the maintenance contracts for Nashville and Chattanooga.
2011 Annual Meeting
Memphis, TN
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