

# 2012 FALL

TEXITE MEETING  
CITY OF FORT WORTH



AUG  
29-31

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## SCHEDULE AT A GLANCE

### WEDNESDAY, AUGUST 29

8:30 a.m. – 7:00 p.m.	<b>Registration Desk Open</b>
8:00 a.m. – 2:00 p.m.	<b>Golf Tournament</b> <i>Waterchase Golf Club</i>
9:00 a.m. – 4:00 p.m.	<b>Highway Safety Manual Training</b> <i>Elm Fork and Central</i>
10:00 a.m. – 5:00 p.m.	<b>Highway Products Group Setup</b> <i>Rio Grande</i>
1:00 p.m. – 3:00 p.m.	<b>Technical Tour</b> Bus departs hotel promptly at 1:00 p.m.
1:30 p.m. – 4:30 p.m.	<b>Texas District Board Meeting</b> <i>Post Oak</i>
5:00 p.m. – 6:00 p.m.	<b>Professional Ethics Seminar</b> <i>Elm Fork and Central</i>
6:00 p.m. – 8:00 p.m.	<b>Highway Products Group Exhibits and Reception</b> <i>Rio Grande</i>
8:00 p.m. – 12:00 a.m.	<b>CCTexITE Texas Hold 'Em Card Tournament</b> <i>West Fork</i>
8:30 p.m. – ??	<b>Tone Def</b> <i>Trinity Foyer</i>

### THURSDAY, AUGUST 30

7:30 a.m. – 5:00 p.m.	<b>Registration Desk Open</b>
8:00 a.m. – 9:00 a.m.	<b>Texas District Board Meeting</b> (if necessary) <i>Charter Oak Boardroom</i>
9:00 a.m. – 10:00 a.m.	<b>Committee Meetings:</b> <b>Technical</b> <i>Live Oak V</i> <b>Younger Members</b> <i>Bur Oak</i> <b>Newsletter</b> <i>Post Oak</i>
8:30 a.m. – 12:00 p.m.	<b>Highway Products Group Exhibits</b> <i>Rio Grande</i> Breakfast served until 10:30 a.m.

## SCHEDULE AT A GLANCE

### THURSDAY, AUGUST 30 *(continued)*

10:00 a.m. – 11:30 a.m.	<b>PLENARY SESSION 1</b> <i>Pecos</i>
12:00 p.m. – 1:15 p.m.	<b>Kick-Off Luncheon</b> <i>Brazos</i> <b>Welcome Speaker:</b> <b>Doug Wiersig</b> , City of Fort Worth <b>Keynote Speaker:</b> <b>Gary L. Halbert</b> , Holland & Knight
1:30 p.m. – 3:00 p.m.	<b>PLENARY SESSION 2</b> <i>Pecos</i>
3:00 p.m. – 3:30 p.m.	<b>Student Poster Session and Break I</b> <i>Grand Ballroom</i>
3:30 p.m. – 5:00 p.m.	<b>CONCURRENT SESSIONS: 3A and 3B</b> <i>Brazos and Pecos</i>
6:00 p.m. – 9:00 p.m.	<b>Thursday Night Social</b> <i>Rahr and Sons Brewery</i> Shuttle circulates to and from hotel from 5:30 p.m. to 9:00 p.m.
9:00 p.m. – 1:00 a.m.	<b>Younger Members Event</b> <i>Frankie's Sports Bar and Grill</i>
10:00 p.m. – ??	<b>Tone Def</b> <i>Trinity Foyer</i>

### FRIDAY, AUGUST 31

8:00 a.m. – 12:00 p.m.	<b>Registration Desk Open</b>
7:00 a.m. – 8:30 a.m.	<b>Consultant's Council Business Meeting</b> <i>Hotel Restaurant</i>
8:00 a.m. – 8:30 a.m.	<b>Student Poster Session</b> <i>Grand Ballroom Foyer</i>
8:30 a.m. – 10:00 a.m.	<b>CONCURRENT SESSIONS: 4A and 4B</b> <i>Pecos I and Pecos II</i>
10:00 a.m. – 10:30 a.m.	<b>Student Poster Session and Break II</b> <i>Grand Ballroom Foyer</i>
10:30 a.m. – 12:00 p.m.	<b>CONCURRENT SESSIONS: 5A and 5B</b> <i>Pecos I and Pecos II</i>
12:00 p.m. – 1:30 p.m.	<b>Business Luncheon</b> <i>Brazos</i> <b>Speaker:</b> <b>Betsy Price</b> , Mayor, City of Fort Worth

## TECHNICAL PROGRAM

### THURSDAY, AUGUST 30

10:00 a.m. – 11:30 a.m.

#### PLENARY SESSION 1

##### **Safety: Where Are We and Where Are We Going?**

*Moderated by Melisa Finley*, Texas A&M Transportation Institute

##### ★ **MAP-21 and Federal Transit Administration's New Public Transportation Safety Authority**

*Gail Lyssy*, Federal Transit Administration

##### ★ **Highway Safety in Texas**

*Brian Barth*, Texas Department of Transportation

##### ★ **The Other Side of Safety: Investigating, Understanding, Influencing and Determining the Consequences of Driver Actions**

*Robert Wunderlich*, Texas A&M Transportation Institute

##### ★ **Future Vehicle Safety: Connected, Cooperative, or Autonomous?**

*Christopher Poe*, Texas A&M Transportation Institute

1:30 p.m. – 3:00 p.m.

#### PLENARY SESSION 2

##### **Safety Data and Analysis**

*Moderated by Paul Luedtke*, HDR Engineering, Inc.

##### ★ **Using Crash Data in the Pursuit of a Safer North Central Texas Region**

*Jory Dille*, North Central Texas Council of Governments

##### ★ **Frisco's Crash Analysis Software**

*Brian Moen*, City of Frisco

##### ★ **The Joys and Sorrows of Working with Crash Data**

*Jeff Kaufman*, Houston-Galveston Area Council

##### ★ **Arizona Road Safety Assessment Experience**

*Jim Lee*, Lee Engineering

3:00 p.m. – 3:30 p.m.

#### STUDENT POSTER SESSION

##### ★ **Public Involvement: Exploring Ways to Engage Communities for a Better Tomorrow**

*Peggy Adolph*, Texas Southern University

##### ★ **A Stochastic Dynamic Programming Approach for Equipment Replacement Optimization**

*Mason Gemar*, University of Texas at Austin

##### ★ **High-Speed Rail in Existing Highway Corridors: Development of Continuity and Alignment Indices for Sketch Planning**

*Sunil Madanu*, University of Texas at Arlington

##### ★ **How Comparable Are Retroreflectivity Readings Made with Different Retroreflectometers?**

*Brad Brimley*, Texas A&M University

## TECHNICAL PROGRAM

### THURSDAY, AUGUST 30 (continued)

3:00 p.m. – 3:30 p.m.

#### STUDENT POSTER SESSION

##### ★ **Advanced Traffic Management System for Congested Urban Networks**

*Hussein Hashemi*, Southern Methodist University

##### ★ **The Effect of Active Traffic Management on Travel Time Reliability: A Case Study of I-5 in Seattle**

*Michael DeGaspari*, University of Texas at Austin

##### ★ **Reliability Analysis of Bus Routes in El Paso**

*Lorenzo E. Cornejo* and *Juan Salcido*, University of Texas at El Paso

##### ★ **Minimum Auxiliary Lane Length at Freeway On-Ramps**

*Yubian Wang*, University of Texas at El Paso

##### ★ **Operational Impacts of Directional Median Opening**

*Da Li*, Texas Southern University

3:30 p.m. – 5:00 p.m.

#### CONCURRENT SESSIONS: 3A AND 3B

##### **3A: Transportation Technology**

*Moderated by Linc Wright*,  
City of League City

##### ★ **Hardware Innovations in Interconnected Highway-Rail Grade Crossings**

*Mark Mathis*, CTC, Inc.

##### ★ **Documented Safety Improvements of Adaptive Traffic Control**

*Tom McKeon*, Rhythm Engineering

##### ★ **LED-Based Vehicle Detection — New Technologies Solving Today's Issues**

*Dave Gilbert*, LeddarTech

##### ★ **MicroRadar™ Next Generation Bicycle Detection**

*Brett Sumpter*, Sensys Networks, Inc.

##### ★ **Wireless Broadband Networks for ITS and Traffic Applications**

*Jeff Campbell*, Texas Highway Products and *Dan Szgatti*, Encom Wireless

##### **3B: Wrong Way Driving in Texas**

*Moderated by Dave Carter*,  
City of Richardson

##### ★ **San Antonio Wrong Way Driving Activities**

*Brian Fariello*,  
Texas Department of Transportation

##### ★ **NTTA Activities**

*Yang Ouyang* and *Eric Hemphill*,  
North Texas Tollway Authority

##### ★ **Wrong Way Driving in Dallas County: Seeking a Systemic Solution**

*Sonya Jackson Landrum*,  
North Central Texas Council of Governments

## TECHNICAL PROGRAM

### FRIDAY, AUGUST 31

8:00 a.m. – 8:30 a.m.

#### STUDENT POSTER SESSION

See previous list for student presenters.

8:30 a.m. – 10:00 a.m.

#### CONCURRENT SESSIONS: 4A AND 4B

##### 4A: Intersection Safety

**Moderated by James Kratz**, Jacobs Engineering Group, Inc.

- ★ **FHWA Intersection Safety Implementation Plan**  
**Tim Taylor**, Federal Highway Administration
- ★ **Safety Benefits of Red Light Cameras**  
**Troy Walden**, Texas A&M Transportation Institute
- ★ **San Antonio's Flashing Yellow Arrow Experience**  
**Marc Jacobson**, City of San Antonio
- ★ **City of Tyler Flashing Yellow Arrow Before and After**  
**Justin Smith**, The University of Texas at Tyler

##### 4B: Pedestrian Safety

**Moderated by Gary Schatz**, City of Austin

- ★ **Pedestrian Safety in Texas**  
**Stephen Ratke**, Federal Highway Administration
- ★ **Rapid Flashing Beacons for Pedestrian Crossing Signs**  
**Kay Fitzpatrick**, Texas A&M Transportation Institute
- ★ **Experiences from Waco's First Pedestrian Hybrid Beacon and Rectangular Rapid Flashing Beacons**  
**Norman Hogue**, City of Waco
- ★ **Designing for the Visually Impaired**  
**Janet Barlow**, Accessible Design for the Blind and **Melanie White**, Bluebonnet Co-op for Students with Visual Impairments

10:00 a.m. – 10:30 a.m.

#### STUDENT POSTER SESSION

See previous list for student presenters.

10:30 a.m. – 12:00 p.m.

#### CONCURRENT SESSIONS: 5A AND 5B

##### 5A: Safety Outreach

**Moderated by Matt Johnson**, Freese and Nichols

- ★ **Distracted Driver Program Update**  
**Brian Shamburger**, Kimley-Horn and Associates
- ★ **Distracted Driving**  
**Trooper Lonnie Haschel**, Department of Public Safety
- ★ **Teens in the Driver Seat, A Peer-to-Peer Traffic Safety Program for America's Youth**  
**Russell Henk**, Texas A&M Transportation Institute
- ★ **Freight Rail Safety**  
**Stephen Lazzari**, Union Pacific Railroad

##### 5B: Keeping Transit Safe and Secure

**Moderated by Tom Ryden**, Parsons Transportation Group

- ★ **Rail Safety and a New Passenger Line**  
**Kristina Brevard**, Denton County Transportation Authority
- ★ **Providing a Safe and Secure Urban Bus System**  
**Kevin Hunt**, Fort Worth Transportation Authority
- ★ **Improving Houston METRO HOV/HOT Lane Safety**  
**Dustin Qualls**, Traffic Engineers Inc. and **Nader Mirjamali**, Houston METRO

## PROGRAM HIGHLIGHTS

### Highway Safety Manual Training

**Tim Taylor**, FHWA

*Wednesday, 9:00 a.m. – 4:00 p.m.*

The Highway Safety Manual (HSM) provides transportation professionals with knowledge, techniques, and methodologies to quantify the safety-related effects of transportation decisions. Implementation of the HSM requires an understanding of the 'Science of Safety,' which supports the quantitative methodologies presented in the manual.

This course is an overview of the HSM structure, concepts and principles along with select case studies implementing suburban and urban road segment and intersection analysis. It includes an introduction of terminology, examples of the Roadway Safety Management Process (Part B) and Predictive Methods (Part C), explains the relationship of Crash Modification Factors (CMFs) to decision making and quantitative safety analysis, and human factors in a four-hour morning session. Case studies using Texas specific predictive methods for urban and suburban roads and intersections will be presented in a two-hour afternoon session.

### Technical Tour

*Wednesday, 1:00 p.m. – 3:00 p.m.*

Please join us as the Fort Worth Transportation Authority (The T) gives us a tour of their new SPUR bus, Intermodal Transportation Center (ITC), and their administration building. SPUR stands for signal priority urban route and is the latest advance in the T's bus fleet. It is designed to increase capacity along the corridor and in the near future you can track it on your smart phone.

The tour will begin at the hotel with the arrival of a SPUR bus. We will load up onto the bus and proceed to the ITC where we will view the arrival/departure of the SPUR bus and view the existing usage. We will then depart the ITC and travel to the T's admin building. While in route we will learn about the bus features including cameras, TSP equipment, additional bike racks, and more. At the T's admin building we will alight and view the features of the new SPUR bus stop and then proceed into the building for a demonstration of the Next Bus internet technology. After our stop at the T admin building we will either travel the bus route so you can see the bus in operation or return to the hotel, depending on time.



### Engineering Ethics Seminar

**David Howell, P.E.**, Texas Board of Professional Engineers

*Wednesday, 5:00 p.m. – 6:00 p.m.*

The seminar will satisfy the continuing education professional ethics requirements required by the Texas Board of Professional Engineers.

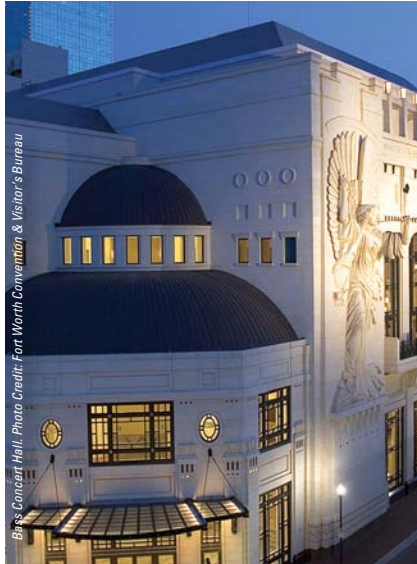


## PROGRAM HIGHLIGHTS

### Keynote Speaker

**Gary L. Halbert**, Holland & Knight  
Thursday, 12:00 p.m. – 1:15 p.m.

Gary Halbert is a partner with the law firm Holland & Knight. He works out of their Washington, D.C., office and is a member of the firm's Aviation and Transportation Law Practice Teams. Gary served in the United States Air Force as a jet instructor pilot for five years before attending law school at the University of Texas. He then served as an Air Force Judge Advocate for almost 20 years before retiring in the grade of Colonel. Gary next joined the National Transportation Safety Board (NTSB) as its General Counsel where he served for five years before joining Holland & Knight. He has extensive experience in accident investigation proceedings and in claims settlement and litigation following a significant accident.



Bass Concert Hall Photo Credit: Fort Worth Convention & Visitor's Bureau



Fort Worth Zoo  
Credit: Fort Worth Convention & Visitor's Bureau

### Thursday Late-Night Social

Thursday, 9:00 p.m. – 1:00 a.m.

This year the Younger Members committee will host the late-night social for all members at Frankie's Sports Bar and Grill at 425 West 3rd Street in Sundance Square, only three blocks from the hotel. Frankie's Sports Bar touts itself as a 'Thirst Emporium' with such activities as pool tables, karaoke, sports on TV, and plenty of drink specials!

Once the social event is over at Rahr and Sons Brewery, take the shuttle bus back to the hotel. Find a friend and walk over to Frankie's in Sundance Square. Beginning at 9:00 p.m., we have the back room reserved just for TextITE.

### Thursday Night Social

Thursday,  
6:00 p.m. – 9:00 p.m.

The Fort Worth LAC is excited to introduce TextITE members to our own local brew. Rahr and Sons Brewery is located just south of downtown. The brewery totals 20,000 square feet and the Tap Room area seats at least 100 people hofbrau-style. Food will be catered to the brewery and beer tastings will be available until 8:30 p.m.

Please note this is an open-air facility. Large fans are available but please dress accordingly for a summer time event.

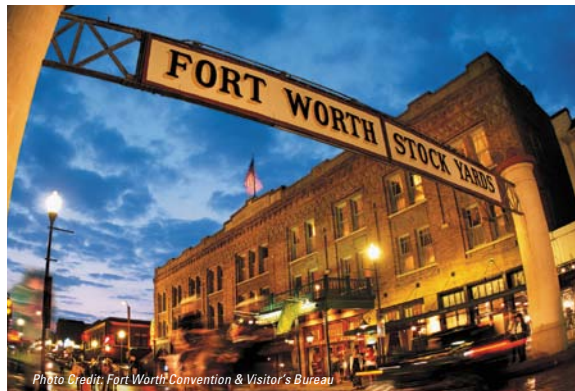


Photo Credit: Fort Worth Convention & Visitor's Bureau

## NOTES

	Wednesday August 29	Thursday, August 30	Friday, August 31	
7:00			Consultant's Council Breakfast	7:00
7:30			Student Poster Session/Break	7:30
8:00		Board Meeting (if necc.)		8:00
8:30		Committee Meetings	Session 4A Session 4B	8:30
9:00		Session 1	Student Poster Session/Break	9:00
9:30		Vendor Exhibits and Breakfast	Session 5A Session 5B	9:30
10:00	Registration Desk Open			10:00
10:30	Golf			10:30
11:00				11:00
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## PROFESSIONAL DEVELOPMENT HOURS (PDHs)

### Professional Development Hours

According to the Texas Board of Professional Engineers (TBPE), 15 professional development hours (PDHs) are required each year for license renewal. A PDH is defined as a contact/clock hour on any qualifying course or activity with a clear purpose and objective to maintain, improve or expand the skills and knowledge relevant to the license holder's engineering field. Courses, presentations, or activities related to engineering in a technical, managerial, or ethical manner count toward PDHs.

There are two basic criteria for an activity to count:

1. Is the specific activity on the list of activities in the rule? (see the TBPE website for an excerpt from the rule)
2. Is the activity relevant to the practice of a technical profession and does it include technical, ethical, or managerial content?

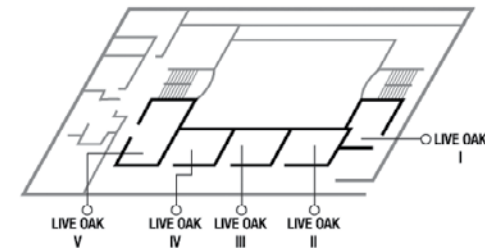
The board wants the reporting process to be as simple as possible and as such, there are only two things that a license holder needs to do:

1. Certify on the renewal statement that you have completed the CEP requirement and return it with your renewal payment. This is the main document that the board reviews and keeps as a record of completing the CEP requirement.
2. Keep some sort of paper proof of your activity. We recommend that you retain a copy of the program along with any presentations you attended.

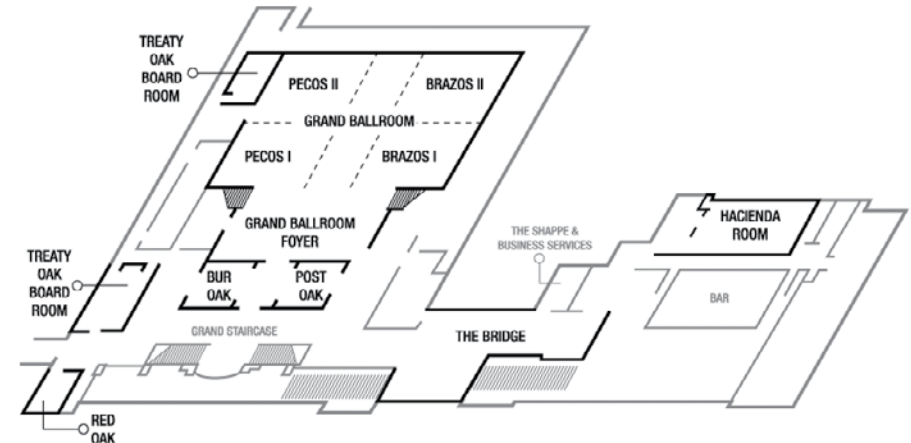
For additional information, access the TBPE website at [http://engineers.texas.gov/cep\\_faq.htm](http://engineers.texas.gov/cep_faq.htm).

## MEETING MAP

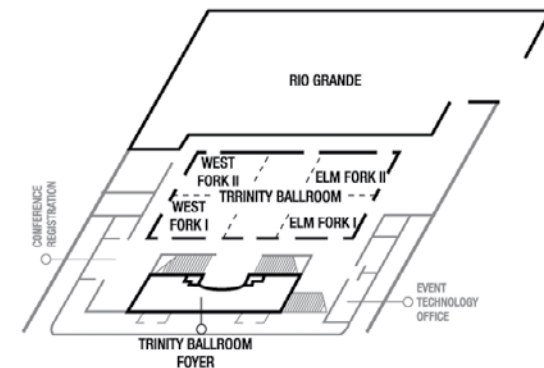
### LIVE OAK



### MEZZANINE



### TRINITY



**Spring 2013 Meeting**

*Make plans now to attend!*

**Richardson, Texas ★ April 10–12, 2013**

## HIGHWAY PRODUCTS GROUP EXHIBITORS

C J Hensch & Associates, Inc.	Iteris, Inc.	Sensys Networks
ComNet	McCain, Inc.	Siemens ITS
Consolidated Traffic Controls	Nippon Carbide Industries (USA), Inc.	SkyBracket
Control Technologies, Inc.	Paradigm Systems	Skyline Products, Inc.
CTC, Inc.	Pelco Products, Inc.	Spot Devices
Daktronics	Pexco, Davidson Traffic Control Products	Tapco
Dialight Corporation	PTV America, Inc.	TechOne Sales, LLC
Dynamic Vision Co.	Quality Counts, LLC	Teleste
Eletctrotechnics Corporation (ELTEC)	Qwick Kurb, Inc.	Texas Highway Products
Endeavor Concepts, LLC	RTC Manufacturing	Tomar
EtherWAN Systems	Rhythm Engineering	Trafficware
FLIR	RuggedCom, Inc.	TX Service
LeddarTech		Twincrest Technologies
		Valmont Structures

### CCT<sub>Ex</sub>ITE WOULD LIKE TO THANK THE FORT WORTH POKER NIGHT SPONSORS:

#### STRAIGHT FLUSH:

CDM Smith

CJ Hensch & Associates

Gerry de Camp, Traffic Signal Engineer

HDR

JKnesek and Associates

Kimley-Horn and Associates

Othon, Inc.

Pape Dawson Engineers, Inc.

Traffic Engineers, Inc.

Walter P. Moore

#### FOUR OF A KIND:

RS&H

#### FULL HOUSE:

Lee Engineering

Teague, Nall and Perkins



Texas District of the Institute of Transportation Engineers (TexITE) is a professional organization for individuals in the transportation field that reside in the state of Texas, although membership is not limited to Texas professionals who strive to help

Texans provide a safer, cleaner and more convenient and efficient transportation system.

For more details visit [texite.org](http://texite.org).